ENGINEERING TOMORROW



Spare Parts Selection Guide - Revision F.5

Danfoss Turbocor® Twin-Turbine Centrifugal Compressors

TTS/TGS/TTH/TGH Compressors





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List of Changes

Revision	Date	Page	Description of Change
			Added 575V Capacitor option
F.5	08-13-2021	63	Combined TTS350 and TTS400
			tables
F.5	08-13-2021	16	Updated last table



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Chapter 1.0 Introduction

1.1 Organization

The TTS, TGS, TTH, and TGH 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.

1.2 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.

1.3 Nomenclature

As of May 6, 2019, the product nomenclature changed. The following two illustrations provide examples of the two different formats. Additionally, the "Series" indicators have an additional character in order to differentiate the standard compressors from high-lift compressors. Unless the compressor is a high-lift design, an "S" will be added (e.g., TTS350). A high lift compressor will have an "H" in the Series designation (e.g., TTH375).

Figure 1-1 TT and TG Product Nomenclature After May 6, 2019

Conversion from Old Code to New Code TT300 - E - 1 - ST - G - O - CE Existing Product Series and Capacit e: The new code adds an "S" standard or "H" for High Lift Voltage Cod Applicatio Build **TTS300** S 1 S G 0 0 X **S123** Software **Mains Plate Size** Options I/O Board Options Reserved for **Future Options** Factory Type Custome Specific

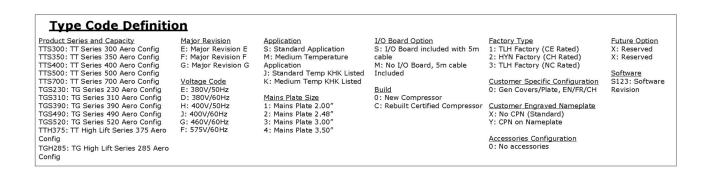
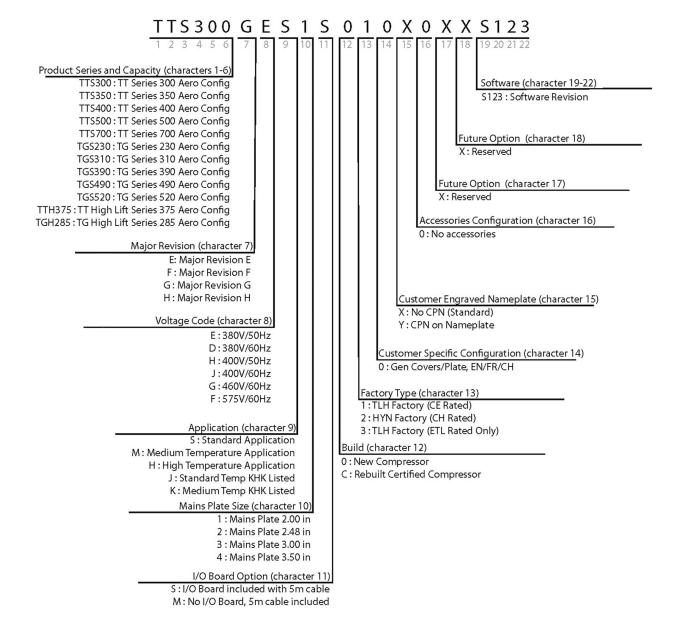




Figure 1-2 Conversion from Old Code to New Code

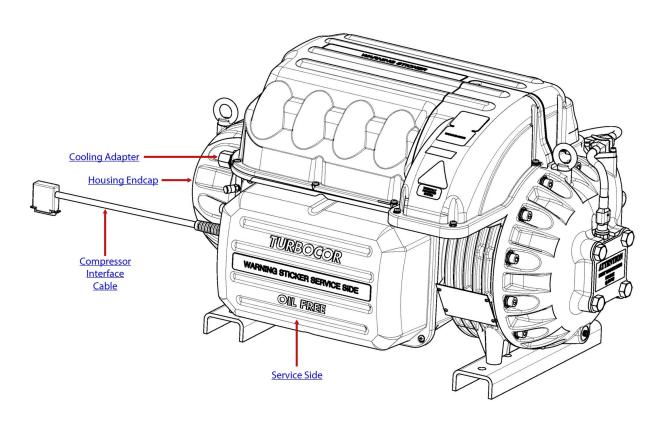
Turbocor TT/TG Series Type Code

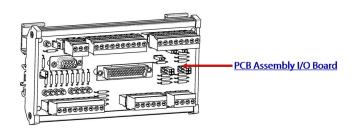




Chapter 2.0 External Components

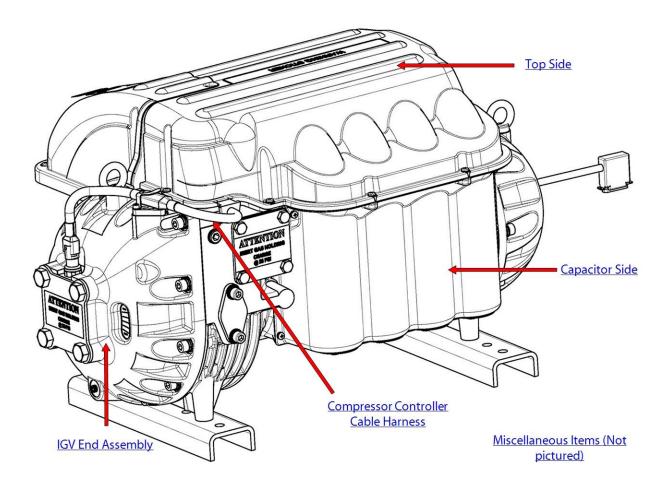
TTS/TGS Model





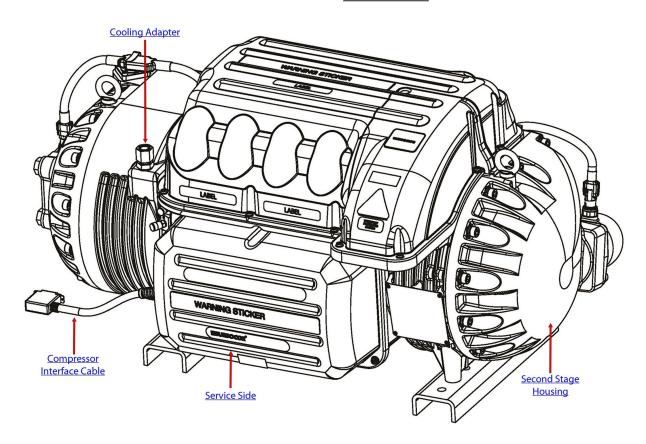


TTS/TGS Model



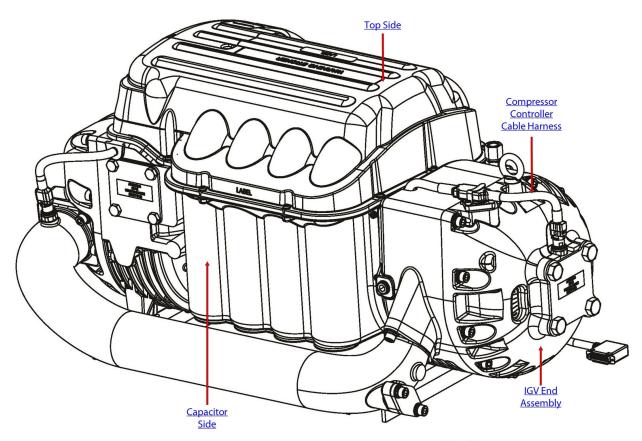


TTH/TGH Model





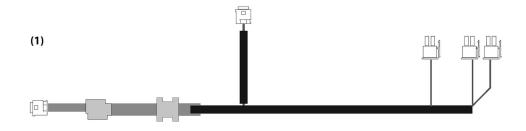
TTH/TGH Model

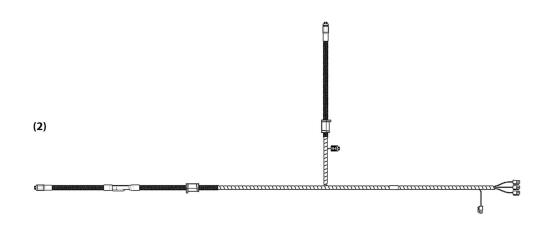


Miscellaneous Items (Not pictured)



2.1 Compressor Controller Cable Harness



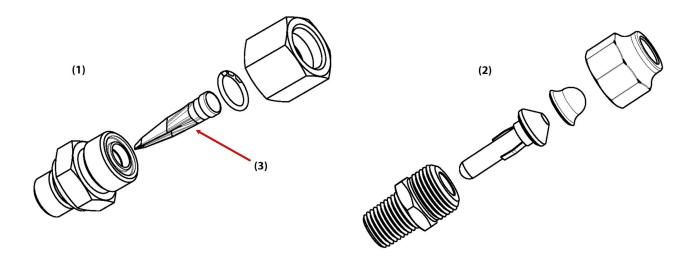


APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - CABLE HARNESS COMPRESSOR CONTROLLER	100322-5	-N, -P, -A, -C, -D, -E, -F, -G, -H	Cable Only	

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(2) KIT - CABLE HARNESS COMPRESSOR CONTROLLER	100322-4	-F, -H	Cable Only	



2.2 Cooling Adapter



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - COMPRESSOR COOLING ADAPTER WITH STRAINER	100169-1	-E, -F, -G, -H	Contains O-rings and strainer	
(3) KIT - STRAINER	100186-1	-E, -F, -G, -H	Replaces strainer and one O- ring	

APPLIES TO: TTS300				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(2) KIT – COMPRESSOR COOLING FITTING AND STRAINER ASSEMBLY	100215	-N, -P, -C, -D	Can be used with SIE models, do not use if compressor part number ends in "-3", includes strainer and nut	



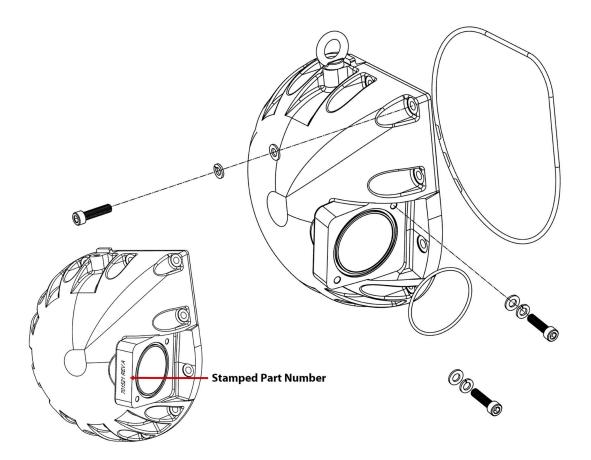
2.3 Housing End Cap



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520				
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	



2.4 Second Stage Housing

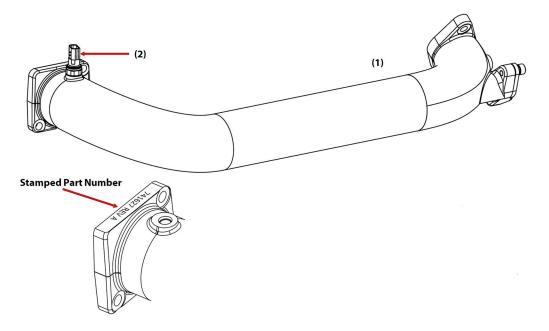


It is important to determine the version of Second Stage Housing that is currently installed on the compressor in order to identify the correct part number. There are two variants of Second Stage Housing and Interstage pipe and they are not interchangeable. Refer to the stamped part number on the Second Stage Housing flange that mates to the Interstage Pipe. When replacing early revision Second Stage Housings, the Interstage Pipe will also need to be replaced.

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT – SECOND STAGE HOUSING	100706-3	-F, -H	For Second Stage Housing part number 701521, also order kit 100703-3. For Second Stage Housing part number 741630, no other kit is required. Contains eyebolt, O-rings, and mounting hardware.	
KIT – O-RINGS SECOND STAGE HOUSING	100706-2	-F, -H	Contains O-rings and fasteners for Second Stage Housing, Interstage Pipe, and Economizer	



2.5 Interstage Pipe



It is important to determine the version of Interstage Pipe that is currently installed on the compressor in order to identify the correct part number. There are two variants of Second Stage Housing and Interstage pipe and they are not interchangeable. Refer to the stamped part number on the Interstage Pipe flange that mates to the Second Stage Housing. When replacing early revision Interstage Pipes, the Second Stage Housing will also need to be replaced.

