

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Ranco](#) /

› [Ranco A22-4506 Ice Harvest Control User Manual](#)

Ranco A22-4506

Ranco A22-4506 Ice Harvest Control User Manual

Model: A22-4506

1. INTRODUCTION

This manual provides essential information for the Ranco A22-4506 Ice Harvest Control. It is designed to assist users in understanding the product's function, specifications, and general guidelines for installation, operation, and maintenance. This control is a critical component in ice machine systems, regulating the ice harvest cycle.

2. PRODUCT OVERVIEW

The Ranco A22-4506 is an ice harvest control unit manufactured by Ranco Controls / Invensys. It is specifically designed for use in ice machines to manage the ice harvesting process, ensuring efficient and reliable operation. This control unit typically monitors temperature or pressure to initiate and terminate the ice release cycle from the evaporator.



Figure 1: The Ranco A22-4506 Ice Harvest Control. This image displays the control module, which is a compact metal box with mounting screws, and an attached coiled capillary tube, which is typically used for sensing temperature or pressure within the ice machine system.

3. SPECIFICATIONS

The following table outlines the key specifications for the Ranco A22-4506 Ice Harvest Control:

Specification	Detail
Brand Name	Ranco
Model Number	A22-4506
Part Number	A224506
Item Weight	1 pound
Product Dimensions	4 x 5 x 2.63 inches

Specification	Detail
Certification	UL
National Stock Number	5930-00-984-4976
Batteries Required?	No
Date First Available	May 20, 2010

4. SETUP AND INSTALLATION

Installation of the Ranco A22-4506 Ice Harvest Control should only be performed by a qualified technician or service professional. Incorrect installation can lead to equipment damage, malfunction, or safety hazards. Always refer to the specific ice machine's service manual for detailed wiring diagrams and mounting instructions.

- **Safety First:** Ensure the ice machine is completely disconnected from power before beginning any installation or service work.
- **Location:** Install the control in the designated location within the ice machine, typically near the evaporator or where the capillary tube can accurately sense the required temperature/pressure.
- **Wiring:** Connect the control according to the ice machine manufacturer's wiring schematic. Verify all connections are secure and properly insulated.
- **Capillary Tube:** Carefully route and secure the capillary tube to the sensing point without kinking or damaging it.
- **Testing:** After installation, restore power and perform functional tests as outlined in the ice machine's service manual to ensure the control operates correctly.

5. OPERATING PRINCIPLES

The Ranco A22-4506 Ice Harvest Control functions by monitoring specific conditions (e.g., temperature or pressure) within the ice machine's refrigeration system. When these conditions indicate that the ice is ready to be harvested from the evaporator, the control activates the necessary components (e.g., hot gas valve, water pump) to initiate the defrost and ice release cycle. Once the ice has fallen into the bin, the control senses a change in conditions and terminates the harvest cycle, allowing the machine to return to the ice-making phase.

There are no user-adjustable settings on this specific control model; its operation is automatic based on its factory calibration.

6. MAINTENANCE

The Ranco A22-4506 Ice Harvest Control is a sealed electronic component and generally requires no routine maintenance itself. However, its proper function depends on the overall cleanliness and operational integrity of the ice machine. Regular maintenance of the ice machine, as recommended by its manufacturer, will help ensure the longevity and reliability of the harvest control.

- **Keep Clean:** Ensure the area around the control and its capillary tube is free from dirt, dust, and debris.
- **Inspect Connections:** Periodically check electrical connections for tightness and signs of corrosion.
- **Avoid Physical Damage:** Protect the control and its capillary tube from physical impact or bending,

especially the tube, as this can affect its sensing accuracy.

7. TROUBLESHOOTING

If an ice machine equipped with the Ranco A22-4506 is experiencing issues with its ice harvest cycle, the problem may not always be directly with the control itself. Many components work in conjunction. Below are general troubleshooting steps; always consult a qualified technician for diagnosis and repair.

- **No Ice Harvest:**

- Verify power supply to the ice machine.
- Check for proper refrigerant charge in the system.
- Inspect the hot gas valve (if applicable) for proper operation.
- Ensure the capillary tube is correctly positioned and not damaged.

- **Premature or Delayed Harvest:**

- This could indicate an issue with the sensing element (capillary tube) or the control unit itself.
- Verify ambient conditions are within the ice machine's operating range.

- **Continuous Harvest Cycle:**

- Check for proper water flow and ice formation on the evaporator.
- The control may not be sensing the completion of the harvest cycle, possibly due to a faulty sensor or control unit.

If the control unit is suspected to be faulty, it typically requires replacement as it is not designed for field repair.

8. WARRANTY AND SUPPORT

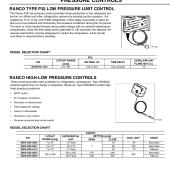
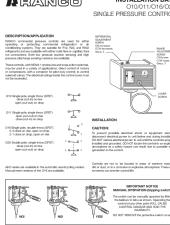
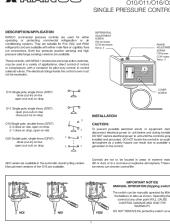
For warranty information regarding the Ranco A22-4506 Ice Harvest Control, please refer to the documentation provided at the time of purchase or contact the original seller or Ranco Controls directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, installation assistance, or replacement parts, it is recommended to contact a certified HVAC/Refrigeration technician or the authorized distributor from whom the product was purchased. Ranco Controls may also provide support resources on their official website.

Contact Information: Please refer to the Ranco Controls official website or your product supplier for the most current contact details.

© 2024 Ranco Controls. All rights reserved. This manual is for informational purposes only.

