

Parts Manual

PM

Group: Chiller
Part Number: PM CLIC
Date: 25 May 2023

CLIC Series Air-Cooled Scroll Compressor Chiller Water Generator Unit

Model

25 to 250 TR

HFC-410A Refrigerant

50/60 Hz



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Manufactured in an ISO 9001 certified facility



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SAFETY WARNING

This manual provides service parts information for the Comfort Flex CLIC 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 deenergize 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.

⚠ 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 Comfort 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 ⚠

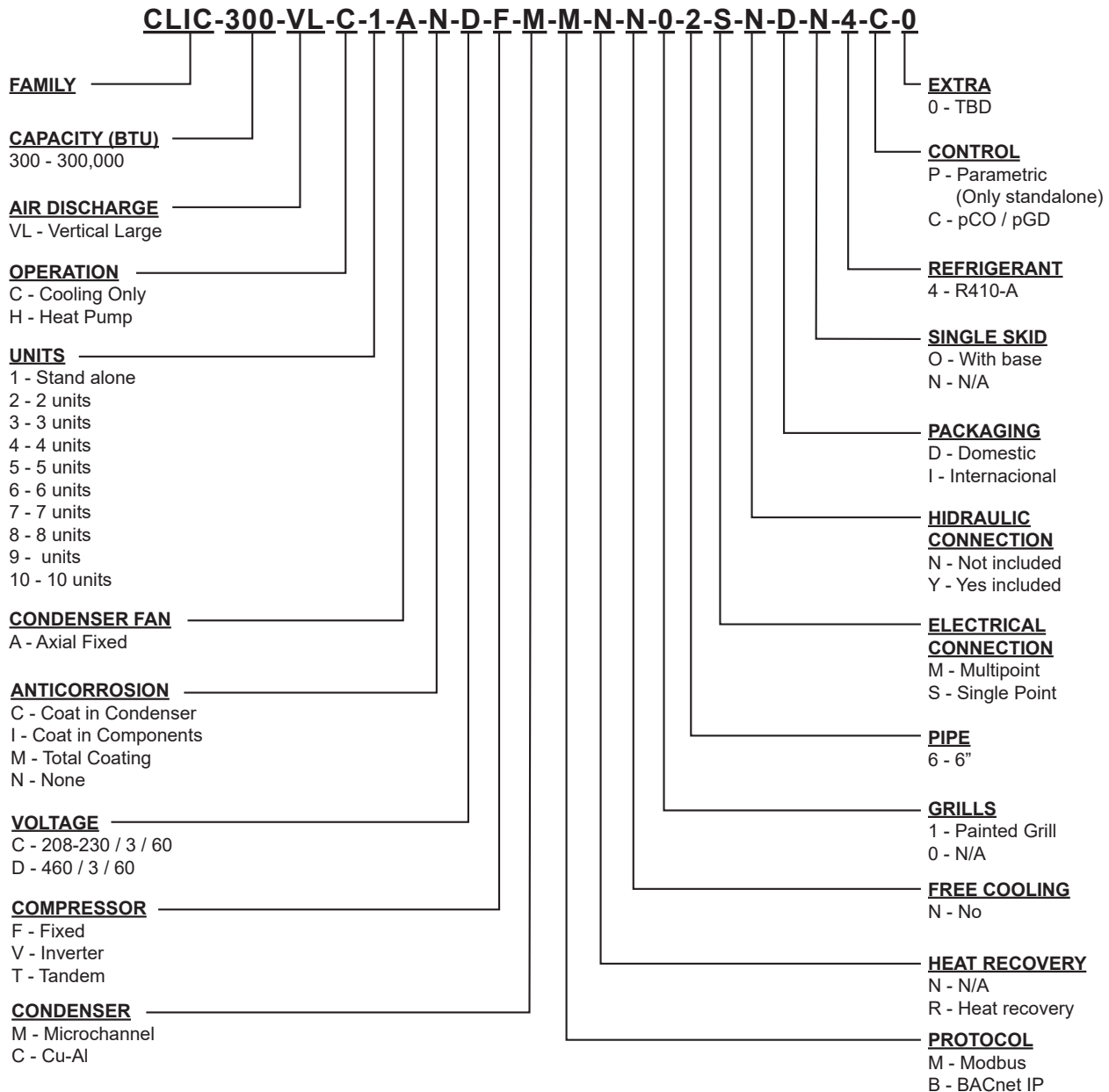
Caution indicates a potentially dangerous situation which may result in minor injury or equipment damage if not avoided.

