

RESONATOR, FLANGE, AND HARDWARE KITS

199K0104, 199K0101, 199K0102, & 199K0103

 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.			
Consult the appropriate Danfoss LLC Service Manual on www.turbocoroem.com for detailed service instructions.	Never power the compressor without the top covers in place and secured. Removing the mains input cover will expose you to hazardous voltages. Ensure the mains input power is off and locked out before removing the cover. Before removing the top cover, wait at least 20 minutes after isolating AC power to allow the high-voltage capacitors to discharge.	Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage. This equipment contains hazardous voltages that can cause serious injury or death.	Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components. After procedure is complete, follow the appropriate leak test and evacuation process before reintroducing refrigerant.

1 - Introduction

This instruction provides installation details on the Resonator and the Flange.

This instruction assumes that the Resonator and Flange are being installed on a compressor that has not yet been installed on a chiller. If the compressor has already been installed and piping has already been attached, that piping will need to be removed before the installation of the resonator. Then, before installation, all new O-rings should be used where any flange has been removed.

Figure 1 – Resonator and Flange



Please refer to our Service Manual for additional information.

We have made the **TT/TG Series 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. At the bottom of the page, there is a Section named "Categories" that includes various menus including one for Manuals.

Refer to the applicable QR code below to download the TT Series Service Manual.

English



Chinese



2 - Flange Installation to Chiller Piping Instructions

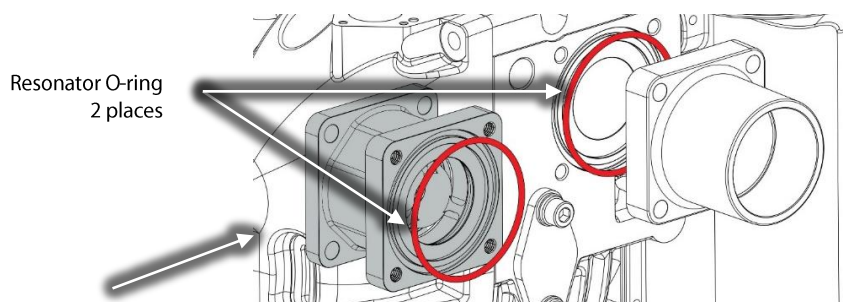
1. Unpack the Flange and ensure all mating surfaces are clean on both the Flange and the Resonator.
2. Identify the exact final Flange location.
3. Install Resonator Flange to discharge piping ensuring to not overheat the flange.
4. Continue to Section 3 and install the Resonator.

3 - Resonator Installation Instructions

1. Unpack the resonator and ensure all mating surfaces are clean on the Resonator and the compressor housing.
2. Clean, lubricate, and install both O-rings. Place the interior Resonator O-ring into the compressor housing groove and the exterior Resonator O-ring into the Resonator groove. Refer to Figure 2 – O-Ring and Resonator .
3. Carefully slide the Resonator into position without disturbing the O-rings.

NOTE: Refer to the engraving on the side of the Resonator for the proper orientation of the Resonator. The arrow must point away from the compressor. Refer to **Error! Reference source not found.**

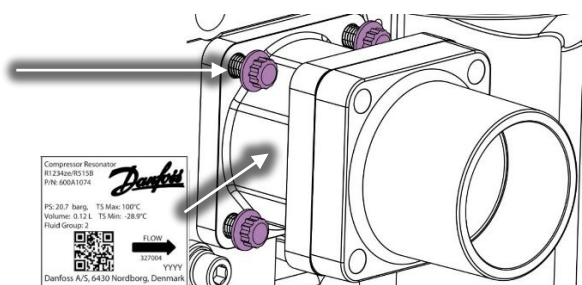
Figure 2 – O-Ring and Resonator Positioning



4. Finger-tighten the four provided M10x30 fasteners to secure the Resonator to the Compressor housing. Do not tighten at this time.

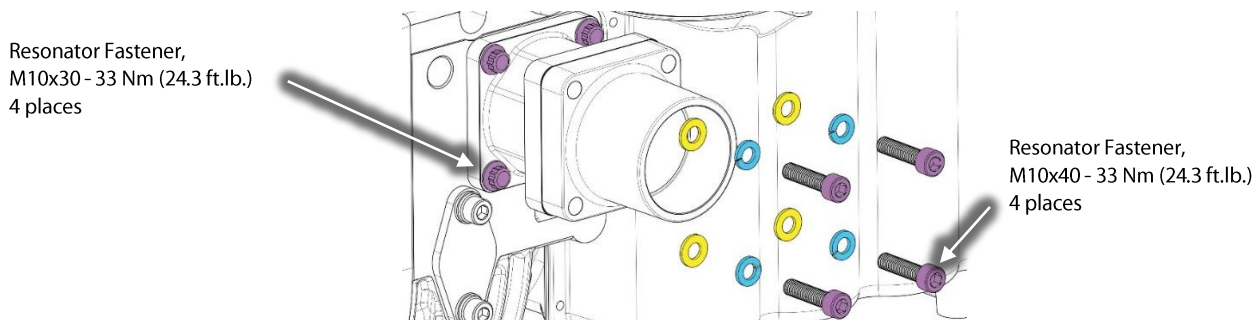
Figure 3 – Resonator Orientation

Resonator Fastener,
M10x30 - 33 Nm (24.3 ft.lb.)
4 places



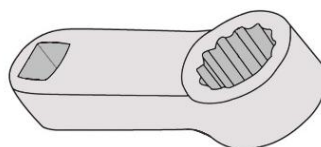
5. Finger-tighten the four provided M10x40 fasteners to secure the Flange to the Resonator.
6. Tighten all eight fasteners in a crisscross pattern to 33 Nm (24.3 ft.lb.). Refer to Figure 4 – Resonator and Flange Torque.

