

Spare Parts Selection Guide - Revision D.2

Danfoss Turbocor® TT & TG Series Centrifugal Compressors



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Danfoss Turbocor Compressors Inc.
1769 East Paul Dirac Drive Tallahassee,
Florida 32310
USA
Phone 1-850-504-4800
Fax 1-850-575-2126
<http://turbocor.danfoss.com>

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Introduction

Organization

The TT and TG series spare parts manual is organized in a top down manner. Sections include External Components, Top Side, Discharge Side, and Service Side. Spare part kits are differentiated using compressor major revision and part number which can be found on your compressor's name plate. Refer to the product nomenclature below to determine which major revision your compressor falls under. Knowing the major revision, part number, voltage, and electronics type (SIE/FIE) of your compressor are essential to using this document effectively.

PDF Navigation

This document contains PDF hyperlinks for easy navigation. Clicking on items in the table of contents, or any blue hyperlink text will take you to the page it references. Clicking on the header titles of any page will take you back to the section title page. Clicking on section markers in the top left of the page will take you to the table of contents.

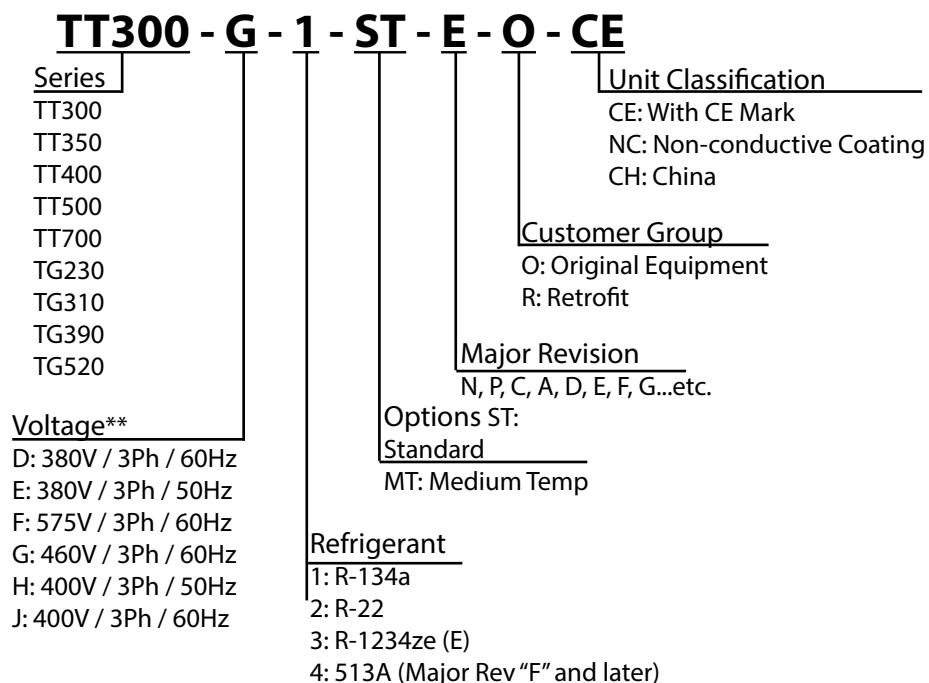
Document Symbols

Some tables contain gray rows, as depicted below. This is used to indicate secondary spare part kits. These kits will not replace the entire assembly, but only a piece, which is detailed in the comment column.

For Example: a kit in the white row contains the entire assembly, while a kit in the gray row only replaces an O-ring in that assembly.

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT- ASSEMBLY	xxxxxx	x	Includes all screws, washers and O-rings required
KIT- O-RING	xxxxxx	x	O-ring only

Current TT and TG Product Nomenclature

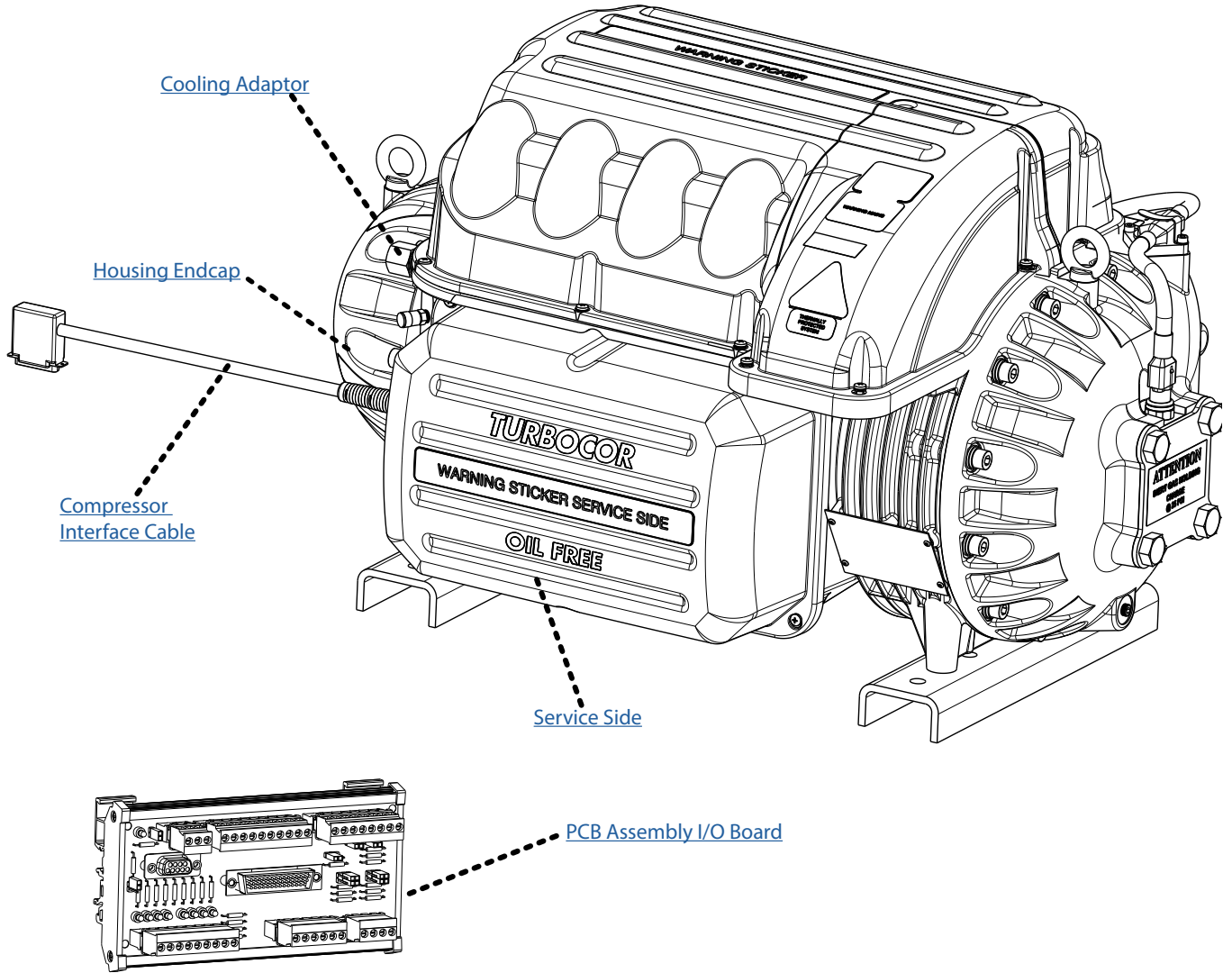


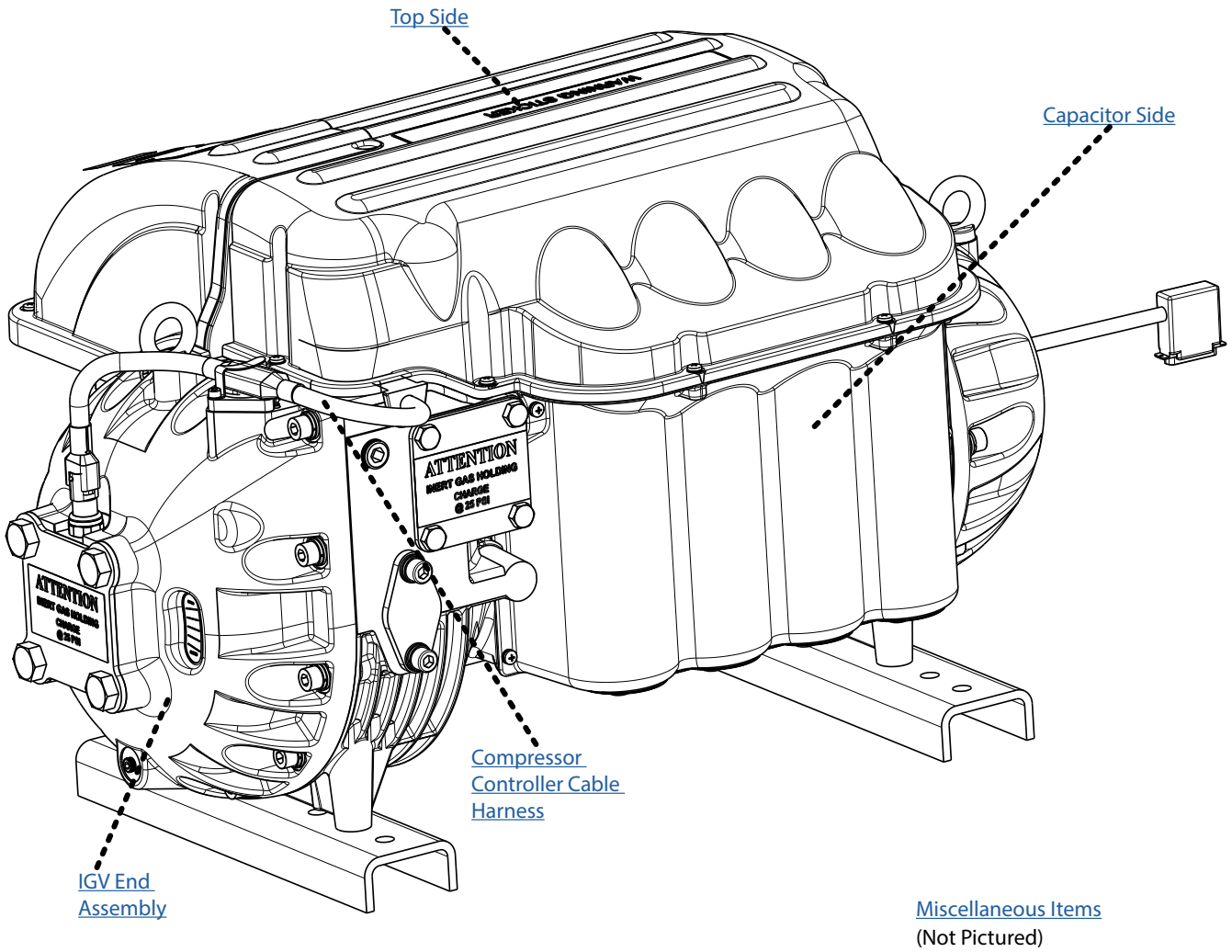
**Some older model compressors have a nomenclature which has a predetermined amp limit such as "G4, G5, ...etc." This guide is still applicable as the amp limit is only related to a software setting

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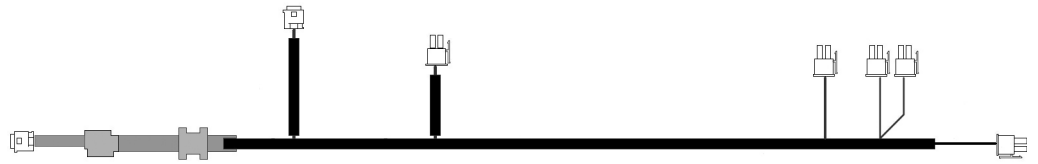
Section 1: External Components

This section details the spare part kits available for components visible on the outside or separate from the compressor.





Compressor Controller Cable Harness



Applies To

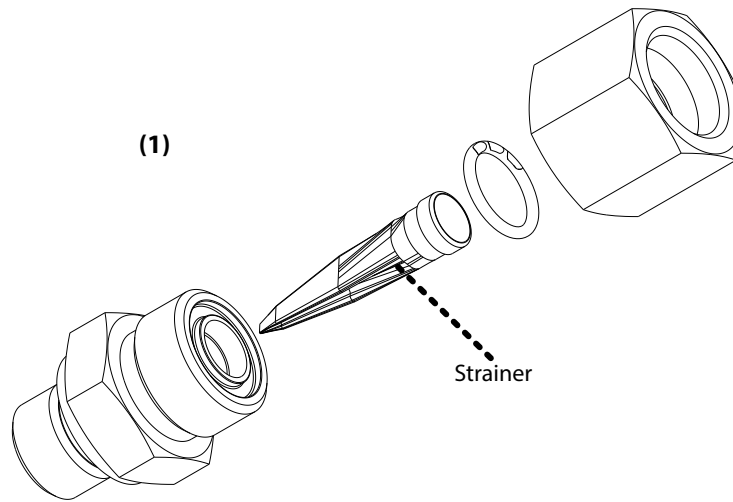
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CABLE HARNESS COM-PRESSOR CONTROLLER	100322	ALL*	Cable Only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Cooling Adaptor



Applies To

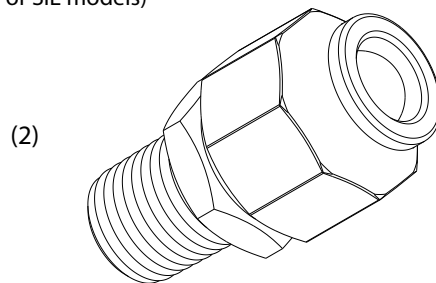
TT300**, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT – COMPRESSOR COOLING ADAPTOR WITH STRAINER	100169-1	ALL*	Use on TT300 if part number ends in "-3". Contains O-rings and strainer
KIT – STRAINER	100186-1	ALL*	Replaces strainer and one O-ring

*For TT300 -E, -F or part number ending with "-3".

(See below for TT300 -N, -P, -C, -D or SIE models)



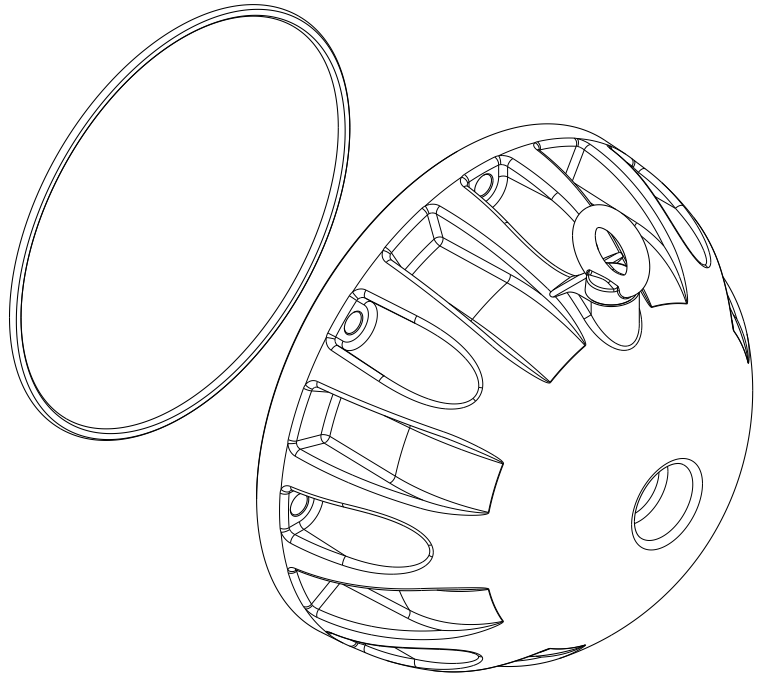
Applies To

TT300

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(2) KIT – COMPRESSOR COOLING STRAINER	100215	-N, -P, -C, -D	Can be used with SIE models, do not use if part number ends in "-3", includes strainer and nut

Housing Endcap



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - END CAP ASSEMBLY	100324-2	ALL	Contains eyebolt and O-ring
KIT - O-RING END CAP ASSY	100352	ALL	Replaces Endcap O-ring

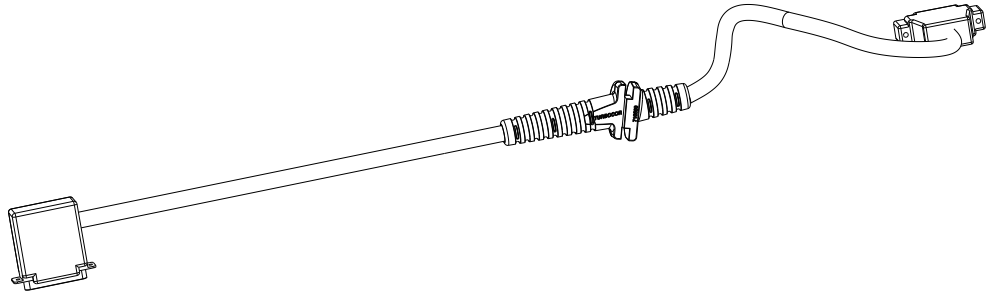
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - END CAP ASSEMBLY	100324	-P	Contains eyebolt
KIT - O-RING - END CAP ASSEMBLY	100052	-P	Replaces O-ring

Compressor Interface Cable



Applies To

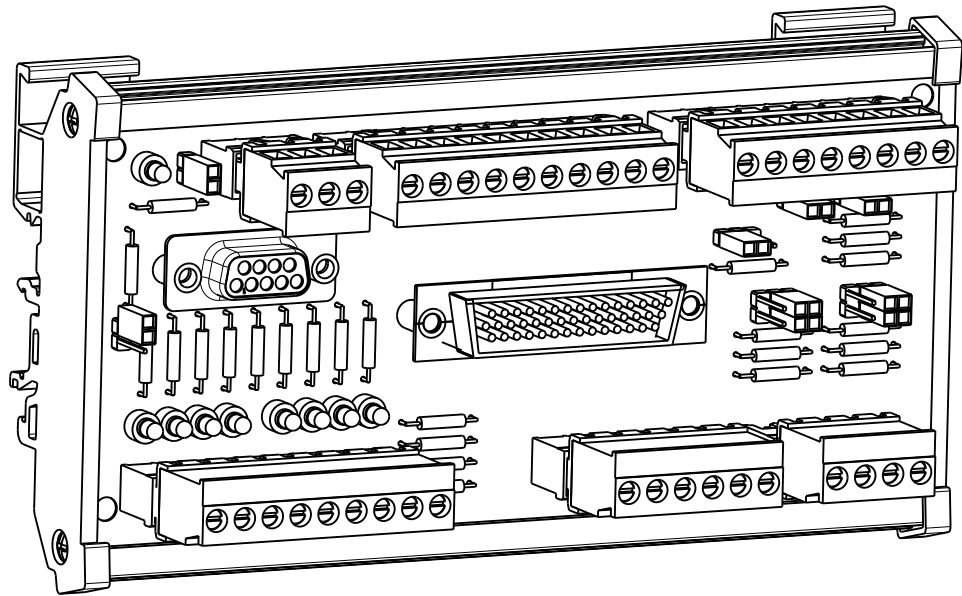
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CABLE COMPRESSOR INTERFACE 5M	100058-1	ALL*	Cable Only
KIT - CABLE COMPRESSOR INTERFACE 10M	100058-4	ALL*	Cable Only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

PCB Assembly I/O Board



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

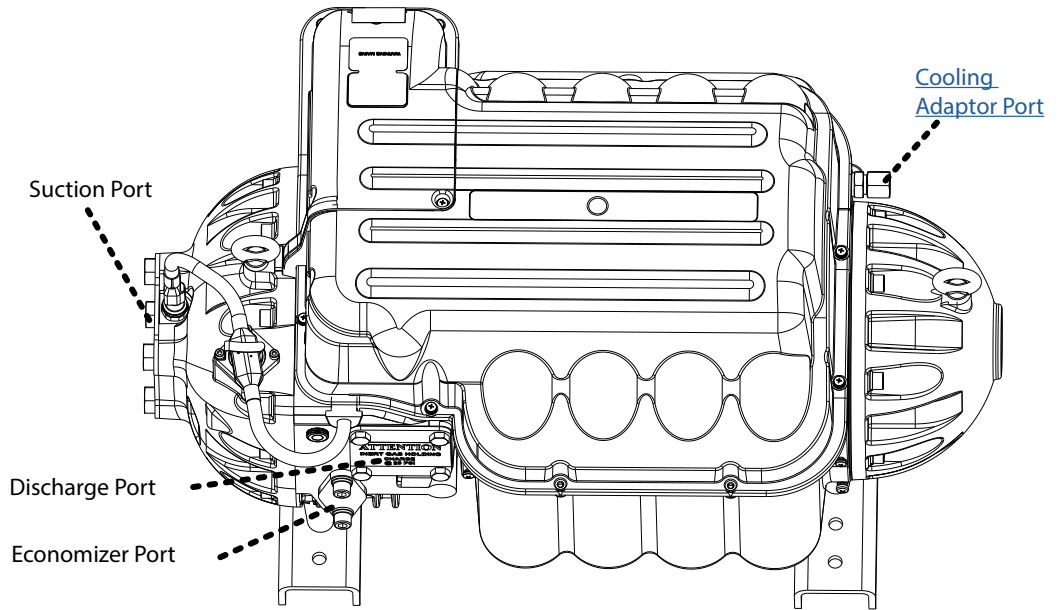
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - PCB ASSY COMPRESSOR I/O	100076-1	ALL*	PCB Only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Miscellaneous Items

Port O-rings



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT- O-RING COOLING PORTS SUCTION, DISCHARGE, ECONOMIZER, MOTOR COOLING	100329	ALL	Includes O-rings for Cooling Adaptor, Suction, Discharge, and Economizer ports
KIT- O-RING SUCTION PORT	100555	ALL	Suction Port O-Ring Only

Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT- O-RING COOLING PORTS SUCTION, DISCHARGE, ECONOMIZER, MOTOR COOLING	100327	-P	Includes O-rings for Cooling Adaptor, Suction, Discharge, and Economizer ports
KIT- O-RING SUCTION PORT	100155	-P	Suction Port O-Ring Only

Miscellaneous Items

Dielectric Grease



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
DIELECTRIC GREASE, 20ML	901982	ALL	20mL Jar of Grease Only

Refrigerant Stickers



Applies To

TT300, TT350, TT400, TT500, TT700

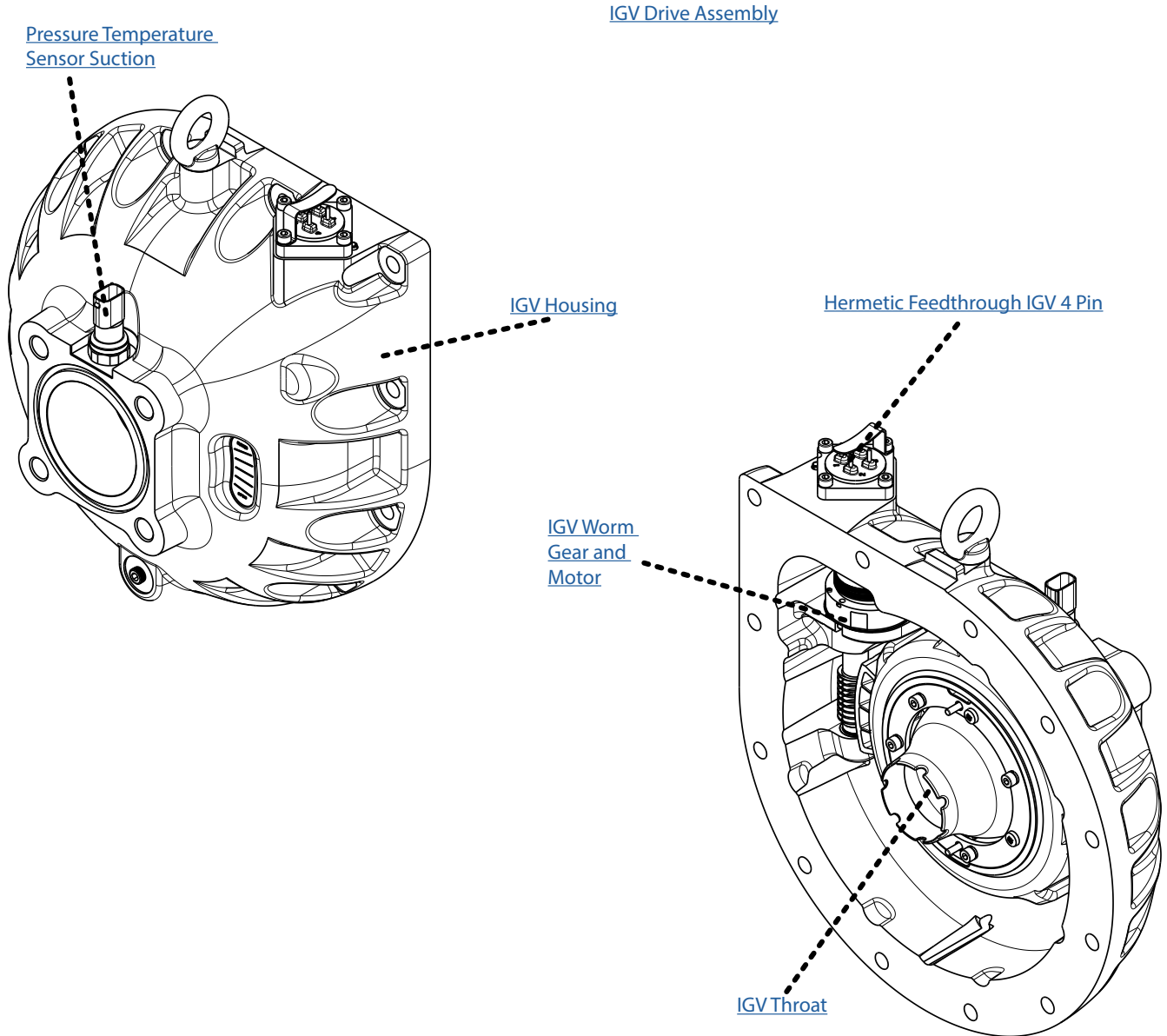
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - REFRIGERANT STICKER 513A	100374	F	10 stickers

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Section 2: IGV End Assembly

The spare part kits available for the IGV Drive assembly are detailed in this section. The IGV Drive Assembly and O-ring kits detailed on the following page replace the entire IGV assembly, including feedthrough, sensor, housing, throat, and motor



