

## Parts Manual

## PM

Group: Chiller  
Part Number: PM CLIM VS  
Date: 26 May 2023

# CLIM VS Series Air-Cooled Scroll Compressor Chiller Water Generator Unit

### Model

7.5 to 62.5 TR

Refrigerant HFC-410A

50/60 Hz



**SAFETY WARNING.....3**  
**GENERAL DESCRIPTION.....4**  
**SERVICE PARTS - REFRIGERATION.....5**  
**SERVICE PARTS - PLUMBING.....6**  
**SERVICE PARTS - ELECTRICAL 1.....7**  
**SERVICE PARTS - ELECTRICAL 2.....8**

**Manufactured in an ISO 9001 certified facility**



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## SAFETY WARNING

This manual provides service parts information for the Clima Flex CLIM VS series.

**NOTES:** Installation and maintenance must be performed only by qualified personnel who are familiar with local codes and regulations and who have experience with this type of equipment.

### ⚠ DANGER ⚠

LOCK OUT/LABEL all power sources before starting, pressurizing, depressurizing or shutting down the chiller.

Disconnect electrical power before servicing equipment. More than one disconnection may be required to de-energize the unit. Failure to follow this warning to the letter can result in serious injury or death. Be sure to read and understand the installation, operating and service instructions in this manual.

### ⚠ WARNING ⚠

Electric shock danger. Improper handling of this equipment can cause personal injury or equipment damage. This equipment must be properly grounded. Control panel connections and maintenance should be performed only by personnel knowledgeable in the operation of the equipment being controlled. Disconnect electrical power before servicing equipment. Be sure to install a earth leakage breaker. Failure to install a earth leakage breaker may result in electric shock or fire.

### ⚠ CAUTION ⚠

Static sensitive components. Static discharge during handling of the electronic circuit board can cause damage to components. Use a static strap before performing any service work. Never unplug any cables, circuit board terminal blocks, or power plugs while power is applied to the panel.

### ⚠ CAUTION ⚠

When moving refrigerant to/from the cooler using an auxiliary tank, a grounding strap should be used. An electrical charge builds up when halo-carbon refrigerant travels in a rubber hose. A grounding strap should be used between the auxiliary refrigerant tank and the cooler end sheet (ground to ground), which will safely carry the charge to ground. Failure to follow this procedure may result in damage to sensitive electronic components.

### ⚠ WARNING ⚠

If refrigerant leaks from the unit, there is a potential choking danger as the refrigerant will displace air in the immediate area. Be sure to follow all applicable published industry-related standards and local, state, and federal statutes, regulations, and codes if refrigerant is produced. Avoid exposing refrigerant to an open flame or other ignition source.

### ⚠ WARNING ⚠

Polyolester oil, commonly referred to as POE oil, is a synthetic oil used in many refrigeration systems and may be present in this Clima Flex product. POE oil, if it ever comes in contact with PCV/CPVC, will coat the inside wall of the PVC/CPVC pipe and cause environmental stress fractures. Although there is no PCV/CPCV pipe in this product, keep this in mind when selecting piping materials for your application, as system failure and property damage could occur. Consult the pipe manufacturer's recommendations to determine appropriate pipe applications.

## DANGER IDENTIFICATION INFORMATION

### ⚠ DANGER ⚠

Danger indicates a dangerous situation which, if not avoided, will result in death or serious injury.

### ⚠ WARNING ⚠

Warning indicates a potentially dangerous situation which may result in property damage, personal injury or death if not avoided.