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

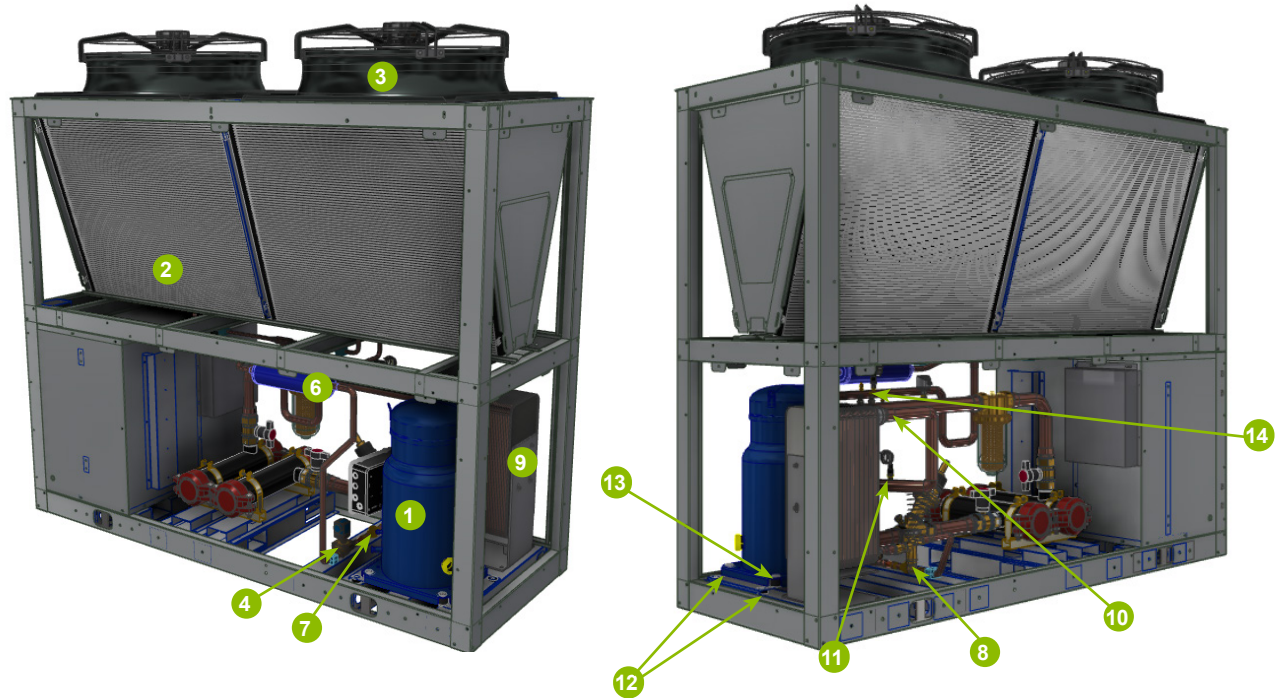
Comfort Flex's CLIC series air-cooled chilled water generators are complete, self-contained, automatic chillers designed for outside installation. The package units are fully assembled, factory wired, charged and tested.