IGV Drive Assembly and O-ring

Applies To

TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING - TT300 RETROFIT	100050-3	-P, -C, -D, -E	Use with retrofit models that do NOT contain R22, black IGV throat with thin rim, tall, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING - R22 RETROFIT	100050-5	-P	For use with retrofit models containing R22 only, black IGV throat with thick rim, tall, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT300/TG230	100050-16	-P, -C, -D, -E, -F	Black IGV throat with thin rim, tall, plug

Applies To

TT400, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING -TT400-P	100050-6	-P	Black IGV throat, short, plug
KIT - IGV - DRIVE ASSEMBLY AND O-RING - TT400-P RETROFIT	100050-12	-P	For use with retrofit models, black IGV throat, short, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING - TT400 RETROFIT	100050-13	-C, -E	For use with retrofit models, gold IGV throat, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT400/TG390	100050-17	-C, -E, -F	Gold IGV throat, plug

Applies To

TT350, TG310

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING - TT350 RETROFIT	100050-11	-A, -E	For use with retrofit models, blue IGV throat, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT350/TG310	100050-15	-A, -E, -F	Blue IGV throat, plug

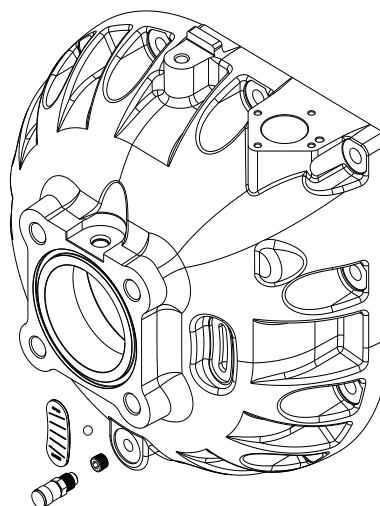
Applies To

TT500, TT700, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV HOUSING ASSEMBLY AND O-RING - TT500 RETROFIT	100050-14	-A, -E	For use with retrofit models, steel IGV throat, valve
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT700/TG520	100050-18	-A, -E, -F	Steel IGV throat plug

IGV Housing



Applies To

TT300, TT350, TT400, TG230, TG310, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV HOUSING	100223	All	Contains: Housing, IGV indicator, plug
KIT - IGV HOUSING	100223-4	All	Retrofit, contains: Housing, IGV indicator, valve

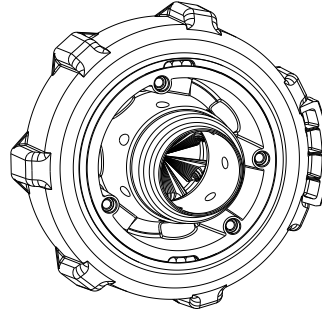
Applies To

TT500, TT700, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV HOUSING TT500/ TT700/TG520	100229	All	Contains: Housing, IGV indicator, plug
KIT - IGV HOUSING TT500/ TT700/TG520	100229-4	All	Retrofit contains: Housing, IGV indicator, valve

IGV Throat



Applies To

TT500, TT700, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT500/ TT700/TG520	100232	-A, -E, -F	Contains IGV throat assembly-steel

Applies To

TT400, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT400P	100230	-P	Contains IGV throat assembly-black, short
KIT - IGV THROAT - TT400/ TG390	100231	-C, -E, -F	Contains IGV throat assembly-gold

Applies To

TT350, TG310

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT350/ TG310	100228	-A, -E, -F	Contains IGV throat assembly-blue

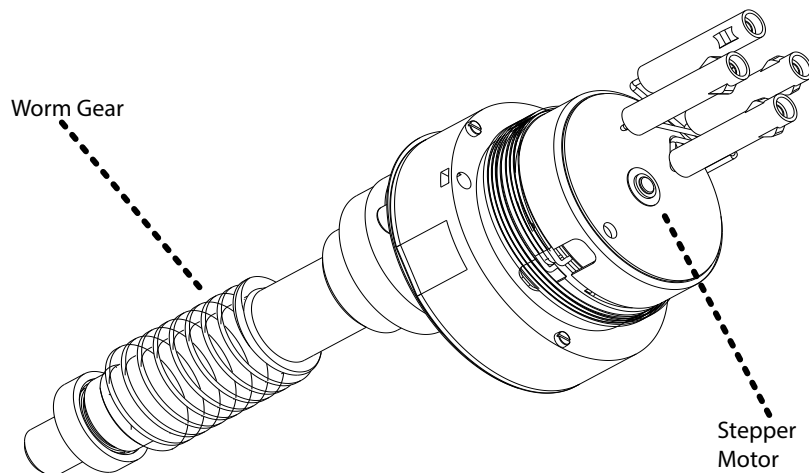
Applies To

TT300

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT300 (R22)	100225	-P	For use with R22 contains IGV throat assembly-black, thick rim
KIT - IGV THROAT - TT300 (SIE, -N, -P-6%)	100226	-N	For use with SIE models, contains IGV throat assembly-beige plastic
KIT - IGV THROAT - TT300/ TG230	100227	-P, -C, -D, -E, -F	Do NOT use with R22 contains IGV throat assembly-black, thin rim

IGV Worm Gear and Motor



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV WORM GEAR SHAFT REPAIR	100222	ALL	Contains Worm Gear, Stepper Motor, Bearings, Collars and Clips
KIT - EXTRACTOR WORM GEAR	100246	ALL	Worm Gear Extractor tool only

Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV MOTOR SERVICE	100035-1	ALL	Includes motor and O-rings
KIT - O-RING IGV ASSEMBLY	100051-1	ALL	Replaces O-rings in IGV, IGV motor, and suction port

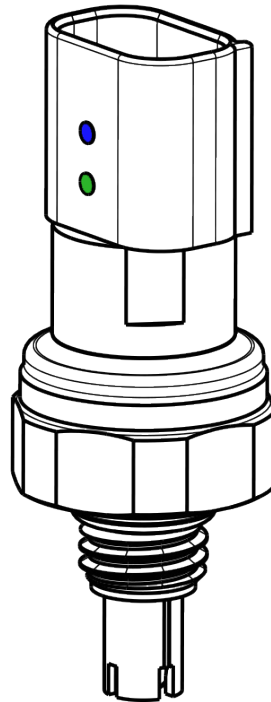
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV MOTOR SERVICE	100035	-P	Includes motor and O-rings
KIT - O-RING - IGV ASSEMBLY	100051	-P	Replaces O-rings in IGV, IGV motor, and suction port

Pressure Temperature Sensor Suction



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – SENSOR PRESSURE/ TEMPERATURE LOW SIDE	100036-1	ALL	Marked with a blue spot and a green spot, contains O-ring

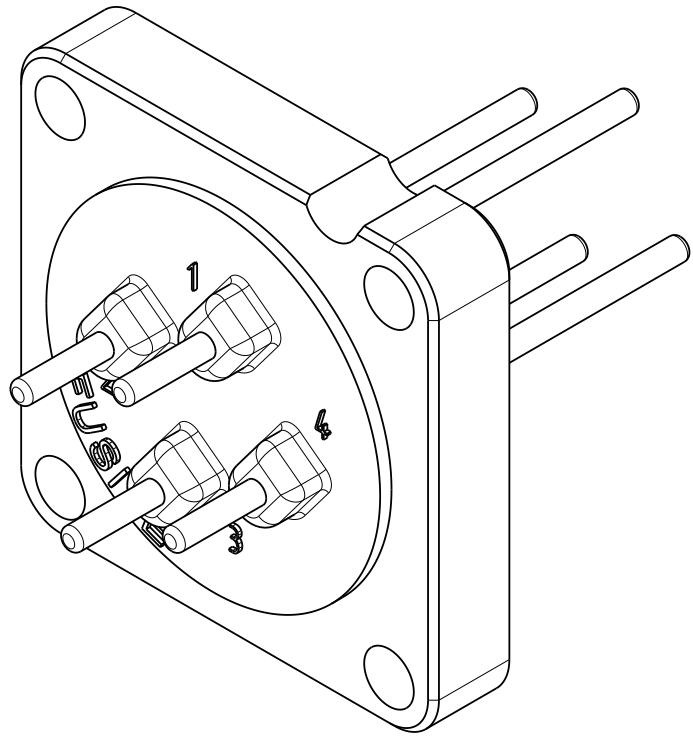
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - SENSOR PRESSURE/ TEMPERATURE SUCTION	100036	-P	Marked with a blue spot, contains O-ring

Hermetic Feedthrough IGV 4 Pin



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT- HERMETIC FEEDTHROUGH IGV 4PIN	100321-1	ALL	Includes O-ring and clamp

Applies To

TT300 (R22)

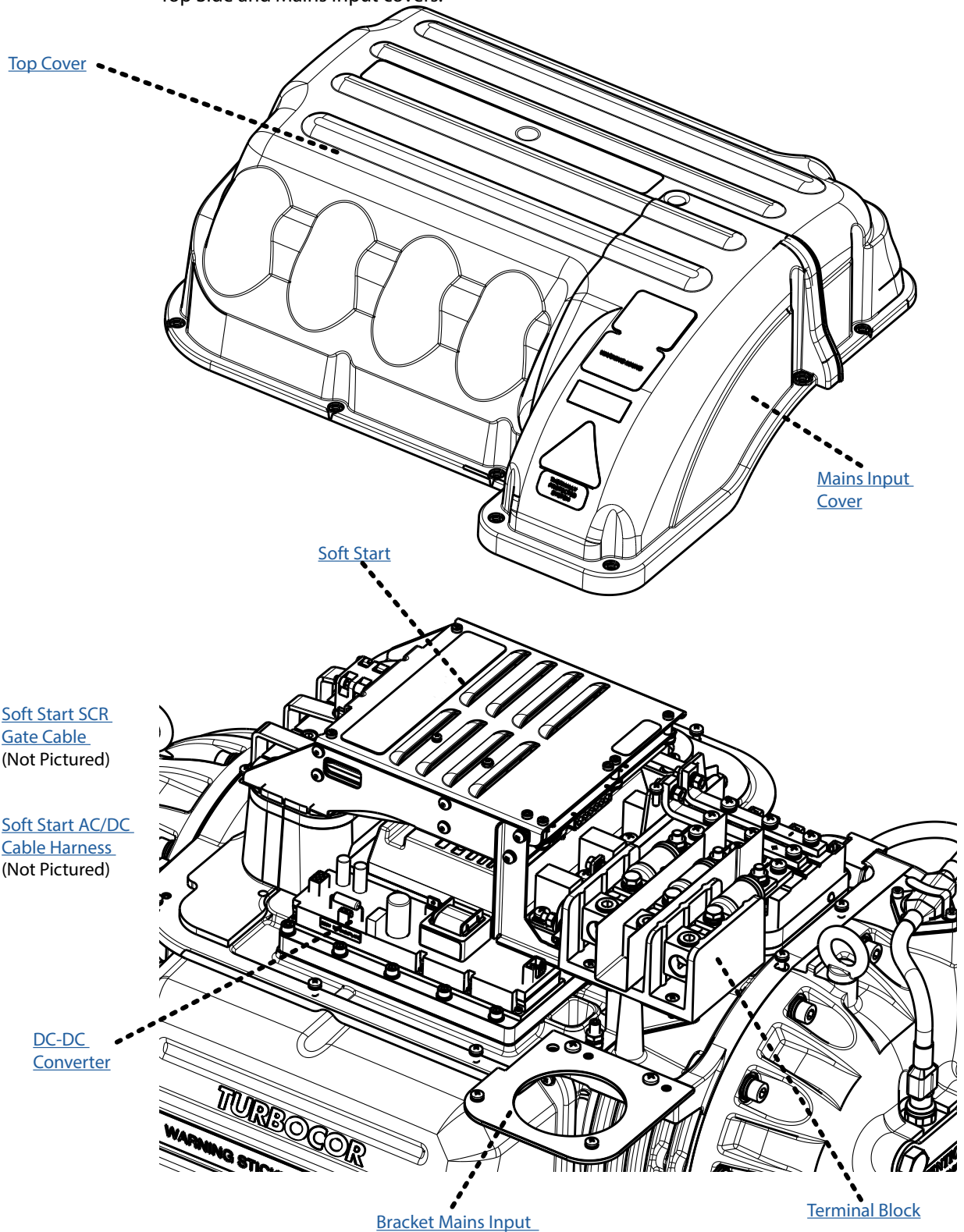
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - HERMETIC FEED-THROUGH IGV 4 PIN	100321	-P	Includes O-ring and clamp

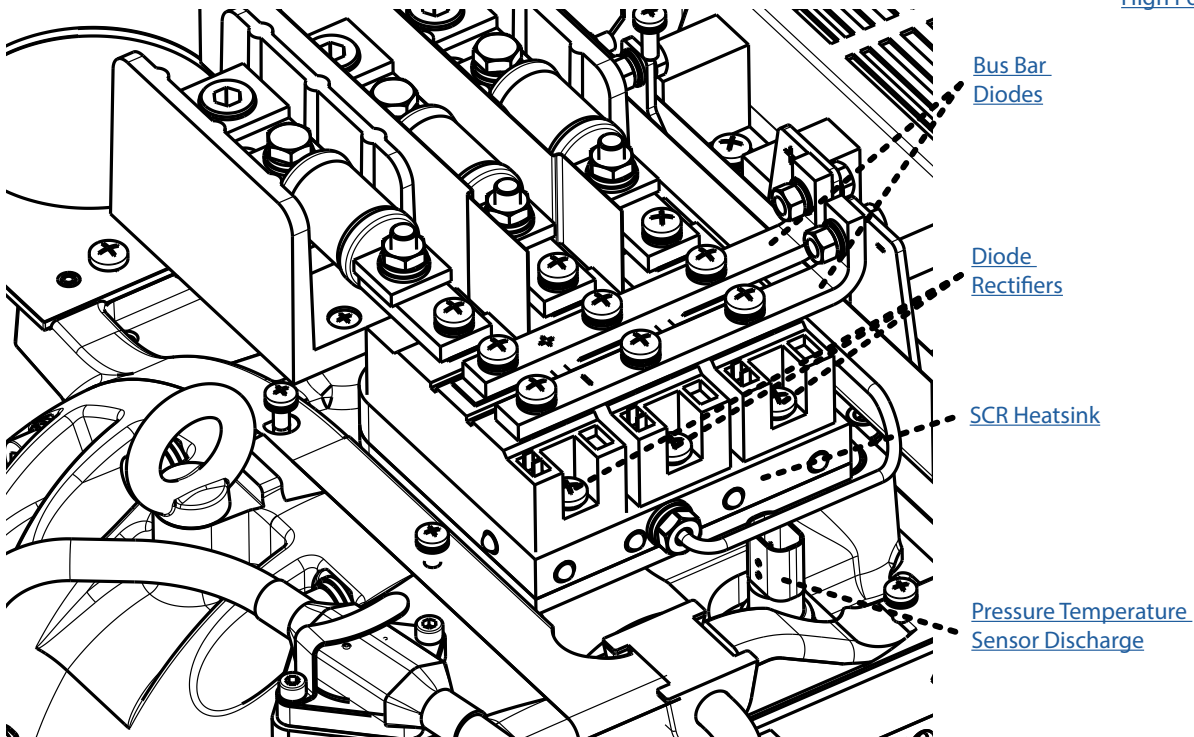
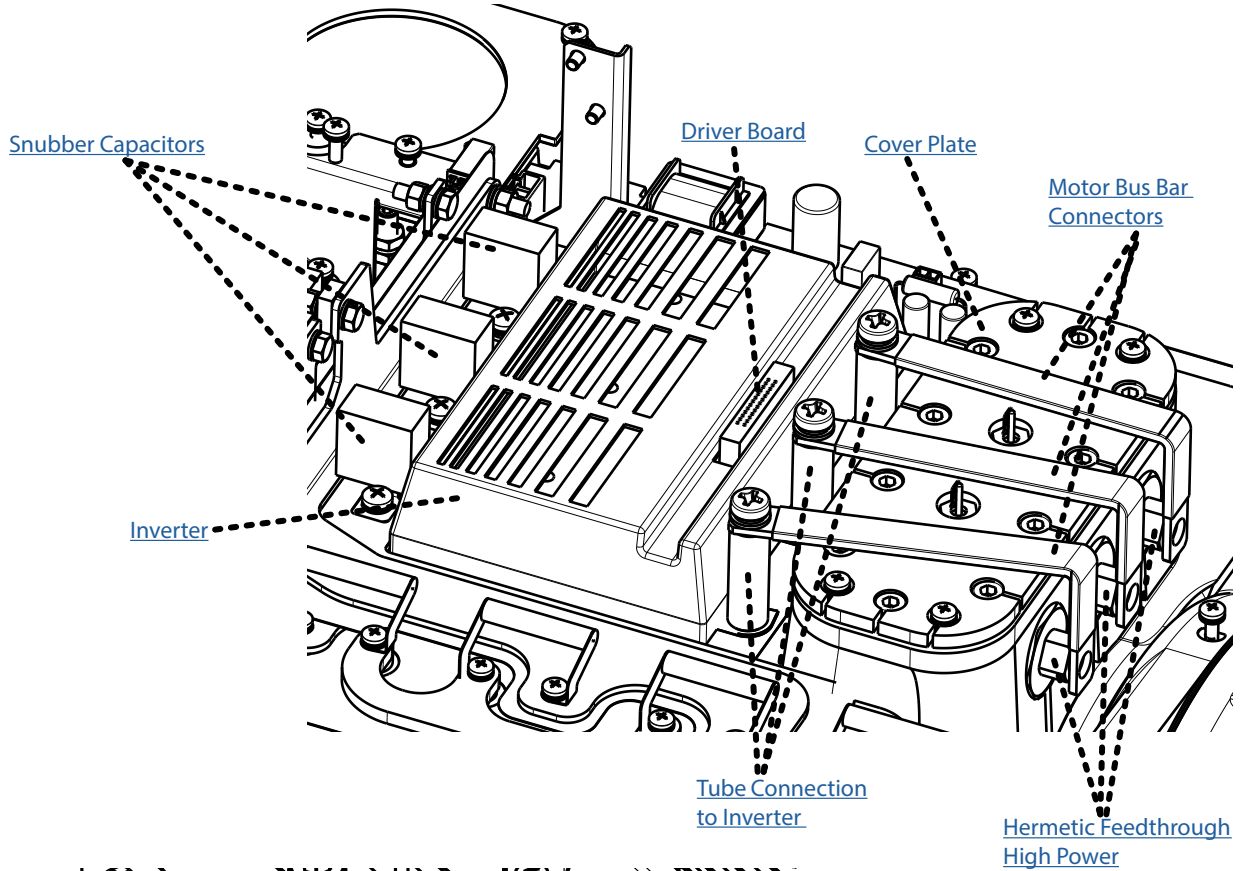
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Section 3: Top Side

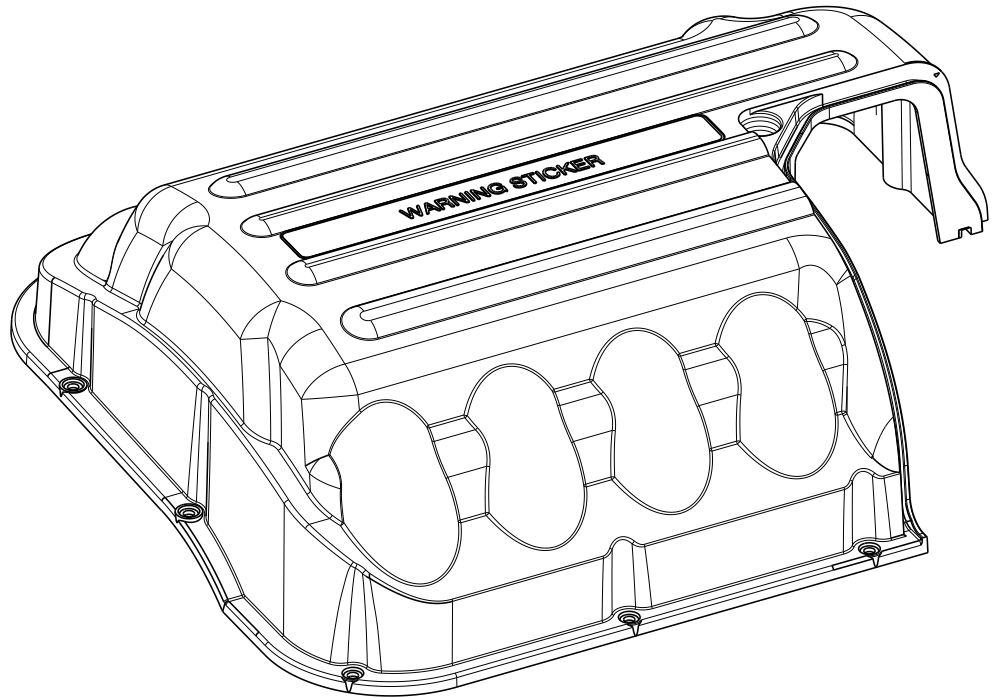
This section details some of the spare part kits available for components underneath the Top Side and Mains Input covers.



Section 3: Top Side Cont.



Top Cover



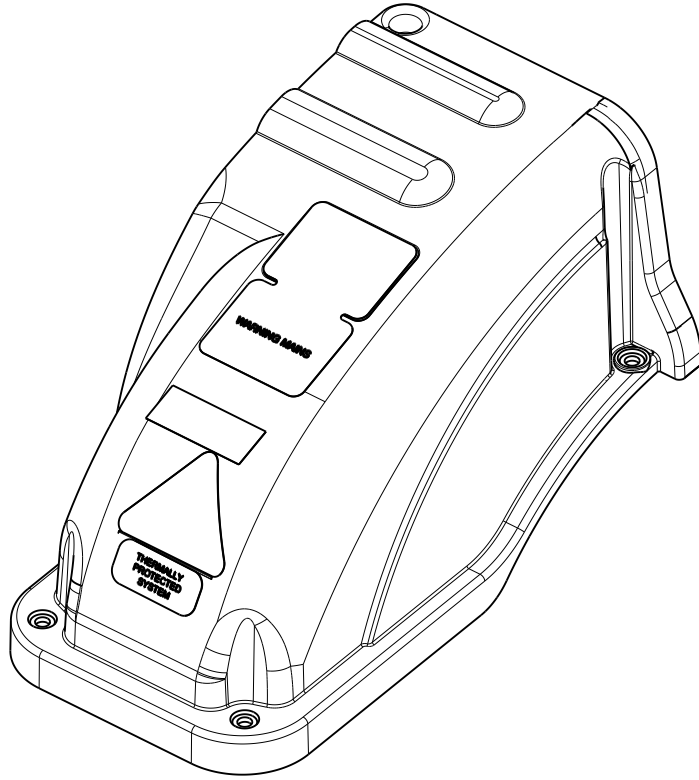
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER TOP ASSY (BLACK) EN/FR Labels	100054-3	ALL TT MODELS	Includes screws
KIT - COVER TOP ASSY (GREEN) EN/FR Labels	100054-6	ALL TG MODELS	Includes screws
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces screws for all four covers

Mains Input Cover



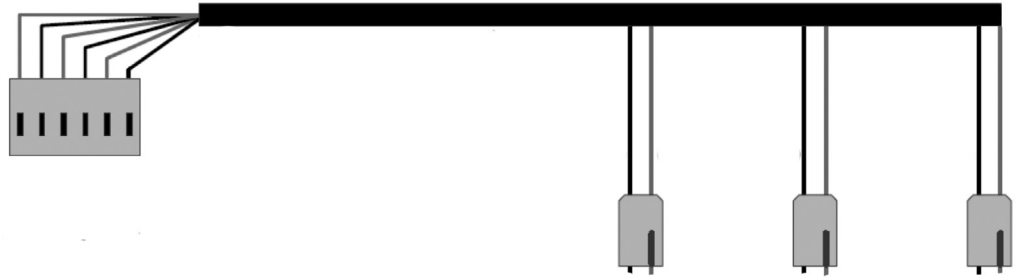
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER MAINS INPUT ASSY (BLACK) EN/FR Labels	100056-3	ALL TT MODELS	Includes screws
KIT - COVER MAINS INPUT ASSY (GREEN) EN/FR Labels	100056-6	ALL TG MODELS	Includes screws
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces screws for all four covers

Soft Start SCR Gate Cable



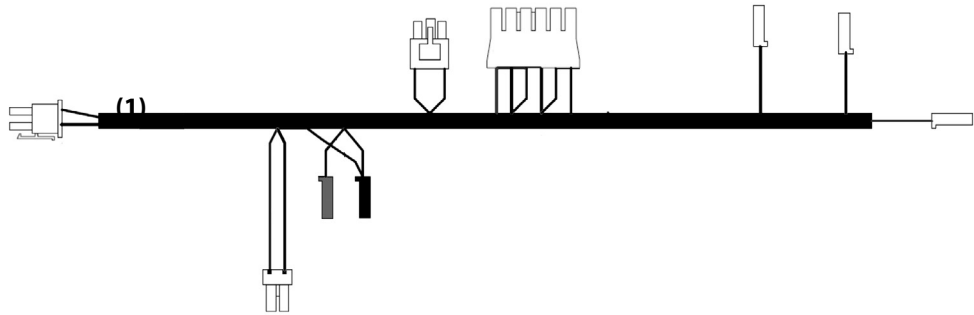
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CABLE HARNESS SOFT START SCR GATE	100059	ALL	Cable Only

Cable Harness Soft Start AC/DC



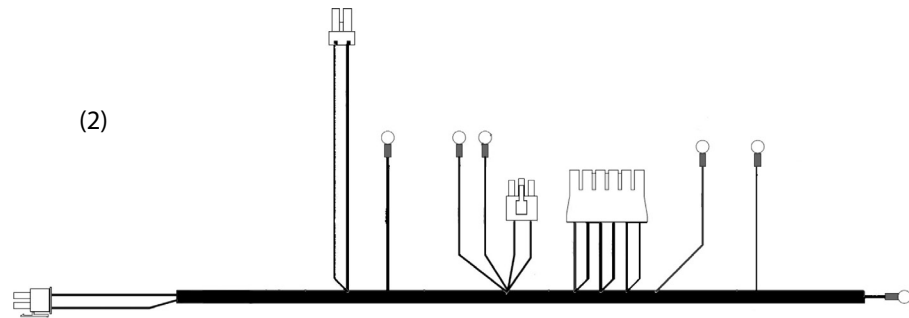
Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT-CABLE HARNESS SOFT START AC/DC	100062-3	-P*, -A, -C, -E, -F	Cable Only**

**Some compressor models –P and earlier manufactured without ASIC soft starts and require replacement of both the cable harness and the [softstart board](#). For more information on these, please contact Danfoss Turbocor Product Support.