Related Documents - A22-4506

	<p>Ranco, Johnson Controls, and Danfoss Refrigeration Controls Catalog</p> <p>Comprehensive catalog of Ranco, Johnson Controls, and Danfoss temperature and pressure controls, including low pressure limit controls, high-low pressure controls, electronic controls, defrost controls, and accessories for refrigeration systems.</p>
	<p>Ranco ETC Two Stage Electronic Temperature Control - NEMA Type 4X Installation Data</p> <p>Installation data, specifications, operation, and troubleshooting for the Ranco ETC Two Stage Electronic Temperature Control, NEMA Type 4X. This control is designed for commercial HVAC and refrigeration, offering dual-stage temperature control, LCD display, keypad programming, and a NEMA 4X watertight enclosure for outdoor use.</p>
	<p>Ranco Single Pressure Control Installation Data</p> <p>Installation data for Ranco single pressure controls (010, 011, 016, 020). Covers description, application, installation, wiring, and control settings for various refrigerants and pressure ranges.</p>
	<p>Ranco O10/O11/O16/O20 Single Pressure Control Installation Data</p> <p>Comprehensive installation data, wiring, settings, and specifications for Ranco O10, O11, O16, and O20 single pressure controls used in commercial refrigeration and air conditioning systems. Includes mounting instructions, capillary care, control wiring, adjustment procedures, and detailed specifications.</p>
	<p>Ranco Bottom Dump Trailer Operation, Maintenance & Parts Manual</p> <p>Comprehensive guide for Ranco Bottom Dump Trailers covering operation, maintenance, parts, electrical, air brake, and suspension systems. Essential for proper use and upkeep.</p>
	<p>Filtri Essiccatore Ranco: Descrizione, Specifiche Tecniche e Ricambi</p> <p>Guida completa ai filtri essiccatore Ranco per sistemi HVAC/refrigerazione commerciale. Dettagli su descrizione, caratteristiche, vantaggi, specifiche tecniche, compatibilità refrigeranti e informazioni sui ricambi.</p>

Page 1 of 3

[pdf]

3XL08 Ranco A22 4506 Cross Reference Listing Ranco Listing Page 2 of 3 Part Manufacturer 1054

RANCO 1068 1074 35 36v1grainger ca ec 1 ||

Ranco **A22-4506** Cross Reference Listing Part # 4548 22751 68628 73335 92038 11-0345-00 11-0345-01 11-0345-02 11-0345-03 11-0370-00 11-039-01 11-0395-01 11-0395-02 11-0395-04 11-0428-01 11-0430-01 11-0435-01 11-370 16394-CH 20447-1075 21B940485-G1 25-11589B 25-12536B 25-16029B-000 259050-24 3032-602 ...
lang:en **score:39** filesize: 43.18 K page_count: 3 document date: 2022-08-22

[\[pdf\]](#) Instructions Specifications Declaration of Conformity

Microsoft Word CCRP Letter 2007 doc cactei1 RANCO A12 SERIES CONSTANT CUT IN CONTROL

Adaptable replacement for ice machine applications Parts and instructions included easy installation

PART NO RANGE °F DIFFERENTIAL SWITCH SENSING ELEMENT STYLE RAN A22 4506 19 to 22 8
SPDT 72" Capillary TEMPERATURE CONTROLS 617 The Ranco Controls provide a constant Cut In
feature design is generally used an Off Cycle defrost function 585005 SpecSheet content interlinebrands
product document 10132

TEMPERATURE CONTROLS RANCO A12 SERIES CONSTANT CUT-IN CONTROL
The Ranco A12 Controls provide a cons ... for easy installation. SENSING ELEMENT
STYLE 48 Capillary 60 with Bulb 122 with Bulb PART NO RAN-A22-4506 RANGE F -
19 to 22 DIFFERENTIAL F 8 617 SWITCH SPDT SENSING ELEMENT STYLE 72
Capilla...