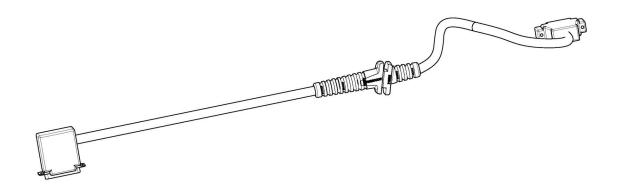
NOTE

If the part number on the Interstage Pipe is not visible, verify the Second Stage Housing part number. If the Second Stage Housing is part number, 701521, then kits **100703-3** and **100706-3** need to be purchased. If the Second Stage part number is 741630, then purchase kit **100703-3**.

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT – INTERSTAGE PIPE	100703-3	-F, -H	For Interstage Pipe part number 741627, also order kit 100706-3. For Interstage Pipe part number 741629, no other kit is required. Contains P/T Sensor, O-rings, and fasteners	
(2) KIT - SENSOR PRESSURE/TEMPERATURE HIGH SIDE	100037-1	-F, -H	Marked with a red spot and a green spot, contains O-ring	
KIT – INTERSTAGE PIPE O- RINGS and FASTENERS	100703-2	-F, -H	Contains Interstage Pipe and Economizer O-rings and fasteners	



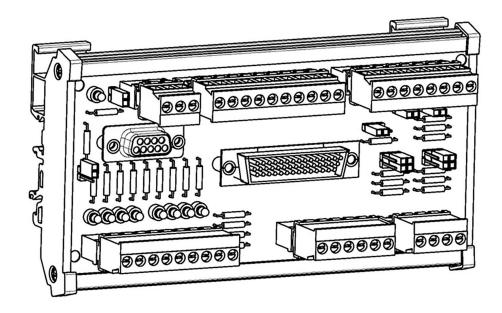
2.6 Compressor Interface Cable



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
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	



2.7 PCB Assembly I/O Board

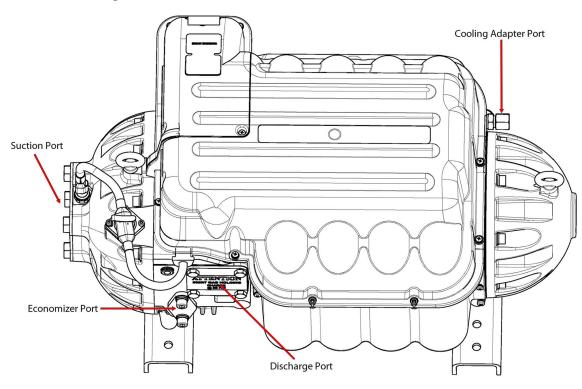


APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - PCB ASSY COMPRESSOR I/O	100076-1	ALL	PCB Only	



2.8 Miscellaneous Items





PPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
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	



Miscellaneous Items

Dielectric Grease



APPLIES TO: ALL COMPRESSORS			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
DIELECTRIC GREASE, 1.25 FL OZ	901982	ALL	1.25 fl. oz. tube of Grease Only

Refrigerant Stickers



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TTH375A			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - REFRIGERANT STICKER 513A	100374	-F, -G, -H	10 stickers



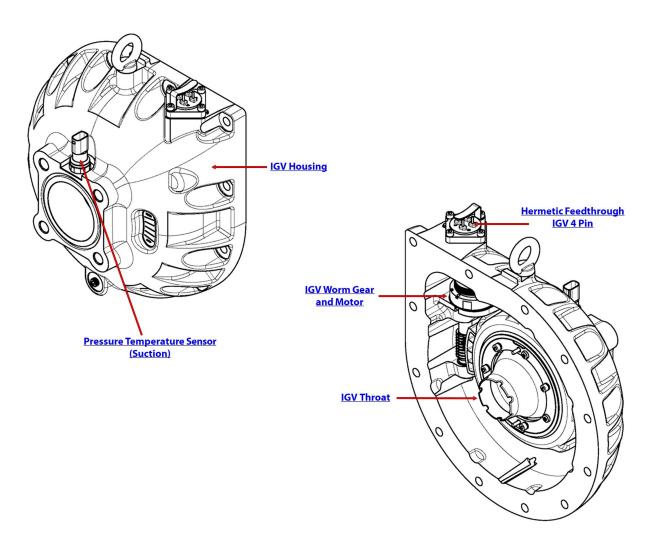
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Chapter 3.0 IGV End Assembly

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

IGV Drive Assembly





3.1 IGV Drive Assembly

APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT300/ TG230	100050-16	-P, -C, -D, -E, -F, -G, -H	Black IGV throat with thin rim, tall, plug

APPLIES TO: TTS350/TGS310				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT350/ TG310	100050-15	-A, -E, -F, -H	Blue IGV throat, plug	

APPLIES TO: TTS400/TGS390			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT400/ TG390	100050-17	-C, -E, -F, -H	Gold IGV throat, plug

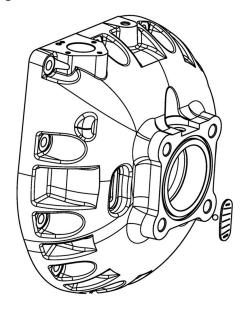
APPLIES TO: TGS490			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV - DRIVE ASSEMBLY AND O-RING TGS490	100050-25	-F, -H	Silver IGV throat, plug

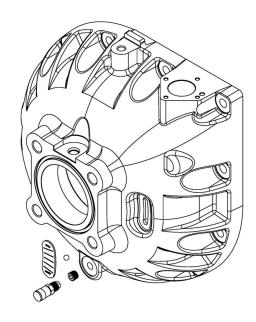
APPLIES TO: TTS500/TTS700/TGS520				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV - DRIVE ASSEMBLY AND O-RING TT700/ TG520	100050-18	-A, -E, -F, -H	Steel IGV throat, plug	

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV - DRIVE ASSEMBLY AND O-RING - TTH375/ TGH285	100050-19	-F, -H	Orange IGV throat, plug	



3.2 IGV Housing





APPLIES TO: TTS300/TTS350/TTS400/TGS230/TGS310/TGS390			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV HOUSING	100223	All	Contains Housing, IGV indicator, plug

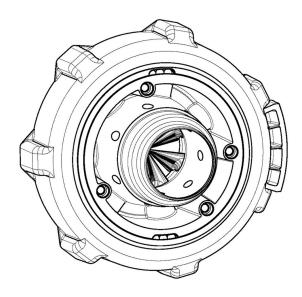
APPLIES TO: TTS500/TTS700/TGS520/TGS490			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV HOUSING TT500/TT700/TG520/TGS490	100229	All	Contains Housing, IGV indicator, plug

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV HOUSING	100223-5	All	Contains Housing, IGV indicator, O-rings, and fasteners	

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION PART NO. MAJOR REV COMMENT				
KIT - O-RING IGV ASSEMBLY	100051-1	All	Includes O-rings	



3.3 IGV Throat



APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT300/TG230	100227	-P, -C, -D, -E, -F, -G, -H	Do NOT use with R22, contains IGV throat assembly-black, thin rim

APPLIES TO: TTS350/TGS310			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT350/TG310	100228	-A, -E, -F, -H	Contains IGV throat assembly- blue

APPLIES TO: TTS400/TGS390			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT400/TG390	100231	-C, -E, -F, -H	Contains IGV throat assembly- gold

APPLIES TO: TTS500/TTS700/TGS520			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TT500/TT700/TG520	100232	-A, -E, -F, H	Contains IGV throat assembly- steel



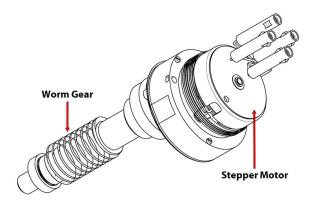
IGV Throat (continued)

APPLIES TO: TGS490			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGV THROAT - TGS490	100261	-F, -H	Contains IGV throat assembly- silver

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV THROAT - TTH375/TGH285	100704	-F, -H	Contains IGV throat assembly- orange, O-rings, and fasteners	



3.4 IGV Worm Gear and Motor



The Worm Gear Extractor Tool is required for the removal of the IGV Worm Gear. Refer to the Tools/Accessories Table below for the part number.

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV WORM GEAR SHAFT REPAIR	100222	ALL	Contains Worm Gear, Stepper Motor, Bearings, Collars and Clips	
KIT - IGV MOTOR SERVICE	100035-1	ALL	Includes Motor and O-rings	
KIT - O-RING IGV ASSEMBLY	100051-1	ALL	Includes O-rings	

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - IGV WORM GEAR SHAFT REPAIR	100705	ALL	Contains Worm Gear, Stepper Motor, Bearings, Collars, Clips, O-rings, and fasteners	
KIT - IGV MOTOR SERVICE	100035-2	ALL	Includes Stepper Motor, O- rings, and fasteners	
KIT - O-RING IGV ASSEMBLY	100051-1	ALL	Includes O-rings	

APPLIES TO: ALL COMPRESSORS				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - EXTRACTOR TOOL, WORM GEAR	100246	ALL	Worm Gear Extractor tool only	



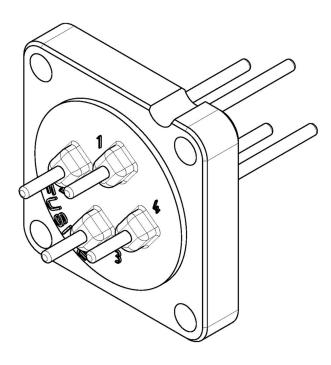
3.5 Pressure Temperature Sensor Suction



APPLIES TO: ALL COMPRESSORS				
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	



3.6 Hermetic Feedthrough IGV 4 Pin

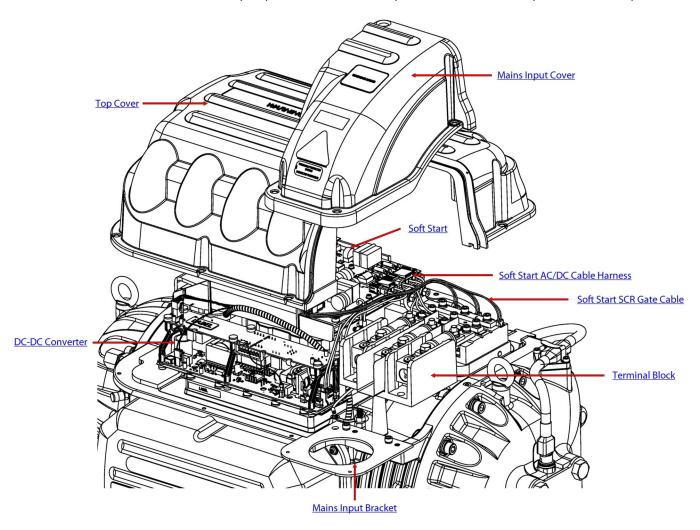


APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT- HERMETIC FEEDTHROUGH IGV 4PIN	100321-1	ALL	Includes O-ring, clamp, and fasteners

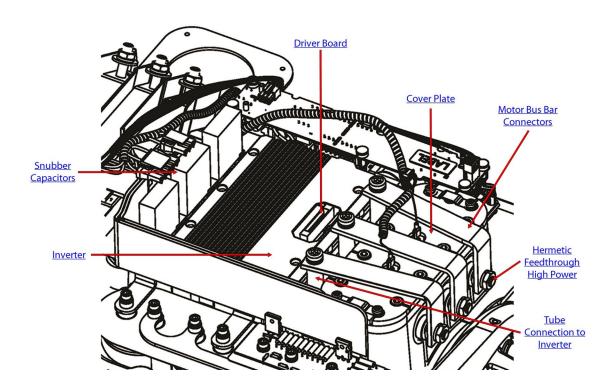


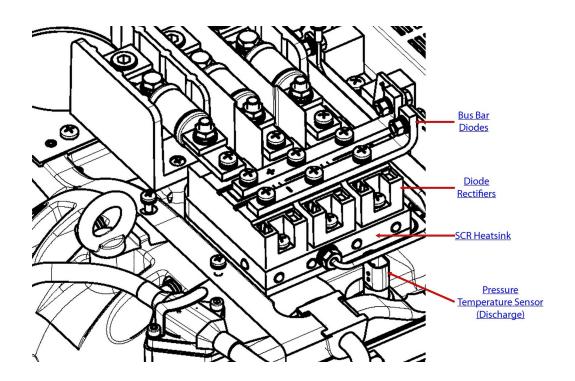
Chapter 4.0 Top Side

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



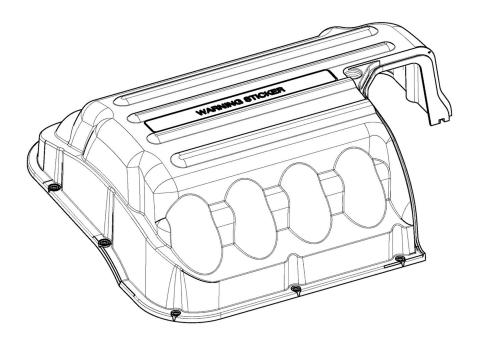








4.1 Top Cover



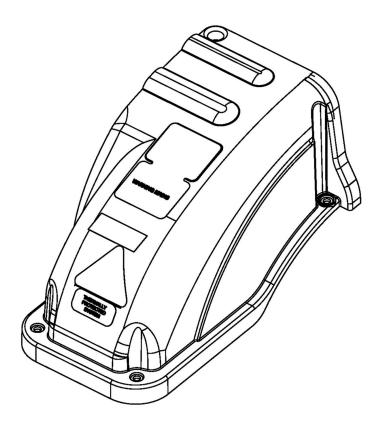
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TTH375			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER TOP ASSY (BLACK) EN/FR LABELS	100054-3	ALL	Includes fasteners