Applies To

TT300**, TG230

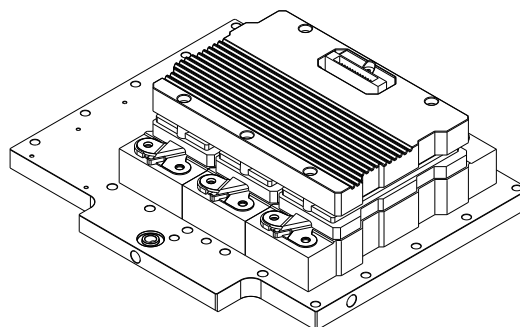
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(2) KIT-CABLE HARNESS SOFT START AC/DC	100062-4	-N, -P*, -C, -D, -E, -F	Cable Only

*Some compressor models –P and earlier manufactured without ASIC soft starts and require replacement of both the cable harness and the [softstart board](#). For more information on these, please contact Danfoss Turbocor Product Support.

**Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Inverter



Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER ASSY 613	100043-11	-P, -A, -C, -E, -F	Includes screws, washers, and O-rings
KIT- O-RING INVERTER ASSY	100310-1	ALL	Replaces Inverter O-rings, includes screws

Applies To

TT300 (R134a)**, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – 24kHz INVERTER ASSY	100043-14*	-N, -P, -C	Includes screws, washers and O-rings
KIT – INVERTER ASSY CONVERSION 342 TO 613 SERIES	100521*	-D, -E, -F	Includes motor bus bars, manifold insulator, screws, washers, and O-rings
KIT – INVERTER ASSY 613	100043-13*	-G	Includes screws, washers and O-rings
KIT- O-RING INVERTER ASSY	100310-2	ALL	Replaces Inverter O-rings, includes screws

*Refer to Customer Notification (B-CN-079-EN)

NOTE: For compressors containing Semi-Integrated Electronics (SIE), see the [SIE – FIE Conversion Kit](#).

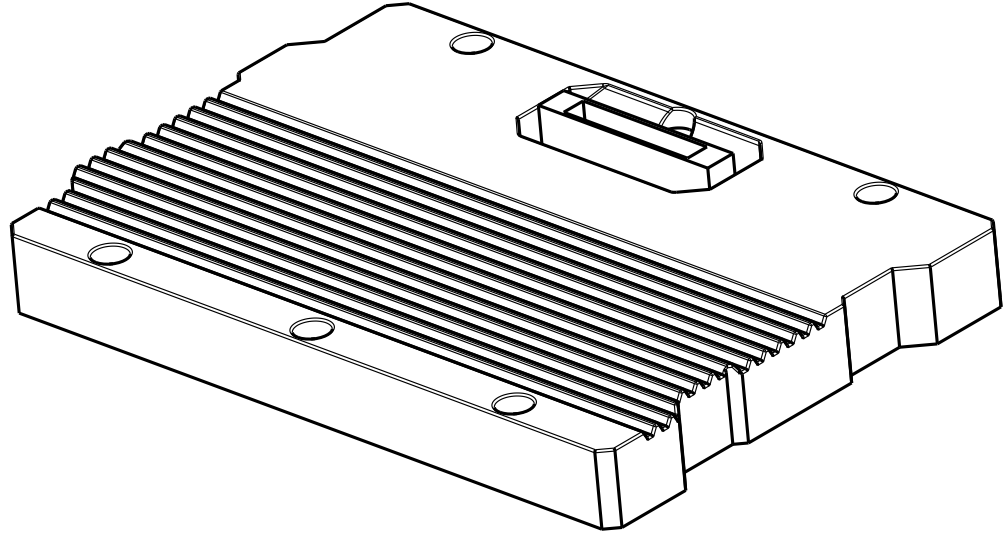
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – IGBT MANIFOLD COOLING TT300 R22 SPLIT COOLING	100043-7	-P	Includes screws, washers, and O-rings Split Cooling only
KIT - IGBT MANIFOLD COOLING	100043-3	-P	Includes screws, washers, and O-rings
KIT - O-RING - IGBT ASSEMBLY	100310	-P	Replaces inverter O-rings, includes screws

Driver Board



Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGBT 613 DRIVER BOARD	100518	-P, -A, -C, -E, -F	Includes mounting screws and spring pins

Applies To

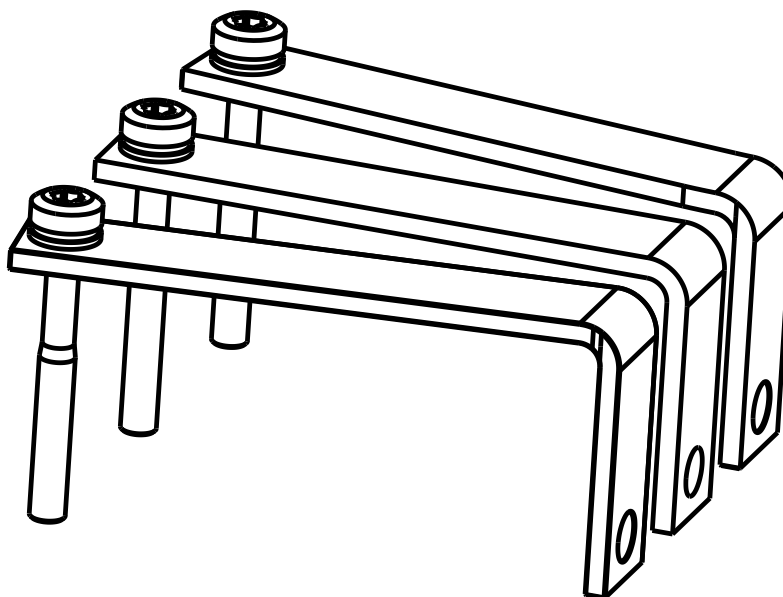
TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER CONTROL CARD SKIIP 613 , TT300/TG230	100518-1*	-G	Includes mounting screws and spring pins

*Refer to Customer Notification (B-CN-079-EN) - This kit is for TT300/TG230 Rev. G and later compressors or when Conversion Kit (100521) has already been applied

Motor Bus Bar Assembly Connectors



Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313-1	-P, -A, -C, -E, -F	Includes three Bus Connection washers and screws

Applies To

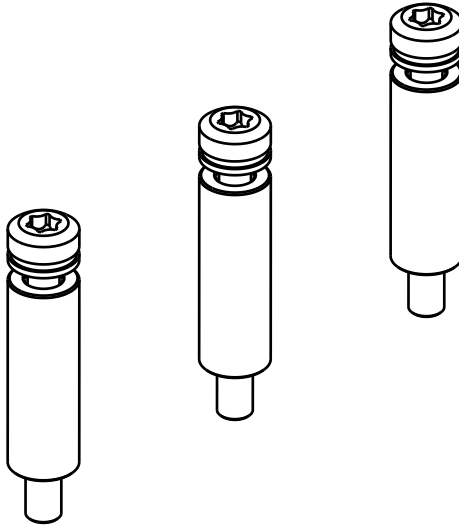
TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313	-N, -P, -C, -D, -E, -F	Includes three Bus Connection washers and screws
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313-1*	-G	Includes three Bus Connection washers and screws

*Refer to Customer Notification (B-CN-079-EN) - This kit is for TT300/TG230 Rev. G and later compressors or when Conversion Kit (100521) has already been applied

Tube Connection to Inverter



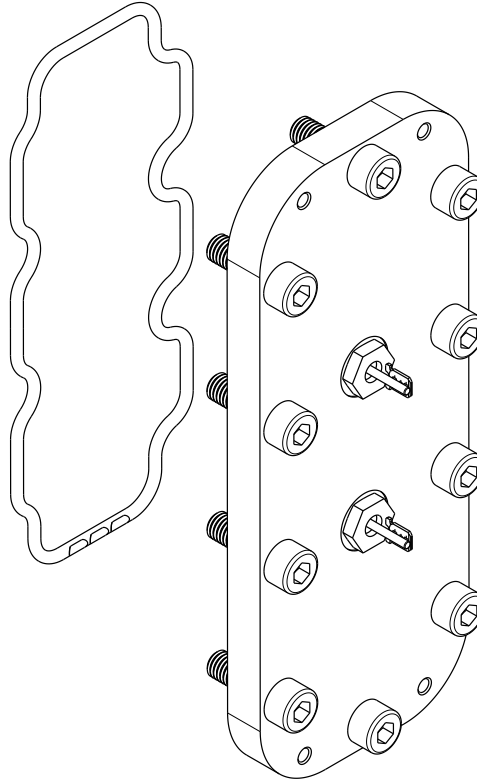
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - TUBE CONNECTION TO INVERTER	100311	ALL	Includes three tubes, screws, and washers

Cover Plate Assembly



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER PLATE ASSEMBLY	100314-2	ALL	Includes O-rings and screws
KIT- O-RING TOP PLATE ASSY	100315-1	ALL	Custom O-ring Only (shown)

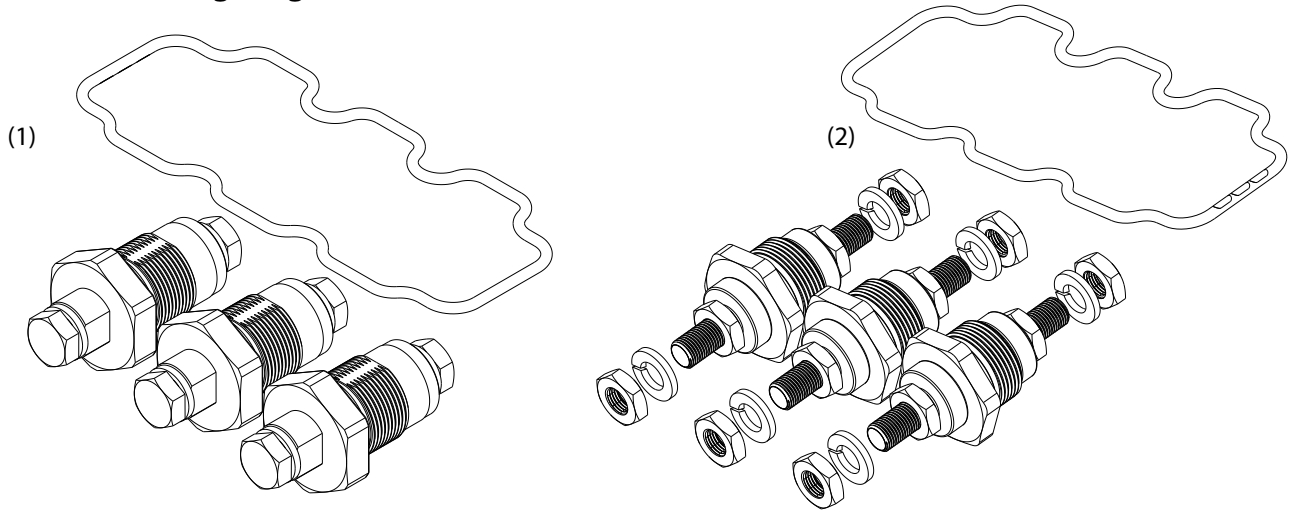
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER PLATE ASSEMBLY	100314	-P	Includes O-rings and screws
KIT - O-RING - COVER PLATE ASSEMBLY	100315	-P	Includes custom O-ring (shown)

Hermetic Feedthrough High Power



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC FEEDTHROUGH HIGH POWER EPDM	100312-1 *	ALL	Includes three high power feedthroughs, washers, O-ring, and fasteners
(2) KIT - HERMETIC FEEDTHROUGH HIGH POWER EPDM (Stainless Steel)	100383	ALL	Includes three high power feedthroughs, nuts, washers, O-ring, and fasteners
KIT - O-RING TOP PLATE ASSY	100315-1	ALL	Custom O-ring Only (shown)

* Set to be obsoleted November 2018 - use kit 100383 as a direct replacement

Applies To

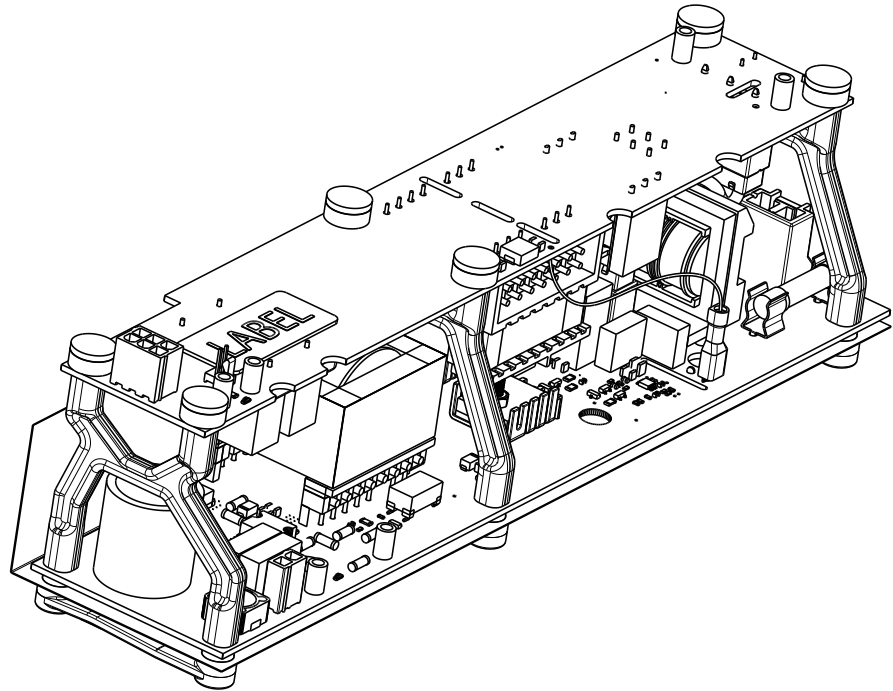
TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC FEEDTHROUGH HIGH POWER NEOPRENE	100312 *	-P	Includes three high power feedthroughs, washers, O-ring, and fasteners
(2) KIT - HERMETIC FEEDTHROUGH HIGH POWER NEOPRENE (Stainless Steel)	100383-1	-P	Includes three high power feedthroughs, nuts, washers, O-ring, and fasteners
KIT - O-RING - COVER PLATE ASSEMBLY	100315	-P	Includes custom O-ring (shown)

* Set to be obsoleted November 2018 - use kit 100383-1 as a direct replacement

DC-DC Converter



Applies To

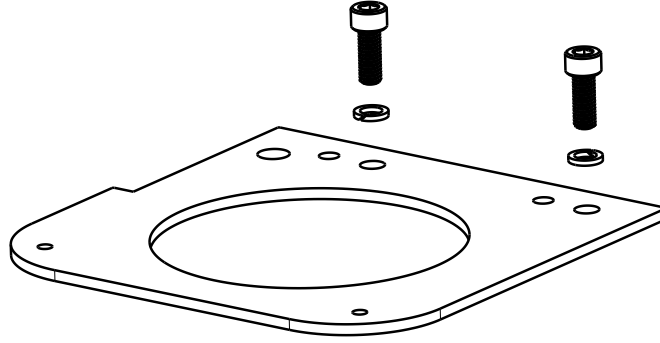
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - DC-DC CONVERTER ASSEMBLY	100379	ALL*	Includes fasteners

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Bracket Mains Input and Grounding Stud



Applies To

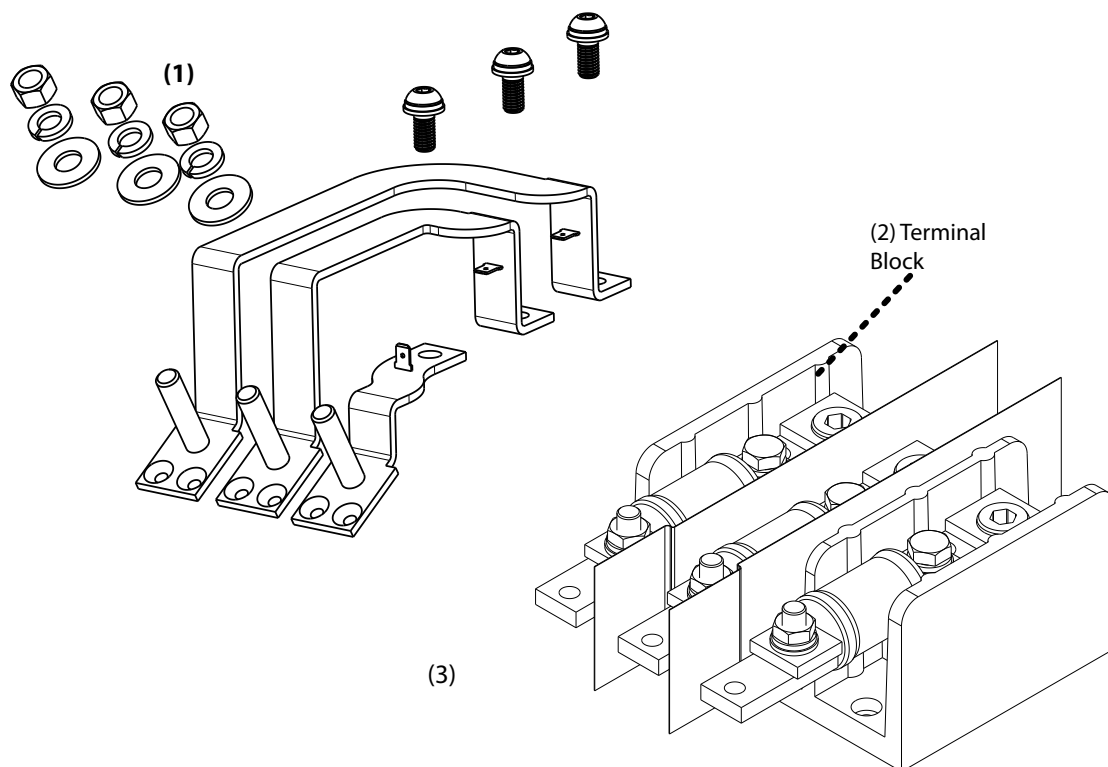
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – BRACKET MAINS INPUT PLATE 2.0" DIAMETER	100216	ALL	Includes screws and washers
KIT – BRACKET MAINS INPUT PLATE 2.5" DIAMETER	100217	ALL	Includes screws and washers
KIT – BRACKET MAINS INPUT PLATE 3.0" DIAMETER	100218	ALL	Includes screws and washers
KIT – BRACKET MAINS INPUT PLATE 3.5" DIAMETER	100219	ALL	Includes screws and washers
KIT – MAIN INPUT GROUND POST	100519 *	ALL	Includes washer and nuts

* Not pictured

Terminal Block Assembly



Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - INPUT MAINS BUS BARS	100416	-P, -A, -C, -E, -F	Includes three Bus Bars, screws, washers and nuts
(2) KIT - TERMINAL POWER BLOCK ASSY	100048-1	-P, -A, -C, -E, -F	Replaces Terminal Block, screws and spacers

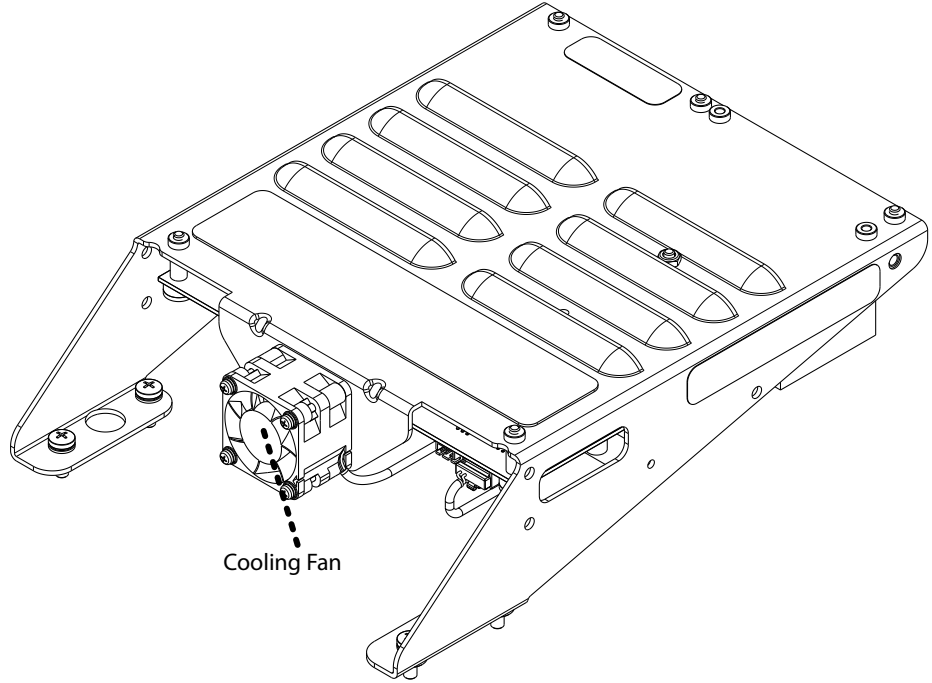
Applies To

TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(3) KIT - TERMINAL BLOCK MAINS AND FUSE ASSEMBLY	100048-2	-N, -P, -C, -D, -E, -F	Replaces Terminal Block assembly, includes fuses, insulator, fuse extension, screws, washers, nuts, and connectors.
KIT - FUSE CLASS T-FAST ACTING A6T 175	100344	-N, -P, -C, -D, -E, -F	Replaces the three fuses in the terminal block assembly

Soft Start Assembly



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - MODULE SOFT START (460V)	100020-1	ALL 460V MODELS*	Except "-P"**, contains washers and screws
KIT - MODULE - SOFT START (575V)	100020-2	ALL 575V MODELS	Includes washers and screws
KIT - MODULE SOFT START (400V)	100020-3	ALL 400V MODELS*	Except "-P"**, contains washers and screws
KIT - MODULE SOFT START (380V)	100020-4	ALL 380V MODELS	Except "-P"**, contains washers and screws
KIT - COOLING FAN AND ADAPTOR ASSEMBLY	100373	ALL	Includes adaptor, washers and screws
KIT - HARMONIC RESISTOR PLUG	100375	ALL	Includes plug

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

**Some compressor models –P and earlier manufactured without ASIC Soft Starts require replacement of both cable harnesses with part number [100062-4](#) and the Soft Start Board. For more information on these, please contact Danfoss Turbocor Product Support.