lang:en score:30 filesize: 410.29 K page_count: 2 document date: 2007-08-09

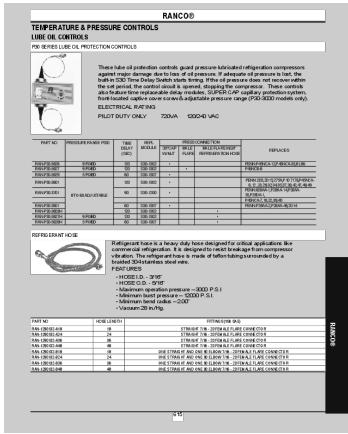
TEMPERATURE CONTROLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
RANCO A13 SERIES CONSTANT CUT-IN CONTROL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
The Ranco A13 Controls provide a constant cut-in feature. The controls can be used with a single stage or two stage defrost system. Each valve has the controls of the constant cut-in system "typical" and the controls of the defrost system "typical". The cut-in temperature will be between 20° and 41°F. (6° and 5°C). The defrost temperature will be between 40° and 50°F. (4° and 10°C). The cut-in control is a normally closed valve. The defrost control is a normally open valve. The cut-in valve can be electric or pneumatic. The defrost valve can be electric or pneumatic. The Cut-in valve has a constant Cut-in Control (CIC) and a Cut-off Control (CO). The Cut-off valve has a Cut-off Control (CO) and a Defrost Control (DC).																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
MODES SELECTION CIRCUIT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<table border="1"> <thead> <tr> <th>Part No.</th> <th>Model</th> <th>COOL</th> <th>COOL</th> <th>COOL</th> <th>COOL</th> <th>COOL</th> <th>COOL</th> </tr> </thead> <tbody> <tr> <td>A13B10-000</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-001</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-002</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-003</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-004</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-005</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-006</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-007</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-008</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-009</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-010</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-011</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-012</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-013</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-014</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-015</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-016</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-017</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-018</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-019</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-020</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-021</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-022</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-023</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-024</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-025</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-026</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-027</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-028</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-029</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-030</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-031</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-032</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-033</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-034</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-035</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-036</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-037</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-038</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-039</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-040</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-041</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-042</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-043</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-044</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-045</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-046</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-047</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-048</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-049</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-050</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-051</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-052</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-053</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-054</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-055</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-056</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-057</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-058</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-059</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-060</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-061</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-062</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-063</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-064</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-065</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-066</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-067</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-068</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-069</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-070</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-071</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-072</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-073</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-074</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-075</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-076</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-077</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-078</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-079</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-080</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-081</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-082</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-083</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-084</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-085</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-086</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-087</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-088</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-089</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-090</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-091</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-092</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-093</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-094</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-095</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-096</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-097</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-098</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-099</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-100</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-101</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-102</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-103</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-104</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-105</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-106</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-107</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-108</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-109</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-110</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-111</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-112</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-113</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-114</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-115</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-116</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-117</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-118</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-119</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-120</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-121</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-122</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-123</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-124</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-125</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-126</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-127</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-128</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-129</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-130</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-131</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-132</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-133</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-134</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-135</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-136</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-137</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-138</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-139</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-140</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-141</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-142</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-143</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-144</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-145</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-146</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-147</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-148</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-149</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-150</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-151</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-152</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-153</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-154</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-155</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-156</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-157</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-158</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-159</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-160</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-161</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-162</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-163</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-164</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-165</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-166</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-167</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-168</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-169</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-170</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A13B10-171</td> <td>10</td> <td>22</td> <td>8</td> <td>22</td> <td>20</td> <td>20</td> <td>20</td> </</tr></tbody></table>	Part No.	Model	COOL	COOL	COOL	COOL	COOL	COOL	A13B10-000	10	22	8	22	20	20	20	A13B10-001	10	22	8	22	20	20	20	A13B10-002	10	22	8	22	20	20	20	A13B10-003	10	22	8	22	20	20	20	A13B10-004	10	22	8	22	20	20	20	A13B10-005	10	22	8	22	20	20	20	A13B10-006	10	22	8	22	20	20	20	A13B10-007	10	22	8	22	20	20	20	A13B10-008	10	22	8	22	20	20	20	A13B10-009	10	22	8	22	20	20	20	A13B10-010	10	22	8	22	20	20	20	A13B10-011	10	22	8	22	20	20	20	A13B10-012	10	22	8	22	20	20	20	A13B10-013	10	22	8	22	20	20	20	A13B10-014	10	22	8	22	20	20	20	A13B10-015	10	22	8	22	20	20	20	A13B10-016	10	22	8	22	20	20	20	A13B10-017	10	22	8	22	20	20	20	A13B10-018	10	22	8	22	20	20	20	A13B10-019	10	22	8	22	20	20	20	A13B10-020	10	22	8	22	20	20	20	A13B10-021	10	22	8	22	20	20	20	A13B10-022	10	22	8	22	20	20	20	A13B10-023	10	22	8	22	20	20	20	A13B10-024	10	22	8	22	20	20	20	A13B10-025	10	22	8	22	20	20	20	A13B10-026	10	22	8	22	20	20	20	A13B10-027	10	22	8	22	20	20	20	A13B10-028	10	22	8	22	20	20	20	A13B10-029	10	22	8	22	20	20	20	A13B10-030	10	22	8	22	20	20	20	A13B10-031	10	22	8	22	20	20	20	A13B10-032	10	22	8	22	20	20	20	A13B10-033	10	22	8	22	20	20	20	A13B10-034	10	22	8	22	20	20	20	A13B10-035	10	22	8	22	20	20	20	A13B10-036	10	22	8	22	20	20	20	A13B10-037	10	22	8	22	20	20	20	A13B10-038	10	22	8	22	20	20	20	A13B10-039	10	22	8	22	20	20	20	A13B10-040	10	22	8	22	20	20	20	A13B10-041	10	22	8	22	20	20	20	A13B10-042	10	22	8	22	20	20	20	A13B10-043	10	22	8	22	20	20	20	A13B10-044	10	22	8	22	20	20	20	A13B10-045	10	22	8	22	20	20	20	A13B10-046	10	22	8	22	20	20	20	A13B10-047	10	22	8	22	20	20	20	A13B10-048	10	22	8	22	20	20	20	A13B10-049	10	22	8	22	20	20	20	A13B10-050	10	22	8	22	20	20	20	A13B10-051	10	22	8	22	20	20	20	A13B10-052	10	22	8	22	20	20	20	A13B10-053	10	22	8	22	20	20	20	A13B10-054	10	22	8	22	20	20	20	A13B10-055	10	22	8	22	20	20	20	A13B10-056	10	22	8	22	20	20	20	A13B10-057	10	22	8	22	20	20	20	A13B10-058	10	22	8	22	20	20	20	A13B10-059	10	22	8	22	20	20	20	A13B10-060	10	22	8	22	20	20	20	A13B10-061	10	22	8	22	20	20	20	A13B10-062	10	22	8	22	20	20	20	A13B10-063	10	22	8	22	20	20	20	A13B10-064	10	22	8	22	20	20	20	A13B10-065	10	22	8	22	20	20	20	A13B10-066	10	22	8	22	20	20	20	A13B10-067	10	22	8	22	20	20	20	A13B10-068	10	22	8	22	20	20	20	A13B10-069	10	22	8	22	20	20	20	A13B10-070	10	22	8	22	20	20	20	A13B10-071	10	22	8	22	20	20	20	A13B10-072	10	22	8	22	20	20	20	A13B10-073	10	22	8	22	20	20	20	A13B10-074	10	22	8	22	20	20	20	A13B10-075	10	22	8	22	20	20	20	A13B10-076	10	22	8	22	20	20	20	A13B10-077	10	22	8	22	20	20	20	A13B10-078	10	22	8	22	20	20	20	A13B10-079	10	22	8	22	20	20	20	A13B10-080	10	22	8	22	20	20	20	A13B10-081	10	22	8	22	20	20	20	A13B10-082	10	22	8	22	20	20	20	A13B10-083	10	22	8	22	20	20	20	A13B10-084	10	22	8	22	20	20	20	A13B10-085	10	22	8	22	20	20	20	A13B10-086	10	22	8	22	20	20	20	A13B10-087	10	22	8	22	20	20	20	A13B10-088	10	22	8	22	20	20	20	A13B10-089	10	22	8	22	20	20	20	A13B10-090	10	22	8	22	20	20	20	A13B10-091	10	22	8	22	20	20	20	A13B10-092	10	22	8	22	20	20	20	A13B10-093	10	22	8	22	20	20	20	A13B10-094	10	22	8	22	20	20	20	A13B10-095	10	22	8	22	20	20	20	A13B10-096	10	22	8	22	20	20	20	A13B10-097	10	22	8	22	20	20	20	A13B10-098	10	22	8	22	20	20	20	A13B10-099	10	22	8	22	20	20	20	A13B10-100	10	22	8	22	20	20	20	A13B10-101	10	22	8	22	20	20	20	A13B10-102	10	22	8	22	20	20	20	A13B10-103	10	22	8	22	20	20	20	A13B10-104	10	22	8	22	20	20	20	A13B10-105	10	22	8	22	20	20	20	A13B10-106	10	22	8	22	20	20	20	A13B10-107	10	22	8	22	20	20	20	A13B10-108	10	22	8	22	20	20	20	A13B10-109	10	22	8	22	20	20	20	A13B10-110	10	22	8	22	20	20	20	A13B10-111	10	22	8	22	20	20	20	A13B10-112	10	22	8	22	20	20	20	A13B10-113	10	22	8	22	20	20	20	A13B10-114	10	22	8	22	20	20	20	A13B10-115	10	22	8	22	20	20	20	A13B10-116	10	22	8	22	20	20	20	A13B10-117	10	22	8	22	20	20	20	A13B10-118	10	22	8	22	20	20	20	A13B10-119	10	22	8	22	20	20	20	A13B10-120	10	22	8	22	20	20	20	A13B10-121	10	22	8	22	20	20	20	A13B10-122	10	22	8	22	20	20	20	A13B10-123	10	22	8	22	20	20	20	A13B10-124	10	22	8	22	20	20	20	A13B10-125	10	22	8	22	20	20	20	A13B10-126	10	22	8	22	20	20	20	A13B10-127	10	22	8	22	20	20	20	A13B10-128	10	22	8	22	20	20	20	A13B10-129	10	22	8	22	20	20	20	A13B10-130	10	22	8	22	20	20	20	A13B10-131	10	22	8	22	20	20	20	A13B10-132	10	22	8	22	20	20	20	A13B10-133	10	22	8	22	20	20	20	A13B10-134	10	22	8	22	20	20	20	A13B10-135	10	22	8	22	20	20	20	A13B10-136	10	22	8	22	20	20	20	A13B10-137	10	22	8	22	20	20	20	A13B10-138	10	22	8	22	20	20	20	A13B10-139	10	22	8	22	20	20	20	A13B10-140	10	22	8	22	20	20	20	A13B10-141	10	22	8	22	20	20	20	A13B10-142	10	22	8	22	20	20	20	A13B10-143	10	22	8	22	20	20	20	A13B10-144	10	22	8	22	20	20	20	A13B10-145	10	22	8	22	20	20	20	A13B10-146	10	22	8	22	20	20	20	A13B10-147	10	22	8	22	20	20	20	A13B10-148	10	22	8	22	20	20	20	A13B10-149	10	22	8	22	20	20	20	A13B10-150	10	22	8	22	20	20	20	A13B10-151	10	22	8	22	20	20	20	A13B10-152	10	22	8	22	20	20	20	A13B10-153	10	22	8	22	20	20	20	A13B10-154	10	22	8	22	20	20	20	A13B10-155	10	22	8	22	20	20	20	A13B10-156	10	22	8	22	20	20	20	A13B10-157	10	22	8	22	20	20	20	A13B10-158	10	22	8	22	20	20	20	A13B10-159	10	22	8	22	20	20	20	A13B10-160	10	22	8	22	20	20	20	A13B10-161	10	22	8	22	20	20	20	A13B10-162	10	22	8	22	20	20	20	A13B10-163	10	22	8	22	20	20	20	A13B10-164	10	22	8	22	20	20	20	A13B10-165	10	22	8	22	20	20	20	A13B10-166	10	22	8	22	20	20	20	A13B10-167	10	22	8	22	20	20	20	A13B10-168	10	22	8	22	20	20	20	A13B10-169	10	22	8	22	20	20	20	A13B10-170	10	22	8	22	20	20	20	A13B10-171	10	22	8	22	20	20	20
Part No.	Model	COOL	COOL	COOL	COOL	COOL	COOL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-000	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-001	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-002	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-003	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-004	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-005	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-006	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-007	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-008	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-009	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-010	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-011	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-012	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-013	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-014	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-015	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-016	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-017	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-018	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-019	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-020	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-021	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-022	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-023	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-024	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-025	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-026	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-027	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-028	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-029	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-030	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-031	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-032	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-033	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-034	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-035	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-036	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-037	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-038	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-039	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-040	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-041	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-042	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-043	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-044	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-045	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-046	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-047	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-048	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-049	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-050	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-051	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-052	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-053	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-054	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-055	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-056	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-057	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-058	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-059	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-060	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-061	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-062	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-063	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-064	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-065	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-066	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-067	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-068	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-069	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-070	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-071	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-072	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-073	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-074	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-075	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-076	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-077	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-078	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-079	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-080	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-081	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-082	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-083	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-084	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-085	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-086	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-087	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-088	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-089	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-090	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-091	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-092	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-093	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-094	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-095	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-096	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-097	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-098	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-099	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-100	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-101	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-102	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-103	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-104	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-105	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-106	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-107	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-108	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-109	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-110	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-111	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-112	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-113	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-114	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-115	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-116	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-117	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-118	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-119	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-120	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-121	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-122	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-123	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-124	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-125	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-126	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-127	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-128	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-129	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-130	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-131	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-132	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-133	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-134	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-135	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-136	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-137	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-138	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-139	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-140	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-141	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-142	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-143	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-144	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-145	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-146	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-147	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-148	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-149	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-150	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-151	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-152	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-153	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-154	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-155	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-156	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-157	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-158	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-159	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-160	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-161	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-162	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-163	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-164	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-165	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-166	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-167	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-168	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-169	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-170	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A13B10-171	10	22	8	22	20	20	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