APPLIES TO: TGS230/TGS310/TGS390/TGS490/TGS520/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER TOP ASSY (GREEN)EN/FR LABELS	100054-6	ALL	Includes fasteners

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces fasteners for all four covers (24 fasteners)



4.2 Mains Input Cover



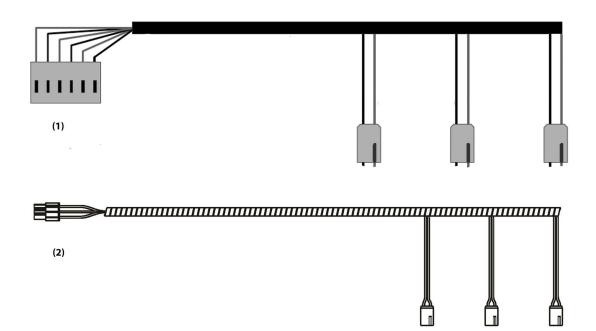
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TTH375			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER MAINS INPUT ASSY (BLACK) EN/FR LABELS	100056-3	ALL	Includes fasteners

APPLIES TO: TGS230/TGS310/TGS390/TGS490/TGS520/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER MAINS INPUT ASSY (GREEN) EN/FR LABELS	100056-6	ALL	Includes fasteners

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces fasteners for all four covers (24 fasteners)

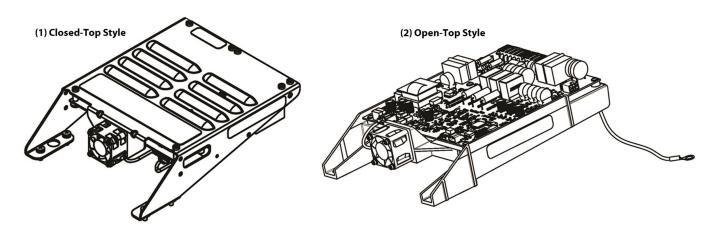


4.3 Soft Start SCR Gate Cable



It is important to determine the Soft Start that is currently installed on the compressor. Pre Rev H compressors may contain a Soft Start that has been upgraded to the Open-Top style. The two different style Soft Starts utilize a different connector, which requires a unique Soft Start SCR Gate Cable.

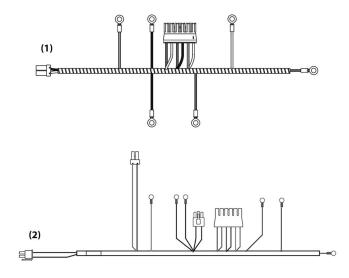
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - CABLE HARNESS SOFT START SCR GATE	100059	-N, -P, -C, -D, -E, -F, -G	Closed-Top Soft Starts (1) Includes cable only	
(2) KIT - CABLE HARNESS SOFT START SCR GATE	100059-1	-H	Open-Top Soft Start (2) Includes cable only	

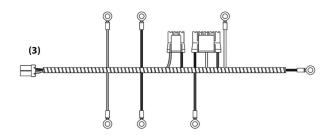


*The Open-Top style Soft Starts require a different Soft Start SCR Cable.



4.4 Cable Harness Soft Start AC/DC



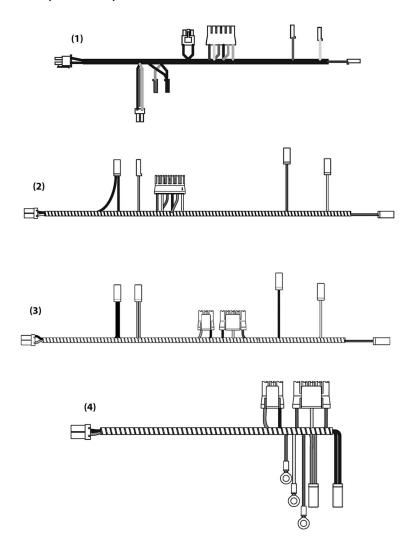


It is important to determine the Soft Start that is currently installed on the compressor, as well as the DC-DC and Bus Bars. Pre Rev H compressors may contain a Soft Start that has been upgraded to the Open-Top style and a DC-DC Converter that has been upgraded to the Open-Frame style. Each of these items will impact the required kit. Refer to the Comment section in the tables below to determine the appropriate kit for the existing compressor. Also, refer to the Soft Start section in this manual if you need assistance to identify the visual difference between the two types of Soft Starts.

APPLIES TO: TTS300*/TGS230 DESCRIPTION			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1 & 2) KIT-CABLE HARNESS SOFT START AC/DC	100380	-N, -P*, -C, -D, -E, -F, -G	Cable Only (Kits includes two cables in order to accommodate either DC-DC style)
(3) KIT-CABLE HARNESS SOFT START AC/DC	100380-1	-H	**Rev. G compressors can use this cable if they have the Open Frame DC-DC and the Open-Top Soft Start installed.



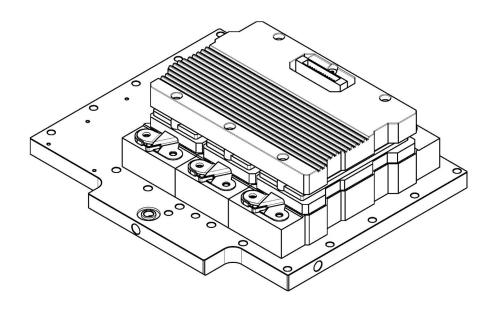
Cable Harness Soft Start AC/DC (continued)



APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1& 2) KIT-CABLE HARNESS SOFT START AC/DC	100381	-P*, -A, -C, -E, -F	Cable Only (Kits includes two cables in order to accommodate either DC-DC style)
(3) KIT-CABLE HARNESS SOFT START AC/DC	100381-2	-P*, -A, -C, -E, -F	Cable Only Soft Start (open-top style), Open Frame DC-DC, and Curved Bus Bars
(4) KIT-CABLE HARNESS SOFT START AC/DC	100381-1	-H	Cable Only Soft Start (open- top style), Open- Frame DC- DC, and Straight Bus Bars



4.5 Inverter



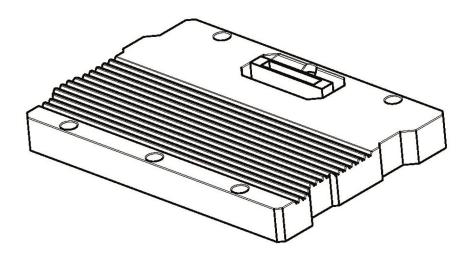
APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER ASSY 613 KIT – INVERTER ASSY CONVERSION 342 TO 613 SERIES	100521*	-N, -P, -C, -D, -E, -F	Includes motor bus bars, manifold insulator, fasteners, washers, and O-rings
KIT – INVERTER ASSY 613	100043-13*	-G, -H	Includes fasteners, washers and O-rings
KIT- O-RING INVERTER ASSY	100310-2	ALL	Replaces Inverter O-rings and fasteners

APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER ASSY 613	100043-11	-P, -A, -C, -E, -F, -H	Includes fasteners, washers, and O-rings
KIT- O-RING INVERTER ASSY	100310-1	ALL	Replaces Inverter O-rings and fasteners

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



4.6 Driver Board



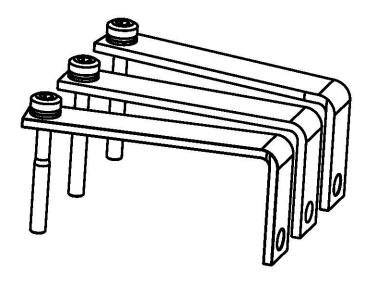
APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - INVERTER CONTROL CARD SKIIP 613 , TT300/TG230	100518-1*	-G, -H	Includes mounting fasteners and spring pins

APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - IGBT 613 DRIVER BOARD	100518	-P, -A, -C, -E, -F, -H	Includes mounting fasteners and spring pins

^{*}Refer to Customer Notification (B-CN-079-EN) - This kit is for TTS300/TGS230 Rev. G and later compressors or when Conversion Kit (100521) has already been applied



4.7 Motor Bus Bar Assembly Connectors



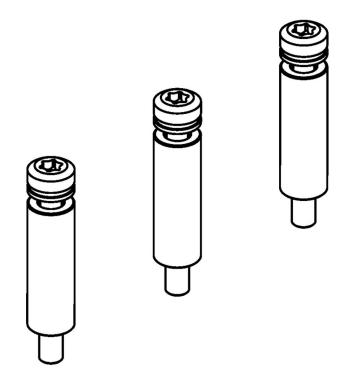
APPLIES TO: TTS300/TGS230				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313	-N, -P, -C, -D, -E, -F	Includes three bus bars and fasteners	
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313-1*	-G, -H	Includes three bus bars and fasteners	

APPLIES TO: TT350/TT400/TT500/TT700/TG310/TG390/TGS490/TG520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS ASSEMBLY CONNECTION MOTOR INVERTER	100313-1	-P, -A, -C, -E, -F, -H	Includes three bus bars and fasteners

^{*}Refer to Customer Notification (B-CN-079-EN) - This kit is for TTS300/TGS230 Rev. G and later compressors or when Conversion Kit (100521) has already been applied



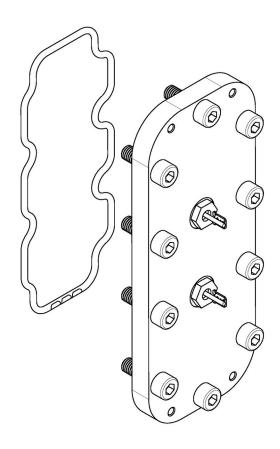
4.8 Tube Connection to Inverter



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - TUBE CONNECTION TO INVERTER	100311	ALL	Includes three tubes and fasteners



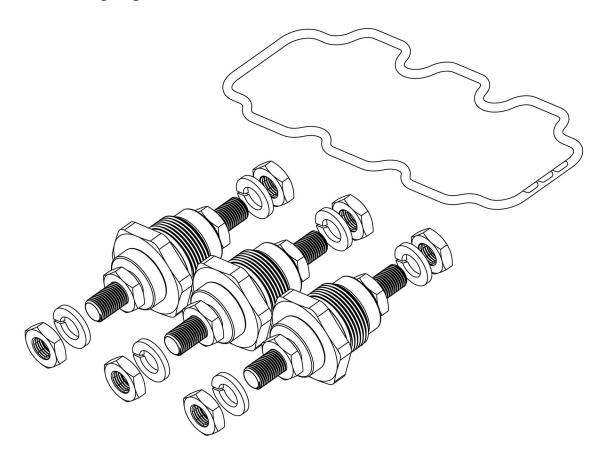
4.9 Cover Plate Assembly



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER PLATE ASSEMBLY	100314-2	ALL	Includes O-rings and fasteners
KIT- O-RING TOP PLATE ASSY	100315-1	ALL	Molded O-ring Only (shown)



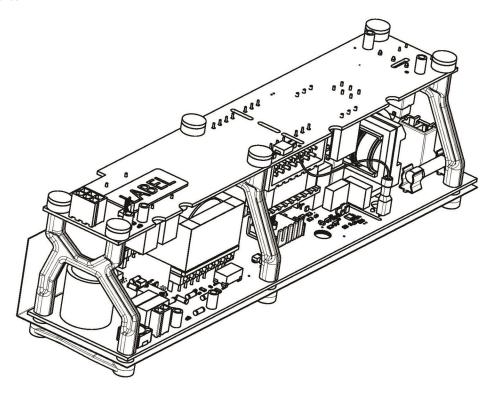
4.10 Hermetic Feedthrough High Power



APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
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)



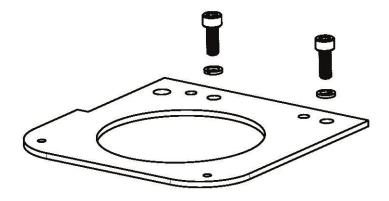
4.11 DC-DC Converter



APPLIES TO:TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION PART NO. MAJOR REV COMMENT				
KIT - DC-DC CONVERTER ASSEMBLY	100379	ALL	Includes fasteners	