Soft Start Fuses

Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - FUSES (FIE) SOFT START	100317-1	ALL FIE MODELS	Fuses included: 2A HVA (F1), 2A SPF (F1), 1A Nano (F3, F6), 0.25A Nano (F2), and 0.25A Midget (F4, F5)
KIT – FUSES (FIE) SOFT START	100317-2	-F	Fuses included: 2A SPF (F1), 1A Nano (F3, F6), Nano 0.25A (F2), and 0.25A Midget (F4, F5)
KIT-FUSE 2A 1000V HVA 3" (F1)	100421	-N, -P, -A, -C, -D, -E	For Soft Starts rev P and earlier, includes three fuses
KIT – FUSE 2A FAST ACTING 1000V SPF (F1)	100422	-F	For Soft Starts rev Q and later, includes three fuses
KIT- FUSE FAST ACTING NANO SMF 0.25A 125V (FIE) (F2)	100430	ALL FIE MODELS	Includes 10 fuses
KIT- FUSE SMF 0.25A 600V MIDGET TIME-DELAY CC (FIE)	100432	ALL FIE MODELS	Includes six fuses
KIT - FUSE NANO SMF 1A 125V (FIE) (F3, F6)	100433	ALL FIE MODELS	Includes 10 fuses

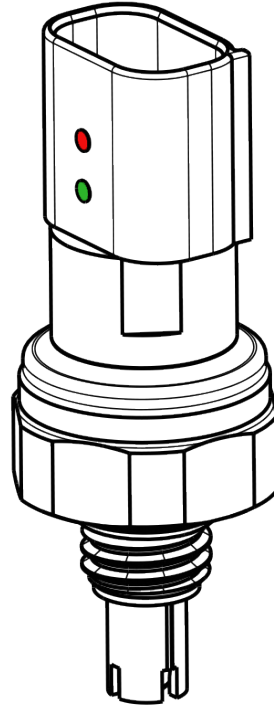
Applies To

TT300

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – FUSE 4 AMP (SIE) (TT300) (F1)	100420	-N, -P	For use with SIE models only, includes three fuses

Pressure Temperature Sensor Discharge



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – SENSOR PRESSURE/ TEMPERATURE HIGH SIDE	100037-1	ALL	Marked with a red spot and a green spot, contains O-ring

Applies To

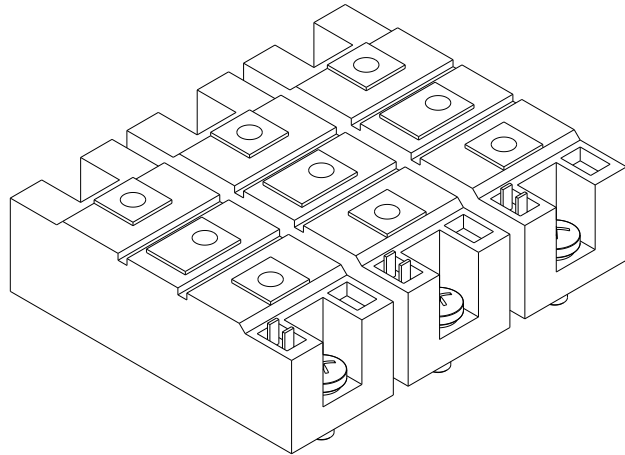
TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - SENSOR PRESSURE/ TEMPERATURE DISCHARGE	100037	-P	For use with R22 only, marked with a red spot, contains O-ring

Diode Rectifiers

(1)



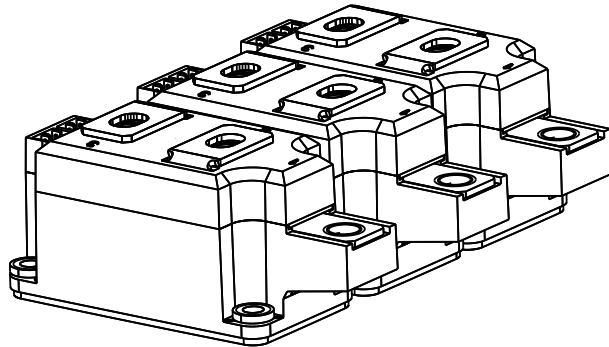
Applies To

TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - DIODE RECTIFIERS	100047-1	-N, -P, -C, -D, -E, -F	Includes screws and washers

(2)



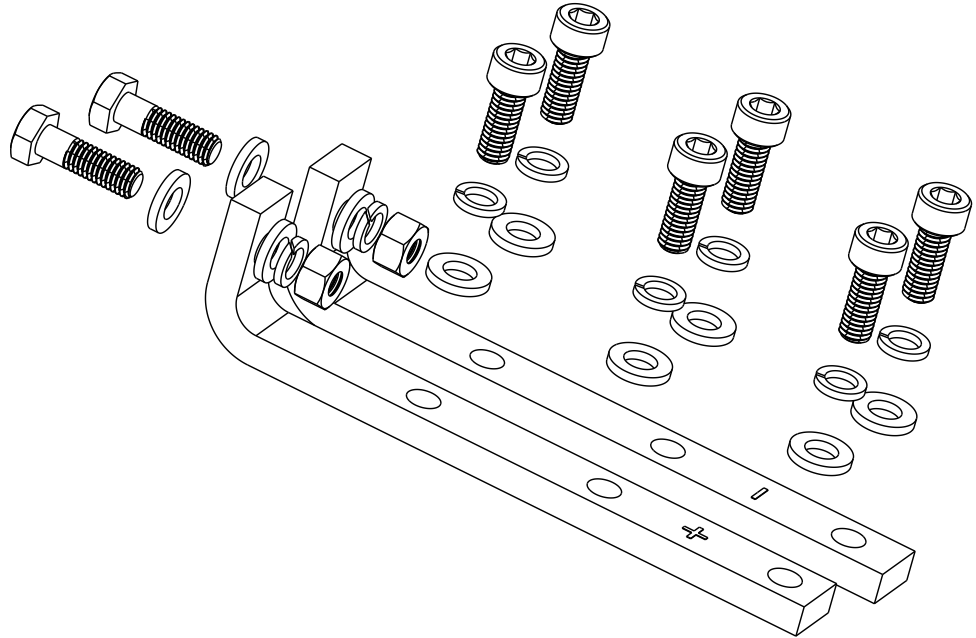
Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(2) KIT - DIODE RECTIFIERS	100047-2	-P, -A, -C, -E, -F	Includes screws and washers

Bus Bar Diodes



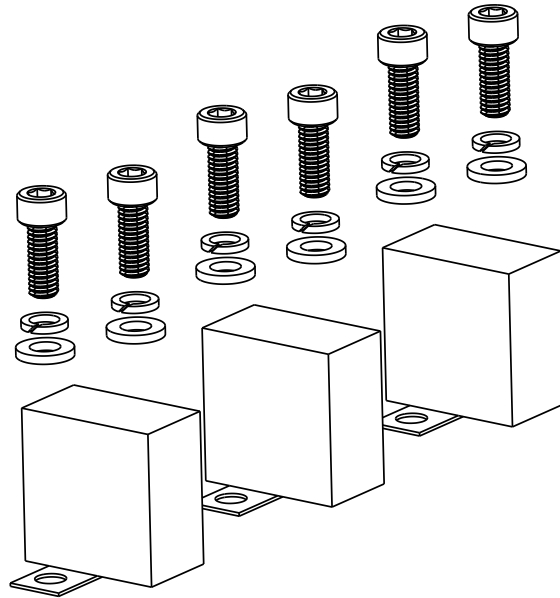
Applies To

TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS BAR DIODE	100316	ALL	Includes positive and negative Bus Bars, screws, nuts and washers

Snubber Capacitors



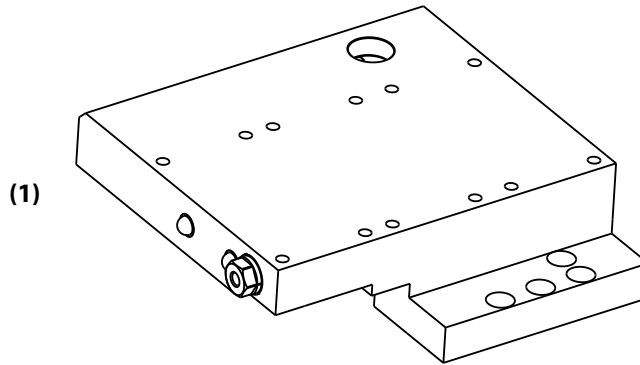
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – CAPACITOR INVERTER SNUBBER, 0.47Y1000 ALL MODELS	100417	ALL	Includes three snubbers, screws and washers

SCR Heatsink Assembly



Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-5	-P, -A, -C, -E, -F	Includes screws and O-rings

Applies To

TT300 (R134a), TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-6	-N, -P, -C, -D, -E, -F	Includes screws and O-rings

(2)



Applies To

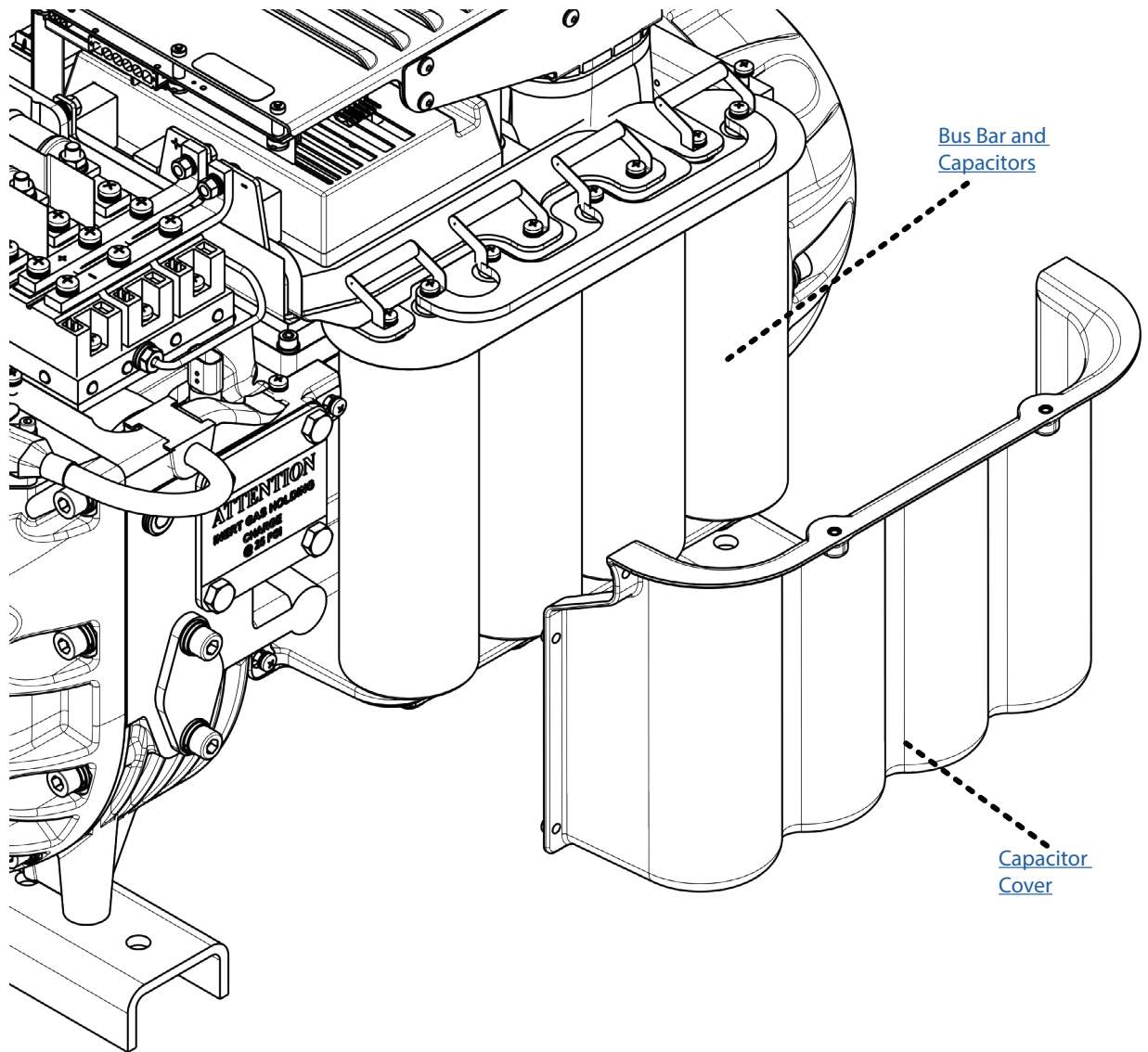
TT300, TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

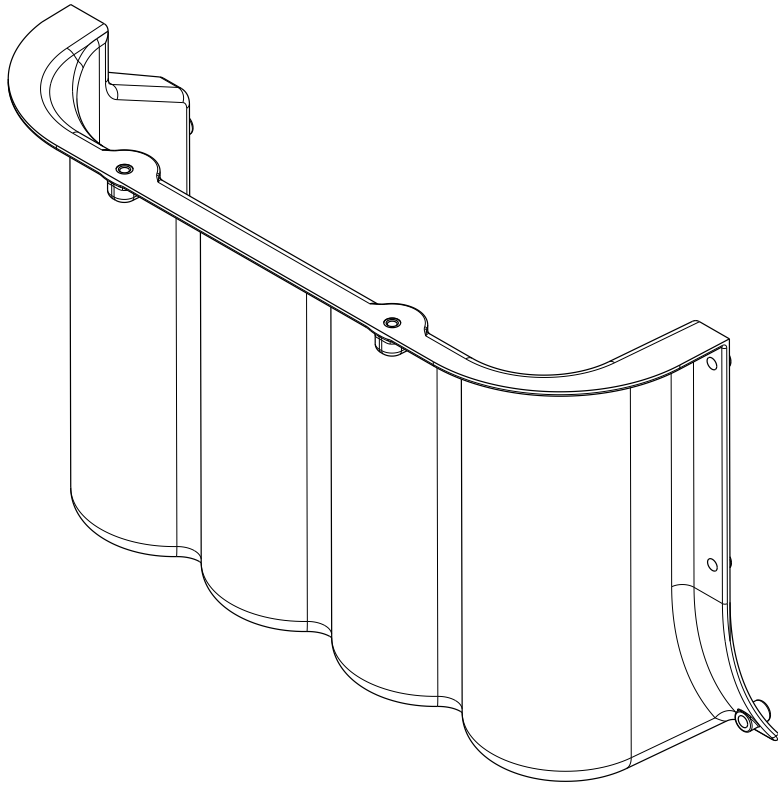
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(2) KIT – TEMPERATURE SENSOR SCR	100268	ALL	Includes washers

Section 4: Capacitor Side

This section details the spare part kits that are visible from the discharge side of the compressor underneath the Capacitor and Mains Input cover.



Capacitor Cover



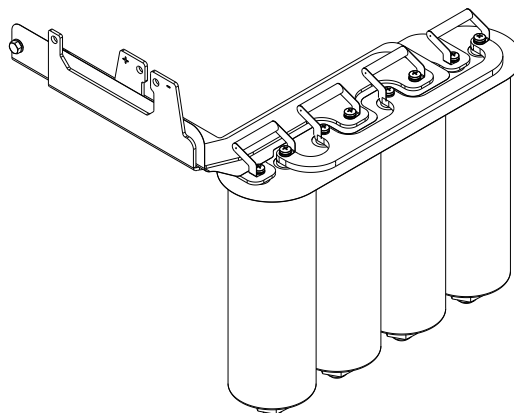
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER CAPACITOR ASSY (BLACK)	100053-3	ALL TT	Includes screws
KIT - COVER CAPACITOR ASSY (GREEN)	100053-6	ALL TG	Includes screws
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces screws for all four covers

Bus Bar and Capacitor Assembly



Applies To

TT300, TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS BAR ASSY AND CAPACITORS 6800 μ F (460V)	100044-7	-N, -P, -C, -D, -E, -F, -G	For use with 460V models, includes nuts
KIT - BUS BAR ASSY AND CAPACITORS 4700 μ F (575V)	100044-8	-N, -P, -C, -D, -E, -F, -G	For use with 575V models, includes nuts
KIT - BUS BAR ASSY AND CAPACITORS 9000 μ F (400V)	100044-6	-N, -P, -C, -D, -E, -F, -G	For use with 400V models, includes nuts

Applies To

TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS BAR ASSY AND CAPACITORS 8500 μ F (460V)	100044-12	-P, -A, -C, -E, -F	For use with 460V models, includes nuts
KIT - BUS BAR ASSY AND CAPACITORS 11000 μ F (380/400V)	100044-11	-P, -A, -C, -E, -F	For use with 380V and 400V models, includes nuts

Applies To

TT400, TG390

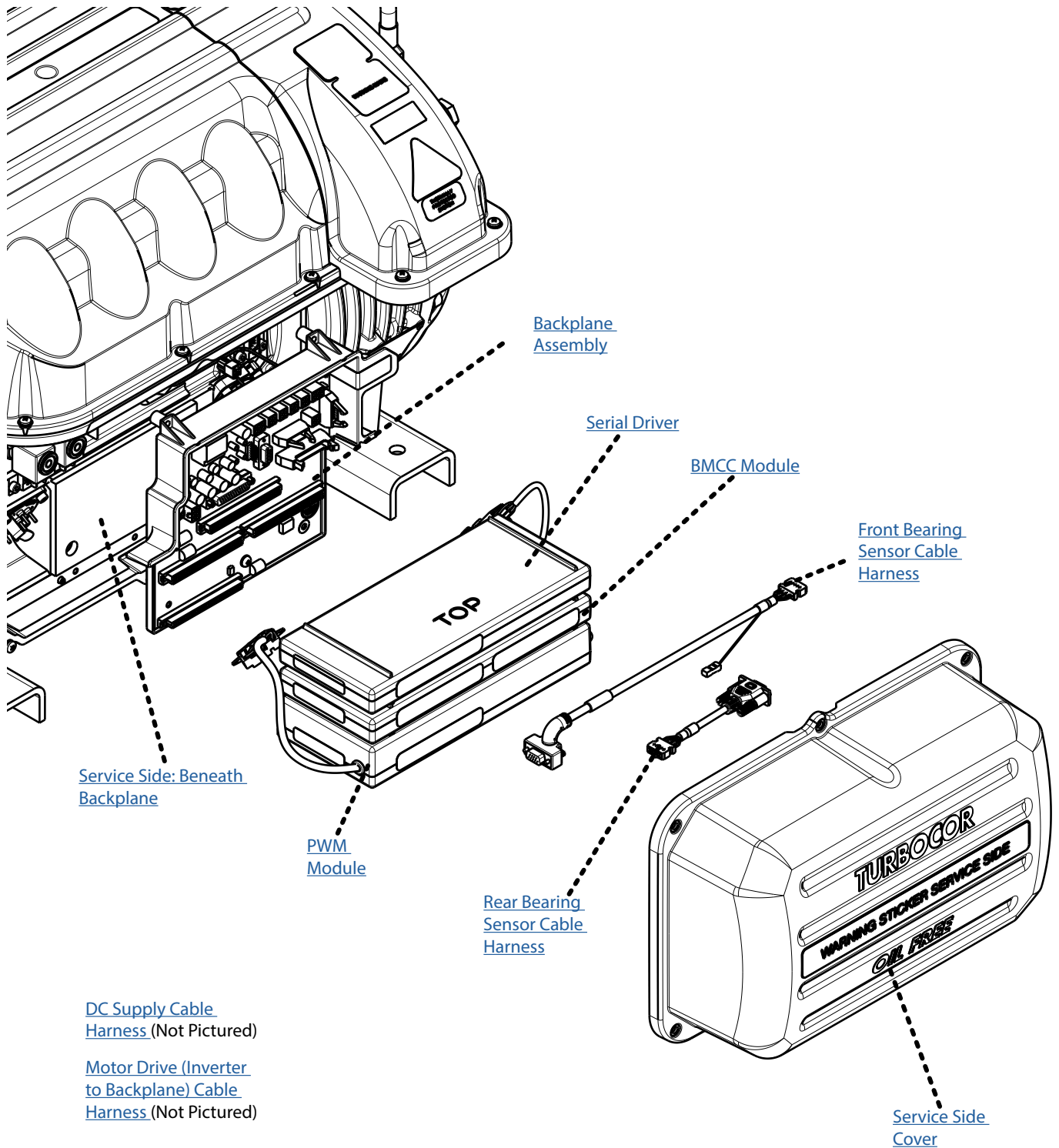
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS BAR ASSY AND CAPACITORS 6800 μ F (575V)	100044-13	-P, -C, -E, -F	For use with 575V models, includes nuts

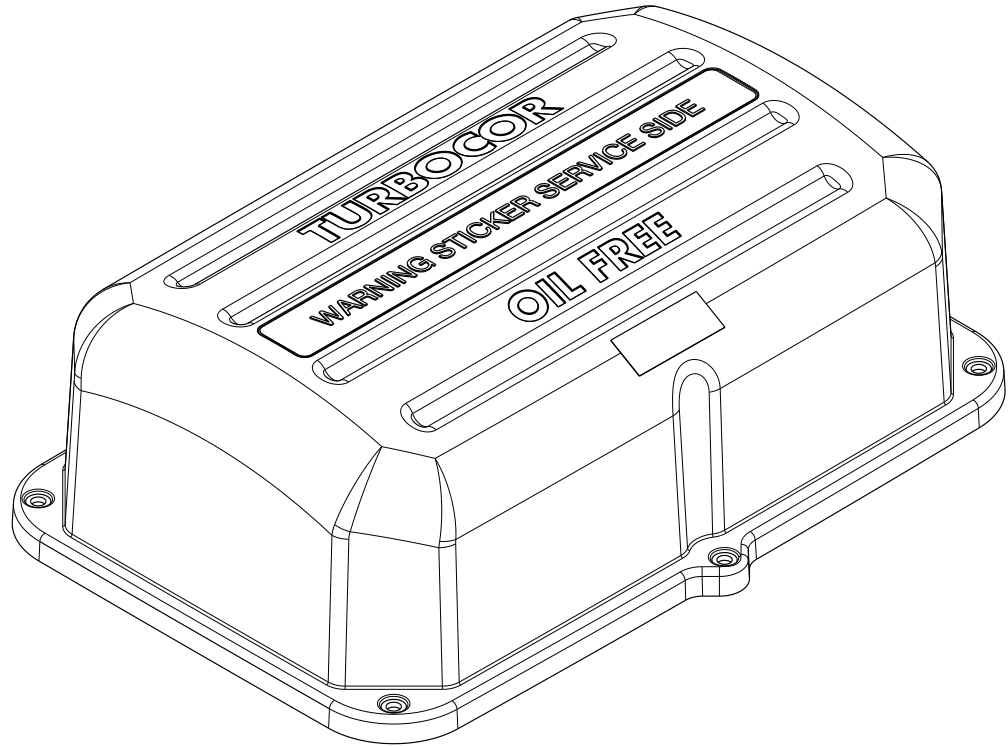
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Section 5: Service Side

This section details the spare part kits available on the service side of the compressor underneath the Service Side cover.



Service Side Cover



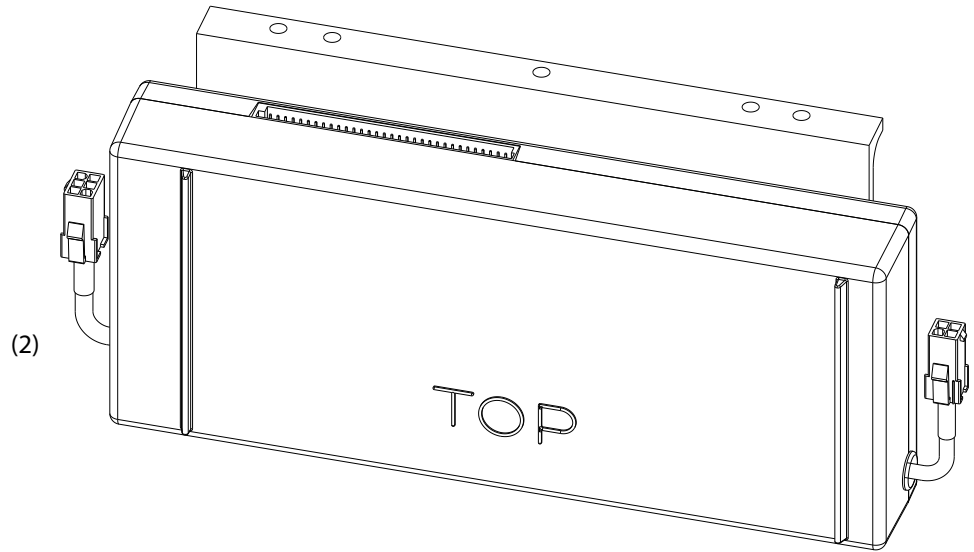
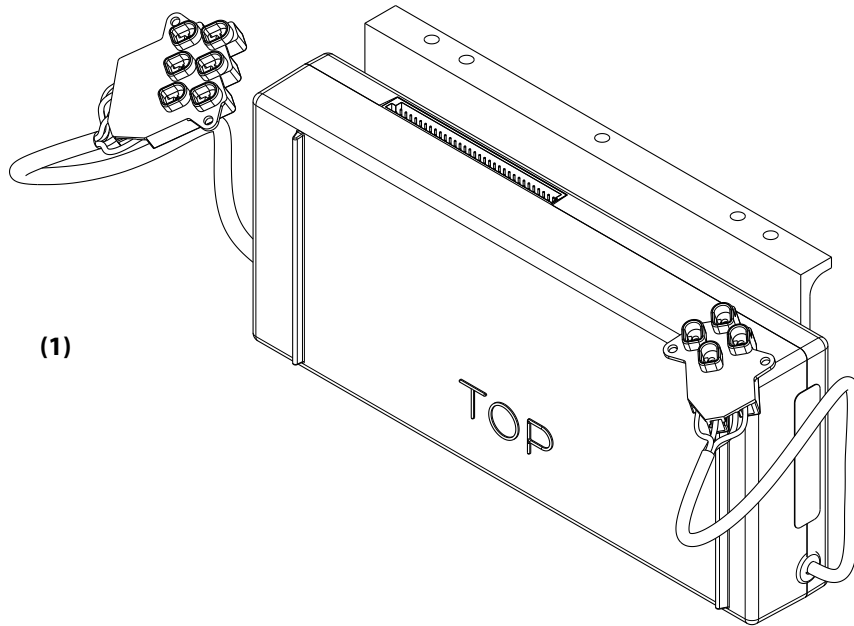
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER SERVICE SIDE ASSY (BLACK) EN/FR Labels	100055-3	ALL TT	Includes screws
KIT - COVER SERVICE SIDE ASSY (GREEN) EN/FR Labels	100055-6	ALL TG	Includes screws
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces screws for all four covers

PWM Module



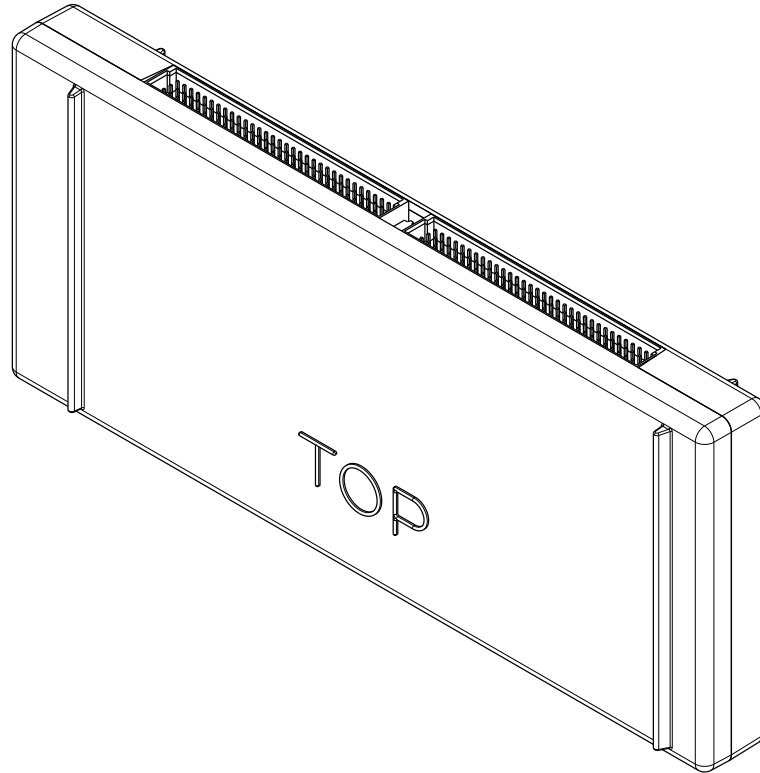
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - MODULE BEARING PWM	100022	-N, -P, -A, -C, -D, -E	Includes screws
(2) KIT - MODULE BEARING PWM	100372	-F	Includes screws

BMCC Module



Applies To

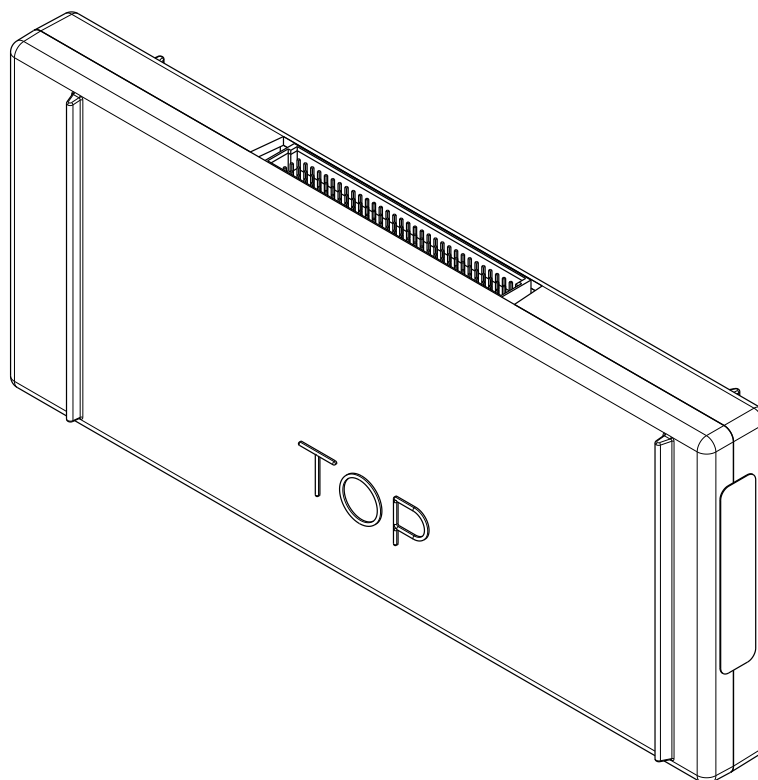
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
BEARING MOTOR COMPRESSOR CONTROL (BMCC)	201055-xxxxxx	ALL*	Specific compressor part number used in place of -xxxxxx, Contains BMCC with compressor specific soft- ware only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Serial Driver