[pdf] Declaration of Conformity

Microsoft Word CCRP Letter 2007 doc cactei1 A22 4506 BrocRobertshaw 4506A22 Brocsidharvey
documents Broc |||

TEMPERATURE CONTROLS RANCO A12 SERIES CONSTANT CUT-IN CONTROL
The Ranco A12 Controls provide a cons ... for easy installation. SENSING ELEMENT
STYLE 48 Capillary 60 with Bulb 122 with Bulb PART NO RAN-A22-4506 RANGE F -
19 to 22 DIFFERENTIAL F 8 617 SWITCH SPDT SENSING ELEMENT STYLE 72
Capilla...

lang:en score:29 filesize: 410.29 K page_count: 2 document date: 2007-08-09



[pdf] User Manual

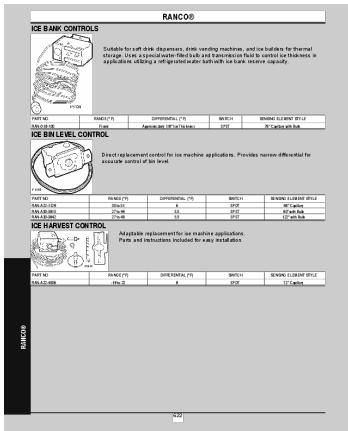
RANCO® 24 nov 2020 — has elapsed the manual reset button must be depressed to restart Automatic or WHITE RODGERS 1609 105 1639 6 1701 63 103 UNI 186090 Broc insco ASSETS DOCUMENTS ITEMS EN |||

RANCO TEMPERATURE PRESSURE CONTROLS LUBE OIL CONTROLS P30

SERIES LUBE OIL PROTECTION CONTROLS Thes ... for easy installation.