4.12 Mains Input Bracket and Grounding Stud

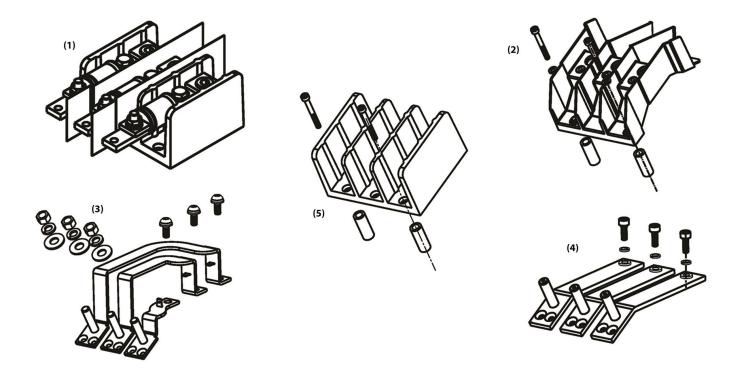


APPLIES TO:TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – BRACKET MAINS INPUT PLATE 2.0" DIAMETER	100216	ALL	Includes fasteners and washers
KIT – BRACKET MAINS INPUT PLATE 2.48" DIAMETER	100217	ALL	Includes fasteners and washers
KIT – BRACKET MAINS INPUT PLATE 3.0" DIAMETER	100218	ALL	Includes fasteners and washers
KIT – BRACKET MAINS INPUT PLATE 3.5" DIAMETER	100219	ALL	Includes fasteners and washers
KIT – MAIN INPUT GROUND POST	100519 *	ALL	Includes fasteners and washers

^{*} Not pictured



4.13 Terminal Block Assembly

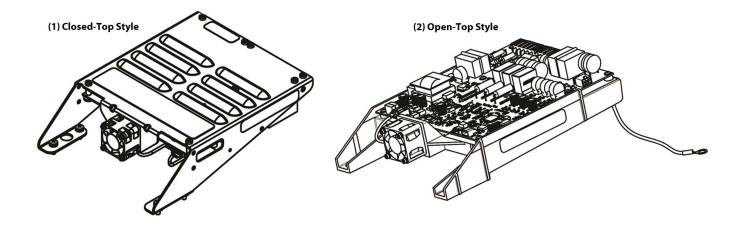


APPLIES TO: TTS300/TGS230				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - TERMINAL BLOCK MAINS AND FUSE ASSY	100048-2	-N, -P, -C, -D, -E, -F ,-G, -H	Replaces Terminal Block assembly, includes fuses, insulator, fuse extension, fasteners, and connectors	
KIT – FUSE CLASS T-FAST ACTING A6T 175	100344	-N, -P, -C, -D, -E, -F ,-G, -H	Replaces the three fuses in the terminal block assembly	

APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(3) KIT - INPUT MAINS BUS BARS (CURVED)	100416	-A, -C, -E, -F	Includes three Bus Bars and fasteners
(4) KIT - INPUT MAINS BUS BARS (STRAIGHT)	100416-1	-н	Includes three Bus Bars and fasteners
(5) KIT - TERMINAL POWER BLOCK ASSY	100048-1	-A, -C, -E, -F	Replaces Terminal Block, fasteners, and spacers
(2) KIT - TERMINAL POWER BLOCK ASSY	100048-3	-Н	Replaces Terminal Block, Bus Bars, fasteners, and spacers



4.14 Soft Start Assembly



It is important to determine the DC-DC that is currently installed on the compressor prior to purchasing a new Soft Start.

Please refer to the detail in the Comment column below to determine the appropriate kit or other required cables.

APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - MODULE SOFT START UPGRADE (Conversion to Open-Top Style)	100020-19	-N, -P, -C, -D, -E, -F	Includes Soft Start, DC-DC, Soft Start AC/DC Cable, Soft Start SCR Gate Cable, and fasteners
KIT - MODULE SOFT START (Open-Top Style)	100020-18	-G**, -H	**Rev G compressors with Potted DC-DC require Soft Start Upgrade Kit (100020- 19) instead **Rev G Compressors with Open Frame DC-DC require cables 100380-1 and 100059-1 in addition to this kit



Soft Start Assembly (continued)

APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - MODULE SOFT START UPGRADE (Conversion to Open-Top Style)	100020-20	-P, -A, -C, -E	Includes Soft Start, DC-DC, Soft Start AC/DC Cable, Soft Start SCR Gate Cable, and fasteners	
			Includes fasteners	
KIT - MODULE SOFT START (Open-Top Style)	100020-18	-F**, -H	**Rev F compressors with Potted DC-DC require Soft Start Upgrade Kit (100020- 20) instead ** Rev F Compressors with Open Frame DC-DC requires	
			cables 100381-2 and 100059-1 in addition to this kit	

APPLIES TO: TT300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COOLING FAN AND ADAPTOR ASSEMBLY	100373-1	ALL	(three wire connector) Includes adaptor and fasteners



4.15 Soft Start Fuses

This section only applies to Closed-Top Soft Starts as the Open-Top Soft Starts contain non-removable resettable fuses.

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/ TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - FUSES (FIE) SOFT START	100317-1	-N, -P, -A, -C, -D, -E, -F ,-G	Fuses included: QTY 3 - 2A HVA (F1), QTY 3 - 2A SPF (F1), QTY 10 - 1A Nano (F3, F6), QTY 10 - 0.25A Nano (F2), and QTY 6 - 0.25A Midget (F4, F5)
KIT – FUSES (FIE) SOFT START	100317-2	-F ,-G	For Soft Starts Rev Q and later, Fuses included: QTY 3 - 2A SPF (F1), QTY 10 - 1A Nano (F3, F6), QTY 10 - Nano 0.25A (F2), and QTY 6 - 0.25A Midget (F4, F5)
KIT- FUSE FAST ACTING NANO SMF 0.25A 125V (FIE) (F2)	100430	-N, -P, -A, -C, -D, -E, -F ,-G	Includes 10 fuses
KIT- FUSE SMF 0.25A 600V MIDGET TIME-DELAY CC (FIE)	100432	-N, -P, -A, -C, -D, -E, -F ,-G	Includes six (6) fuses
KIT - FUSE NANO SMF 1A 125V (FIE) (F3, F6)	100433	-N, -P, -A, -C, -D, -E, -F ,-G	Includes 10 fuses

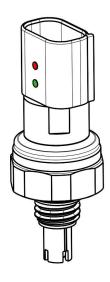
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT-FUSE 2A 1000V HVA 3" (F1)	100421	-N, -P, -A, -C, -D, -E	For Soft Starts rev P and earlier, includes three (3) fuses
KIT – FUSE 2A FAST ACTING 1000V SPF (F1)	100422	-F ,-G	For Soft Starts rev Q and later, includes three (3) fuses

APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT – FUSES (FIE) SOFT START	100317-2	ALL	Fuses included: QTY 3 - 2A SPF (F1), QTY 10 - 1A Nano (F3, F6), QTY 10 - Nano 0.25A (F2), and QTY 6 - 0.25A Midget (F4, F5)	
KIT – FUSE 2A FAST ACTING 1000V SPF (F1)	100422	ALL	Includes three (3) fuses	

^{*}Open-Top Soft Starts contain resettable fuses that do not require replacement.



4.16 Pressure Temperature Sensor Discharge

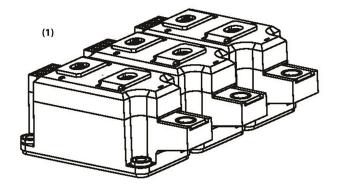


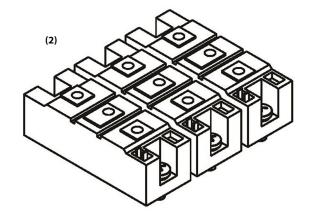
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
*KIT – SENSOR PRESSURE/TEMPERATURE HIGH SIDE	100037-1	ALL	Marked with a red spot and a green spot, contains O-ring

 $^{^{\}ast}$ Also replaces the TTH/TGH compressor Interstage Pressure/Temperature Sensor.



4.17 Diode Rectifiers





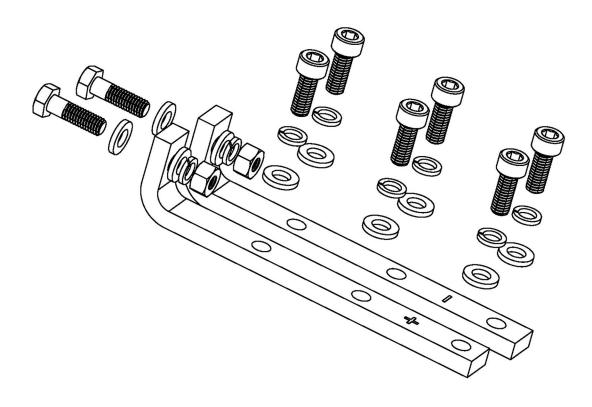
APPLIES TO: TTS300/TGS230				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(2) KIT DIODE DECTIFIEDS	100047.1	N D C D E E C II	Includes fasteners	
(2) KIT - DIODE RECTIFIERS	100047-1	-N, -P, -C, -D, -E, -F , -G, -H	*Not interchangeable with Kit 100047-3	

APPLIES TO: TTS350/TTS500/TTS700/TGS310/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - DIODE RECTIFIERS	100047-2	-P, -A, -C, -E, -F	Includes fasteners
(2) KIT - DIODE RECTIFIERS	100047-3	-H	Includes fasteners *Not interchangeable with Kit 100047-1

APPLIES TO: TTS400/TGS390			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - DIODE RECTIFIERS	100047-2	-P, -A, -C, -E, -F	Includes fasteners
			Includes fasteners
(2) KIT - DIODE RECTIFIERS	100047-1	-н	*Not interchangeable with Kit 100047-3



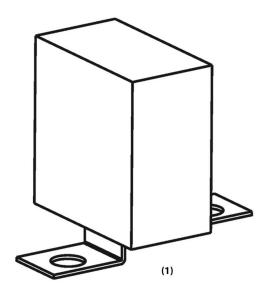
4.18 Bus Bar Diodes

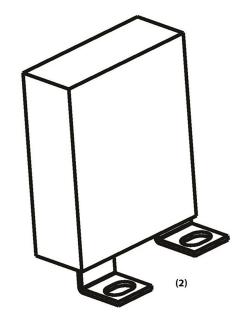


APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - BUS BAR DIODE	100316	ALL	Includes positive and negative Bus Bars, and fasteners



4.19 Snubber Capacitors





APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT – CAPACITOR INVERTER SNUBBER, 0.47Y1000	100417	ALL	Includes three snubbers and fasteners

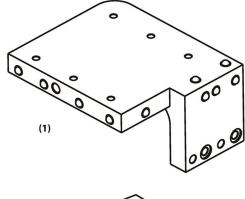
APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT – CAPACITOR INVERTER SNUBBER, 0.47Y1000	100417	-P, -A, -C, -E, -F	Includes three snubbers and fasteners	
(2) KIT – CAPACITOR INVERTER SNUBBER, 0.47X1250	100417-1	-H	Includes three snubbers and fasteners (Not for use on High SST Models)	

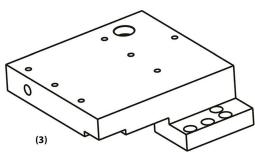
APPLIES TO: TTS350/TTS400/TTS700/TGS310/TGS390/TGS490/TGS520 HIGH SST MODELS			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT – CAPACITOR INVERTER SNUBBER, 0.47Y1000	100417	-H	Includes three snubbers and fasteners (High SST Models)

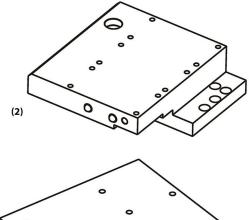
	NOTE
Snubber capacitors should always be replaced as a kit.	