Applies To

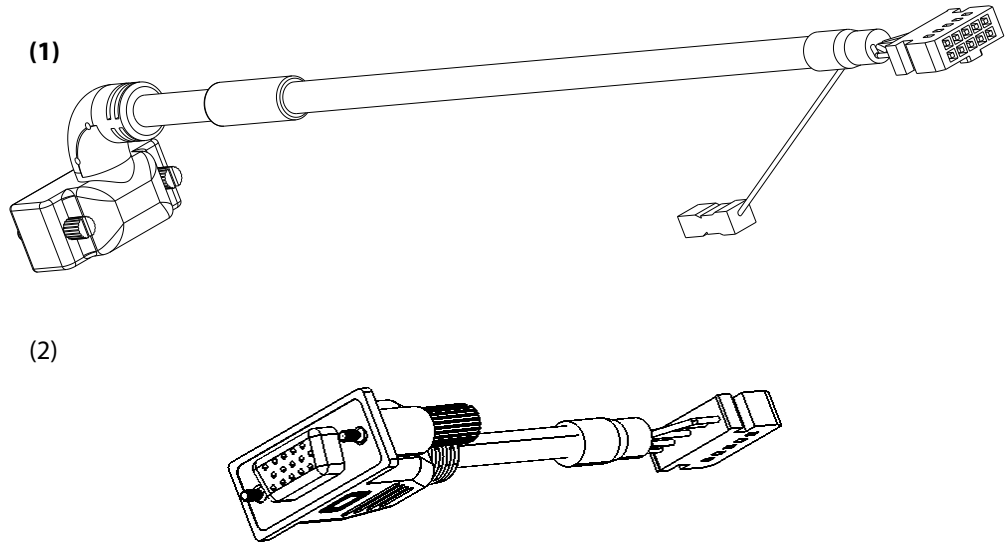
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – MODULE SERIAL DRIVER	100292	ALL*	Serial Driver Only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Rear/ Front Bearing Sensor Cable Harness



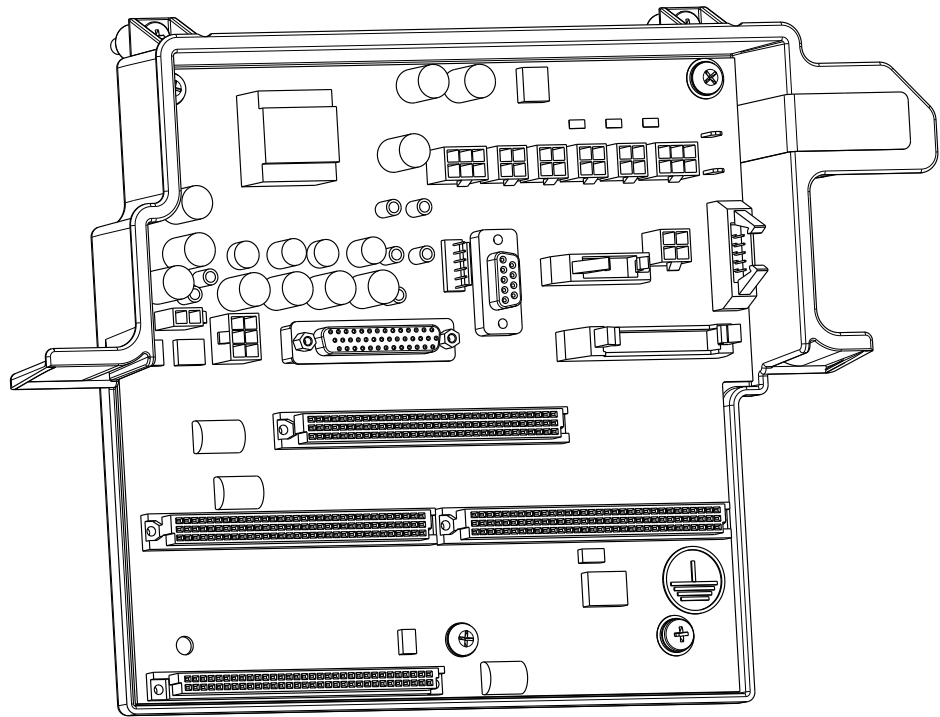
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - CABLE HARNESS REAR BEARING SENSOR	100065	ALL	Cable Only
(2) KIT - CABLE HARNESS FRONT BEARING SENSOR	100064	ALL	Cable Only

Backplane Assembly



Applies To

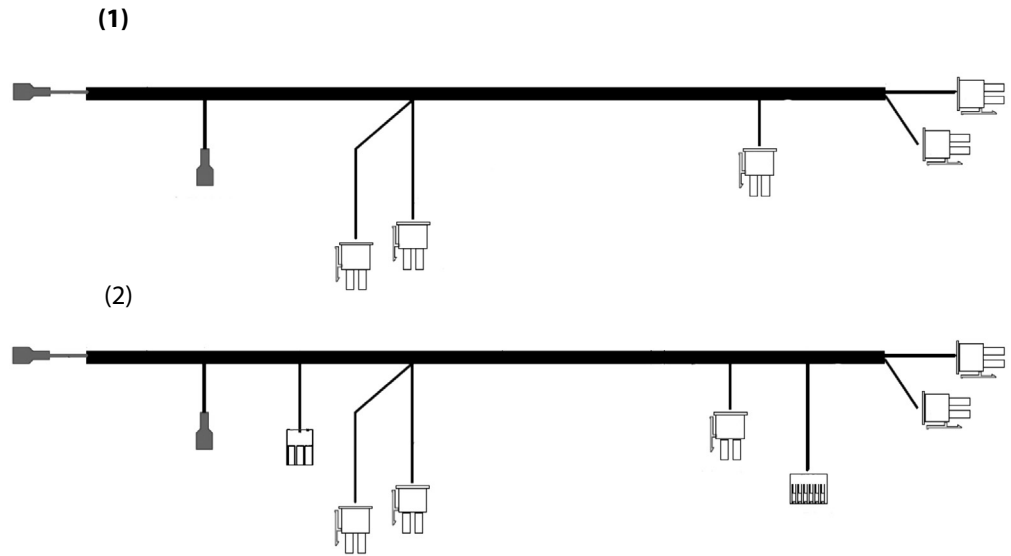
TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – MODULE BACKPLANE ASSY	100021-1	ALL*	Includes screws and washers

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

DC Supply Cable Harness



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - CABLE HARNESS DC-DC TO BACKPLANE	100323	-N, -P, -C, -D, -E	Cable Only**
(2) KIT - CABLE HARNESS DC-DC TO BACKPLANE SS TEMP	100323-2	-F	Cable Only

**Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE - FIE Conversion Kit](#).

Motor Drive (Inverter to Backplane) Cable Harness



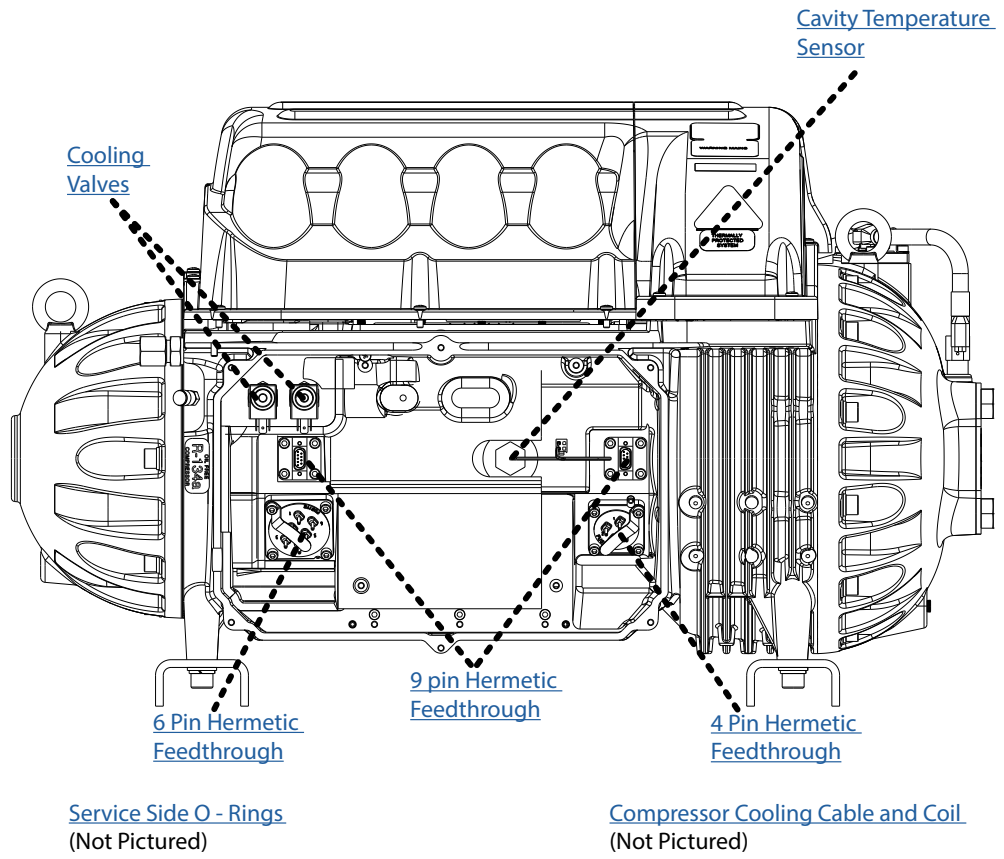
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

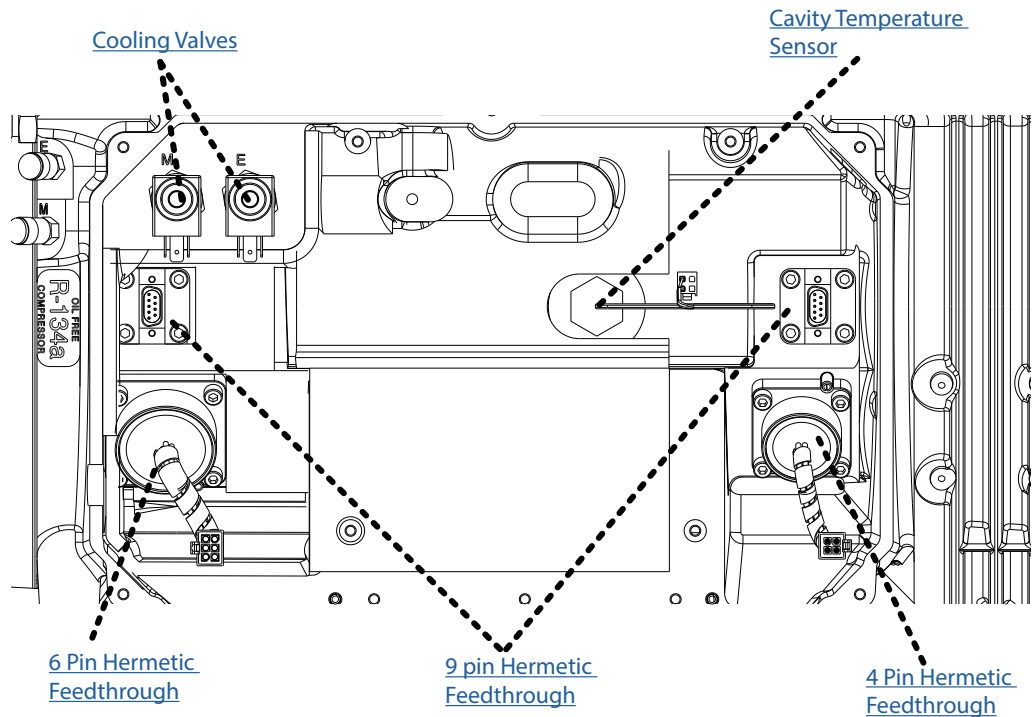
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CABLE HARNESS MOTOR DRIVER (INVERTER TO BACKPLANE)	100061	ALL	Cable Only

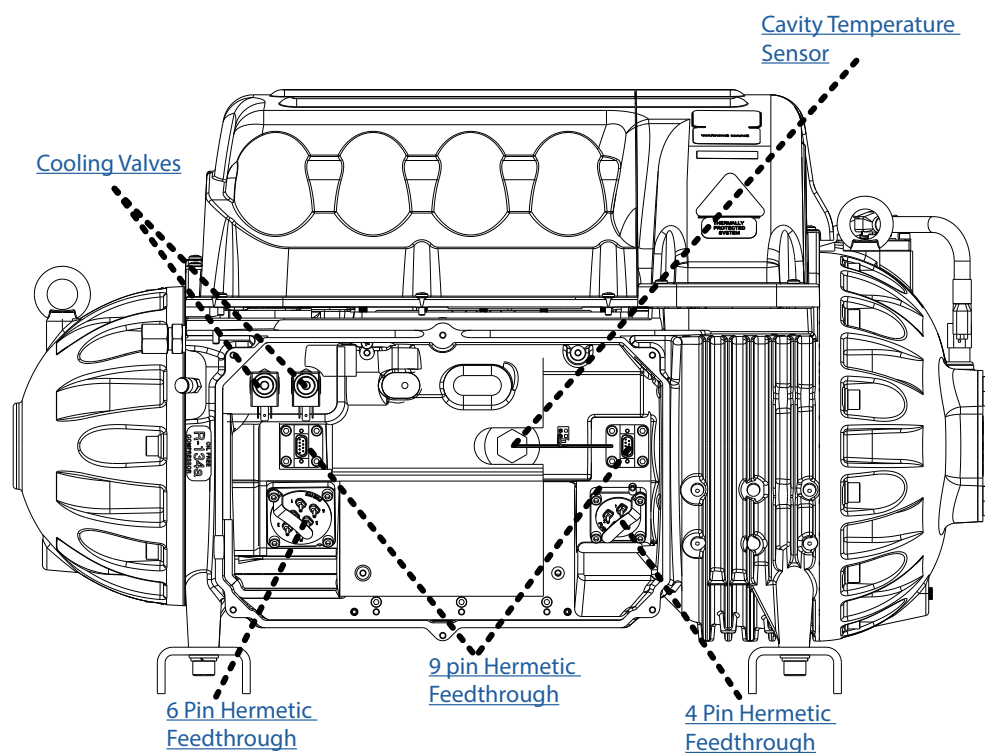
Beneath Backplane



F-Series Beneath Backplane



Service Side O - Rings



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - O-RINGS (SERVICE SIDE SMALL O-RINGS)	100052-2	ALL	Includes O-rings for cooling valves and 6 Pin, 4 Pin and 9 Pin Hermetic Feedthroughs
KIT - O-RING SOLENOID ORIFICE	100242	ALL	Only replaces cooling valve O-rings

Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - O-RING - SERVICE SIDE SMALL O-RINGS	100052-1	-P	Includes O-rings for cooling valves and 6 Pin, 4 Pin and 9 Pin Hermetic Feedthroughs
KIT - O-RING SOLENOID ORIFICE	100241	-P	Replaces cooling valve O-rings

Compressor Cooling Cable and Coil Assembly



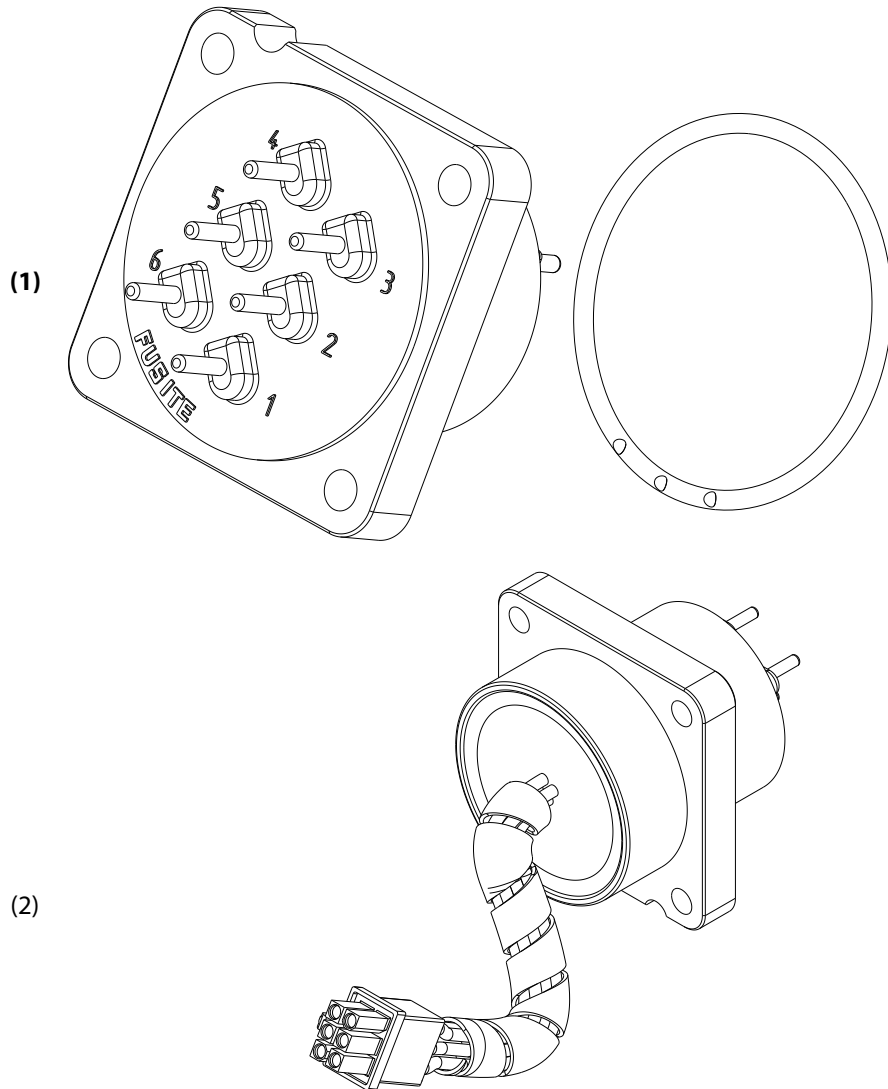
Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CABLE HARNESS MOTOR-COOLING AND COIL ASSY	100063-1	ALL	Includes nut and washer

6 Pin Hermetic Feedthrough



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC ROUGH 6 PIN	100294-1	-N, -P, -A, -C, -D, -E	Includes screws and O-rings
(2) KIT - HERMETIC FEEDTHROUGH 6 PIN	100371	-F	Includes screws and O-ring

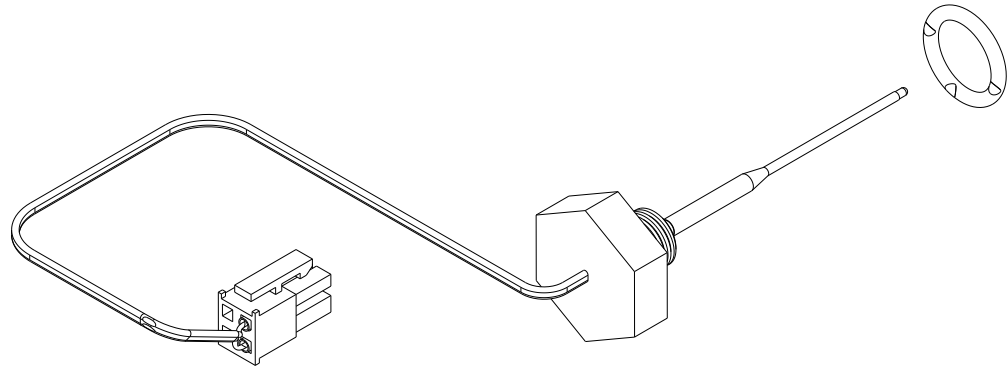
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC FEEDTHROUGH REAR BEARING - 6 PIN	100294	-P	Includes screws and O-ring

Cavity Temperature Sensor/ Motor Rotor



Applies To

TT300, TT350, TT400, TG230, TG310, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – CAVITY TEMPERATURE SENSOR TT300, TT350, AND TT400	100034	-N, -P, -A, -C, -D	Do not use if compressor PN ends in “-3”, Can be used with SIE models, Sensor Only
KIT - SENSOR ASSY TEMPERATURE MOTOR ROTOR	100196-3	-E, -F	Use if compressor part number ends in “-3”, Includes O-ring

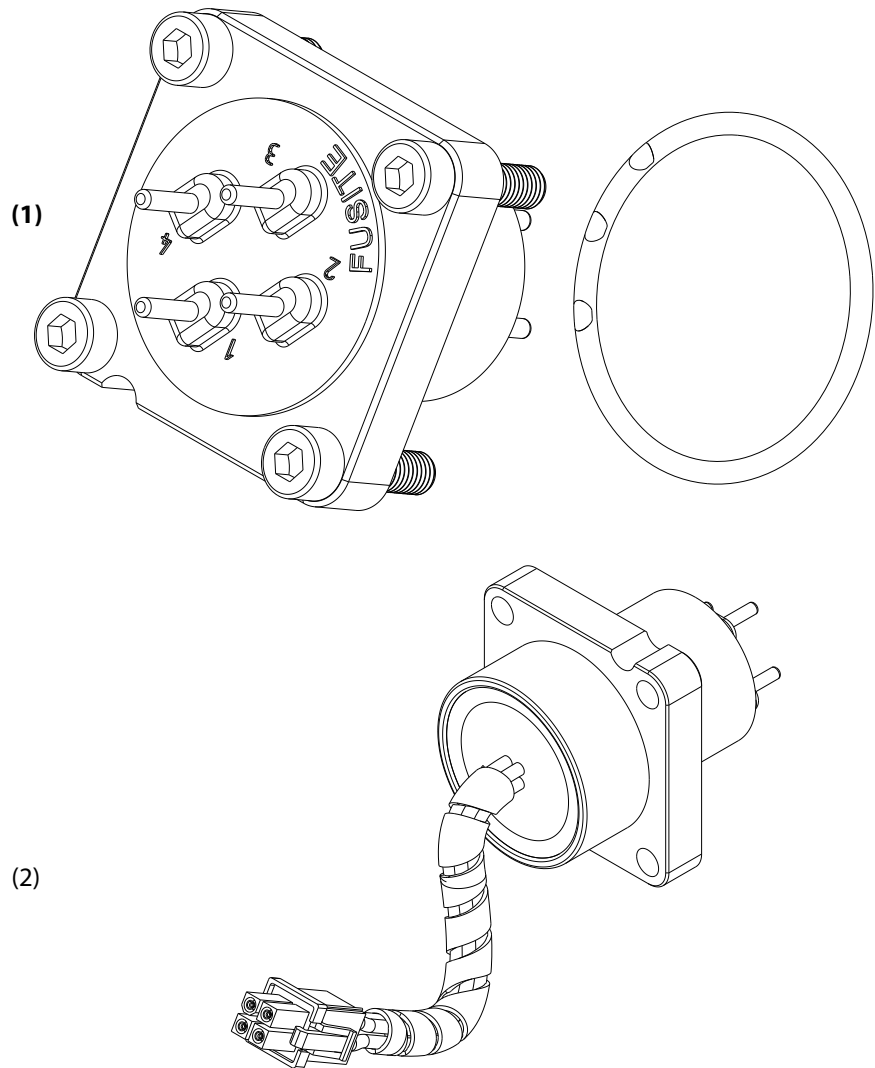
Applies To

TT500, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CAVITY TEMPERATURE SENSOR TT500	100034-1	-A	Do not use if compressor PN ends in “-3”, Includes O-ring
KIT - SENSOR ASSY TEMPERATURE MOTOR ROTOR	100196-4	-E, -F	Use if compressor part number ends in “-3”, sensor only

4 Pin Hermetic Feedthrough



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC FEEDTHROUGH 4 PIN	100293-1	-N, -P, -A, -C, -D, -E	Includes screws and O-ring
(2) KIT - HERMETIC FEEDTHROUGH 4 PIN	100370	-F	Includes screws and O-ring

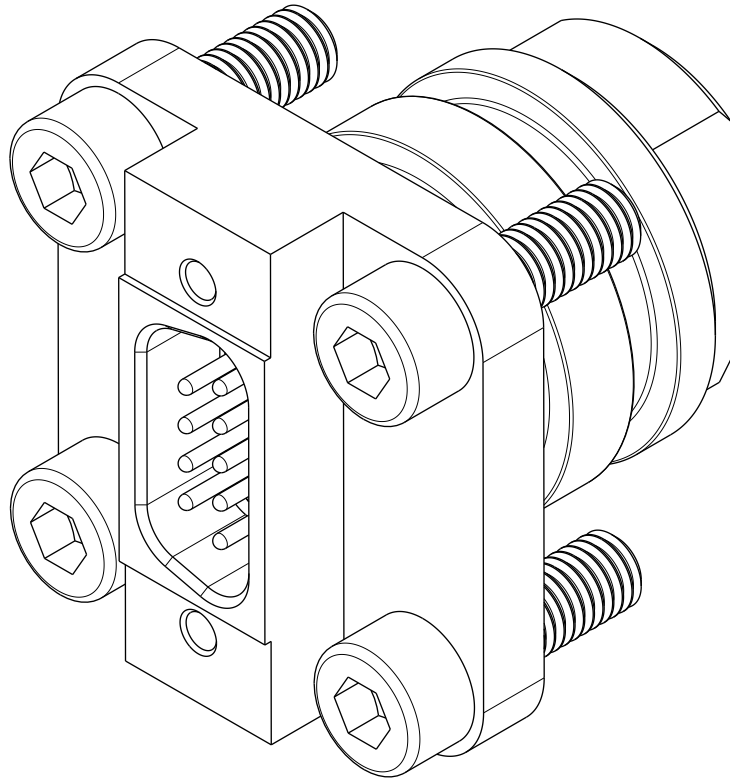
Applies To

TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - HERMETIC FEEDTHROUGH FRONT BEARING - 4 PIN	100293	-P	For use with R22 only Includes screws and O-ring

9 Pin Hermetic Feedthrough



Applies To

TT300 (R134a), TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - HERMETIC FEEDTHROUGH 9 PIN	100295-1	ALL	Includes screws and O-rings

Applies To

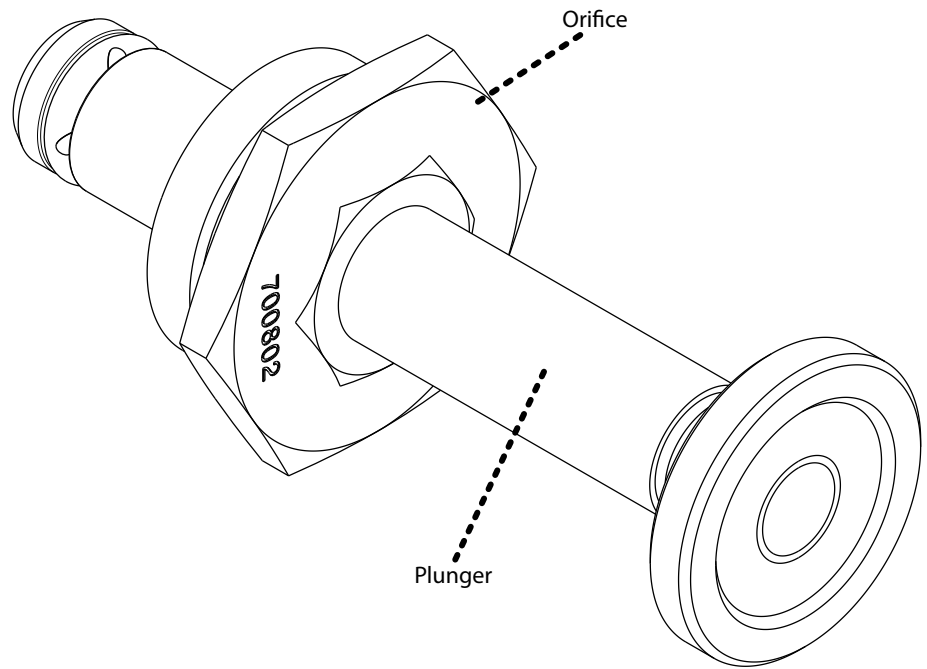
TT300 (R22)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - HERMETIC FEEDTHROUGH BEARING - 9 PIN	100295	-P	For use with R22 only Includes screws and O-rings

Cooling Valves Assembly

Each Cooling Valve Assembly spare part kit contains two Plunger Assemblies, two Orifices for the Inverter and Motor Cavity ports, and the O-rings required to replace them. The [table](#) on the following page is organized so that each row contains all of the related cooling valve kits. Plunger Assembly kits include O-rings which cannot be ordered separately. Orifice kits do not include O-rings therefore they must be purchased separately.