SENSING ELEMENT STYLE 48 Capillary 60 with Bulb 122 with Bulb PART NO RAN-A22-4506 RANGE F -19 to 22 DIFFERENTIAL F 8 SWITCH SPDT SENSING ELEMENT STYLE 72 Capillary ...

lang:en score:27 filesize: 1 M page_count: 0 document date: 0000-00-00



[pdf] Instructions Declaration of Conformity Catalog

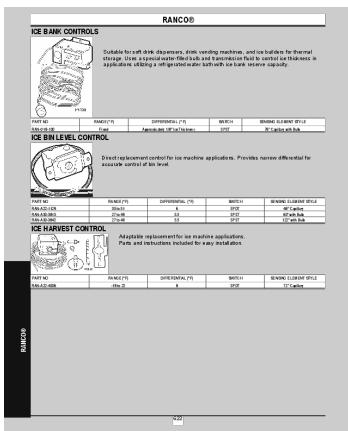
RANCO® Unilog Suitable for soft drink dispensers vending machines and ice builders thermal storage Uses a special water filled bulb transmission fluid to Ranco A22 1129 Young Supply Company Ranco Catalog Ranco Catalog assets unilog corp 267 ITEM DOC Ranco Catalog |||

ICE BANK CONTROLS RANCO Suitable for soft drink dispensers, drink vending machines, and ice builders thermal storage, ice is a special water filled bulb transmission fluid to control ice thickness in dispensers. Using a refrigerated water bath to break down ice.

Part No. Range (°F) Differential (°F) Switch Sensing Element Style
A22-1129 19° to 22° 4° SPDT 48 Capillary
A22-1129-100 19° to 22° 4° SPDT 72 Capillary

ICE HARVEST CONTROL
A22-1129-100
A22-1129-101

lang:en score:27 filesize: 270.92 K page_count: 1 document date: 2008-02-25



[pdf] Instructions

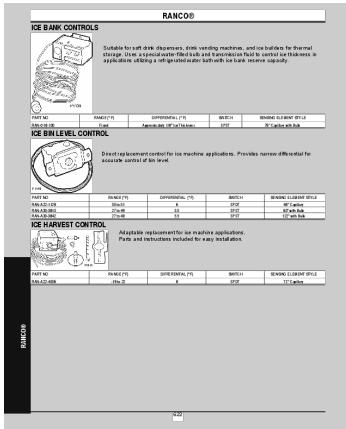
Ranco A22 1129 Insco Distributing UNI 43722 Broc insco ASSETS DOCUMENTS ITEMS EN |||

ICE BANK CONTROLS RANCO Suitable for soft drink dispensers, drink vending machines, and ice builders thermal storage, ice is a special water filled bulb transmission fluid to control ice thickness in dispensers. Using a refrigerated water bath to break down ice.

Part No. Range (°F) Differential (°F) Switch Sensing Element Style
A22-1129 19° to 22° 4° SPDT 48 Capillary
A22-1129-100 19° to 22° 4° SPDT 72 Capillary

ICE HARVEST CONTROL
A22-1129-100
A22-1129-101

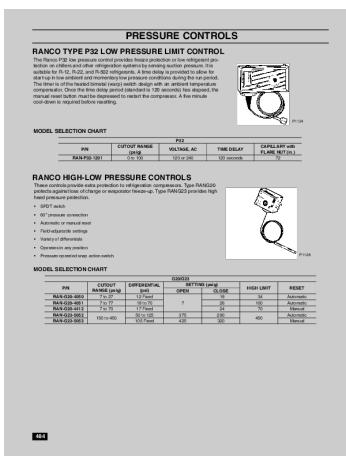
lang:en score:25 filesize: 270.81 K page_count: 0 document date: 0000-00-00



[pdf] Instructions Declaration of Conformity

Ranco A22 1129 Inesco Distributing UNI 43722 Broc assets unilogcorp 267 ITEM DOC |||

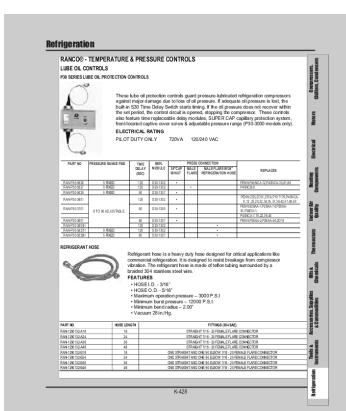
ICE BANK CONTROLS RANCO Suitable for soft drink dispensers, drink vending machines, and ice builders ... for easy installation. **SENSING ELEMENT STYLE 48** Capillary 60 with Bulb 122 with Bulb **PART NO RAN-A22-4506** RANGE F -19 to 22 **DIFFERENTIAL F 8 SWITCH SPDT SENSING ELEMENT STYLE 72** Capillary ...
lang:en **score:25** filesize: 270.92 K page_count: 1 document date: 2008-02-25



[Ranco, Johnson Controls, and Danfoss Refrigeration Controls Catalog](#)

Comprehensive catalog of Ranco, Johnson Controls, and Danfoss temperature and pressure controls, including low pressure limit controls, high-low pressure controls, electronic controls, defrost controls, and accessories for refrigeration systems.

lang:en **score:23** filesize: 673.77 K page_count: 26 document date: 2005-11-14



[pdf]

SECTION RANCO rchvacparts dl |||

Compressors, Chillers, Condensers Refrigeration RANCO - TEMPERATURE PRESSURE CONTROLS LUBE OIL CO ... NT STYLE 48 Capillary 60 with Bulb 122 with Bulb **PART NO RANGE F DIFFERENTIAL F SWITCH RAN-A22-4506** -19 to 22 8 SPDT **RANCO - O SERIES SINGLE FUNCTION PRESSURE CONTROLS SENSING ELEMENT ST...**
lang:en **score:23** filesize: 453.06 K page_count: 13 document date: 2011-02-24

TEMPERATURE & PRESSURE CONTROLS								
RANCO LUBE OIL PROTECTION CONTROLS								
These lube oil protection controls prevent premature lubrication of the compressor by monitoring the pressure of the lube oil lines. If it reaches a low pressure level, the heat in the 350°C Temperature Sensor will open the normally closed contacts, which are connected in series with the compressor's start switch. When the set pressure is reached, the control circuit is opened, stopping the compressor.								
								