### ⚠ CAUTION ⚠

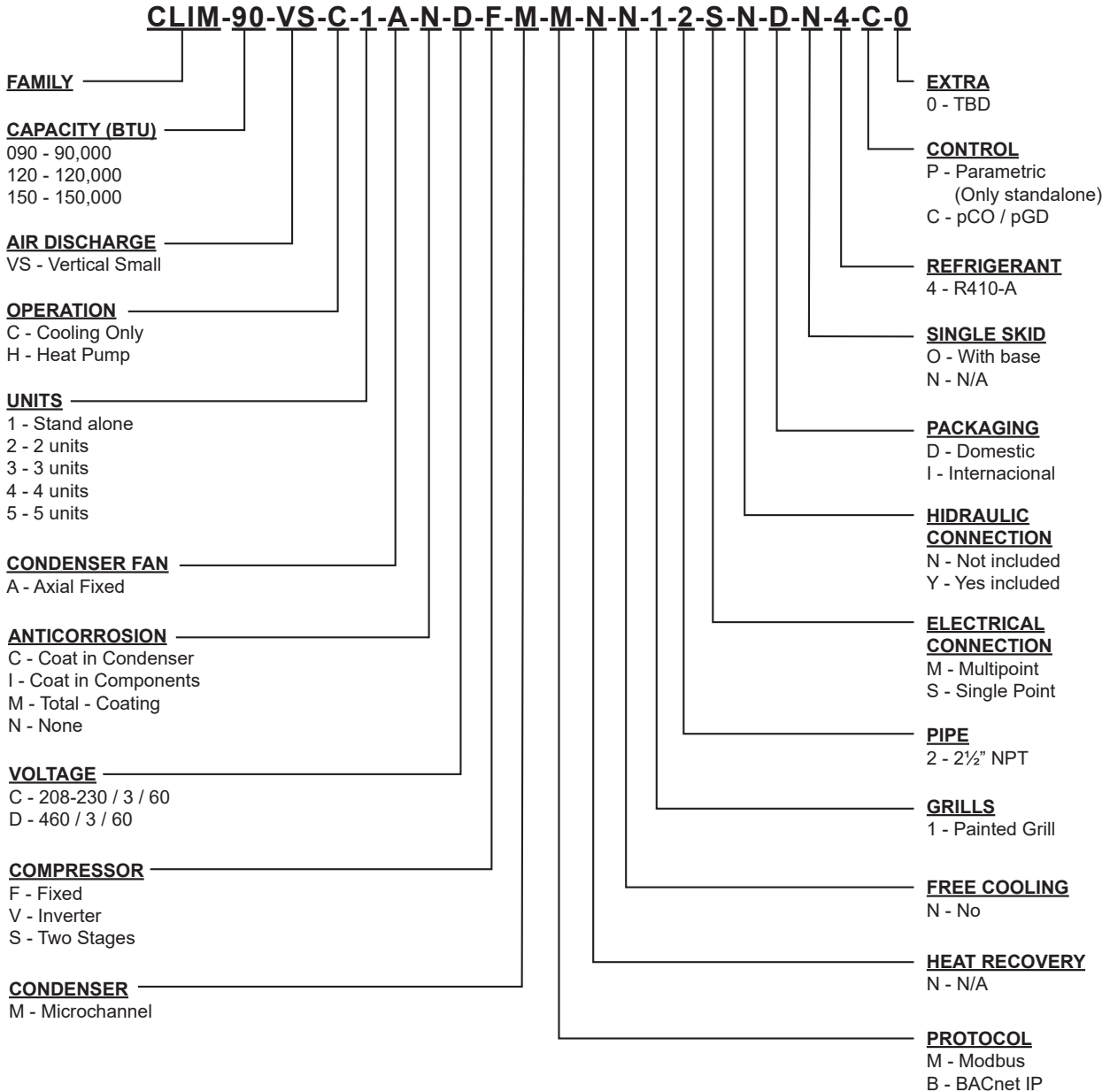
Caution indicates a potentially dangerous situation which may result in minor injury or equipment damage if not avoided.

**NOTES:** Indicate important details or clarifying statements for the information presented.

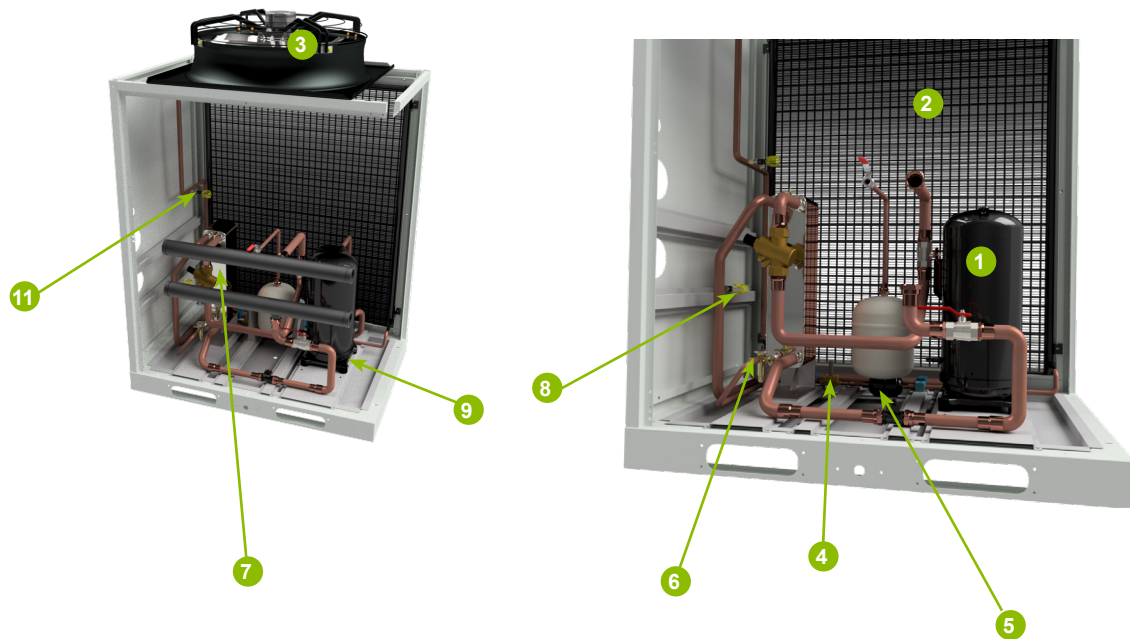
Clima Flex's CLIM VS series air-cooled chilled water generators are complete, self-contained, automatic chillers designed for outside installation. The package units are fully assembled, factory wired, charged and tested.