Cooling Valves

Applies To

TT300, TT400

MODEL	COOLING VALVES ASSEMBLY		MOTOR CAVITY AND INVERTER ORIFICES		PLUNGER	
	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.
TT300 R134A TG230	KIT - COOLING VALVES ASSEMBLY TT300	100150-8	KIT - ORIFICE BODY, COOLING 1.3MM	100236 *	KIT - PLUNGER ASSY, SOLENOID	100235
TT300 R22 SERIAL COOLING	KIT - COOLING VALVES ASSEMBLY - TT300/R22	100150			KIT - PLUNGER ASSY, SOLENOID	
TT300 R22 SPLIT COOLING TT400 (-P)	KIT - COOLING VALVES ASSEMBLY TT400-P & TT300 R22 SPLIT COOLING	100150-1	KIT - ORIFICE BODY, COOLING 1.5MM	100237 *	KIT - PLUNGER ASSY, SOLENOID	100233
TT400 380V, 400V & 460V (-C, -E, -F)	KIT - COOLING VALVES ASSEMBLY TT400 (380V, 400V, 460V)	100150-10	KIT - ORIFICE BODY, COOLING 1.6MM	100240 *	KIT - PLUNGER ASSY, SOLENOID	100235

* No O-ring included - part number 100242 should be ordered with any orifice kit.

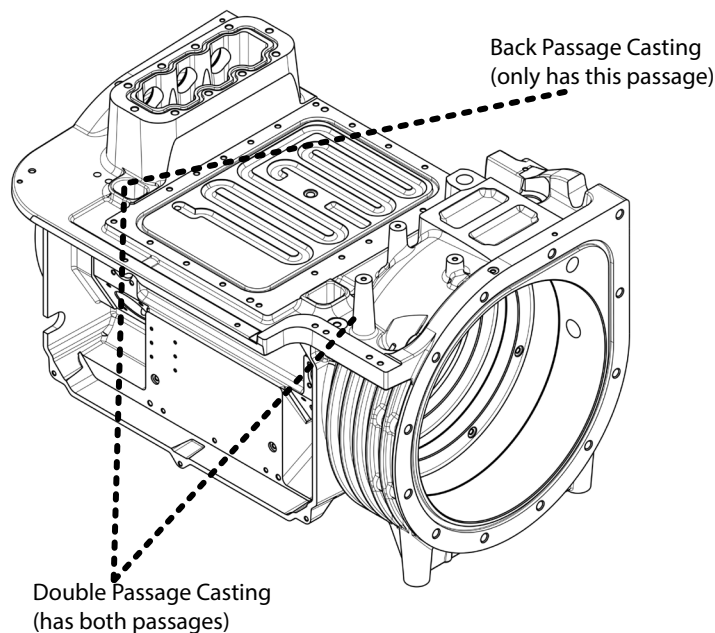
Applies To

TT350, TT400, TT500, TG310

MODEL	COOLING VALVES ASSEMBLY		ORIFICES				PLUNGER	
	DESCRIPTION	PART NO.	MOTOR CAVITY		INVERTER		DESCRIPTION	PART NO.
DESCRIPTION			PART NO.	DESCRIPTION	PART NO.			
TT400 575V (-C, -E, -F) TG310 TG390	KIT - COOLING VALVES ASSEMBLY TT400 (575V), TG310	100150-6	KIT - ORIFICE BODY, COOLING 2.0MM	100239	KIT - ORIFICE BODY, COOLING 1.6MM	100240 *	KIT - PLUNGER ASSY, SOLENOID	100235
TT350 400V & 460V TT500 TT700 TG520	KIT - COOLING VALVES ASSEMBLY TT350 (400V & 460V) & TT500	100150-9	KIT - ORIFICE BODY, COOLING 2.5MM	100238				
TT350 380V	KIT - COOLING VALVES ASSEMBLY TT350 (380V)	100150-11			KIT - ORIFICE BODY, COOLING 2.0MM	100239 *		

Appendix A - SIE Conversion Kit

Each SIE conversion kit contains a Fully Integrated Electronics (FIE) version of the [Backplane Assembly](#), [Compressor Controller Cable Harness](#), [Soft Start](#), [Chiller Interface Cable Harness](#), [BMCC](#), [Serial Driver](#), [DC-DC Converter](#), [PCB Assembly Chiller Interface Connector](#), [Soft Start SCR Gate Cable Harness](#), and [Soft Start AC/DC Cable Harness](#)



Applies To

TT300

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - CONVERSION-SIE TO THE CURRENT ELECTRONICS (400V) BACK PASSAGE CASTING	100514 & 100521*	ALL 400V SIE MODELS**	Includes all mentioned above
KIT - CONVERSION-SIE TO THE CURRENT ELECTRONICS (400V) DOUBLE PASSAGE CASTING	100515 & 100521*	ALL 400V SIE MODELS**	Also includes DC Supply Cable Harness
KIT-CONVERSION-SIE TO THE CURRENT ELECTRONICS (460V) BACK PASSAGE CASTING	100517 & 100521*	ALL 460V SIE MODELS**	Includes all mentioned above
KIT-CONVERSION-SIE TO THE CURRENT ELECTRONICS (460V) DOUBLE PASSAGE CASTING	100516 & 100521*	ALL 460V SIE MODELS**	Also includes DC Supply Cable Harness

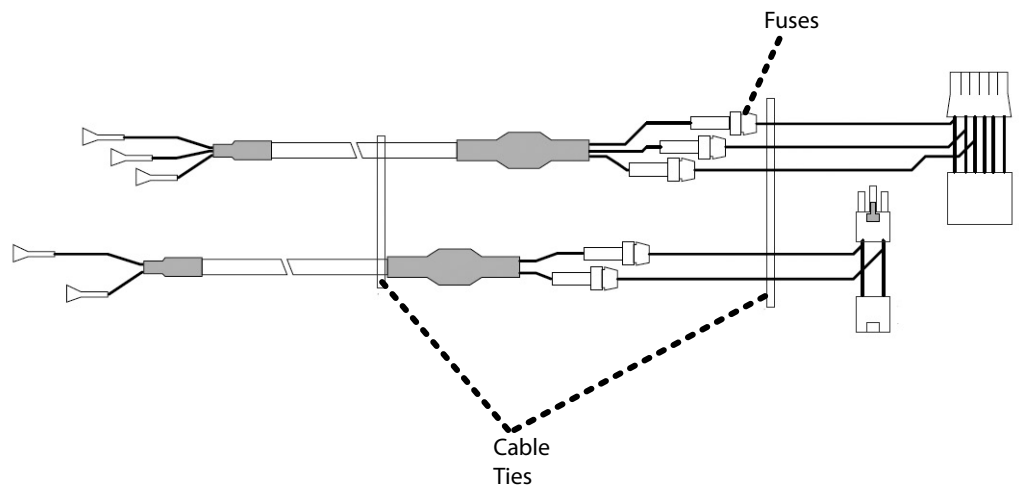
*Refer to Customer Notification (B-CN-079-EN)

**Proper kit selection depends on the identification of the correct housing type – for questions or clarification, please contact Danfoss Turbocor Product Support.

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Appendix B - Test Equipment

DC Bus Test Harness



Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – CABLE HARNESS DC BUS TEST LEAD	100326	ALL*	Cable Only

*Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see the [SIE – FIE Conversion Kit](#).

Compact Inverter Tester

The Compact Inverter Tester allows users to verify the inverter is correctly functioning, and to verify the functionality of the inverter control card. Testing can be accomplished without the removal of the inverter assembly.

The Compact Inverter Tester provides all power necessary to interface with the inverter module during testing. This device will test the high voltage section, both top and bottom diodes of each section, and the driver board of the inverter.

Applies To

All TT/TG Models

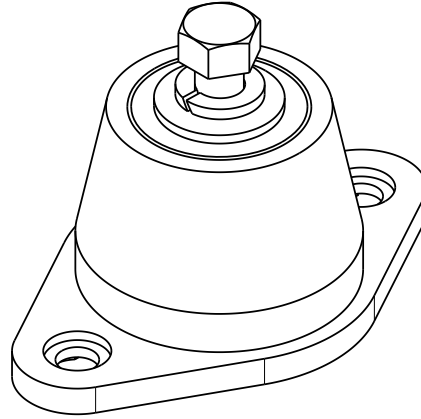
Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER TESTER	100377	ALL	Includes power adapter, AC plug (US and Europe), data cables, and user manual

NOTE: Only static tests can be performed by the **Compact Inverter Tester**.

Appendix C - Accessory Kits

Rubber Mounts



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

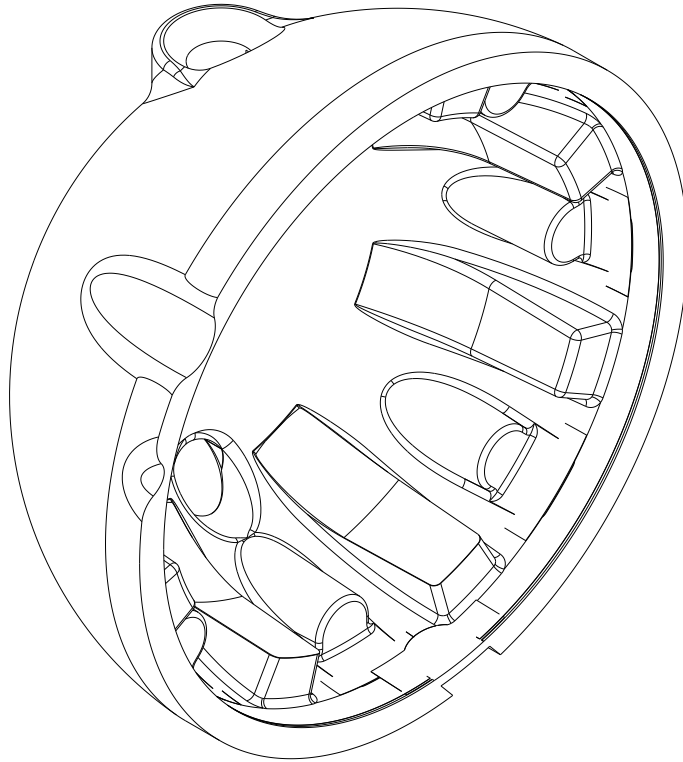
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – MOUNTING	100066	ALL	Includes screws and washers

Neoprene mountings shall have a maximum static deflection of 0.4" (10mm). All metal surfaces shall be neoprene covered and have friction pads at the bottom. Bolt holes shall be provided on the bottom and a tapped hole and cap screw on top. Aluminum rails shall be used above the mountings under the compressor such as small vent sets to compensate for the overhang.

- Maximum Deflection: 10mm (0.4")
- Material: Neoprene Duro_ Meter 50
- Tightening Torque: 27± 3 Nm (20 ± 4 lb.ft)
- Capacity Range: 50 -107 kg (110 - 236 lb) EACH

Appendix C - Accessory Kits

End Cap Insulation



Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – END CAP INSULATION	100147	ALL	Includes endcap insulation and silicone adhesive

The End Bell Kit insulates the compressor's end bell to prevent condensation due to the motor-cooling circuit located on this end of the compressor.

- Size: 11 1/2" diameter
- Flame Class: HF-1
- Compatible with all compressor models
- UL approved
- Material: Polystyrene Grade 54

EMI/ECI Filters

The EMI/EMC Filter minimizes harmonics in the higher frequency domain (typically above 1kHz). In order for the compressor to be CE-compliant, it should be located between the disconnect switch and the line reactor.

Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – EMI FILTER (CE) 185A	901666	ALL	Filter only
KIT – EMI/EMC FILTER (CE) 322A	901866	ALL	Filter only

Specifications

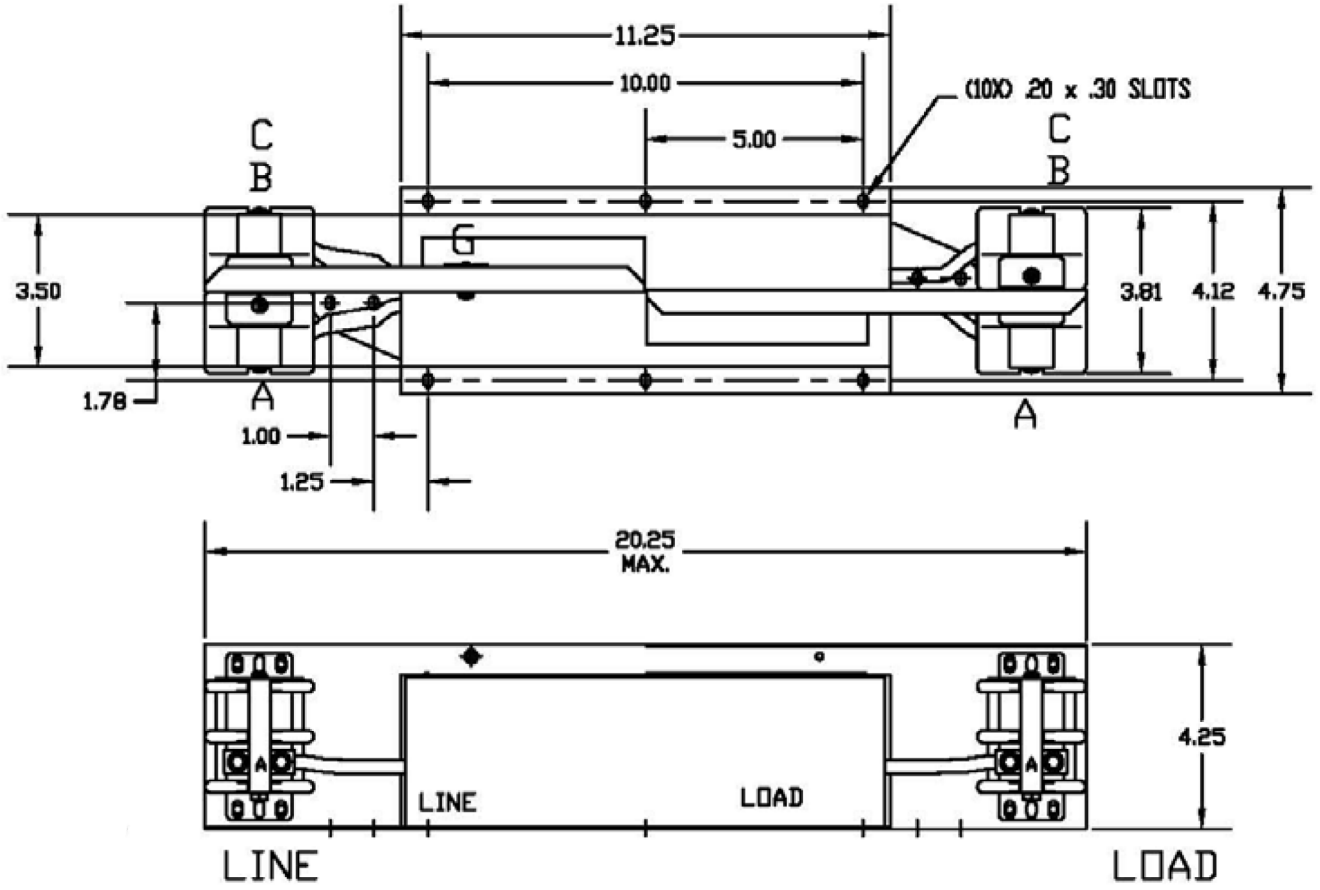
901666

- Approved to UL 1283
- Power dissipation @ rated current: 20W max
- Designed to comply to EN 133200. CSA 22.2 No. 8
- Insulation resistance: 1000M ohms min. @ 250VDC
- Rated voltage: up to 480VAC max., 50/60Hz
- Humidity range: 0-95% R.H.
- Rated current:
 - 185A @ 40°C operating ambient temp.
 - 165A @ 50°C operating ambient temp.
- Max leakage current each line to ground:
 - 150mA @ 250VAC 60Hz
 - 300mA @ 480VAC 60Hz
- Weight: 20 lbs max

901866

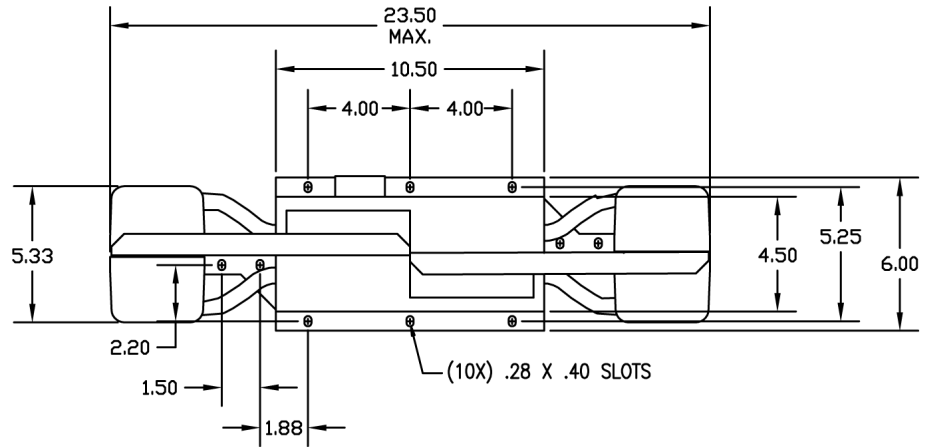
- Approved to UL 1283
- Max leakage current each line to ground:
 - 90mA @ 250VAC 60Hz
 - 180mA @ 480VAC 60Hz
- Designed to comply to EN 133200. CSA 22.2 No. 8
- Hi Pot (1 Min)
- L/G 2210VDC
- L/L 2780VDC
- Rated voltage: up to 480VAC max 50/60Hz
- (3 Phase)
- Hi Pot (1 Min)
- A-G, B-G, C-G (3 tests)
- A-B, B-C, A-C (3 tests)
- Rated current:
 - 322A @ 40°C operating ambient temp
- Humidity range: 0-95% R.H.
- Power dissipation @ rated current: 30W max
- Weight: 35 lbs max

NOTE: TORQUE WIRE LUGS TO 150 LB-IN

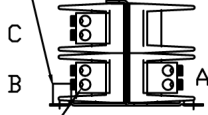


901866

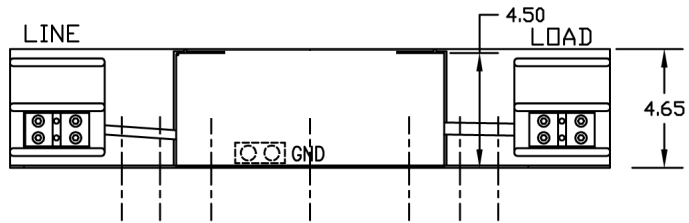
NOTE: TORQUE WIRE LUGS TO 150 LB-IN.



ONE AWG 6-250 MCM CONNECTION FOR GROUND.



TWO AWG 6-4/0 MCM CONNECTIONS PER TERMINAL



Line Reactors

The line reactor acts as an input buffer between the motor drive power circuits and the AC line power. Line reactors provide additional circuit impedance that improves power factor, reduces line current harmonics and dampens the transient voltages on the power line, thereby protecting the electronic motor drive components.

Applies To

TT300, TT350, TT400, TT500, TT700, TG230, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - LINE REACTOR 140A - 10%	901453	ALL	Line Reactor only
KIT - LINE REACTOR 240A - 5%	901832	ALL	Line Reactor only
KIT - LINE REACTOR 140A - 5%	901974	ALL	Line Reactor only
KIT - LINE REACTOR 180A - 5%	901975	ALL	Line Reactor only

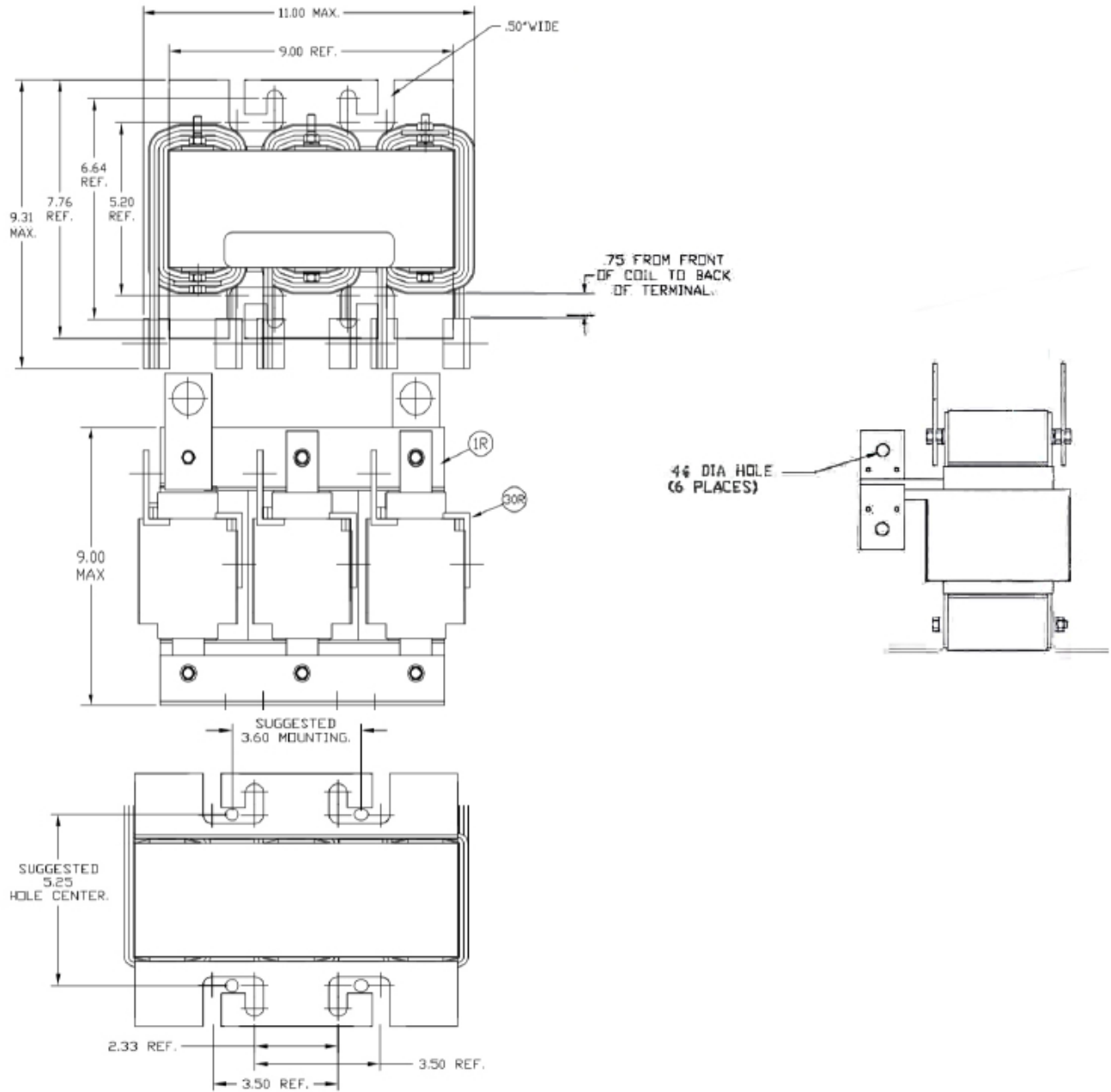
Specifications (all models)