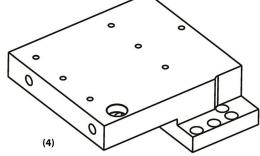


4.20 SCR Heatsink Assembly







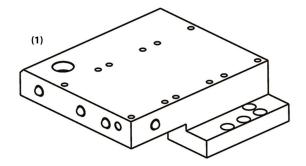


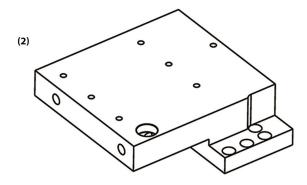
APPLIES TO: TTS300/TGS230				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-11	-N, -P, -C, -D, -E, -F ,-G, -H	Includes O-rings and fasteners *(sensor not applicable)	
KIT- O-RING INVERTER ASSY	100310-2	ALL	Replaces Inverter and SCR Heatsink Manifold O-rings and fasteners	

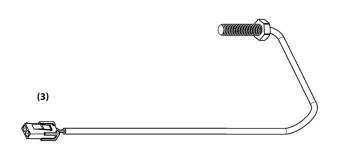
TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(2) KIT - HEATSINK - COOLING MANIFOLD SCR ASSY (TT350) NO SENSOR	100309-13	-P, -A, -C, -E, -F	Includes O-rings and fasteners *(sensor not applicable)	
(3) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-9	-H	Includes O-rings and fasteners (sensor not applicable)	
(4) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	*100309-8	-H	High SST Option Includes O- rings and fasteners - *requires additional components*	
KIT- O-RING INVERTER ASSY	100310-1	ALL	Replaces Inverter and SCR Heatsink Manifold O-rings and fasteners	



SCR Heatsink Assembly (continued)







APPLIES TO: TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-7	-F	Includes O-rings and fasteners *Not interchangeable with Kit 100309-8	
(2) KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	100309-8	-H	Includes O-rings and fasteners *Not interchangeable with Kit 100309-7	
KIT- O-RING INVERTER ASSY	100310-1	ALL	Replaces Inverter and SCR Heatsink Manifold O-rings and fasteners	

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(3) KIT – TEMPERATURE SENSOR SCR	100268	-N, -P, -A, -C, -D, -E, -F , -G Includes washers	Includes washers *Will not work in Rev H compressors

NOTE	
The SCR Temperature Sensor is not required on Revision H compressors.	

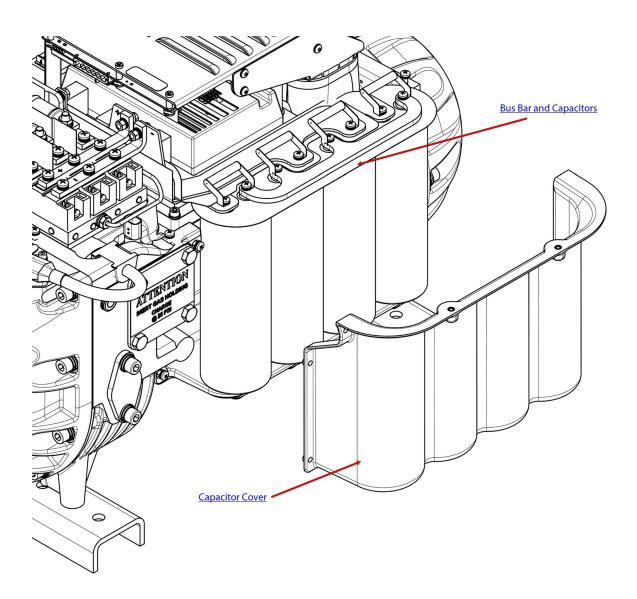


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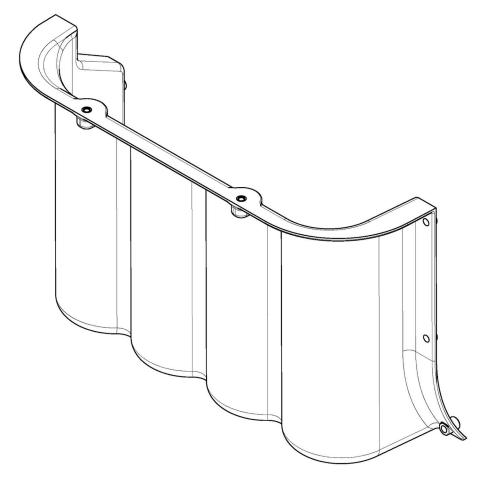
Chapter 5.0 Capacitor Side

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





5.1 Capacitor Cover



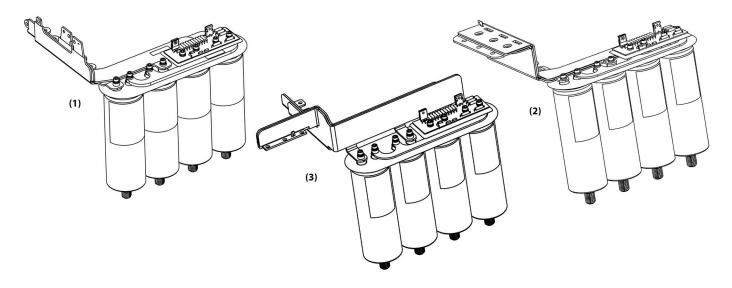
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TTH375				
DESCRIPTION PART NO. MAJOR REV COMMENT				
KIT - COVER CAPACITOR ASSY (BLACK)	100053-3	ALL	Includes fasteners	

APPLIES TO: TGS230/TGS310/TGS390/TGS490/TGS520/TGH285				
DESCRIPTION PART NO. MAJOR REV COMMENT				
KIT - COVER CAPACITOR ASSY (GREEN)	100053-6	ALL	Includes fasteners	

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces fasteners for all four covers (24 fasteners)



5.2 Bus Bar and Capacitor Assembly



APPLIES TO: TTS300/TGS230			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - BUS BAR ASSY AND CAPACITORS 6800µF (460V)	100044-7	-N, -P, -C, -D, -E, -F, -G, -H	For use with 460V models, includes nylon nuts
(1) KIT - BUS BAR ASSY AND CAPACITORS 4700μF (575V)	100044-8	-N, -P, -C, -D, -E, -F, -G, -H	For use with 575V models, includes nylon nuts
(1) KIT - BUS BAR ASSY AND CAPACITORS 9000µF (380/400V)	100044-6	-N, -P, -C, -D, -E, -F, -G, -H	For use with 380/400V models, includes nylon nuts

PPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(2) KIT - BUS BAR ASSY AND CAPACITORS 11000µF (380/400V)	100044-11	-P, -A, -C, -E, -F	For use with 380V and 400V models, includes nylon nuts
(3) KIT - BUS BAR ASSY AND CAPACITORS 11000µF (380/400V)	100044-14	-Н	For use with 380V and 400V models, includes nylon nuts
(2) KIT - BUS BAR ASSY AND CAPACITORS 6800µF (575V)	100044-13	-C, -E, -F	For use with 575V models, includes nylon nuts
(3) KIT - BUS BAR ASSY AND CAPACITORS 6800µF (575V)	100044-16	-H	For use with 575V models, includes nylon nuts
(2) KIT - BUS BAR ASSY AND CAPACITORS 8500µF (460V)	100044-12	-P, -A, -C, -E, -F	For use with 460V models, includes nylon nuts
(3) KIT - BUS BAR ASSY AND CAPACITORS 8500µF (460V)	100044-15	-H	For use with 460V models, includes nylon nuts

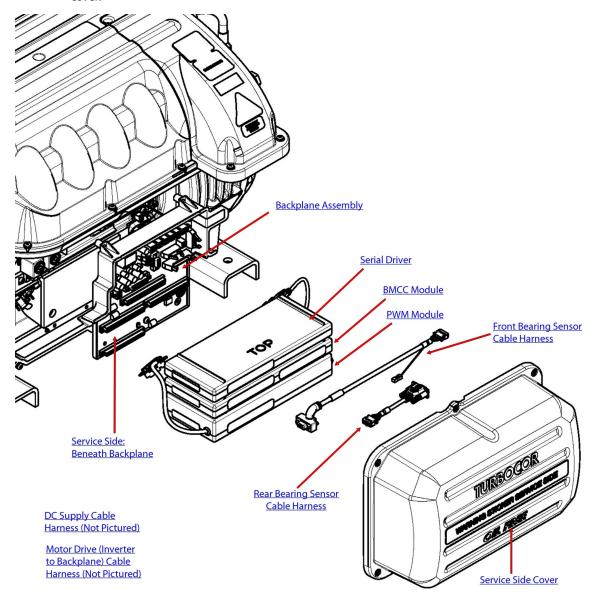


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Chapter 6.0 Service Side

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





6.1 Cover



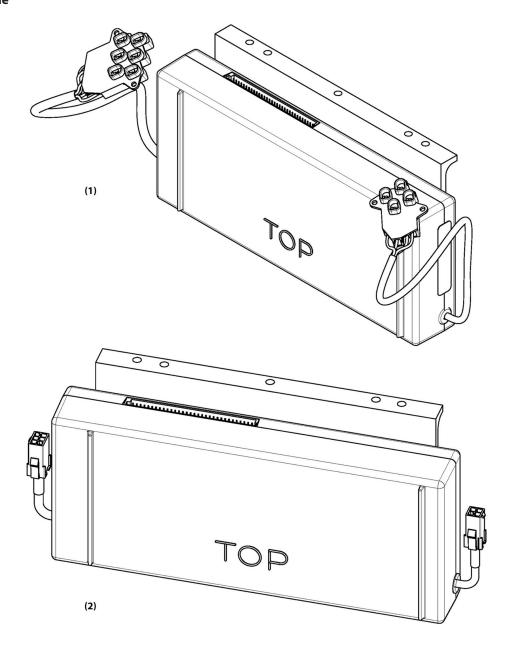
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TTH375			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER SERVICE SIDE ASSY (BLACK) EN/FR Labels	100055-3	ALL	Includes fasteners

APPLIES TO: TGS230/TGS310/TGS390/TGS490/TGS520/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVER SERVICE SIDE ASSY (GREEN) EN/FR Labels	100055-6	ALL	Includes fasteners

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TG390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - COVERS SCREW M5 (P/H STAINLESS STEEL)	100252	ALL	Replaces fasteners for all four covers (24 fasteners)



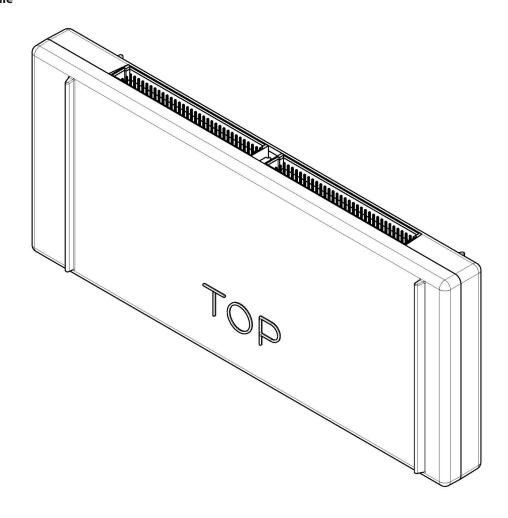
6.2 PWM Module



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/ TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - MODULE BEARING PWM	100022	-N, -P, -A, -C, -D, -E	Includes fasteners
(2) KIT - MODULE BEARING PWM	100372	-F ,-G, -H	Includes fasteners



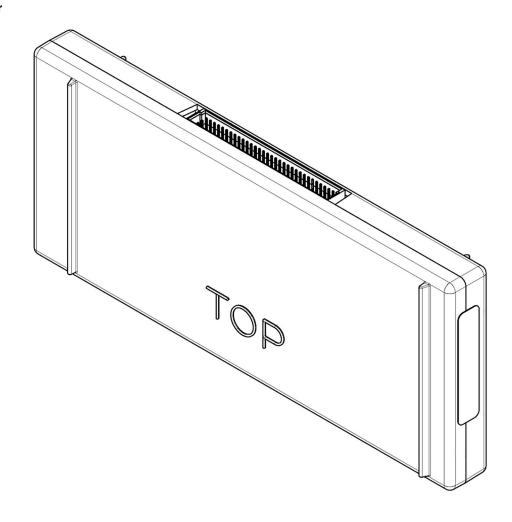
6.3 BMCC Module



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
BEARING MOTOR COMPRESSOR CONTROL (BMCC)	201055- xxxxxxx-xxx	ALL	Specific compressor software part number used in place of -



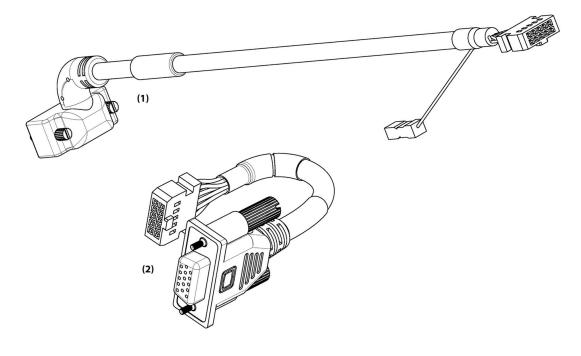
6.4 Serial Driver



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT – MODULE SERIAL DRIVER	100292	ALL	Serial Driver Only



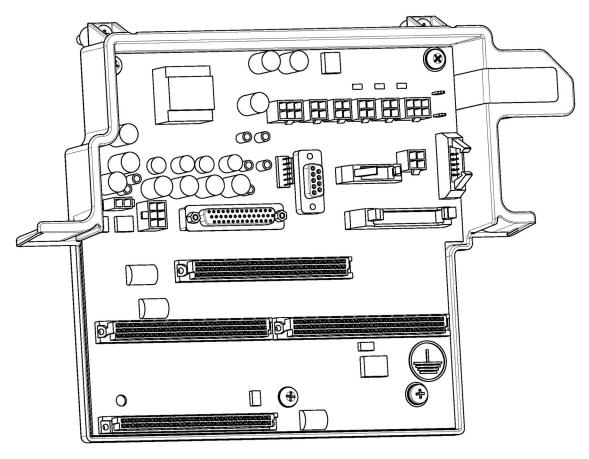
6.5 Rear/ Front Bearing Sensor Cable Harness