Electrical control center includes all operating controls and equipment protection necessary for reliable automatic operation. Components housed in a weatherproof control panel.

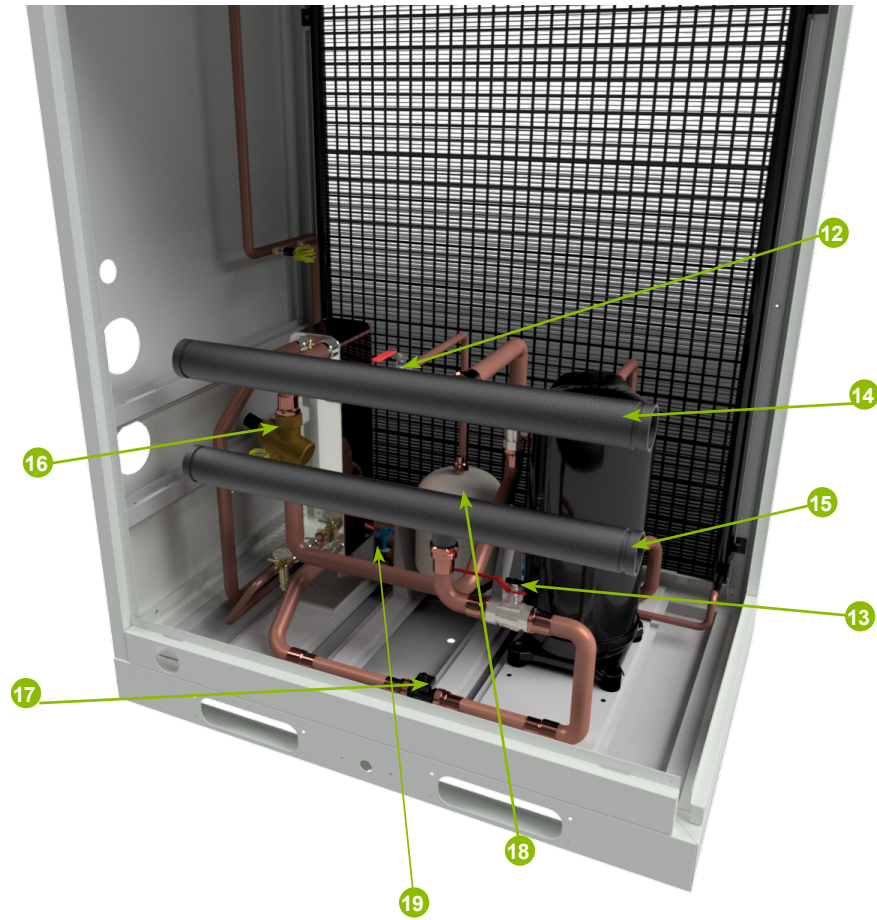
### NOMENCLATURE



## SERVICE PARTS - REFRIGERATION

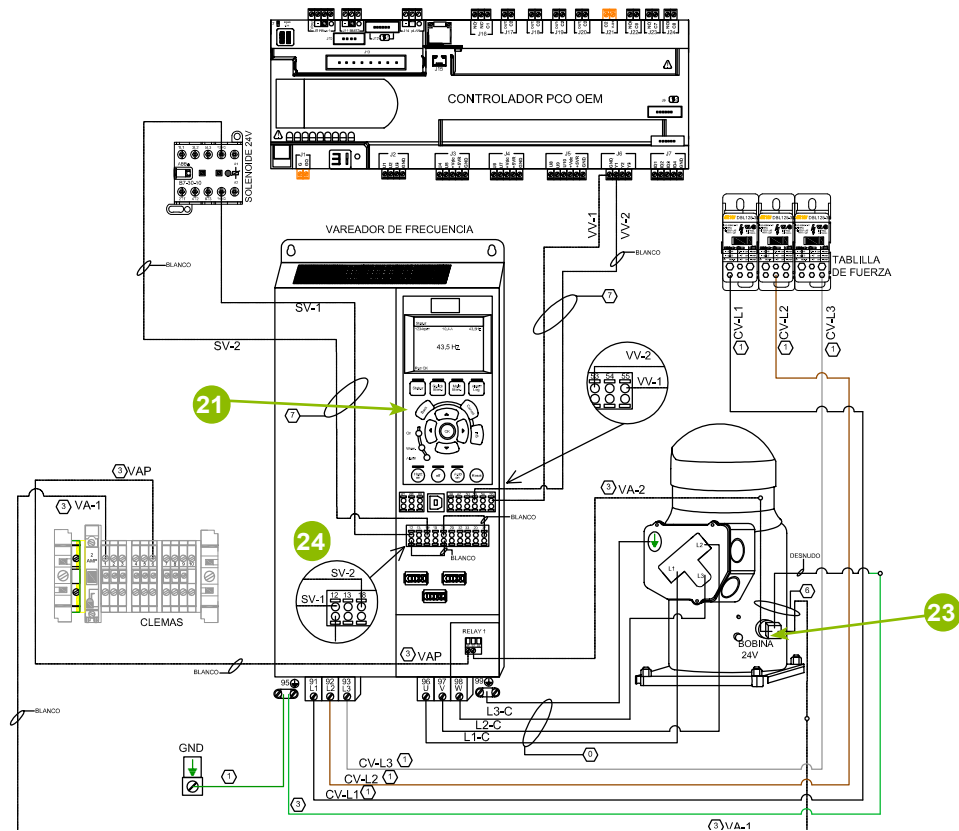


COMPONENT	QTY	UM	PART NUMBER						PART NUMBER									
			208-230 / 3 / 60												460 / 3 / 60			
			7.5 TR		10 TR		12.5 TR		7.5 TR		10 TR		12.5 TR					
			M	S	M	S	M	S	M	S	M	S	M	S				
1	COMPRESSOR	1	PC	3000383	3000409	3000383	3000159	3005104	3010464	3000445	3000457	3000445	3000071	3000498	3008588			
2	CONDENSER	1	PC	1030394	1030394	1030393	1030393	1032360	1032360	1030394	1030394	1030393	1030393	1032360	1032360			
3	FAN	1	PC	1000905	1000905	3000378	3000378	3000378	3000378	1000905	1000905	3000378	3000378	3000378	3000378			
4	SOLENOID VALVE ( <i>Liquid Line</i> )	1	PC	1000031	1000031	1000031	1000031	1000031	1000031	1000031	1000031	1000031	1000031	1000031	1000031			
5	FILTER DRIER	1	PC	1000027	1000027	1000027	1000027	1000027	1000027	1000027	1000027	1000027	1000027	1000027	1000027			
6	EXPANSION VALVE	2	PC	1000615	1000615	1000047	1000047	1000047	1000047	1000615	1000615	1000047	1000047	1000047	1000047			
7	EVAPORATOR	1	PC	3016548	3016548	3000078	3000078	3000503	3000503	3016548	3016548	3000078	3000078	3000503	3000503			
8	LOW PRESSURE PRESOSTAT	1	PC	1036389	1036389	1036389	1036389	1036389	1036389	1036389	1036389	1036389	1036389	1036389	1036389			
9	MOUNTING KIT	2	PC	1000210	1000210	1000210	1000210	1000210	1000210	1000210	1000210	1000210	1000210	1000210	1000210			
10	DAMPERS FOR SM/SZ084 185	1	PC	1020735	1020735	1020735	1020735	1020735	1020735	1020735	1020735	1020735	1020735	1020735	1020735			
11	HIGH PRESSURE PRESOSTAT	1	PC	1001249	1001249	1001249	1001249	1001249	1001249	1001249	1001249	1001249	1001249	1001249	1001249			