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

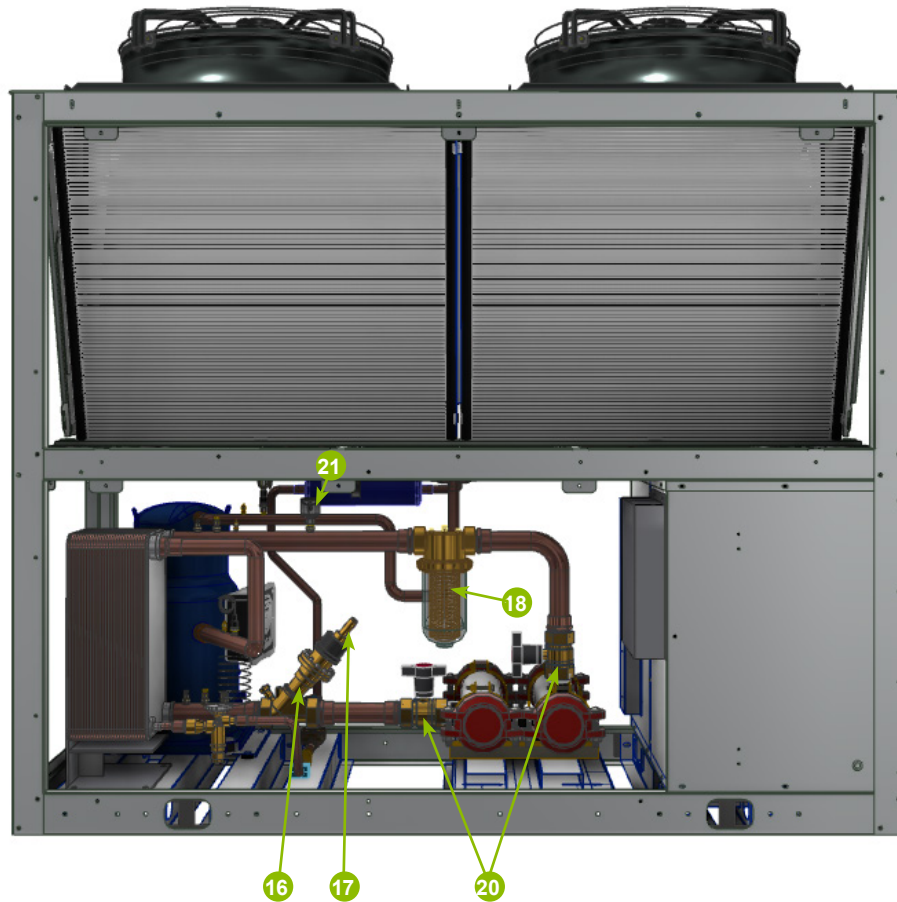
NOMENCLATURE



SERVICE PARTS - REFRIGERATION

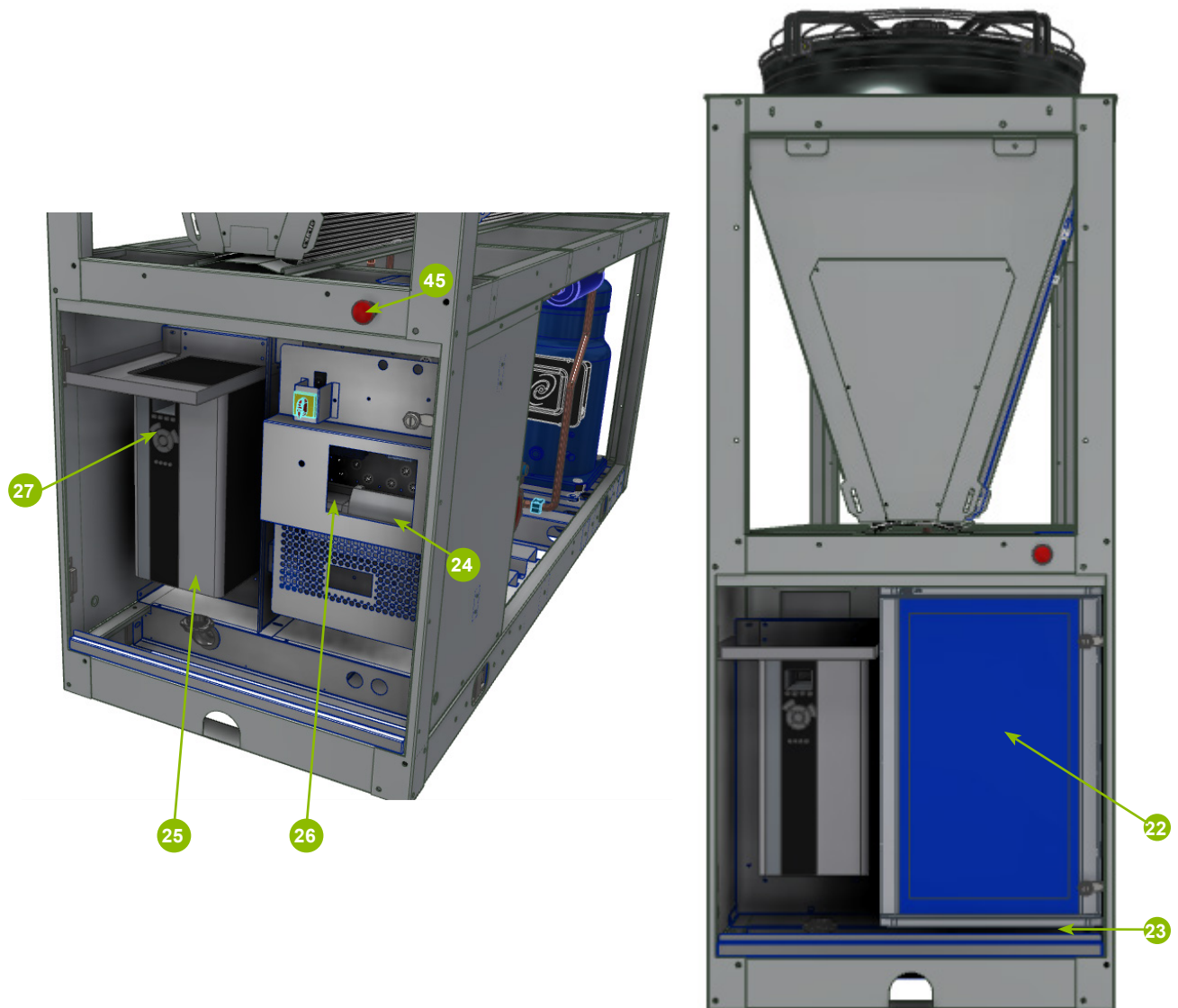


| COMPONENT | QTY | UM | PART NUMBER | | PART NUMBER | |
|---|-----|----|------------------|---------|--------------|---------|
| | | | 208-230 / 3 / 60 | | 460 / 3 / 60 | |
| | | | Mother | Son | Mother | Son |
| 1 COMPRESSOR | 1 | PC | 3000431 | 300410 | 3000559 | 3000651 |
| 2 CONDENSER | 4 | PC | 3008927 | 3008927 | 3008927 | 3008927 |
| 3 FAN | 2 | PC | 3010999 | 3010999 | 3010999 | 3010999 |
| 4 SOLENOID VALVE (<i>Liquid Line</i>) | 1 | PC | NA | 1001247 | NA | 1001247 |
| 5 SOLENOID VALVE (<i>Liquid Line</i>) | 2 | PC | 1000031 | NA | 1000031 | NA |
| 6 FILTER DRIER | 1 | PC | 1026170 | 1026170 | 1026170 | 1026170 |
