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HANKISON HPR15

HANKISON HPR15 Refrigerated Air Dryer User Manual

Model: HPR15

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your HANKISON HPR15 Refrigerated Air Dryer. Please read this manual thoroughly before operating the unit and retain it for future reference.

The HANKISON HPR15 is designed to remove moisture from compressed air, ensuring a dry air supply for various industrial applications. This helps protect downstream equipment from corrosion and damage caused by water.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure the unit is properly grounded before connecting to power.
- Disconnect power before performing any maintenance or service.
- Do not operate the dryer if any components are damaged or missing.
- Ensure adequate ventilation around the unit to prevent overheating.
- Wear appropriate personal protective equipment (PPE) when working with compressed air systems.
- Refer to local codes and regulations for installation and operation.

3. PRODUCT OVERVIEW AND FEATURES

The HANKISON HPR15 is a compact and efficient refrigerated air dryer. Its primary function is to cool compressed air, causing water vapor to condense into liquid water, which is then removed from the system.



Figure 3.1: Front view of the HANKISON HPR15 Refrigerated Air Dryer. This image shows the compact cubic design with a blue top panel, gray side panels, and black grilles revealing internal copper tubing and components. An on/off switch is visible on the right side.

Key Features:

- **CFM:** 15
- **Dew Point:** 43 Degrees F
- **ISO Class:** 5
- **Max. Pressure:** 250 psi
- **Voltage:** 115VAC, 1 Phase
- **Refrigerant:** R-134A
- **Heat Exchanger Material:** Copper
- Includes Pneumatic Drain and 6 ft. Power Cord
- Features On/Off Switch and Power On Light

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your air dryer. Follow these steps carefully:

1. **Location:** Place the dryer in a clean, well-ventilated area, away from direct sunlight or heat sources. Ensure sufficient clearance around the unit for air circulation and maintenance access.
2. **Mounting:** The unit includes a bracket kit for secure mounting. Ensure the mounting surface is stable and capable of supporting the dryer's weight (approximately 69 lbs).
3. **Piping:** Connect the compressed air inlet and outlet pipes (3/8" O.D.) to the dryer. Use appropriate fittings and ensure all connections are airtight. Install a bypass line with shut-off valves to allow for dryer maintenance without interrupting air supply.
4. **Drain Connection:** Connect the pneumatic drain to a suitable condensate disposal system. Ensure the drain line is sloped downwards and free of obstructions.
5. **Electrical Connection:** Connect the 115VAC, 1 Phase power cord to a dedicated, properly grounded electrical outlet. Verify the voltage matches the unit's requirements.
6. **Pre-Start Check:** Before powering on, double-check all connections (air, drain, electrical) for security and proper installation.

5. OPERATING INSTRUCTIONS

Once installed, operating the HANKISON HPR15 is straightforward:

1. **Power On:** Locate the On/Off switch on the unit and switch it to the 'On' position. The 'Power On' light will illuminate, indicating the unit is receiving power and the refrigeration system is active.
2. **Air Flow:** Open the inlet and outlet valves on your compressed air system to allow air to flow through the dryer.
3. **Condensate Drainage:** The pneumatic drain will automatically discharge accumulated condensate. Ensure the drain line is not blocked and condensate is being properly removed.
4. **Monitoring:** Periodically check the dew point (if equipped with a monitor) to ensure the dryer is performing within specifications (43 Degrees F).
5. **Power Off:** To shut down the unit, switch the On/Off switch to the 'Off' position. Close the inlet and outlet air valves.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your HANKISON HPR15 air dryer. Always disconnect power before performing maintenance.

Routine Checks:

- **Daily:** Check the condensate drain for proper operation. Ensure no air is escaping and condensate is being discharged.
- **Weekly:** Inspect the condenser fins for dust and debris. Clean as necessary using compressed air or a soft brush. Blocked fins reduce cooling efficiency.
- **Monthly:** Check all electrical connections for tightness. Inspect air connections for leaks using a soapy water solution.
- **Annually:** Have a qualified technician inspect the refrigeration system, including refrigerant levels and compressor performance.

Note: Do not attempt to service the refrigeration system yourself. Contact a certified HVAC technician for any issues related to the refrigerant or compressor.

7. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with your air dryer.

Problem	Possible Cause	Solution
Dryer not turning on	No power supply; Faulty On/Off switch; Blown fuse/tripped breaker.	Check power cord and outlet; Test/replace switch; Reset breaker/replace fuse.
High dew point / Wet air	Overloaded dryer (CFM too high); High ambient/inlet temperature; Dirty condenser fins; Low refrigerant.	Verify CFM is within limits; Ensure proper ventilation; Clean condenser fins; Contact technician for refrigerant check.
Condensate not draining	Blocked drain line; Faulty pneumatic drain.	Clear drain line obstruction; Clean or replace pneumatic drain.
Excessive noise	Loose components; Fan obstruction; Compressor issue.	Inspect and tighten loose parts; Clear fan area; Contact technician for compressor diagnosis.

If the problem persists after attempting these solutions, please contact HANKISON customer support or a qualified service technician.

8. SPECIFICATIONS

Detailed technical specifications for the HANKISON HPR15 Refrigerated Air Dryer:

Model Number: HPR15

ASIN: B007IA73Q4

CFM: 15

Dew Point: 43 Degrees F

ISO Class: 5

Max. Pressure: 250 psi

Pipe Size: 3/8" O.D.

Voltage: 115VAC, 1 Phase

Full Load Amps: 2.63

Power: 0.24 kW

Max. Inlet Temp.: 120 Degrees F

Max. Ambient Temp.: 110 Degrees F

Refrigerant: R-134A

Refrigeration Compressor (HP): 1/7

Heat Exchanger Material: Copper

Finish: Powder Coated

Overall Height: 15 In.

Overall Width: 13 In.

Overall Depth: 13 In.

Weight: Approximately 69 Pounds (Package Dimensions: 21 x 18 x 18 inches)

Manufacturer: HANKISON

Date First Available: February 13, 2012

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact HANKISON directly or refer to their official website. Keep your purchase receipt and model number (HPR15) readily available when contacting support.

Manufacturer: HANKISON

For the most up-to-date contact information, please visit the official HANKISON website or consult your product's packaging.