MODEL SELECTION CHART								
PRESSURE RANGE	VOLTAGE	TYPE	ITEM NO.	PART NO.	ITEM NO.			
100 to 150	4.5	1/2" NPT-Clear	120	RAH P30-0001	RAH P30-0017			
2.5 oz		3/8" Capillary	120	RAH P30-0002	RAH P30-0018			
5 to 80	120 or 240	1/2" NPT	120	RAH P30-0003	RAH P30-0019			
100 to 150	120	1/2" NPT	120	RAH P30-0004	RAH P30-0020			
NOTES: 1. The range is the difference between the maximum pressure and the oil pressure pressure that will open the time delay device and close to the compressor. 2. The range of pressure must be less than 15% above the range to allow for the time delay switch and pressure switch overlap area.								
RANCO REFRIGERANT HOSE								
Ranco hoses consist of a flexible tube hose designed for critical applications like the commercial refrigeration. It is designed to resist temperature extremes, abrasion, and chemical attack. The hose is made of a single tube, which is reinforced with a braided 204 stainless steel wire.								
								
ITEM NO.								
PART NO.	OVERALL LENGTH	FITTINGS (L/R SIDE)	ITEM NO.					
RAN 1200 32-4118	12"		Straight T1/2-12 Female Flare Connection					
RAN 1200 32-4119	18"		Straight T1/2-12 Female Flare Connection					
RAN 1200 32-4120	24"		Straight T1/2-12 Female Flare Connection					
RAN 1200 32-4121	30"		Straight T1/2-12 Female Flare Connection					
RAN 1200 32-4122	36"		Straight T1/2-12 Female Flare Connection					
RAN 1200 32-4123	42"		Straight T1/2-12 Female Flare Connection					
One Straight And One T1/2-12 Female Flare Connection								
Both Straight And T1/2-12 Female Flare Connection								
								

[pdf] Declaration of Conformity Catalog

Carrier Corporation TEMPERATURE PRESSURE CONTROLS Ranco A30 3771 Catalog assets
unilogcorp 267 ITEM DOC III

TEMPERATURE PRESSURE CONTROLS RANCO LUBE OIL PROTECTION CONTROLS These lube oil protection control ... ations. Parts and instructions included for easy installation. MODEL SELECTION CHART PART NO. RAN-A22-4506 SWITCH SPDT P1141 A22 RANGE F -19 to 22 DIFFERENTIAL F 8 SENSING ELEMENT 72 Capill...