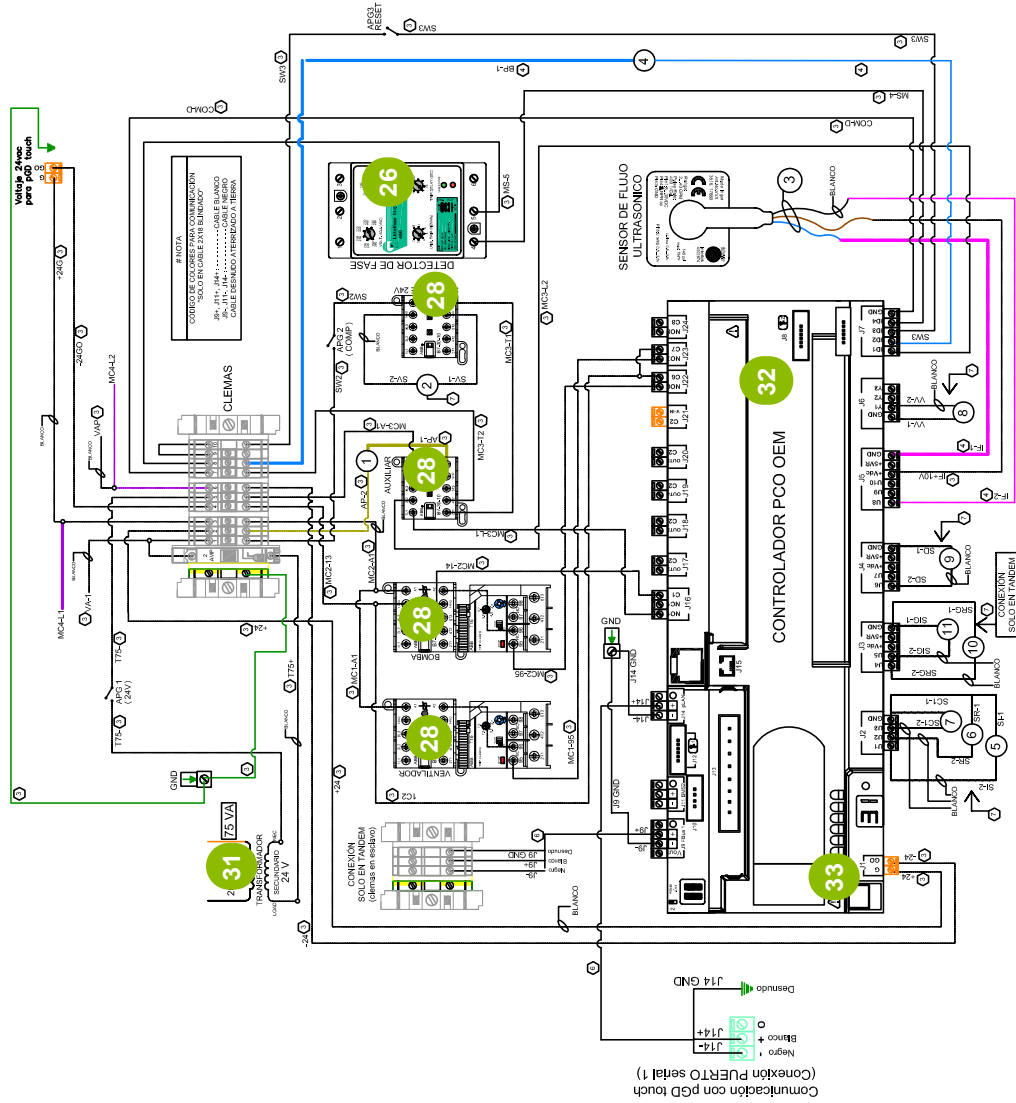
COMPONENT	QTY	UM	PART NUMBER						PART NUMBER											
			208-230 / 3 / 60												460 / 3 / 60					
			7.5 TR		10 TR		12.5 TR		7.5 TR		10 TR		12.5 TR							
			M	S	M	S	M	S	M	S	M	S	M	S						
12	BALL VALVE E1/2" 757T03	1	PC	1000433	1000433	1000433	1000433	1000433	1000433	1000433	1000433	1000433	1000433	1000433	1000433					
13	BALL VALVE 1/4" 759T06	2	PC	1000092	1000092	1000092	1000092	1000092	1000092	1000092	1000092	1000092	1000092	1000092	1000092					
14	VITALUIC INJECTION NIPPLE	1	PC	1000891	1000891	1000994	1000994	1019235	1019235	1000891	1000891	1000994	1000994	1019235	1019235					
15	VITALUIC RETURN NIPPLE	1	PC	1000890	1000890	1000995	1000995	1019236	1019236	1000890	1000890	1000995	1000995	1019236	1019236					
16	FLOW CONTROL VALVE	1	PC	1001105	1001105	1001105	1001105	1001105	1001105	1001105	1001105	1001105	1001105	1001105	1001105					
17	FLOW SENSOR	2	PC	1001087	1001087	1001087	1001087	1001087	1001087	1001087	1001087	1001087	1001087	1001087	1001087					
18	EXPANSION TANK	1	PC	3000352	3000352	3000352	3000352	3000352	3000352	3000352	3000352	3000352	3000352	3000352	3000352					
19	SOLENOID VALVE 1 1/4"	1	PC	NA	1012524	NA	1012524	NA	1012524	NA	1012524	NA	1012524	NA	1012524					