| 6 BIDIRECTIONAL FILTER (<i>Heat Pump</i>) | 1 | PC | 1006900 | 1006900 | 1006900 | 1006900 |
| 7 FLOW AND HUMIDITY INDICATOR 7/8 014L0039 | 1 | PC | 1001239 | 1001239 | 1001239 | 1001239 |
| 8 EXPANSION VALVE | 1 | PC | 1024778 | 1024778 | 1024778 | 1024778 |
| 8 4-WAY VALVE (<i>Heat Pump</i>) | 1 | PC | 1005840 | 1005840 | 1005840 | 1005840 |
| 9 EVAPORATOR | 1 | PC | 3000491 | 3000491 | 3000491 | 3000491 |
| 10 THERMOPOZO | 6 | PC | 1022221 | 1022221 | 1022221 | 1022221 |
| 11 LOW PRESSURE PRESOSTAT | 1 | PC | 1036389 | 1036389 | 1036389 | 1036389 |
| 12 MOUNTING KIT | 1 | PC | 1000210 | 1000210 | 1000210 | 1000210 |
| 13 DAMPERS FOR SM/SZ084-185 | 1 | PC | 1020735 | 1020735 | 1020735 | 1020735 |
| 14 HIGH PRESSURE PRESOSTAT | 1 | PC | 1001249 | 1001249 | 1001249 | 1001249 |
| 15 BASE FOR EXCHANGER B120TH | 1 | PC | 3000541 | 3000541 | 3000541 | 3000541 |