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
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



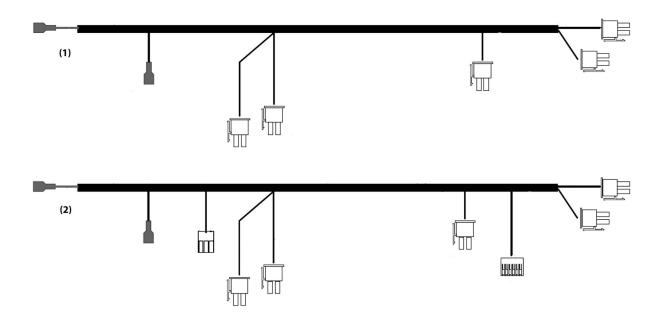
6.6 Backplane Assembly



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - CABLE HARNESS REAR BEARING SENSOR	100021-1	ALL	Includes screws and washers



6.7 DC Supply Cable Harness



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
(1) KIT - CABLE HARNESS DC- DC TO BACKPLANE	100323	-N, -P, -A, -C, -D, -E	Cable Only
(2) KIT – CABLE HARNESS DC- DC TO BACKPLANE SS TEMP	100323-2	-F, -G, -H	Cable Only



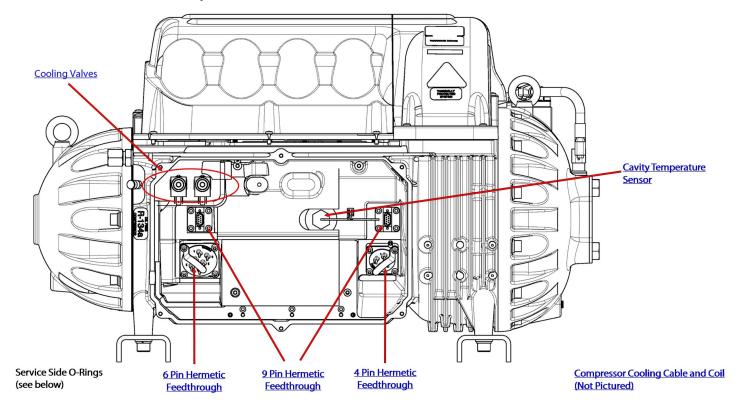
6.8 Motor Drive (Inverter to Backplane) Cable Harness



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
KIT - CABLE HARNESS MOTOR DRIVER (INVERTER TO BACKPLANE)	100061	ALL	Cable Only		



6.9 Service Side Beneath Backplane



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
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 (Excludes R22)	
KIT - O-RING SOLENOID ORIFICE	100242	ALL	Only replaces cooling valve O- rings (Excludes R22)	



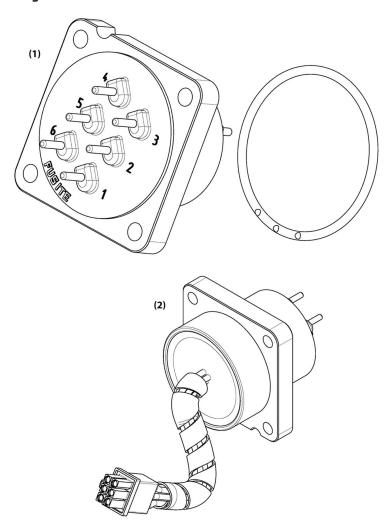
6.10 Compressor Cooling Cable and Coil Assembly



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285						
DESCRIPTION	PART NO. MAJOR REV COMMENT					
KIT - CABLE HARNESS MOTOR- COOLING AND COIL ASSY	100063-1	ALL	Includes nut and washer			



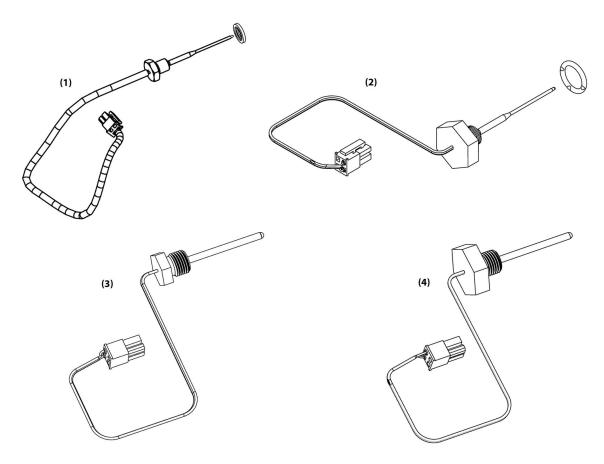
6.11 6 Pin Hermetic Feedthrough



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - HEREMETIC FEEDTHROUGH 6 PIN	100294-1	-N, -P, -A, -C, -D, -E	Includes O-ring and fasteners (excludes R22)	
(2) KIT - HEREMETIC FEEDTHROUGH 6 PIN	100371	-F, -G, -H	Includes O-ring and fasteners (excludes R22)	



6.12 Cavity Temperature Sensor/ Motor Rotor

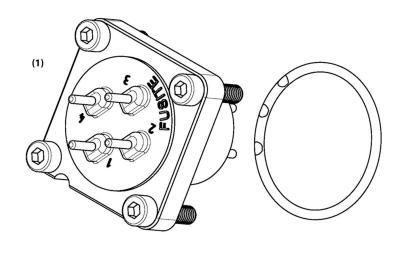


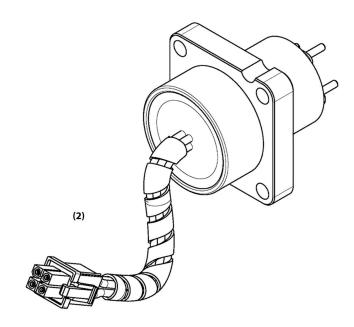
APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT – CAVITY TEMPERATURE SENSOR TT300, TT350, AND TT400	100034	-N, -P, -A, -C, -D	Do not use if compressor PN ends in "-3", Can be used with SIE models, Sensor Only (excludes R22)	
(2) KIT - SENSOR ASSY TEMPERATURE MOTOR ROTOR	100196-3	-E, -F, -G, -H	Also use if compressor part number ends in "-3", Includes O-ring (excludes R22)	

APPLIES TO: TTS500/TTS700/TGS520					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
(1) KIT – CAVITY TEMPERATURE SENSOR TT300, TT350, AND TT400	100034-1	-A	Do not use if compressor PN ends in "-3", Includes O-ring (excludes R22)		
(4) KIT - SENSOR ASSY TEMPERATURE MOTOR ROTOR	100196-4	-E, -F, -G, -H	Also use if compressor part number ends in "-3", includes O-ring		



6.13 4-Pin Hermetic Feedthrough

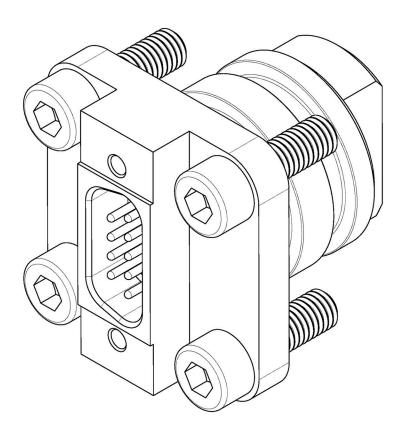




APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
(1) KIT - HERMETIC FEEDTHROUGH 4 PIN	100293-1	-N, -P, -A, -C, -D, -E	Includes O-ring and fasteners (excludes R22)	
(2) KIT - HERMETIC FEEDTHROUGH 4 PIN	100370	-F, -G, -H	Includes O-ring and fasteners (excludes R22)	



6.14 9-Pin Hermetic Feedthrough

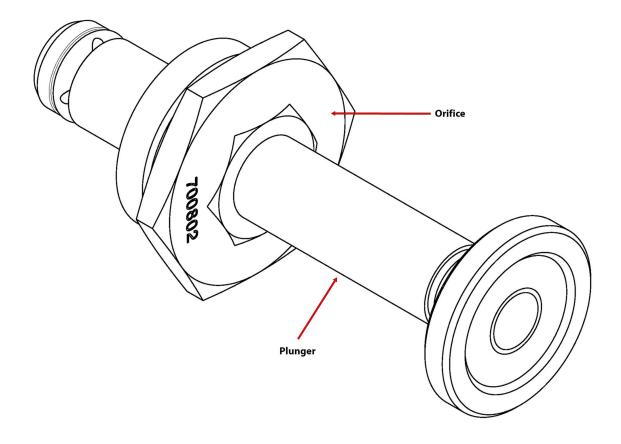


APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
KIT - HERMETIC FEEDTHROUGH 9 PIN	100295-1	ALL	Includes O-ring and fasteners (excludes R22)		



6.15 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.





6.16 Cooling Valves

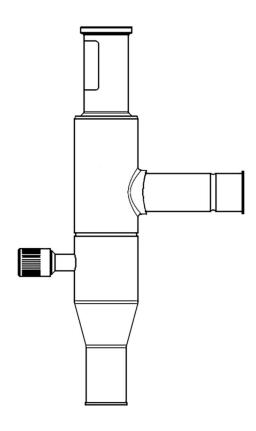
	COOLING VALVES ASSEMBLY		MOTOR CAVITY AND	PLUNGER		
MODEL	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.
TTS300 TGS230	KIT - COOLING VALVES ASSEMBLY TT300	100150-8	KIT - ORIFICE BODY, COOLING 1.3MM	100236 *	KIT - PLUNGER ASSY, SOLENOID	100235
TTS400 380V, 400V & 460V TGS390	KIT - COOLING VALVES ASSEMBLY TT400	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.

	COOLING VALVE	S ASSEMBLY	ORIFICES		ORIFICES		PLUNGER	
MODEL	DESCRIPTION	PART NO.	MOTOR C	INVERTER		DESCRIPTION	PART NO.	
			DESCRIPTION	PART NO.	DESCRIPTION	PART NO.		NO.
TTS400 575V TGS310	KIT - COOLING VALVES ASSEMBLY	100150-6	KIT - ORIFICE BODY, COOLING 2.0MM	100239 *	KIT - ORIFICE BODY, COOLING 1.6MM	100240 *	KIT - PLUNGER ASSY, SOLENOID	100235
TTS500 TTS700 TGS520	KIT - COOLING VALVES ASSEMBLY	100150- 9	KIT - ORIFICE BODY, COOLING 2.5MM	100238 *	KIT - ORIFICE BODY, COOLING 1.6MM	100240 *	KIT - PLUNGER ASSY, SOLENOID	100235
TTS350 TGS490 TTH375 TGH285	KIT - COOLING VALVES ASSEMBLY	100150- 11	KIT - ORIFICE BODY, COOLING 2.5MM	100238*	KIT - ORIFICE BODY, COOLING 2.0MM	100239*	KIT - PLUNGER ASSY, SOLENOID	100235



6.17 Pressure Regulating Valve

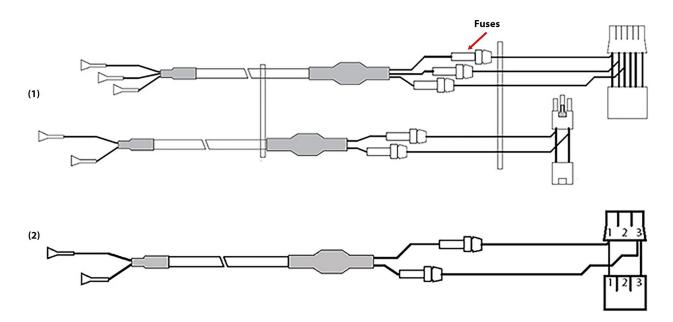


APPLIES TO: TTS300/TGS230/TGH375/TGH285 MEDIUM TEMP				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - Pressure Regulating Valve (Evaporator pressure regulator)	034L0025	ALL	KVP 22, Inlet size [mm]: 22.00, Inlet connection type: SOLDER ODF, Outlet size [mm]: 22.00, Outlet connection type: SOLDER, ODF	



Appendix A Test Equipment/Training

A.1 DC Bus Test Harness



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285					
DESCRIPTION	PART NO. MAJOR REV COMMENT				
(1) KIT – CABLE HARNESS DC BUS TEST LEAD	100326	-N, -P, -A, -C, -D, -E, -F, -G	Cable Only		
(2) KIT – CABLE HARNESS DC BUS TEST LEAD	100101	-Н	Cable Only		

A.2 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.

