

# KIT MOTOR COOLING EXPANSION VALVE ASSEMBLY

110055, 110096.



**Installation and servicing of Danfoss Turbocor® compressors by qualified and product trained personnel only. Follow these instructions and sound refrigeration/electrical/servicing practices relating to installation, commissioning, maintenance and service.**

<p>Consult the appropriate Danfoss Turbocor Compressors Inc. (DTC) Service Manual on <a href="http://turbocoroem.com">turbocoroem.com</a> for detailed service instructions.</p>	<p><b>Never power compressor without covers in place and secured.</b></p> <p><b>Opening the drive panel will expose you to a voltage hazard of up to 575V AC and 900V DC. Ensure the mains input power is off and locked out before opening panel.</b></p> <p><b>Before opening the drive panel, wait at least 20 minutes after isolating AC power to allow the high voltage capacitors to discharge.</b></p>	<p>Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage.</p> <p><b>This equipment contains hazardous voltages that can cause serious injury or death.</b></p>	<p><b>Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components.</b></p>
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## 1 - Introduction

VTT/VTX Motor Cooling Expansion Valve replacement.

This kit contains the Motor Cooling Expansion Valve. Please refer to our Service Manual for details regarding the replacement of this component.

We have made the **VTT/VTX Service Manual** available to anyone. To access the manual, you may scan the applicable QR code below or you may go to our DTC website at [www.turbocoroem.com](http://www.turbocoroem.com). At the top of the page there is a pull-down menu called "Quick Links." Click this menu and select the appropriate service manual.

Refer to the applicable QR code below to download the VTT/VTX Service Manual.

**English**



**Chinese**



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## 2 - MOTOR COOLING EXPANSION VALVE Removal Instructions

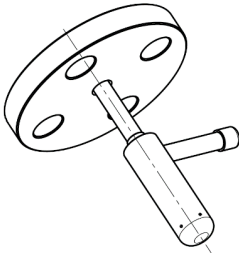





1. Isolate VTT/VTX power as described in Section "Electrical Isolation of the VFD" of the Service Manual (M-SV-VT-001).
2. Isolate the compressor and recover the refrigerant according to industry standards.
3. Remove the Actuator Coil from the Motor Cooling Valve Assembly.
4. Disconnect the liquid line connection at the Motor Cooling Valve Assembly.
5. Remove the Motor Cooling Valve Assembly.

## 3 - MOTOR COOLING EXPANSION VALVE Installation Instructions






1. Install Motor Cooling Valve Assembly in the same orientation noted at removal.
2. Heat and remove the cap from Motor Cooling Valve Assembly inlet line and attach the liquid line.
  - ⚠ Protect the valve from heat during installation.
3. Install the Actuator Coil onto the Motor Cooling Valve Assembly. Leak test and evacuate compressor in accordance with standard industry practices.
4. Return the compressor to normal operation.
5. Test run the compressor to verify proper operation.

## 4 - Kit Contents

**Note:** Any part numbers included in the kit contents are internal part numbers only. Please refer to our Spare Parts Manuals for any kit part numbers.

Kit numbers	Compressor models	
110055	VTT	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - FLANGE INLET COOLING	
4	WASHER, M14 FLAT – 902413	
4	WASHER, M14 SPLIT – 902303	
4	SCREW, M14 – 902645	
1	O-RING – Inlet Cooling Flange – 920212	
1	LUBRICATION-SUPER-O-LUBE-2G	

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Kit numbers	Compressor models	
110096	VTT/VTX	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - FLANGE INLET COOLING	
2	WASHER, M8 FLAT – 902398	
2	WASHER, M8 SPLIT – 902397	
2	SCREW, M8 – 902482	
1	O-RING – Inlet Cooling Flange – 920212	
1	LUBRICATION-SUPER-O-LUBE-2G	

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