lang:en score:22 filesize: 590.97 K page_count: 15 document date: 2005-11-09

TEMPERATURE & PRESSURE CONTROLS						
RANCO LUBI-O-CONTROLS P/N 888-11004 OR P/N 888-11005						
						
<p>These are low pressure control, guard pressure balanced refrigeration compressor controls. They will monitor pressure to limit oil to low pressure. If adequate oil pressure is lost, the compressor will automatically turn off. The pressure switch will then turn the compressor back on when the oil pressure is restored. The control circuit is sealed, stopping the need for external protection. The control is designed to operate on 120VAC, 60Hz, 1/20HP compressors with adjustable pressure range (P/N 888-11006, model 40).</p>						
Part No.	Pressure Range (psi)	Oil Temp. Range (°F)	Model	Switch	Relay	Replaces
888-11004	10-100	40-140	40	NO	NO	888-11004
888-11005	10-100	40-140	40	NO	NO	888-11005
888-11006	10-100	40-140	40	NO	NO	888-11006
888-11007	10-100	40-140	40	NO	NO	888-11007
888-11008	10-100	40-140	40	NO	NO	888-11008
888-11009	10-100	40-140	40	NO	NO	888-11009
888-11010	10-100	40-140	40	NO	NO	888-11010
888-11011	10-100	40-140	40	NO	NO	888-11011
888-11012	10-100	40-140	40	NO	NO	888-11012
888-11013	10-100	40-140	40	NO	NO	888-11013
888-11014	10-100	40-140	40	NO	NO	888-11014
888-11015	10-100	40-140	40	NO	NO	888-11015
888-11016	10-100	40-140	40	NO	NO	888-11016
888-11017	10-100	40-140	40	NO	NO	888-11017
888-11018	10-100	40-140	40	NO	NO	888-11018
888-11019	10-100	40-140	40	NO	NO	888-11019
888-11020	10-100	40-140	40	NO	NO	888-11020
888-11021	10-100	40-140	40	NO	NO	888-11021
888-11022	10-100	40-140	40	NO	NO	888-11022
888-11023	10-100	40-140	40	NO	NO	888-11023
888-11024	10-100	40-140	40	NO	NO	888-11024
888-11025	10-100	40-140	40	NO	NO	888-11025
888-11026	10-100	40-140	40	NO	NO	888-11026
888-11027	10-100	40-140	40	NO	NO	888-11027
888-11028	10-100	40-140	40	NO	NO	888-11028
888-11029	10-100	40-140	40	NO	NO	888-11029
888-11030	10-100	40-140	40	NO	NO	888-11030
888-11031	10-100	40-140	40	NO	NO	888-11031
888-11032	10-100	40-140	40	NO	NO	888-11032
888-11033	10-100	40-140	40	NO	NO	888-11033
888-11034	10-100	40-140	40	NO	NO	888-11034
888-11035	10-100	40-140	40	NO	NO	888-11035
888-11036	10-100	40-140	40	NO	NO	888-11036
888-11037	10-100	40-140	40	NO	NO	888-11037
888-11038	10-100	40-140	40	NO	NO	888-11038
888-11039	10-100	40-140	40	NO	NO	888-11039
888-11040	10-100	40-140	40	NO	NO	888-11040
888-11041	10-100	40-140	40	NO	NO	888-11041
888-11042	10-100	40-140	40	NO	NO	888-11042
888-11043	10-100	40-140	40	NO	NO	888-11043
888-11044	10-100	40-140	40	NO	NO	888-11044
888-11045	10-100	40-140	40	NO	NO	888-11045
888-11046	10-100	40-140	40	NO	NO	888-11046
888-11047	10-100	40-140	40	NO	NO	888-11047
888-11048	10-100	40-140	40	NO	NO	888-11048
888-11049	10-100	40-140	40	NO	NO	888-11049
888-11050	10-100	40-140	40	NO	NO	888-11050
888-11051	10-100	40-140	40	NO	NO	888-11051
888-11052	10-100	40-140	40	NO	NO	888-11052
888-11053	10-100	40-140	40	NO	NO	888-11053
888-11054	10-100	40-140	40	NO	NO	888-11054
888-11055	10-100	40-140	40	NO	NO	888-11055
888-11056	10-100	40-140	40	NO	NO	888-11056
888-11057	10-100	40-140	40	NO	NO	888-11057
888-11058	10-100	40-140	40	NO	NO	888-11058
888-11059	10-100	40-140	40	NO	NO	888-11059
888-11060	10-100	40-140	40	NO	NO	888-11060
888-11061	10-100	40-140	40	NO	NO	888-11061
888-11062	10-100	40-140	40	NO	NO	888-11062
888-11063	10-100	40-140	40	NO	NO	888-11063
888-11064	10-100	40-140	40	NO	NO	888-11064
888-11065	10-100	40-140	40	NO	NO	888-11065
888-11066	10-100	40-140	40	NO	NO	888-11066
888-11067	10-100	40-140	40	NO	NO	888-11067
888-11068	10-100	40-140	40	NO	NO	888-11068
888-11069	10-100	40-140	40	NO	NO	888-11069
888-11070	10-100	40-140	40	NO	NO	888-11070
888-11071	10-100	40-140	40	NO	NO	888-11071
888-11072	10-100	40-140	40	NO	NO	888-11072
888-11073	10-100	40-140	40	NO	NO	888-11073
888-11074	10-100	40-140	40	NO	NO	888-11074
888-11075	10-100	40-140	40	NO	NO	888-11075
888-11076	10-100	40-140	40	NO	NO	888-11076
888-11077	10-100	40-140	40	NO	NO	888-11077
888-11078	10-100	40-140	40	NO	NO	888-11078
888-11079	10-100	40-140	40	NO	NO	888-11079
888-11080	10-100	40-140	40	NO	NO	888-11080
888-11081	10-100	40-140	40	NO	NO	888-11081
888-11082	10-100	40-140	40	NO	NO	888-11082
888-11083	10-100	40-140	40	NO	NO	888-11083
888-11084	10-100	40-140	40	NO	NO	888-11084
888-11085	10-100	40-140	40	NO	NO	888-11085
888-11086	10-100	40-140	40	NO	NO	888-11086
888-11087	10-100	40-140	40	NO	NO	888-11087
888-11088	10-100	40-140	40	NO	NO	888-11088
888-11089	10-100	40-140	40	NO	NO	888-11089
888-11090	10-100	40-140	40	NO	NO	888-11090
888-11091	10-100	40-140	40	NO	NO	888-11091
888-11092	10-100	40-140	40	NO	NO	888-11092
888-11093	10-100	40-140	40	NO	NO	888-11093
888-11094	10-100	40-140	40	NO	NO	888-11094
888-11095	10-100	40-140	40	NO	NO	888-11095
888-11096	10-100	40-140	40	NO	NO	888-11096
888-11097	10-100	40-140	40	NO	NO	888-11097
888-11098	10-100	40-140	40	NO	NO	888-11098
888-11099	10-100	40-140	40	NO	NO	888-11099
888-11100	10-100	40-140	40	NO	NO	888-11100
888-11101	10-100	40-140	40	NO	NO	888-11101
888-11102	10-100	40-140	40	NO	NO	888-11102
888-11103	10-100	40-140	40	NO	NO	888-11103
888-11104	10-100	40-140	40	NO	NO	888-11104
888-11105	10-100	40-140	40	NO	NO	888-11105
888-11106	10-100	40-140	40	NO	NO	888-11106
888-11107	10-100	40-140	40	NO	NO	888-11107
888-11108	10-100	40-140	40	NO	NO	888-11108
888-11109	10-100	40-140	40	NO	NO	888-11109
888-11110	10-100	40-140	40	NO	NO	888-11110
888-11111	10-100	40-140	40	NO	NO	888-11111
888-11112	10-100	40-140	40	NO	NO	888-11112
888-11113	10-100	40-140	40	NO	NO	888-11113
888-11114	10-100	40-140	40	NO	NO	888-11114
888-11115	10-100	40-140	40	NO	NO	888-11115
888-11116	10-100	40-140	40	NO	NO	888-11116
888-11117	10-100	40-140	40	NO	NO	888-11117
888-11118	10-100	40-140	40	NO	NO	888-11118
888-11119	10-100	40-140	40	NO	NO	888-11119
888-11120	10-100	40-140	40	NO	NO	888-11120
888-11121	10-100	40-140	40	NO	NO	888-11121
888-11122	10-100	40-140	40	NO	NO	888-11122
888-11123	10-100	40-140	40	NO	NO	888-11123
888-11124	10-100	40-140	40	NO	NO	888-11124
888-11125	10-100	40-140	40	NO	NO	888-11125
888-11126	10-100	40-140	40	NO	NO	888-11126
888-11127	10-100	40-140	40	NO	NO	888-11127
888-11128	10-100	40-140	40	NO	NO	888-11128
888-11129	10-100	40-140	40	NO	NO	888-11129
888-11130	10-100	40-140	40	NO	NO	888-11130
888-11131	10-100	40-140	40	NO	NO	888-11131
888-11132	10-100	40-140	40	NO	NO	888-11132
888-11133	10-100	40-140	40	NO	NO	888-11133
888-11134	10-100	40-140	40	NO	NO	888-11134
888-11135	10-100	40-140	40	NO	NO	888-11135
888-11136	10-100	40-140	40	NO	NO	888-11136
888-11137	10-100	40-140	40	NO	NO	888-11137
888-11138	10-100	40-140	40	NO	NO	888-11138
888-11139	10-100	40-140	40	NO	NO	888-11139
888-11140	10-100	40-140	40	NO	NO	888-11140
888-11141	10-100	40-140	40	NO	NO	888-11141
888-11142	10-100	40-140	40	NO	NO	888-11142
888-11143	10-100	40-140	40	NO	NO	888-11143
888-11144	10-100	40-140	40	NO	NO	888-11144
888-11145	10-100	40-140	40	NO	NO	888-11145
888-11146	10-100	40-140	40	NO	NO	888-11146
888-11147	10-100	40-140	40	NO	NO	888-11147
888-11148	10-100	40-140	40	NO	NO	888-11148
888-11149	10-100	40-140	40	NO	NO	888-11149
888-11150	10-100	40-140	40	NO	NO	888-11150
888-11151	10-100	40-140	40	NO	NO	888-11151
888-11152	10-100	40-140	40	NO	NO	888-11152
888-11153	10-100	40-140	40	NO	NO	888-11153
888-11154	10-100	40-140	40	NO	NO	888-11154
888-11155	10-100	40-140	40	NO	NO	888-11155
888-11156	10-100	40-140	40	NO	NO	888-11156
888-11157	10-100	40-140	40	NO	NO	888-11157
888-11158	10-100	40-140	40	NO	NO	888-11158
888-11159	10-100	40-140	40	NO	NO	888-11159
888-11160	10-100	40-140	40	NO	NO	888-11160</td