# SERVICE PARTS - ELECTRICAL 1



COMPONENT	QTY	UM	PART NUMBER						PART NUMBER											
			208-230 / 3 / 60												460 / 3 / 60					
			7.5 TR		10 TR		12.5 TR		7.5 TR		10 TR		12.5 TR							
			M	S	M	S	M	S	M	S	M	S	M	S						
20	1	PC	1050206	NA	1050206	NA	1050206	NA	1050206	NA	1050206	NA	1050206	NA						
21	1	PC	3000384	NA	3000384	NA	3000384	NA	3000384	NA	3000384	NA	3000384	NA						
22	1	PC	1000646	1000646	1000646	1000646	1000646	1000646	1000646	1000646	1000646	1000646	1000646	1000646						
23	1	PC	3000386	NA	3000386	NA	3000386	NA	3000386	NA	3000386	NA	3000386	NA						
24	1	PC	3001885	NA	3001885	NA	3005105	NA	3001889	NA	3001889	NA	3000500	NA						

Figure 1. Schematic diagram DAC VS 7.5 TR-220V-Son





## SERVICE PARTS - ELECTRICAL 2

COMPONENT	QTY	UM	PART NUMBER						PART NUMBER						
			208-230 / 3 / 60						460 / 3 / 60						
			7.5 TR		10 TR		12.5 TR		7.5 TR		10 TR		12.5 TR		
			M	S	M	S	M	S	M	S	M	S	M	S	
25	DISTRIBUTION BLOCK	1	PC	1034621	1034621	1034621	1034621	1034621	1034621	1034621	1034621	1034621	1034621	1034621	1034621
26	MOTOR SAVER	1	PC	1035910	1035910	1035910	1035910	1035910	1035910	1035911	1035911	1035911	1035911	1035911	1035911
27	SWITCH	1	PC	1000775	1000775	1000775	1000775	1000775	1000775	1000774	1000774	1000774	1000774	1000774	1000774
28	MINI CONTACTOR	4	PC	1000144	1000144	1000144	1000144	1000144	1000144	1000144	1000144	1000144	1000144	1000144	1000144
29	FAN RELAY	2	PC	1000066	1000066	1000066	1000066	1000066	1000066	1000586	1000586	1000586	1000586	1000586	1000586
30	COMP RELAY	1	PC	1000065	1001173	1000065	1001196	1000065	1029188	1000586	1001169	1000586	1001171	1000586	1001171
31	TRANSFORMER	1	PC	3000042	3000042	3000042	3000042	3000042	3000042	3000126	3000126	3000126	3000126	3000126	3000126
32	CONTROLLER DIGITAL	1	PC	1000961	1000956	1000961	1000956	1000961	1000956	1000961	1000956	1000961	1000956	1000961	1000956
33	CONTROLLER CONNECTOR KIT	1	PC	1000954	1000957	1000954	1000957	1000954	1000957	1000954	1000957	1000954	1000957	1000954	1000957
34	2 AMP FUSE TYPE EUROPEAN	1	PC	1000233	1000233	1000233	1000233	1000233	1000233	1000233	1000233	1000233	1000233	1000233	1000233
35	FLG-MODBUS,BACNET (Mothers Only, On Request)	1	PC	1007299	NA	1007299	NA	1007299	NA	1007299	NA	1007299	NA	1007299	NA
36	COMPRESSOR CONTACTOR (Sons Only)	1	PC	NA	1001053	NA	1001201	NA	1001201	NA	1001053	NA	1001053	NA	1001053
37	TEMPERATURE SENSOR AX0631/060	4	PZA	1001435	1001435	1001435	1001435	1001435	1001435	1001435	1001435	1001435	1001435	1001435	1001435