Figure 4 – Resonator and Flange Torque



NOTE: For better access when torquing the Resonator to Compressor Housing fasteners, a torque wrench adapter can be used. Refer to Figure 5 – Torque Wrench Adapter for an example of the adapter. These are widely available from various tool vendors. It is important to use the torque wrench adapter correctly to ensure the proper torque is measured. The adapter must be installed at 90 degrees to the axis on the torque wrench, otherwise torque value readings will be inaccurate, and a calculation must be performed to accommodate the difference in length.

Figure 5 – Torque Wrench Adapter



4 - Resonator Removal Instructions

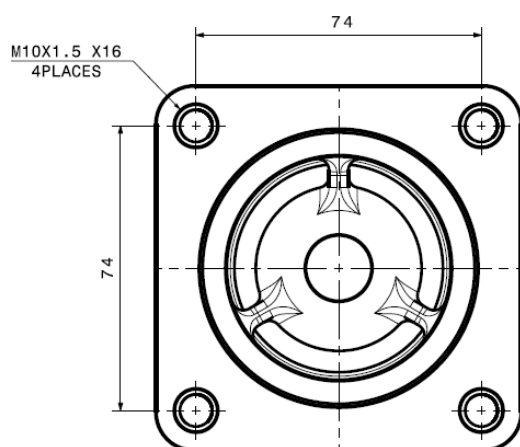
Follow the removal instructions below if removal of a previously installed Resonator is required.

1. Remove the four fasteners that secure the Discharge Flange to the Resonator and discard the O-ring.
2. Remove the four fasteners that secure the Resonator to the compressor housing and discard the O-ring.

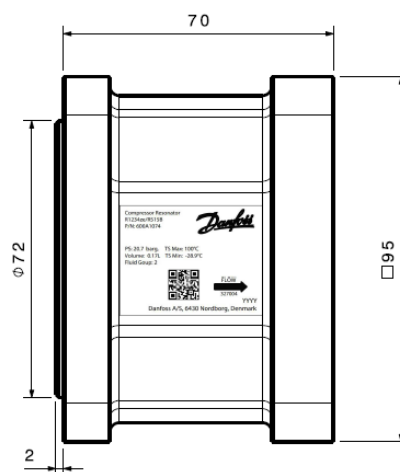
WARNING: Ensure all components have been accounted for, and downstream check valve is clear of any debris in the event of failure, or core separation.