[pdf] Declaration of Conformity Borchure

Microsoft Word CCRP Letter 2007 doc cactei1 P30 SERIES LUBE OIL PROTECTION CONTROLS

TEMPERATURE RANCO O CUSTOM AND WIDE RANGE O10 TEMERATURE Recognizing the need for flexibility in design of refrigeration equipment these controls offer a wide selection such E37 1204 brochure s3 supplyhouse product files |||

TEMPERATURE PRESSURE CONTROLS RANCO LUBE OIL CONTROLS P30
SERIES LUBE OIL PROTECTION CONTROLS The ... for easy installation. SENSING
ELEMENT STYLE 48 Capillary 60 with Bulb 122 with Bulb PART NO RAN-**A22-4506**
RANGE F -19 to 22 DIFFERENTIAL F 8 617 SWITCH SPDT SENSING ELEMENT
STYLE 72 Capilla...

lang:en score:19 filesize: 1.35 M page_count: 13 document date: 2007-07-09

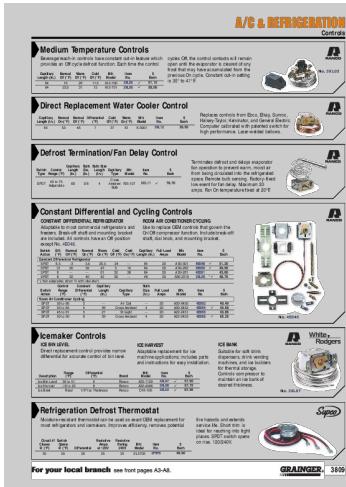
[\[pdf\]](#) Instructions Accessories

PAGE K435 ICE BANK CONTROLS sEC 10j refridge 50pages Fridge 12 10 2010 6 21 PM Page 31

Refrigeration Compressors Chillers Condensers Motors Electrical Heating Components Indoor Air Quality Thermostats Oils Chemicals Accessories Supplies Commodities rchvacparts dl |||

Compressors, Chillers, Condensers Refrigeration RANCO ICE BANK CONTROLS
Suitable for soft drink dis ... NT STYLE 48 Capillary 60 with Bulb 122 with Bulb PART
NO RANGE F DIFFERENTIAL F SWITCH RAN-A22-4506 -19 to 22 8 SPDT RANCO
- O SERIES SINGLE FUNCTION PRESSURE CONTROLS SENSING ELEMENT
ST...

lang:en score:19 filesize: 103.68 K page_count: 1 document date: 2011-02-24

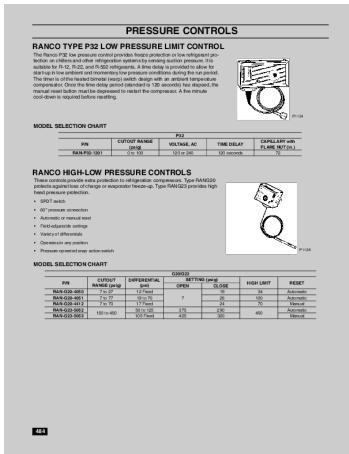


[pdf] Specifications

untitled Fred Steck INVENSYS A30180 library coburns specs |||

A/C REFRIGERATION Controls Medium Temperature Controls Beverage/reach-in controls have constant ... e machine applications; includes parts and instructions for easy installation. Mfr. Model A22-1129 **A22-4506** O18-100 Item No. 3XL07 3XL08 3XL02 Each 57.50 57.75 87.95 ICE BANK Suitable for soft d...

lang:en score:18 filesize: 70.83 K page_count: 1 document date: 2008-12-22



[pdf] User Manual

Carrier Corporation PRESSURE CONTROLS OozioThe Ranco P32 low pressure control provides freeze protection or refrigerant protection on chillers and other refrigeration systems by sensing suction DownloadFileoozio Attachment DownloadFile Id 22855 srsltid AfmBOopPM9lmGg

EiecMoJoHigeWusvWpCZwgLW6wN2 FFYJsVEWWxeL OozioPRESSURE suction RAN ETC 111000 120 208 240 VAC one RAN 112000 24 112 10 10' 100' 042 093 2 38 lbs 7842 7802 117 117oozio FFYJsVEWWxeLoozio AfmBOopP2stuD3PvBNsS2Ww3BY5dfk4swLWGtTzRloyYw lBoYWy1GUS |||

PRESSURE CONTROLS RANCO TYPE P32 LOW PRESSURE LIMIT CONTROL

The Ranco P32 low pressure control provi ... applications. Parts and instructions included for easy installation. MODEL SELECTION CHART P/N RAN-**A22-4506** 490 SWITCH SPDT P1141 A22 RANGE F -19 to 22 DIFFERENTIAL F 8 SENSING ELEMENT 72 Ca...

lang:en score:17 filesize: 673.77 K page_count: 26 document date: 2005-11-14