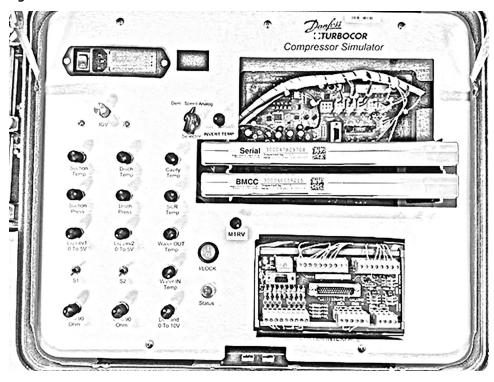
The Compact Inverter Tester provides all power necessary to interface with the inverter module during testing. This device will test the high voltage section, both top and bottom diodes of each section, and the driver board of the inverter.

APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - INVERTER TESTER	100377	ALL	Includes power adapter, AC plug (US and Europe), data cables, and user manual	



Test Equipment/Training (continued)

A.3 Portable Training Simulator

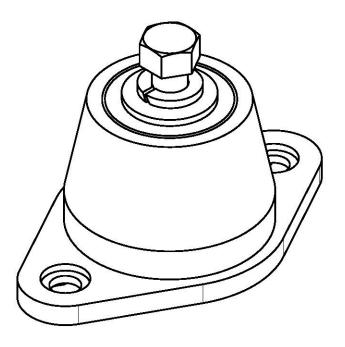


APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
PORTABLE TRAINING SIMULATOR	100580	ALL	Includes Case, BMCC, Serial Driver, and Power Cord



Appendix B Accessory Kits

B.1 Rubber Mounts



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT – MOUNTING	100066	ALL	Includes fasteners and washers for mounting compressor to the mount. Rubber mount to chiller fasteners are not included.	

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")

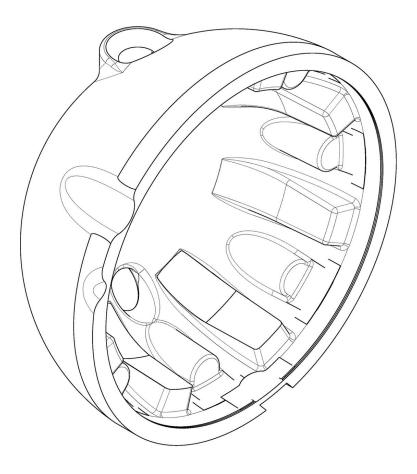
• Material: Neoprene Duro Meter 50

• Tightening Torque: $27\pm 3 \text{ Nm} (20 \pm 4 \text{ lb.ft})$

• Capacity Range: 50 -107 kg (110 - 236 lb) EACH



B.2 End Cap Insulation



APPLIES TO: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
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: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285			
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

901666	Specifications
--------	----------------

250VDC

Approved to UL 1283 Rated current:

Power dissipation @ rated current: 20W max 185A @ 40°C operating ambient temp. Designed to comply to EN 133200. CSA 22.2 No.

165A @ 50°C operating ambient temp.

Insulation resistance: 1000M ohms min. @ Max leakage current each line to ground:

150mA @ 250VAC 60Hz Rated voltage: up to 480VAC max., 50/60Hz

Humidity range: 0-95% R.H. 300mA @ 480VAC 60Hz

Weight: 20 lbs max

901866 Approved to UL 1283 Hi Pot (1 Min)

> A-G, B-G, C-G (3 tests) Max leakage current each line to ground: 90mA @ 250VAC 60Hz A-B, B-C, A-C (3 tests)

180mA @ 480VAC 60Hz Rated current:

Designed to comply to EN 133200. CSA 22.2 No. 322A @ 40°C operating ambient temp

Hi Pot (1 Min) Humidity range: 0-95% R.H.

L/G 2210VDC Power dissipation @ rated current: 30W max

L/L 2780VDC Weight: 35 lbs max

Rated voltage: up to 480VAC max 50/60Hz (3

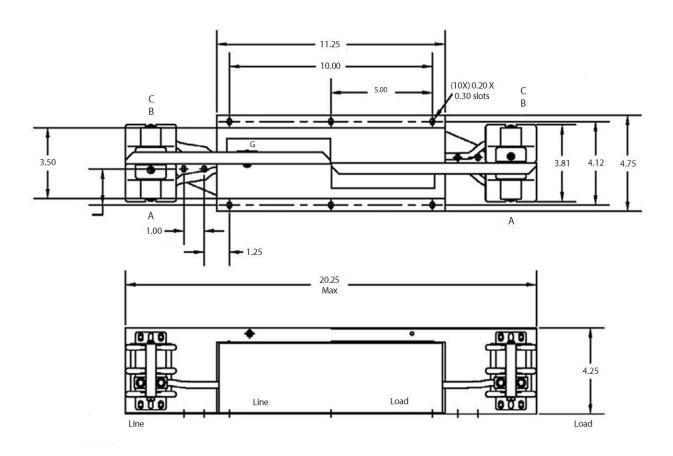
Phase)



EMI/ECI Filters (continued)

901666

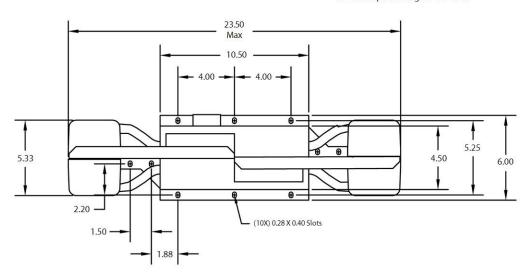
Note: Torque wire lugs to 150 LB-IN

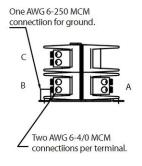


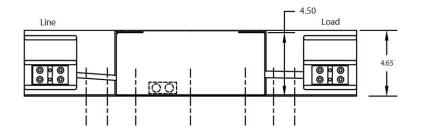


EMI/ECI Filters (continued)

NOTE: Torque wire lugs to 150 LB-IN









B.3 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: TTS300/TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285				
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

Ambient Temperature Max: 40°C (104°F) Q factor at rated current, 60 Hz: approx. 22

Type: dry, air-cooled, open terminals Rated current: See table above Flux density @ rated current: <1.6 tesla Insulation class: Class H - 220

Agency approvals: Inductance: 0.50mH ±10%

Manufactured to UL Standard 508 Dielectric strength tested @: 2.2kVac for 1 minute according to UL508

UL recognized to file # E116124 Total losses, basic current: approx. 500 W

CSA certified - LR86011 Temp rise @ rated current: <155°C (<279°F)

CE marked Dimensions: 229H x 279W x 236D (in mm) 9H x 11W x 9.3D (in inches)

Core type: high permeability silicon, non-grain-Mass: 43 kg (95 lbs)

oriented (N.G.O.), laminated core

Phase/Frequency: 3-phase/ 50/60 Hz

Cooling type: air-cooled

Supply voltage: up to 480Vac (600 Max).

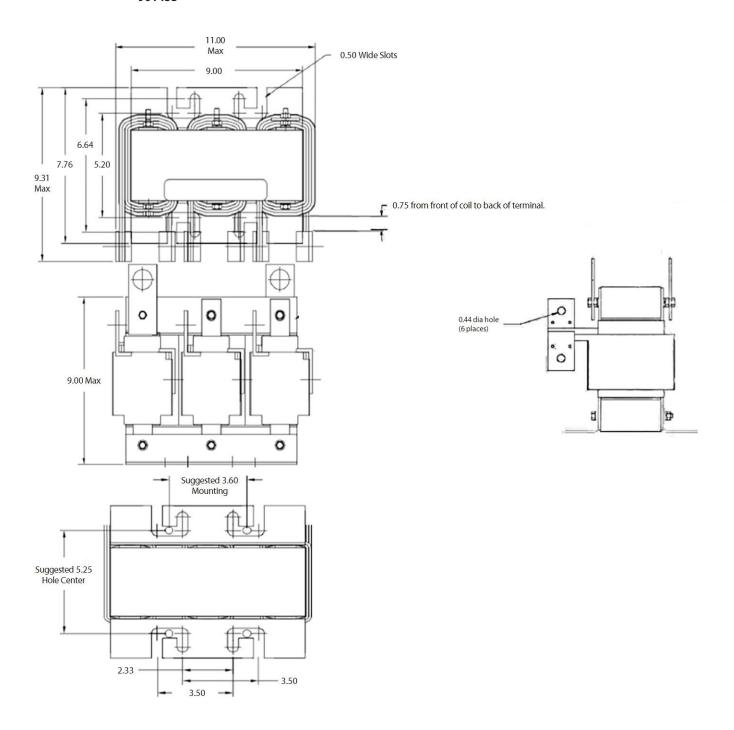
Impregnation: dip and bake process to varnish, class H insulation standard

Terminals: copper bus bar, hole to suit M8 bolt

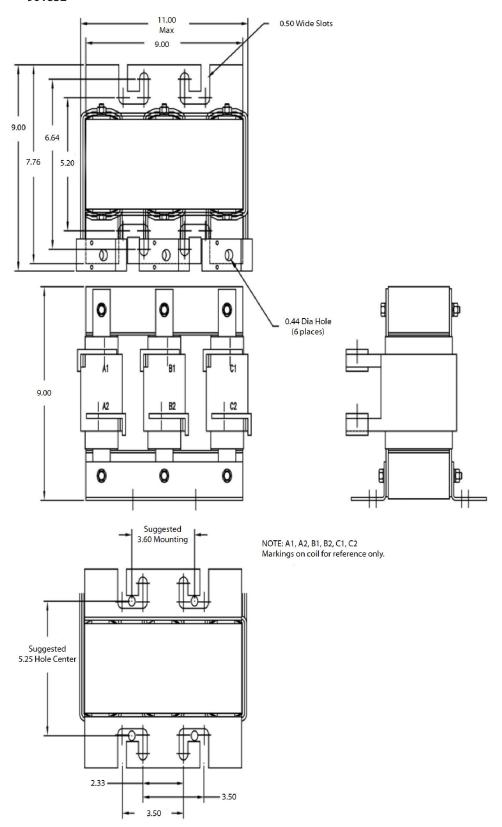
NOTE

Failure to install a line reactor will result in a higher-than-rated current draw, larger cabling requirements, and lower power factor.

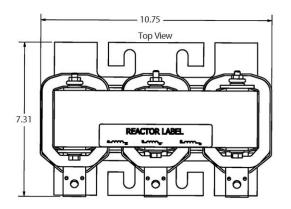


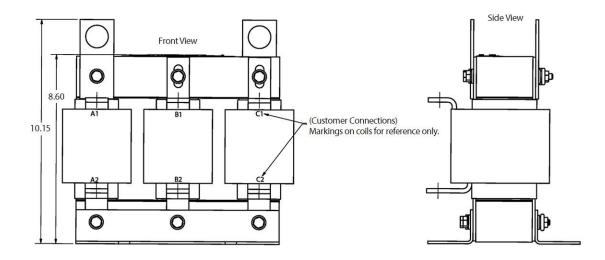


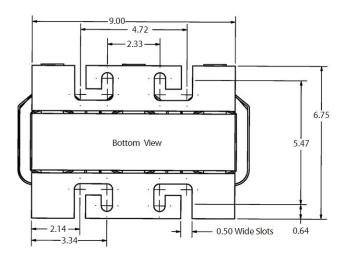




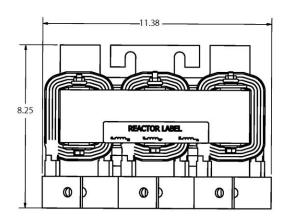


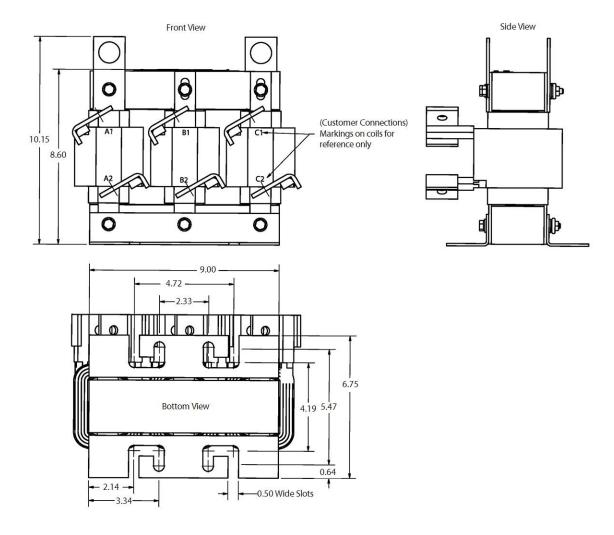










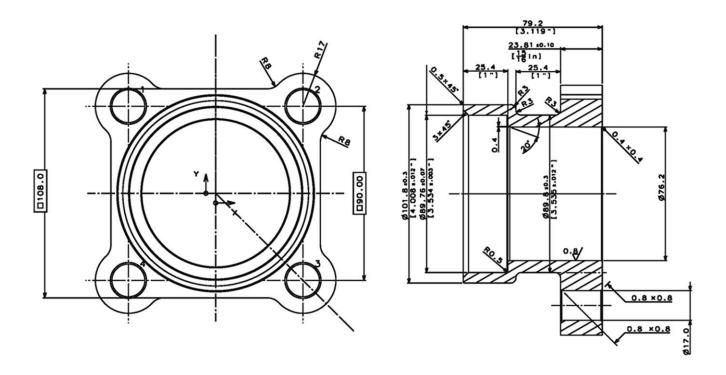




B.4 Flanges

Suction Flange

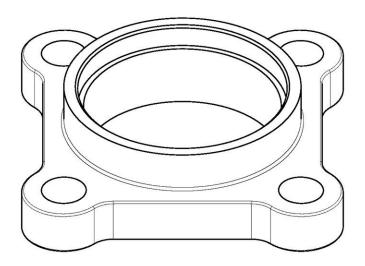
APPLIES TO: TTS300/TTS350/TTS400/TGS230/TGS310/TGS390/TGS490/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - SUCTION FLANGE (STEEL)	100151-1	ALL	Includes flange, fasteners, and O-ring	