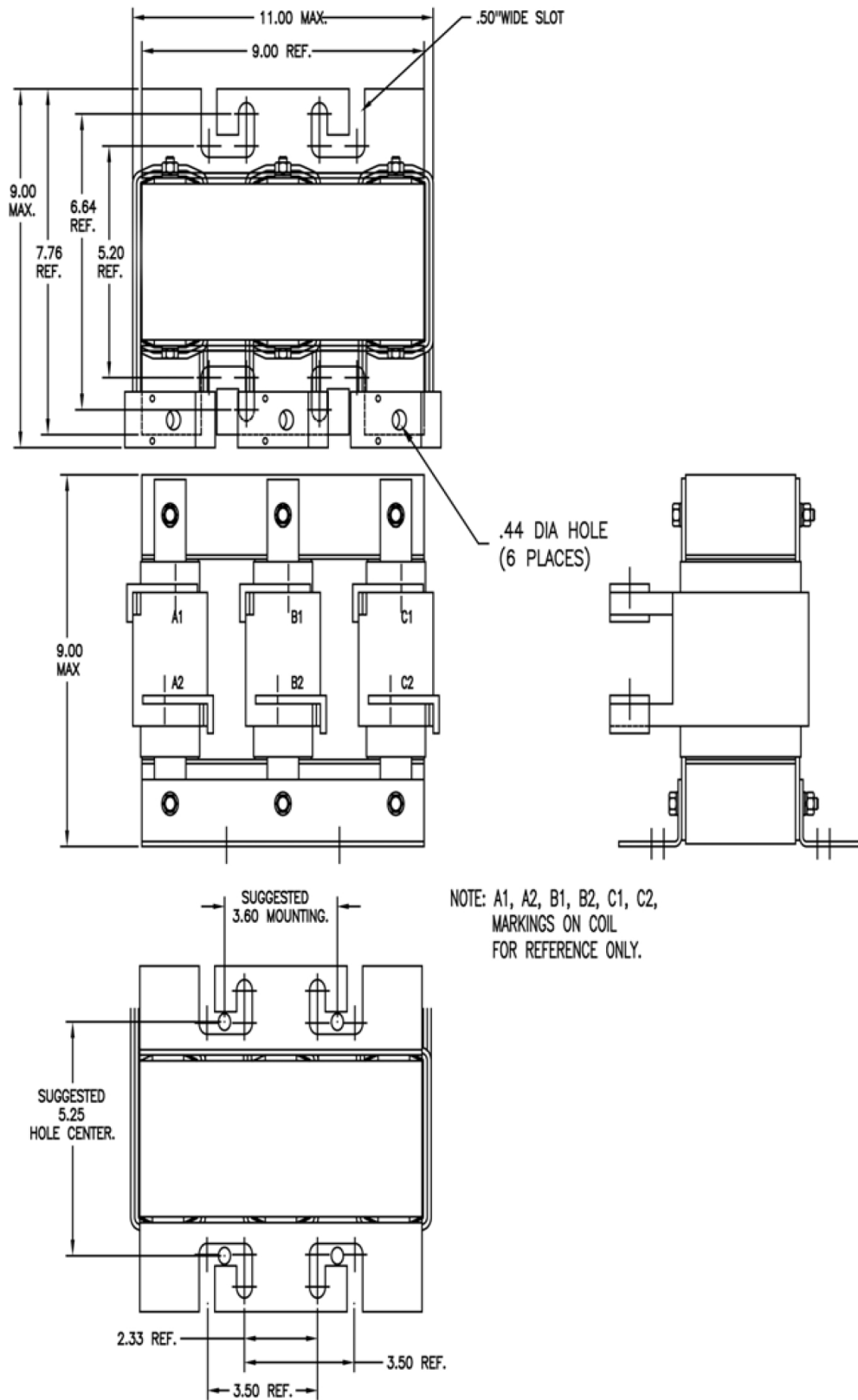
- Ambient Temperature Max: 40°C (104°F)
- Type: dry, air-cooled, open terminals
- Flux density @ rated current: <1.6 tesla
- Agency approvals:
- Manufactured to UL Standard 508
- UL recognized to file # E116124
- CSA certified - LR86011
- CE marked
- Core type: high permeability silicon, non-grain-oriented (N.G.O.), laminated core
- Phase/Frequency: 3-phase/ 50/60 Hz
- Cooling type: air-cooled
- Supply voltage: up to 480Vac (600 Max).
- Q factor at rated current, 60 Hz: approx. 22
- Rated current: 140A
- Insulation class: Class H - 220
- Inductance: 0.50mH ±10%
- Dielectric strength tested @: 2.2kVac for 1 minute according to UL508
- Total losses, basic current: approx. 500 W
- Temp rise @ rated current: <155°C (<279°F)
- Dimensions: 229H x 279W x 236D (in mm) 9H x 11W x 9.3D (in inches)
- Mass: 43 kg (95 lbs)
- Impregnation: dip and bake process to varnish, class H insulation standard
- Terminals: copper bus bar, hole to suit M8 bolt

NOTE

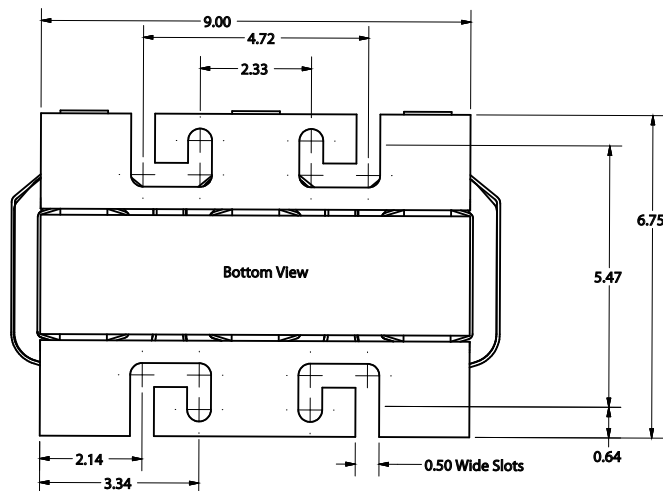
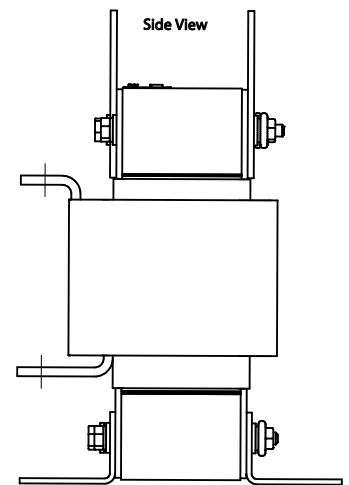
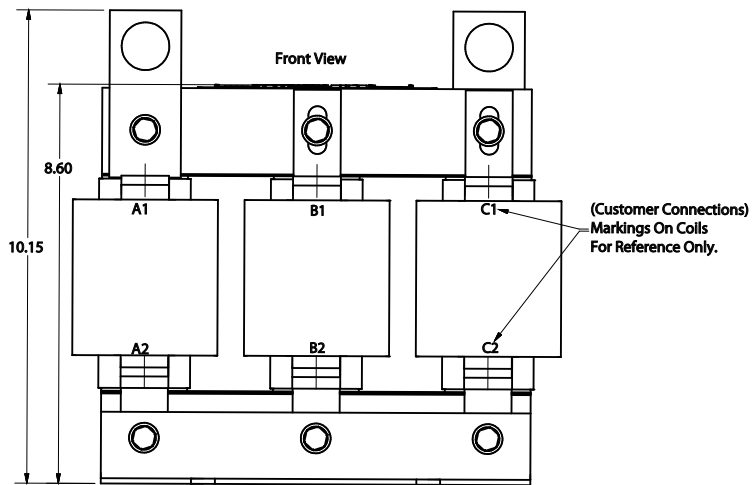
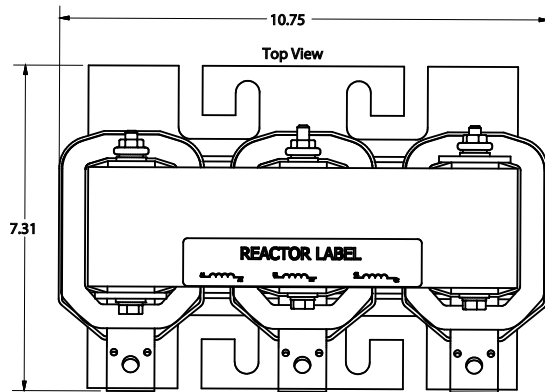
- Failure to install a line reactor will result in a higher-than-rated current draw, larger cabling requirements, and lower power factor.
- Order this part number when the line reactor is used in conjunction with a harmonic filter.

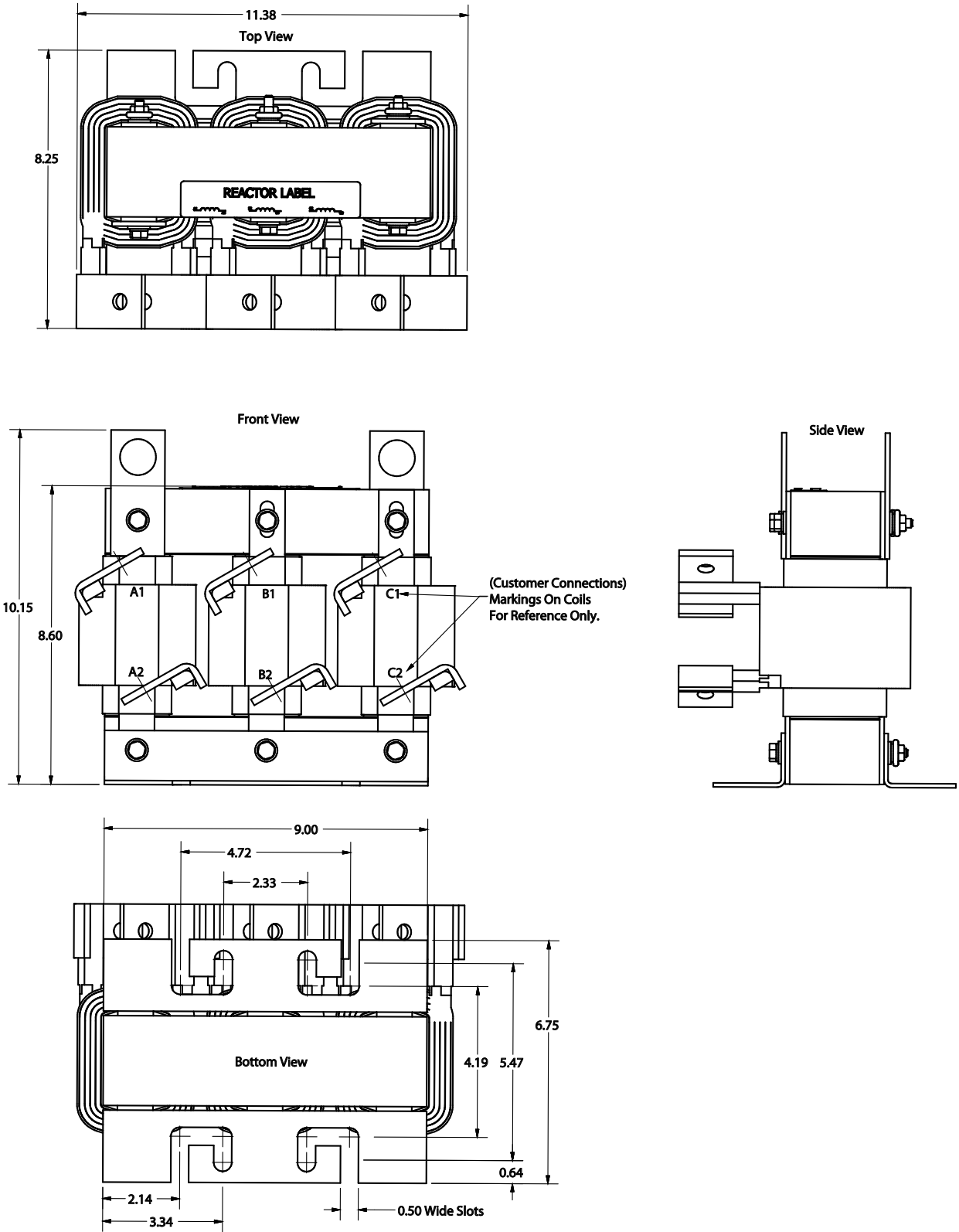
901453





901974





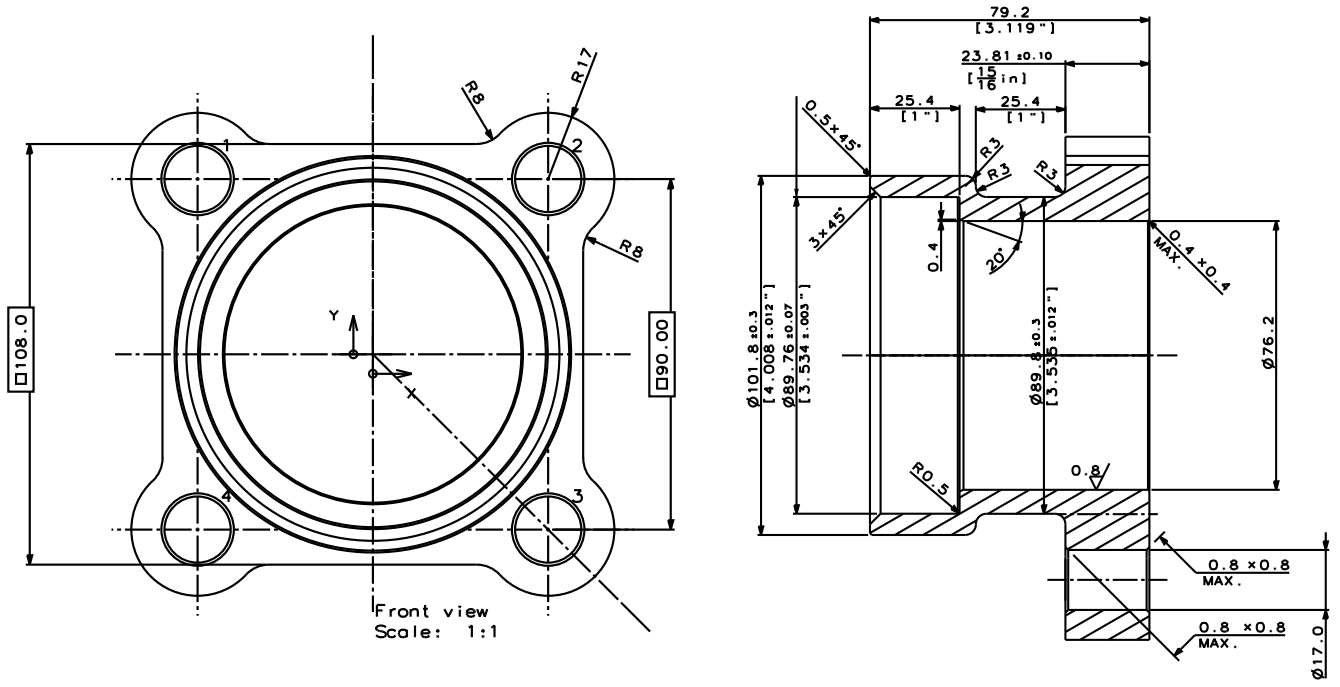
Suction Flange

Applies To

TT300 (R134a), TT350, TT400, TG230, TG310, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - SUCTION FLANGE (STEEL)	100151-1	ALL	Includes flange, screws, and washers



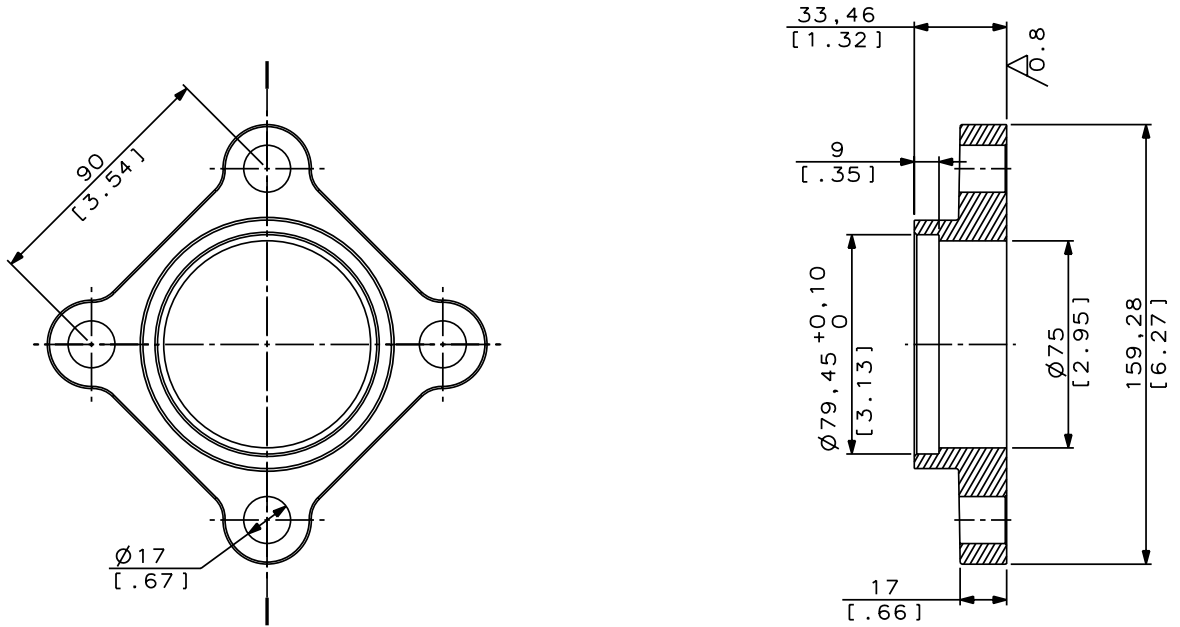
Suction Flange

Applies To

TT300 (R134a), TT350, TT400, TG230, TG310, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - SUCTION FLANGE (BRASS)	100402-1	ALL	Includes flange, screws, and washers



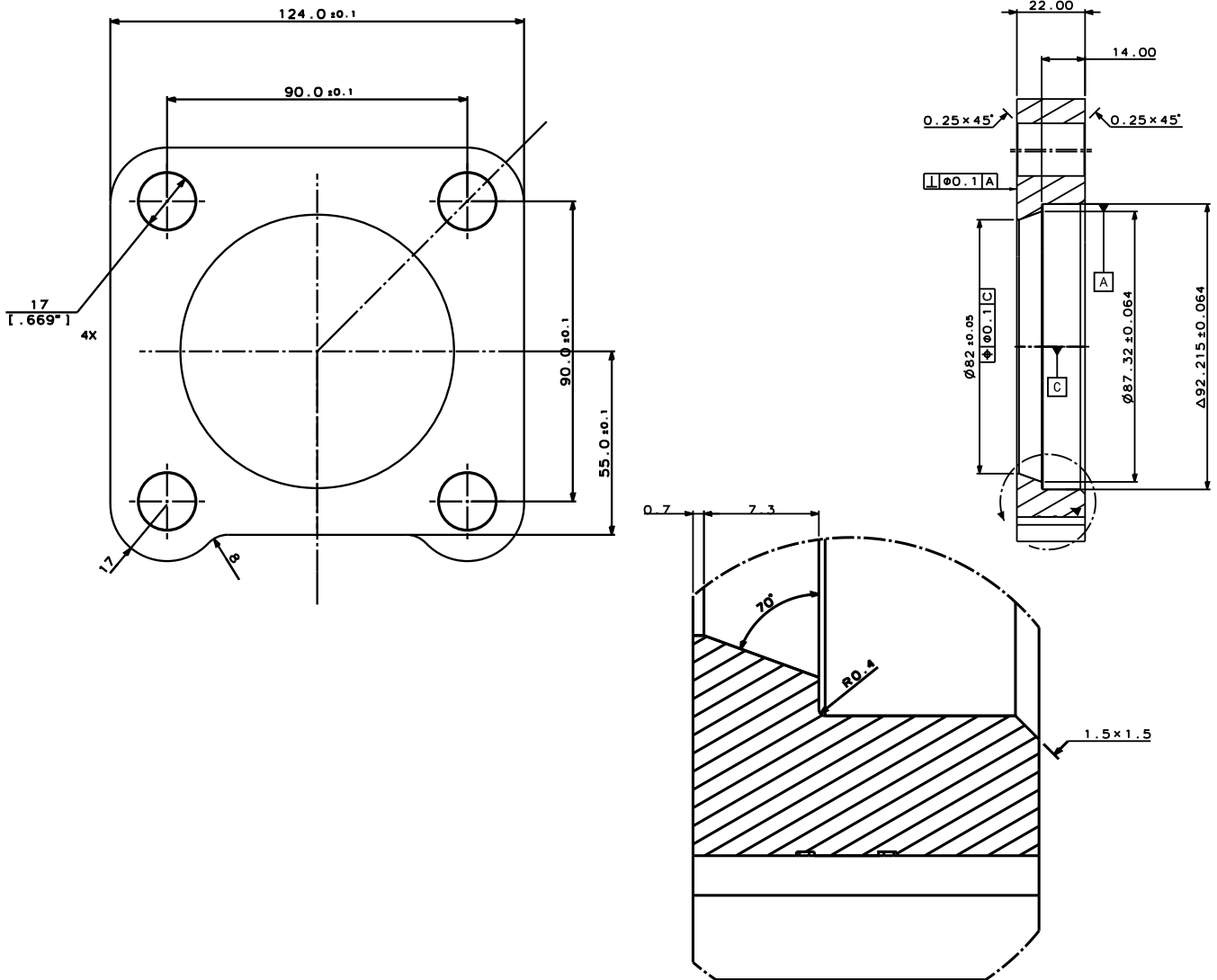
Suction Flange

Applies To

TT500, TT700, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - SUCTION FLANGE 3 5/8" (BRASS)	100378	ALL	Includes flange, screws, and washers



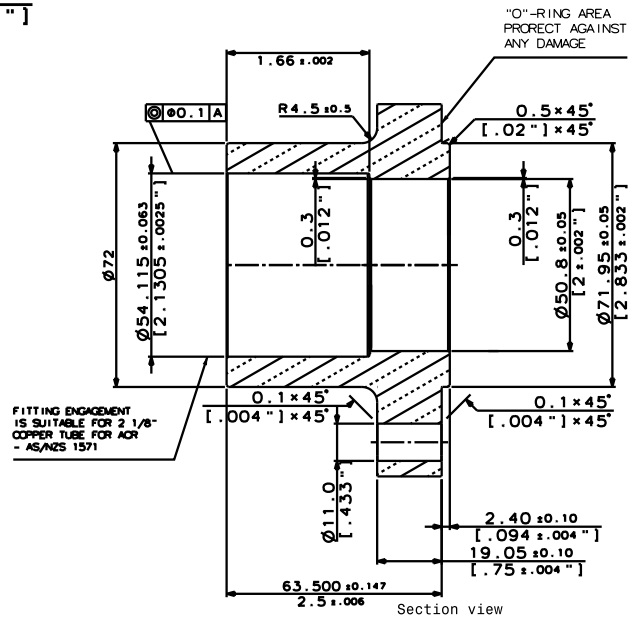
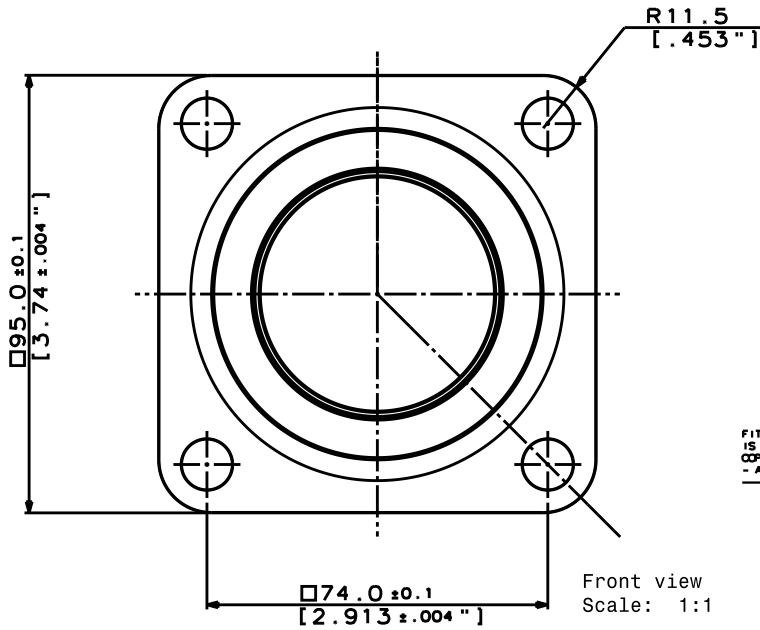
Discharge Flange

Applies To

TT300 (R134a), TT350, TT400, TG230, TG310, TG390

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - DISCHARGE FLANGE (BRASS)	100152	ALL	Includes flange, screws, and washers