5 - Resonator and Flange Dimensions

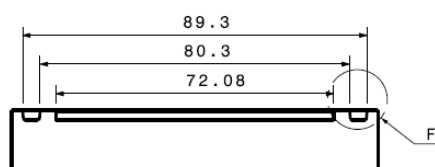
Figure 6 – Resonator Dimensions



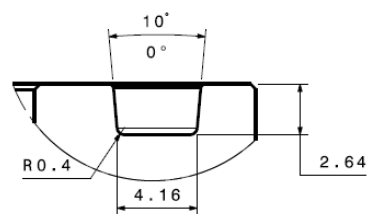
Front view
Scale: 1:1



Right view
Scale: 1:1

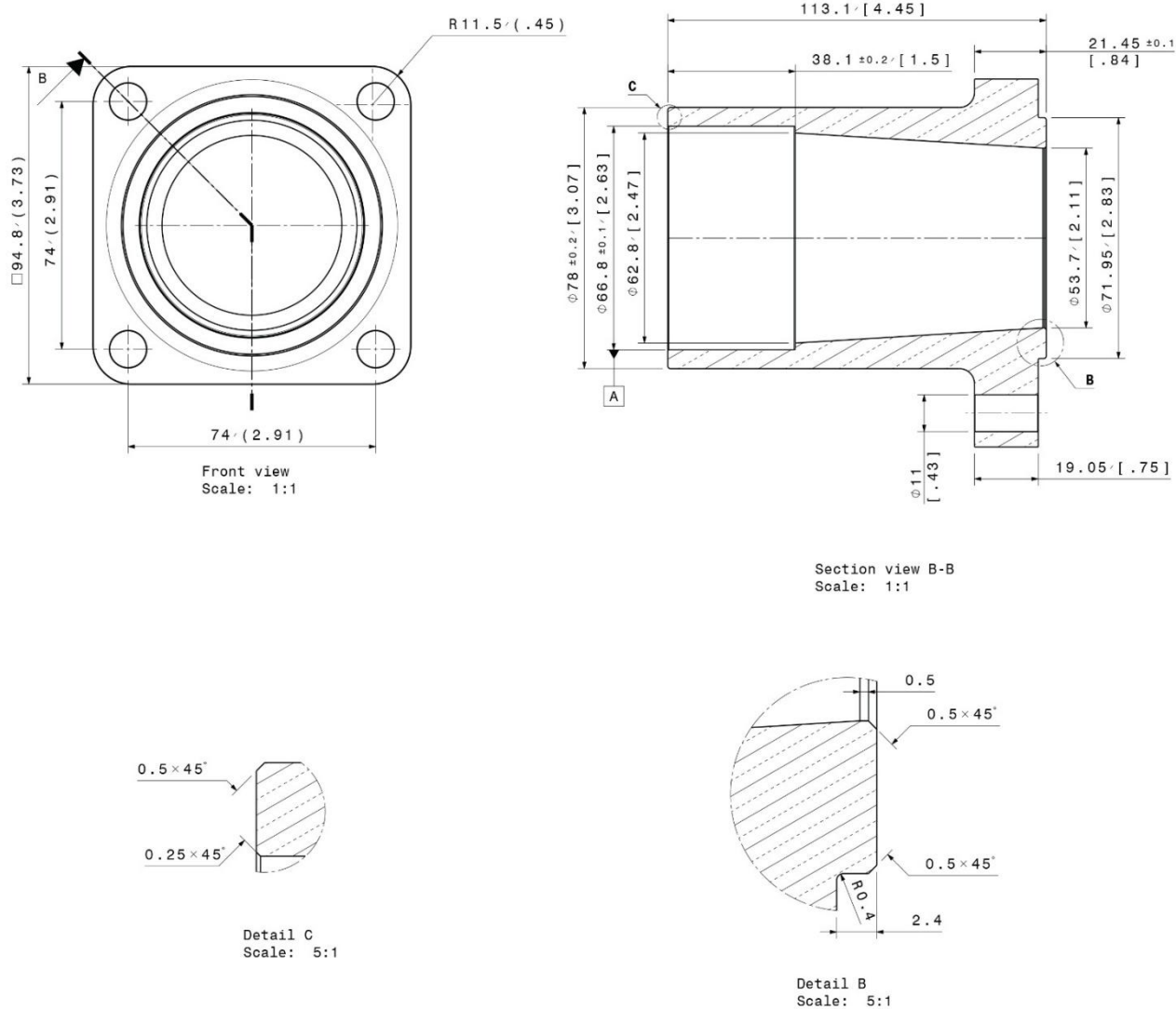


O-Ring Groove
Detail view



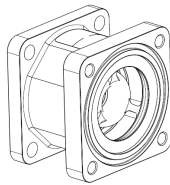
Detail F
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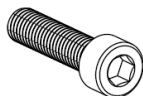
Figure 7 – Flange Dimensions



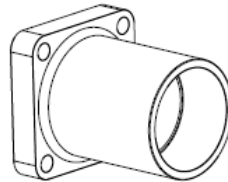
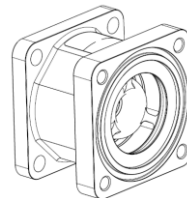
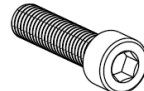
6 - Kit Contents

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

Kit number: 199K0104 – RESONATOR-TGS380 AND INLET-SIDE HARDWARE		
QTY	Part(s) Description	Picture(s)
1	RESONATOR ASSEMBLY – 600A1092	
4	BOLT, M10x30, 12 PT HEAD SS – 600A0564	
2	O-RING – 901853	
1	LUBRICATION-SUPER-O-LUBE-2G	

Kit number: 199K0101 – HARDWARE, RESONATOR, OUTLET-SIDE		
QTY	Part(s) Description	Picture(s)
4	SCREW M10X40 SOCKET HEAD CAP - 902847	
4	WASHER, M10, SPLIT LOCK – 902839	
4	WASHER, M10, FLAT – 902836	
2	O-RING – 901853	
1	LUBRICATION-SUPER-O-LUBE-2G	

Kit number: 199K0103 – HARDWARE, RESONATOR, INLET-SIDE		
QTY	Part(s) Description	Picture(s)
4	BOLT, M10x30, 12 PT HEAD SS – 600A0564	
2	O-RING – 901853	
1	LUBRICATION-SUPER-O-LUBE-2G	

Kit number: 199K0102 – RESONATOR-TGS380 + HARDWARE + DISCH FLNG		
QTY	Part(s) Description	Picture(s)
1	DISCHARGE FLANGE BRASS – 702995	
1	RESONATOR ASSEMBLY – 600A1092	
4	SCREW M10X40 SOCKET HEAD CAP - 902847	
4	BOLT, M10x30, 12 PT HEAD SS – 600A0564	
4	WASHER, M10, SPLIT LOCK – 902839	
4	WASHER, M10, FLAT – 902836	
2	O-RING – 901853	
1	LUBRICATION-SUPER-O-LUBE-2G	

7 - List of Changes

Revision	Date	Description of Change
A	9/9/2026	New

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