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Trane DHY-1474

Trane Eliminator Liquid Line Filter Drier User Manual

Model: DHY-1474

PRODUCT OVERVIEW

The Trane Eliminator Liquid Line Filter Drier, Part# DHY01474, is an OEM ServiceFirst component designed for use with Trane CenTraVac Chillers. This purge filter drier is specifically engineered for centrifugal units and is model-specific. It is compatible with refrigerants R-11, R113, and R-123, and has a Maximum Working Pressure (MWP) of 200 PSIG (13.7 Bar).



Image: The Trane Eliminator Liquid Line Filter Drier, a black cylindrical component with a product label, designed for refrigerant systems.

KEY FEATURES AND COMPATIBILITY

- **Trane Purge Filter Drier:** Essential component for maintaining refrigerant system purity.
- **Replacement Part:** Directly replaces Part# DHY01474.
- **Production Part Number:** Trane Production Part #453633970100.
- **Chiller Compatibility:** Commonly used with Direct Drive Centravac Chillers, including models such as

CDHF1500*1A through CDHF1500*2M.

- **Supersedes/Replaces:** This drier supersedes or replaces various older part numbers including DHY1474, DHY-1474, DHY01474, DHY00337, DHY-0337, DHY0337, and DPU-1GD6211-2.

SPECIFICATIONS

Attribute	Value
Item Model Number	DHY-1474
Brand	Trane
Item Weight	15 Pounds
Manufacturer	Trane
ASIN	B00J4ZFKTI
Refrigerant Compatibility	R-11, R113, R-123
Maximum Working Pressure (MWP)	200 PSIG / 13.7 Bar

INSTALLATION AND SETUP

Installation of the Trane Eliminator Liquid Line Filter Drier should only be performed by qualified HVAC technicians. Improper installation can lead to system malfunction, refrigerant leaks, or personal injury.

1. **Safety First:** Ensure the chiller system is depressurized and isolated before beginning any work. Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
2. **System Preparation:** Recover all refrigerant from the system according to environmental regulations.
3. **Remove Old Drier:** Carefully disconnect and remove the existing filter drier. Be prepared for any residual refrigerant or oil.
4. **Inspect Connections:** Clean and inspect the connection points for any debris or damage.
5. **Install New Drier:** Install the new Trane DHY01474 filter drier, ensuring the flow direction matches the system's refrigerant flow. The drier is typically installed in the liquid line. Use appropriate tools and torque specifications for connections to prevent leaks.
6. **Leak Check:** After installation, perform a thorough leak check using an approved leak detection method.
7. **Evacuation and Charging:** Evacuate the system to a deep vacuum to remove non-condensable gases and moisture. Recharge the system with the correct type and amount of refrigerant as specified by the chiller manufacturer.
8. **System Startup:** Follow the chiller manufacturer's guidelines for system startup and operational checks.

Note: Refer to the specific Trane CenTraVac Chiller service manual for detailed installation procedures and safety warnings.

OPERATING PRINCIPLES

The Trane Eliminator Liquid Line Filter Drier is a critical component in a chiller's refrigerant circuit. Its primary functions are:

- **Filtration:** It removes solid contaminants such as dirt, metal chips, and other debris that can circulate within the refrigerant system. These particles can cause wear on compressors and expansion valves.
- **Moisture Removal:** The drier contains desiccant materials that absorb moisture (water) from the refrigerant. Moisture in a refrigeration system can lead to the formation of acids, corrosion, and ice blockages, severely impacting system performance and longevity.
- **Acid Removal:** In the event of a compressor burnout or system contamination, the drier can help to neutralize acids formed within the system, protecting components from further damage.

The drier operates continuously as refrigerant flows through the liquid line, ensuring the purity and dryness of the refrigerant before it enters the expansion device and evaporator.

MAINTENANCE

The filter drier is a consumable component and requires periodic replacement. Its lifespan depends on system cleanliness, operating conditions, and the presence of contaminants.

- **Replacement Schedule:** It is recommended to replace the filter drier during major system overhauls, after any significant system repair (e.g., compressor replacement, burnout), or if signs of contamination are present. Consult the chiller's maintenance schedule for specific recommendations.
- **Signs of a Clogged Drier:** A partially or fully clogged drier can restrict refrigerant flow, leading to symptoms such as:
 - High head pressure
 - Low suction pressure
 - Reduced cooling capacity
 - Temperature difference across the drier (a significant drop indicates a restriction)
- **Moisture Indicator:** Some systems may have a sight glass with a moisture indicator. A change in color (e.g., from green to yellow) indicates the presence of moisture and the need for drier replacement.
- **Professional Service:** All maintenance, including drier replacement, should be performed by certified HVAC technicians to ensure proper handling of refrigerants and system integrity.

TROUBLESHOOTING

Troubleshooting issues related to the filter drier typically involves diagnosing symptoms of restricted flow or moisture contamination. Always consult a qualified HVAC technician for diagnosis and repair.

Common Issues and Potential Causes:

Symptom	Possible Cause (Drier Related)	Action
High Head Pressure / Low Suction Pressure	Clogged or restricted filter drier	Inspect drier for temperature drop; replace if restricted.
Reduced Cooling Capacity	Restricted refrigerant flow due to clogged drier	Check system pressures; replace drier if indicated.
Moisture Indicator Changes Color (if present)	Drier saturated with moisture	Replace drier immediately; evacuate and recharge system.

Symptom	Possible Cause (Drier Related)	Action
Compressor Slugging / Liquid Floodback	Potential ice formation at expansion valve due to moisture	Replace drier; ensure proper system evacuation.

Always consult a certified HVAC technician for any troubleshooting or repairs involving refrigerant systems.

Warranty and Support

As an OEM ServiceFirst Component, the Trane Eliminator Liquid Line Filter Drier (Part# DHY01474) is covered by Trane's standard warranty for genuine replacement parts. Specific warranty terms and conditions may vary based on purchase location and installation circumstances.

For warranty claims, technical support, or to locate authorized service providers, please contact Trane directly or your authorized Trane distributor. Ensure you have your product model number (DHY-1474) and the chiller's serial number available when seeking support.

Trane Official Website: www.trane.com

Note: This manual provides general information. Always refer to the official Trane documentation and local regulations for specific product use and safety guidelines.