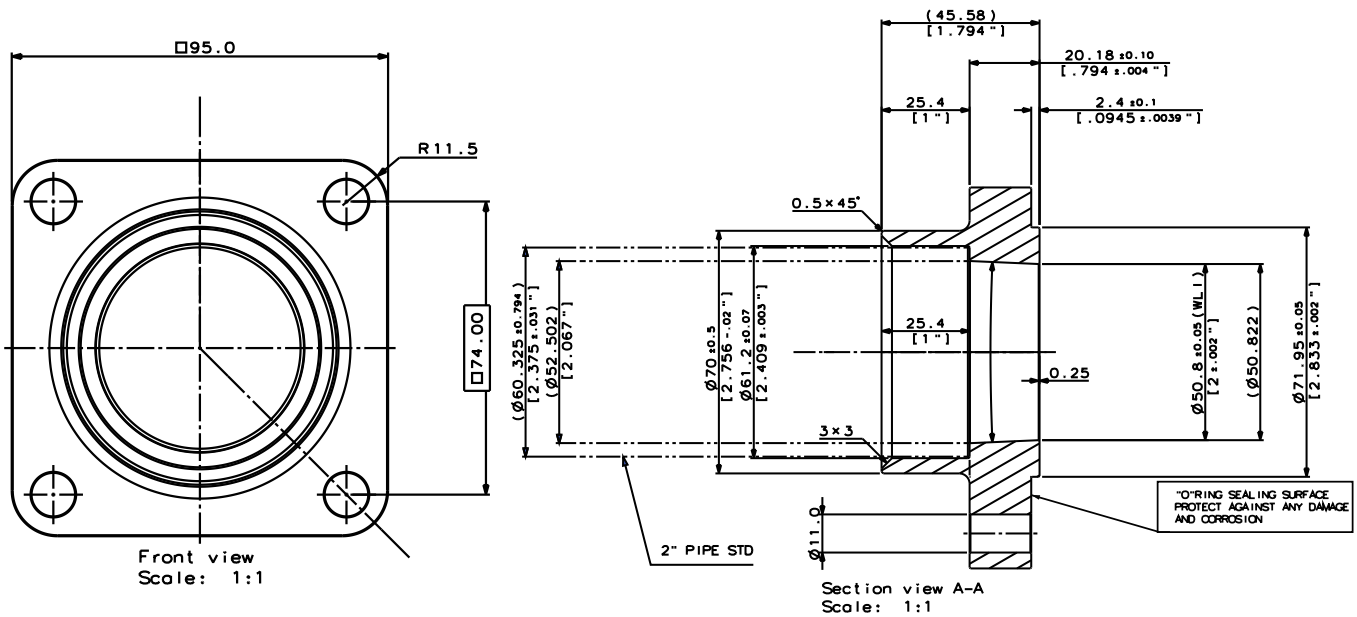
Discharge Flange

Applies To

TT300 (R134a), TT350, TT400, TG230, TG310, TG390 (R134a)

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - DISCHARGE FLANGE (STEEL)	100153-1	ALL	Includes flange, screws, and washers



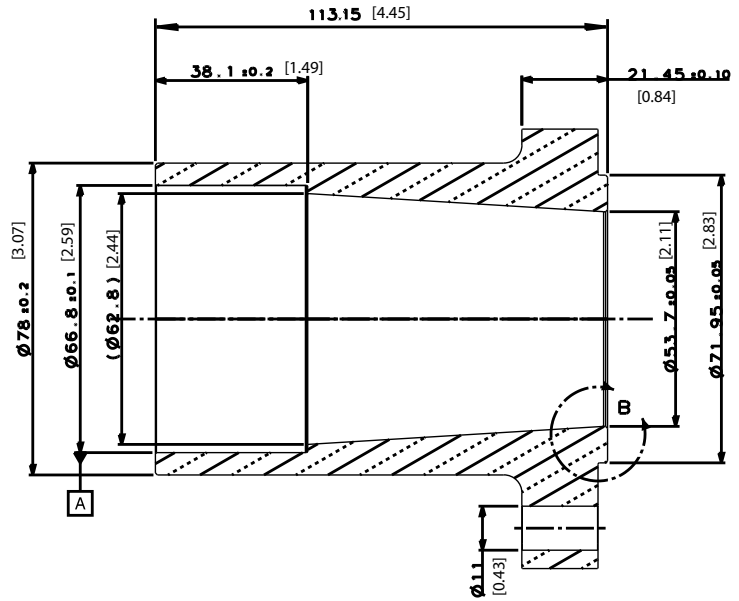
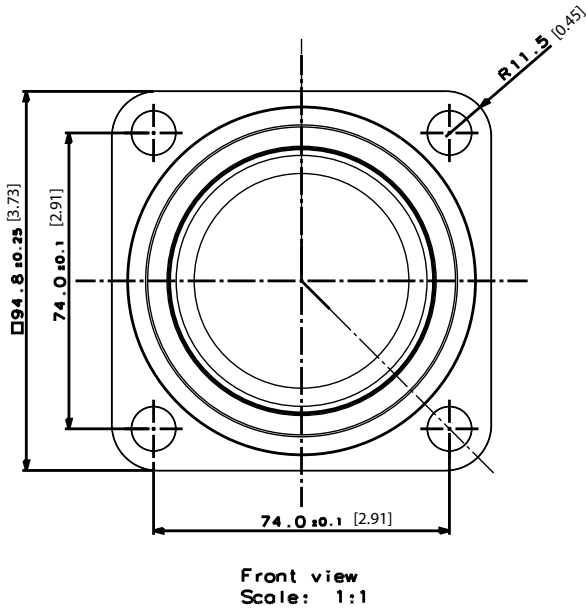
Discharge Flange

Applies To

TT500, TT700, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - DISCHARGE BRASS FLANGE FOR 2-5/8" COPPER PIPE	100254	ALL	Includes flange, screws, and washers



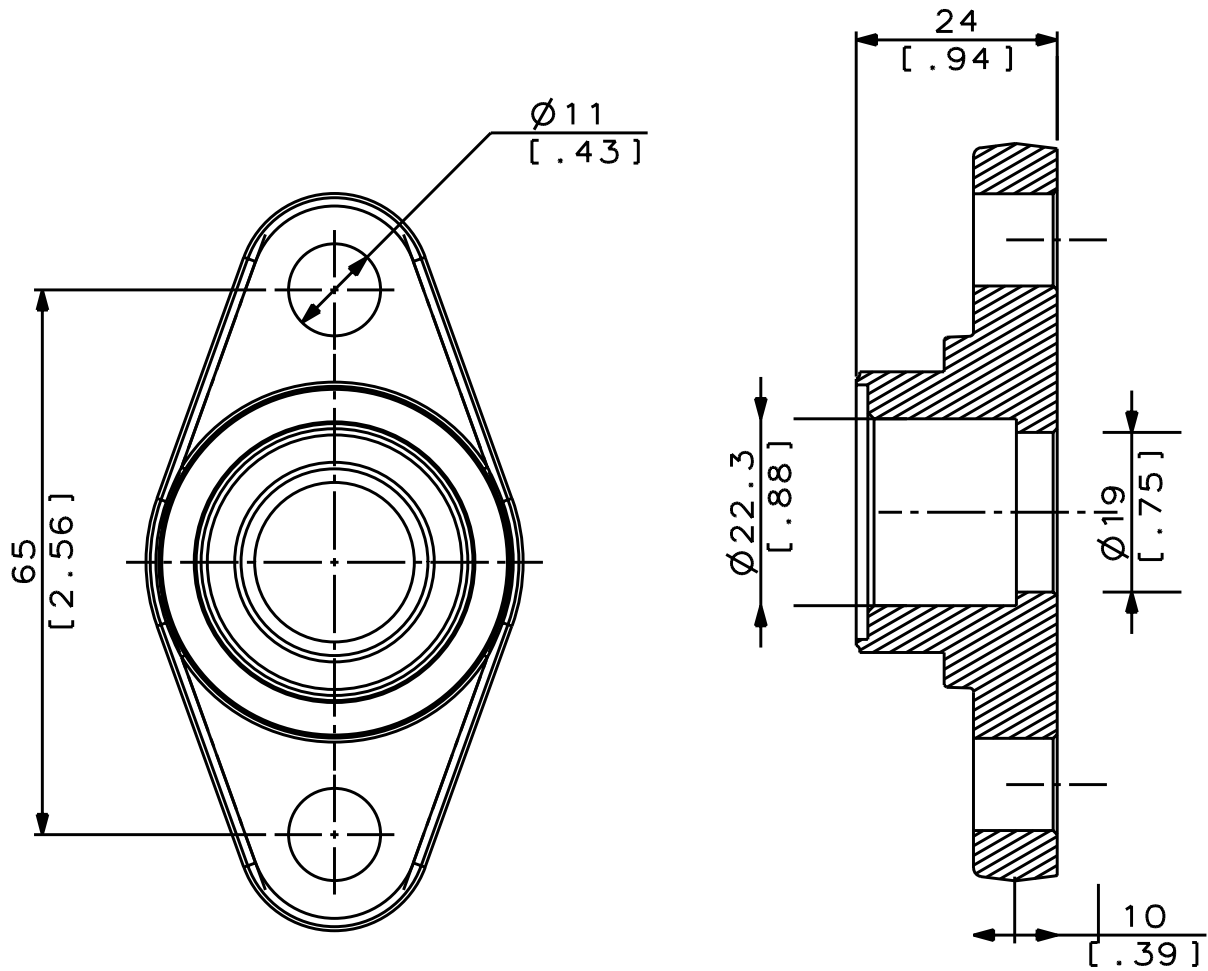
Economizer Flange

Applies To

TT300 (R134a), TG230

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - ECONOMIZER FLANGE 7/8" (BRASS)	100400	ALL	Includes flange, screws, and washers



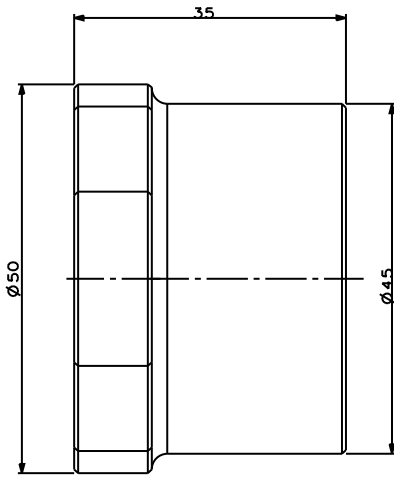
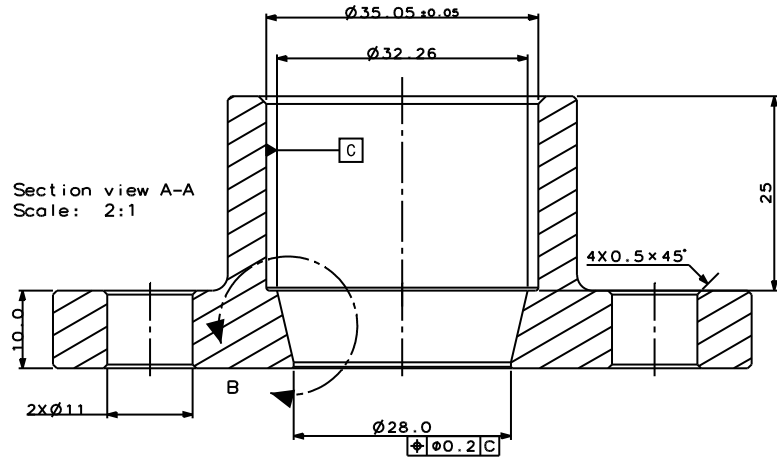
Economizer Flange

Applies To

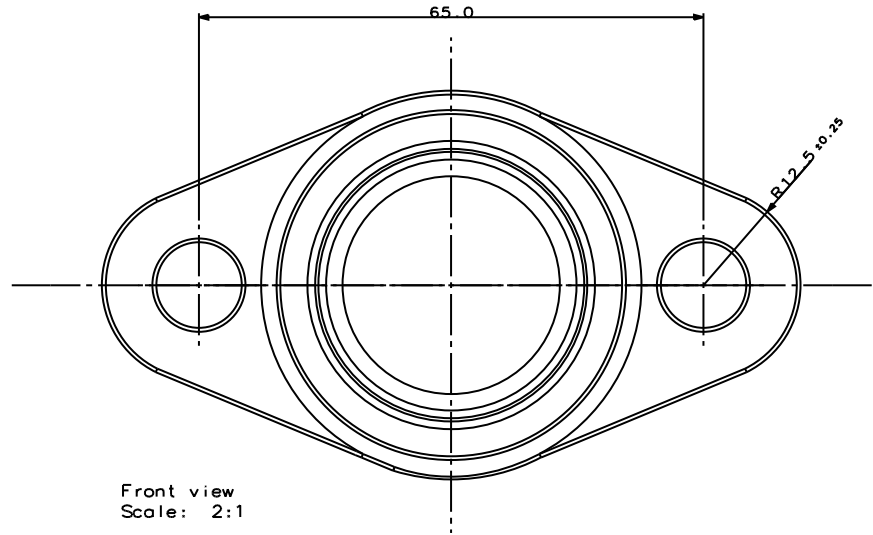
TT350, TT400, TT500, TT700, TG310, TG390, TG520

Ordering Info

DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - ECONOMIZER FLANGE 1 3/8" (BRASS)	100450-1	ALL	Includes flange, screws, and washers



Left view
Scale: 2:1



Front view
Scale: 2:1

Appendix D - Obsolete Kit Reference

PART NO.	OBSOLETE KIT		REPLACEMENT KIT	
	DESCRIPTION	OBSOLETE KIT APPLICATION	PART NO.	DESCRIPTION
100020	KIT - MODULE - SOFT START	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100020-6	KIT - MODULE SOFT START, REINFORCED UPGRADE (400V)	Use with: All 400V models except Rev P	100020-3	Except "-P compressors
100020-7	KIT - MODULE- SOFT START, REINFORCED UPGRADE (460V)	Use with: All 460V models except Rev P	100020-1	Except "-P compressors
100021	KIT - MODULE - BACKPLANE ASSEMBLY	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100023	KIT - MODULE - BEARING/MOTOR CONTROL			
100224	KIT - IGV HOUSING - TT300 (SIE, -N, R22)	Use with: TT300 SIE, -N	Kit no longer supported	
100224-4	KIT - IGV HOUSING - TT300 (SIE, -N, R22)	Use with: TT300 SIE, -N	Kit no longer supported	
100040-1	KIT - DC/DC CONVERTER ASSEMBLY 380V	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100040-3	KIT - DC-DC CONVERTER ASSEMBLY (575) Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see "Appendix A - SIE Conversion Kit" .	ALL 575V MODELS	100379	KIT - DC-DC
100040-4	KIT - DC/DC CONVERTER ASSEMBLY (SIE) 480 V	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100040-5	KIT - IGBT ASSEMBLY MANIFOLD COOLING TT400 C/W DC/DC CONVERTER Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see "Appendix A - SIE Conversion Kit"	ALL 400 & 460V MODELS	100379	KIT - DC-DC
100040-6	KIT- DC-DC CONVERTER ASSEMBLY (380V) Except compressors which contain Semi-Integrated Electronics (SIE). For compressors with SIE, see "Appendix A - SIE Conversion Kit"	ALL 380V MODELS	100379	KIT - DC-DC
100043-1	KIT - IGBT 310032 PARALLEL COOLING	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100043-2	KIT - IGBT 320032 SERIAL COOLING	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100043-5	KIT - IGBT ASSEMBLY MANIFOLD COOLING TT400 C/W DC/DC CONVERTER	Use with: TT350, TT400, TT500 Rev: -P, -A, -C, -E 460V	See Appendix A - SIE Conversion Kit .	
100043-6	KIT - IGBT MANIFOLD COOLING - 575V TT 300	Use with: TT300 Rev: -P 575V		
100043-8	KIT - IGBT ASSEMBLY - SEMIKRON SKiiP 613 GD123-3DUK 0370 TT400C 575V	Use with: TT350, TT400, TT500 Rev: -P, -A, -C, -E 380V, 400V, 460V, 575V		

Appendix D - Obsolete Kit Reference

OBSOLETE KIT		OBSOLETE KIT APPLICATION	REPLACEMENT KIT	
PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
100043-12	KIT - INVERTER ASSY 342	Use with: TT300, TG230 Rev: -N, -P, -C, -D, -E, -F	100521	KIT - INVERTER ASSY CONVERSION 342 to 613 SERIES
100044	KIT - BUS BAR ASSY AND CAPACITORS 6800µF (460V)	Use with: TT300, TG230 Rev: -N, -P, -C, -D, -E, -F	100044-7	Not compatible with Rev. G compressors unless kit 100521 is installed
100044-1	KIT - BUS BAR ASSY AND CAPACITORS 4700µF (575V)	Use with: TT300, TG230 Rev: -N, -P, -C, -D, -E, -F, -G	100044-8	Not compatible with Rev. G compressors unless kit 100521 is installed
100044-2	KIT - BUS BAR ASSY AND CAPACITORS 9000µF (400V)	Use with: TT300, TG230 Rev: -N, -P, -C, -D, -E, -F	100044-6	Not compatible with Rev. G compressors unless kit 100521 is installed
100044-3	KIT - BUS BAR ASSY AND CAPACITORS 8500µF (460V)	Use with: TT350, TT400, TT500, TT700, TG310, TG390, TG520 Rev: -P, -A, -C, -E, -F	100044-12	KIT - BUS BAR ASSY AND CAPACITORS 8500µF (460V)
100044-4	KIT - BUS BAR ASSY AND CAPACITORS 11000µF (380/400V)	Use with: TT400, TG390 Rev: -P, -A, -C, -E, -F	100044-11	KIT - CAPACITOR BANK ASSEMBLY, ADVANCED CAP 11000µF 350/400 VAC
100044-5	KIT - BUS BAR ASSY AND CAPACITORS 6800µF (575V)	Use with: TT400, TG390 Rev: -P, -C, -E, -F	100044-13	KIT - BUS BAR ASSY AND CAPACITORS 6800µF (575V)
100050-1	IGV - DRIVE ASSEMBLY AND O-RING TT300 (SIE,-N)	Use with: TT300 SIE, -N	Kit no longer supported	
100050-2	KIT - IGV - DRIVE ASSEMBLY AND O-RING - R134a EXTENDED RANGE	Use with: TT300 Rev: -P, -C, -D, -E Ref:R134a	100050-16	KIT - IGV - DRIVE ASSEMBLY AND O-RING TT300/ TG230
100050-7	KIT - IGV - HOUSING ASSEMBLY AND O-RING- TT-400C	Use with: TT400 Rev: -C, -E Ref: R134a	100050-17	KIT - IGV - DRIVE ASSEMBLY AND O-RING TT400/ TG390
100050-8	KIT - IGV - HOUSING ASSEMBLY AND O-RING- TT-500	Use with: TT500 Rev: -A, -E Ref: R134a	100050-18	KIT - IGV - DRIVE ASSEMBLY AND O-RING TT700/ TG520
100050-9	KIT - IGV - HOUSING ASSEMBLY TT-350	Use with: TT350 Rev: -A, -E Ref: R134a	100050-15	KIT - IGV - DRIVE ASSEMBLY AND O-RING TT350/ TG310

Appendix D - Obsolete Kit Reference

OBSOLETE KIT		OBSOLETE KIT APPLICATION	REPLACEMENT KIT	
PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
100053-1	KIT - COVER - CAPACITOR ASSEMBLY (BLUE- PAINTED) TT300	Use with: TT300 Rev: -N, -P, -C	100053-4	KIT - COVER CAPACITOR ASSY (BLUE)
100053-5	KIT CAPACITOR COVER ASSEMBLY		100053-6	Mains Input Cover Kits
100053-2	KIT - COVER - CAPACITOR ASSEMBLY (BLACK - PAINTED -OIL FREE)TT300		100053-3	KIT - COVER CAPACITOR ASSY (BLACK)
100054-1	KIT - COVER - TOP ASSEMBLY (BLUE - PAINTED) TT300		100054-4	KIT - COVER TOP ASSY (BLUE)
100054-5	KIT SERVICE SIDE COVER ASSEMBLY		100054-6	Service Cover Kits
100054-2	KIT - COVER - TOP ASSEMBLY (BLACK - PAINTED) TT300		100054-3	KIT - COVER TOP ASSY (BLACK)
100055-1	KIT - COVER - SERVICE SIDE ASSEMBLY (BLUE - PAINTED) TT300		100055-4	KIT - COVER SERVICE SIDE ASSY (BLUE)
100055-5	KIT TOP COVER ASSEMBLY		100055-6	Top Cover Kits
100055-2	KIT - COVER - SERVICE SIDE ASSEMBLY (BLACK - PAINTED-OIL FREE) TT300		100055-3	KIT - COVER SERVICE SIDE ASSY (BLACK)
100056-1	KIT - COVER - MAINS INPUT - ASSEMBLY (CONDUCTIVE PAINTED - BLUE) TT300		100056-4	KIT - COVER MAINS INPUT ASSY (BLUE)
100056-5	KIT MAINS INPUT COVER ASSEMBLY		100056-6	Capacitor Cover Kits
100056-2	KIT - COVER - MAINS INPUT-ASSEMBLY (CONDUCTIVE PAINTED - BLACK) TT300		100056-3	KIT - COVER MAINS INPUT ASSY (BLACK)
100058-2	KIT - CABLE HARNESS-ASY-COMPRESSOR-INTERFACE (SIE)		Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit ."
100062	KIT - CABLE HARNESS SOFTSTART AC/DC (SIE) TT300			
100076-2	KIT - PCB ASSEMBLY COMPRESSOR INT CONNECTOR (SIE)			
100150-3	KIT - COOLING VALVES ASSEMBLY -R134a, TT350 &TT500	Use with: TT350, TT500 Rev: -A, -E	100150-9	KIT - COOLING VALVES ASSY TT350 400/460V, TT500
100150-4	KIT - COOLING VALVES ASSEMBLY -R134a, TT400C	Use with: TT400 Rev: -C, -E, 380V, 400V, 460V	100150-10	KIT - COOLING VALVES ASSY TT400 380/400/ 460
100150-5	KIT - COOLING VALVES ASSEMBLY - R134a, TT400C 575C	Use with: TT400 Rev: -C, -E, 575V	100150-6	KIT - COOLING VALVES ASSEMBLY TT400 (575V), TG310
100150-7	KIT - COOLING VALVES ASSEMBLY -R134a, TT350, 380V	Use with: TT350 Rev: -A, -E, 380V	100150-11	KIT - COOLING VALVES ASSY TT350 380V
100151	KIT - SUCTION FLANGE (STEEL)	Use with: TT300, TT350, TT400 Ref: R134a	100151-1	KIT - SUCTION FLANGE (STEEL)
100153	KIT - DISCHARGE FLANGE (STEEL)	Use with: TT350, TT400, TG310, TG390	100153-1	KIT - DISCHARGE FLANGE (STEEL)

Appendix D - Obsolete Kit Reference

OBSOLETE KIT		OBSOLETE KIT APPLICATION	REPLACEMENT KIT	
PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
100169	KIT - ADAPTOR SCREEN FITTING ASSEMBLY	Use with: TT300, TT350, TT400, TT500 Rev: E	100169-1	KIT - COMPRESSOR COOLING ADAPTOR WITH STRAINER
100186	KIT-STRAINER-COOLING LINE ADAPTER, SCREEN FITTING		100186-1	KIT - STRAINER
100196-1	KIT-SENSOR-ASSEMBLY-TEMPERATURE-MOTOR ROTOR TT300,TT350 & TT400	Use with: TT300, TT350, TT400 Rev: -E	100196-3	KIT - SENSOR ASSY TEMPERATURE MOTOR ROTOR
100234	KIT - SOFT START COOLING FAN ASSEMBLY	Use with: All models	100373	KIT - COOLING FAN AND ADAPTOR ASSEMBLY
100272	KIT - MODULE COMPRESSOR CONTROLLER (SIE)	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100309	KIT - HEATSINK - COOLING MANIFOLD SCR ASSEMBLY	Use with: TT300 Rev: -N, -P, -A, -C, -D, -E Ref: R134a	100309-6	KIT - HEATSINK COOLING MANIFOLD SCR ASSEMBLY
100309-1	KIT - HEATSINK - COOLING MANIFOLD SCR ASSEMBLY (TT400)	Use with: TT350, TT400, TT500 Rev: -P, -A, -C, -E	100309-5	KIT - HEATSINK COOLING MANIFOLD SCR ASSEMBLY
100309-2	KIT - HEATSINK COOLING MANIFOLD SCR ASSEMBLY	Use with: TT300 Rev: -P	Kit no longer supported	
100309-3	KIT - DIODE HEATSINK - SERIAL COOLING (SIE)	Use with: TT300 SIE, -N, -P, -C	See Appendix A - SIE Conversion Kit .	
100309-4	KIT - DIODE HEATSINK - PARALLEL COOLING (SIE)			
100322-2	KIT - CABLE HARNESS COMPRESSOR CONTROLLER (SIE)			
100322-3	KIT - CABLE HARNESS COMPRESSOR CONTROLLER (SIE)			
100323-1	KIT - CABLE HARNESS COMPRESSOR DC SUPPLY(SIE)			
100326-1	KIT - CABLE HARNESS DC BUS TEST LEAD (SIE)			
100402	KIT - SUCTION FLANGE KIT (BRASS)			
100414	KIT - ECONOMIZER VALVE KIT 7/8"	Use with: TT300 Ref: R134a	Accessory kit no longer supported	
100450	KIT - ECONOMIZER FLANGE KIT 1 3/8" (BRASS)	Use with: all except TT300 and TG230	100450-1	KIT - ECONOMIZER FLANGE 1 3/8" (BRASS)
100455	KIT - SUCTION FLANGE 3 5/8" (BRASS)	Use with: TT500, TT700, TG520	100378	KIT-SUCTION BRASS FLANGE FOR 3-5/8" COPPER PIPE TT500 (EPDM O-ring)
100472	KIT - SUCTION STRAINER KIT	Use with: All models	Accessory kit no longer supported	

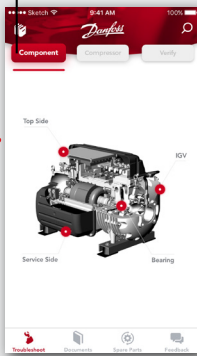


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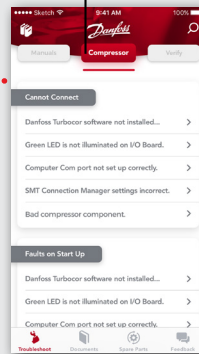
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24/7
Access to Danfoss TurboCor® compressor troubleshooting on site

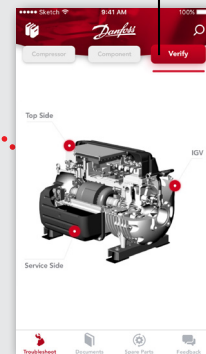
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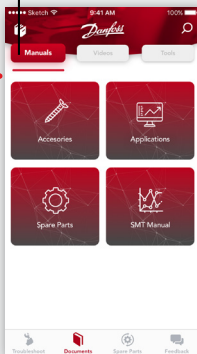


The app provides the correct operating parameters for key components: no need to keep reference documents on hand.

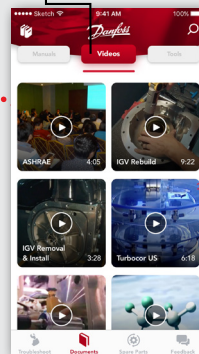


Troubleshoot

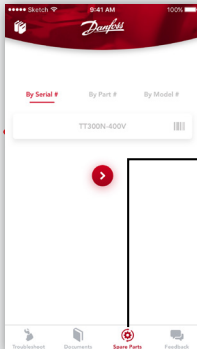
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