Suction Flange (contined)

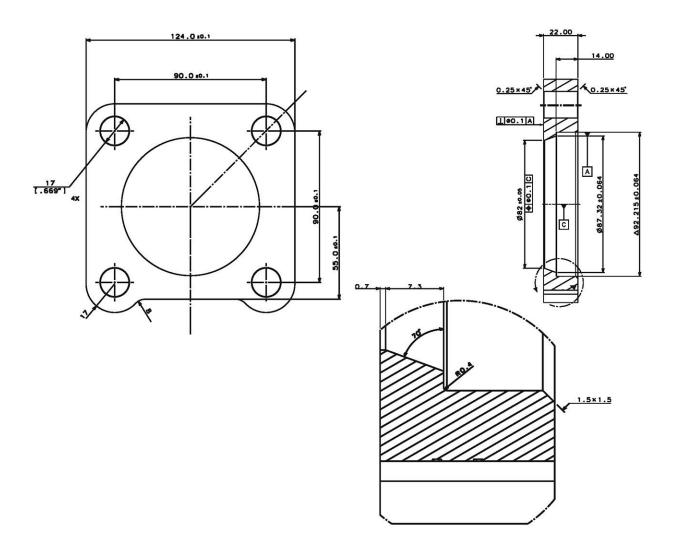
APPLIES TO: TTS300/TTS350/TTS400/TGS230/TGS310/TGS390/TGS490/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - SUCTION FLANGE (BRASS)	100402-1	ALL	Includes flange, fasteners, and O-ring	





Suction Flange (contined)

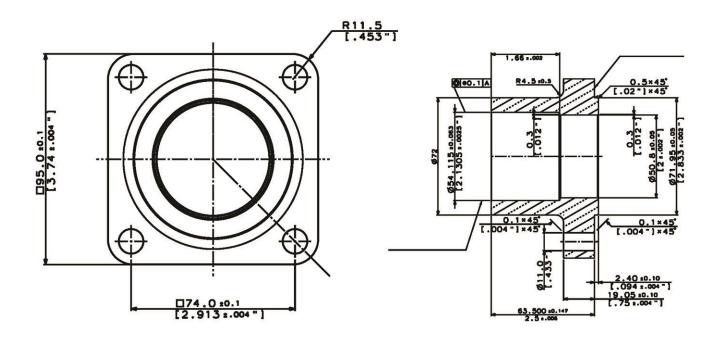
APPLIES TO: TTS500/TTS700/TGS490/TGS520				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - SUCTION FLANGE 3 5/8" (BRASS)	100378	ALL	Includes flange, fasteners, and O-ring	





Discharge Flange

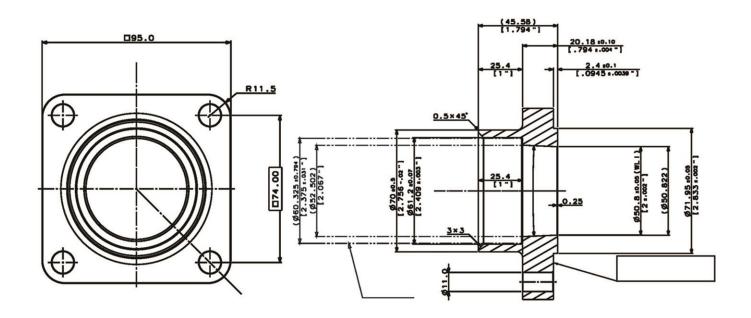
APPLIES TO: TTS300/TTS350/TTS400/TGS230/TGS310/TGS390/TGS490/TTH375/TGH285				
DESCRIPTION	PART NO.	MAJOR REV	COMMENT	
KIT - DISCHARGE FLANGE (BRASS)	100152	ALL	Includes flange, fasteners, and O-ring	





Discharge Flange (continued)

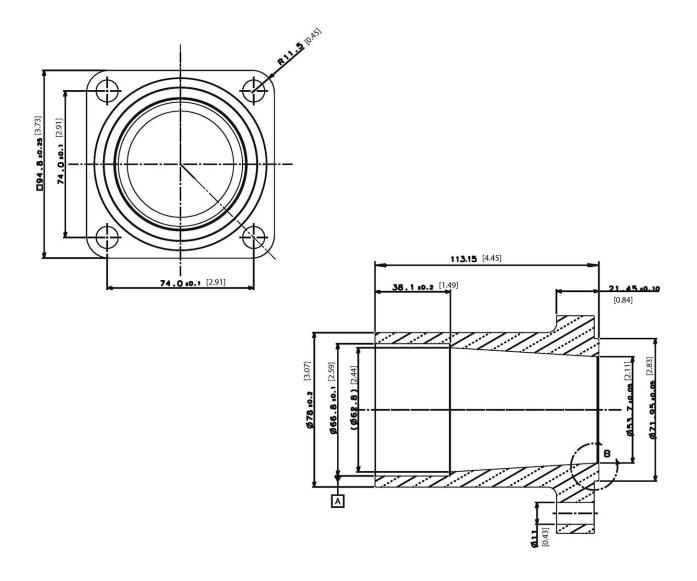
APPLIES TO: TTS300/TTS350/TTS400/TGS230/TGS310/TGS390/TGS490/TTH375/TGH285			
DESCRIPTION	PART NO.	MAJOR REV	COMMENT
KIT - DISCHARGE FLANGE (STEEL)	100153-1	ALL	Includes flange, fasteners, and O-ring





Discharge Flange (continued)

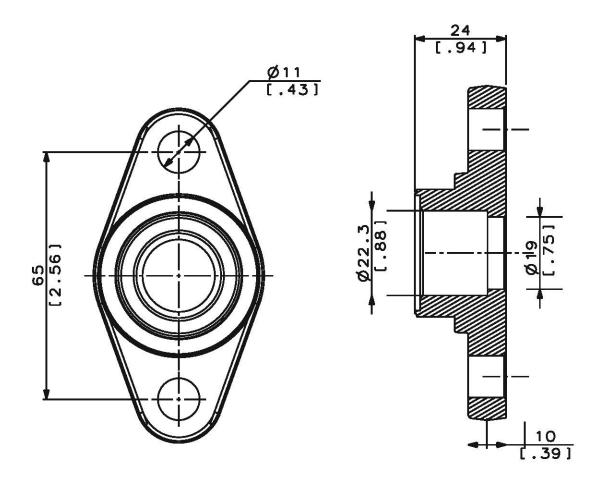
APPLIES TO: TTS500/TTS700/TGS490/TGS520					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
- DISCHARGE BRASS FLANGE FOR 2-5/8" COPPER PIPE	100254	ALL	Includes flange, fasteners, and O-ring		





Economizer Flange

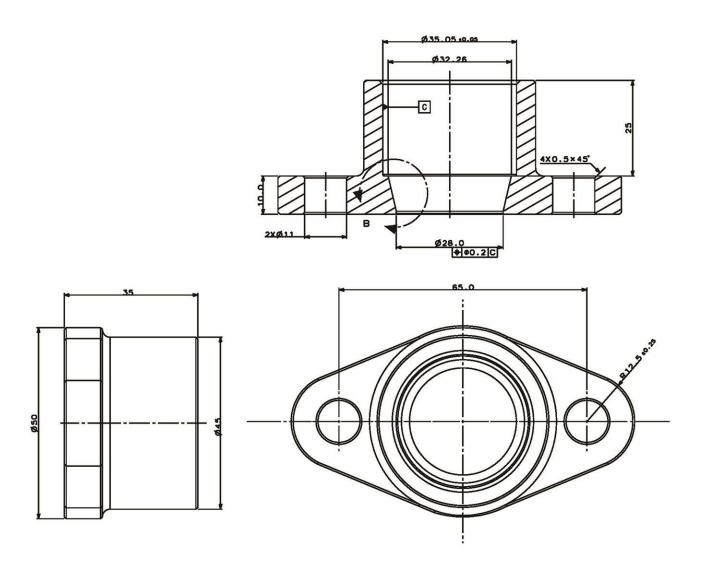
APPLIES TO: TTS300/TG230					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
KIT - ECONOMIZER FLANGE 7/8" (BRASS)	100400	ALL	Includes flange, fasteners, and O-ring		





Economizer Flange (contined)

APPLIES TO: TTS350/TTS400/TTS500/TTS700/TGS230/TGS310/TGS390/TGS490/TGS520/TTH375/TGH285					
DESCRIPTION	PART NO.	MAJOR REV	COMMENT		
KIT - ECONOMIZER FLANGE 1 3/8" (BRASS)	100450-1	ALL	Includes flange, fasteners, and O-ring		





Appendix C Recently Obsoleted Kit Reference

OBSOLETE KIT		ORGOLETE WE ARRUSATION	REPLACEMENT KIT	
PART NO.	DESCRIPTION	OBSOLETE KIT APPLICATION	PART NO.	DESCRIPTION
100020-1	KIT - MODULE SOFT START (460V)	ALL 460V MODELS	100020-19	Refer to "Soft Start Assembly" on page 49 for the proper replacement
100020-2	KIT - MODULE SOFT START (575V)	ALL 575V MODELS		
100020-3	KIT - MODULE SOFT START (400V)	ALL 400V MODELS		
100020-4	KIT - MODULE SOFT START (380V)	ALL 380V MODELS	100020-20	
100050-24	KIT - IGV - DRIVE ASSEMBLY AND O-RING TGS490	-F, -H	100050-25	KIT - IGV - DRIVE ASSEMBLY AND O-RING TGS490
100237	KIT - ORIFICE BODY, COOLING 1.5MM	Use with: TT400 Rev: -P	100240	
100250	KIT - IGV THROAT - TGS490	-F, -H	100261	KIT - IGV THROAT - TGS490
100309-5	KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	Use with: TTS350, TTS400, TTS500, TTS700, TGS310, TGS390, TGS490, TGS520 Rev: - P, -A, -C, -E, -F	100309-13	KIT – HEATSINK – COOLING MANIFOLD SCR ASSEMBLY (TT350) NO SENSOR
100309-6	KIT – HEATSINK COOLING MANIFOLD SCR ASSEMBLY	Use with: TTS300/TGS230 Rev: -N, -P, -C, -D, -E, -F, -G	100309-11	KIT – HEATSINK – COOLING MANIFOLD SCR ASSEMBLY
100322	KIT - CABLE HARNESS COMPRESSOR CONTROLLER	-N, -P, -C, -D, -E, -F, -G	100322-5	KIT - CABLE HARNESS COMPRESSOR CONTROLLER
100373	KIT - COOLING FAN AND ADAPTOR ASSEMBLY	-N, -P, -A, -C, -D, -E, -F, G	100373-1	KIT - COOLING FAN AND ADAPTOR ASSEMBLY
100375	KIT - HARMONIC RESISTOR PLUG	ALL	Kit no longer supported	
100515	KIT - CONVERSION-SIE TO THE CURRENT ELECTRONICS (400V)	ALL 400V SIE MODELS	Kit no longer supported	
100516	KIT - CONVERSION-SIE TO THE CURRENT ELECTRONICS (460V)	ALL 460V SIE MODELS	Kit no longer supported	
100703-1	KIT - INTERSTAGE PIPE	-F	Order Kit 100703-3 and 100706-3	
100706-1	KIT - SECOND STAGE HOUSING	-F	Order Kit 100703-3 and 100706-3	







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Highlift Compressors



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