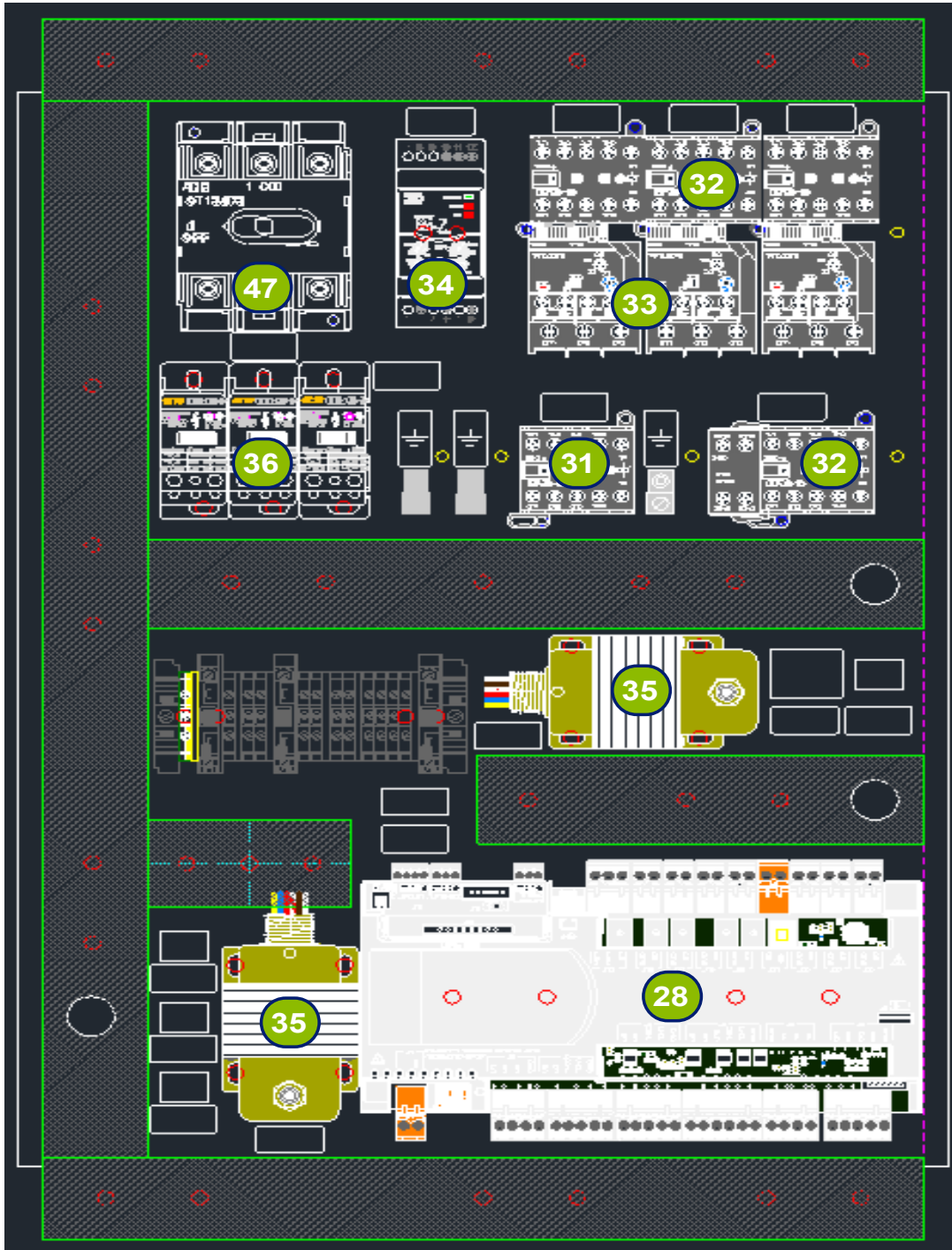


| COMPONENT | | QTY | UM | PART NUMBER | | PART NUMBER | |
|-----------|--|-----|----|------------------|---------|--------------|---------|
| | | | | 208-230 / 3 / 60 | | 460 / 3 / 60 | |
| | | | | Mother | Son | Mother | Son |
| 16 | WATER CONTROL VALVE | 1 | PC | 1030140 | 1030140 | 1030140 | 1030140 |
| 17 | ON/OFF ACTUATOR FOR CONTROLLER | 1 | PC | NA | 1030141 | NA | 1030141 |
| 18 | DECANTER FILTER (<i>Cold Operation Only</i>) | 1 | PC | 1030139 | 1030139 | 1030139 | 1030139 |
| 19 | YEE FILTER (<i>Heat Mode Operation</i>) | 1 | PC | 1021596 | 1021596 | 1021596 | 1021596 |
| 20 | WATER SHUTOFF VALVE | 2 | PC | 1030142 | 1030142 | 1030142 | 1030142 |
| 21 | FLOW SENSOR | 1 | PC | 3014528 | 3014528 | 3014528 | 3014528 |

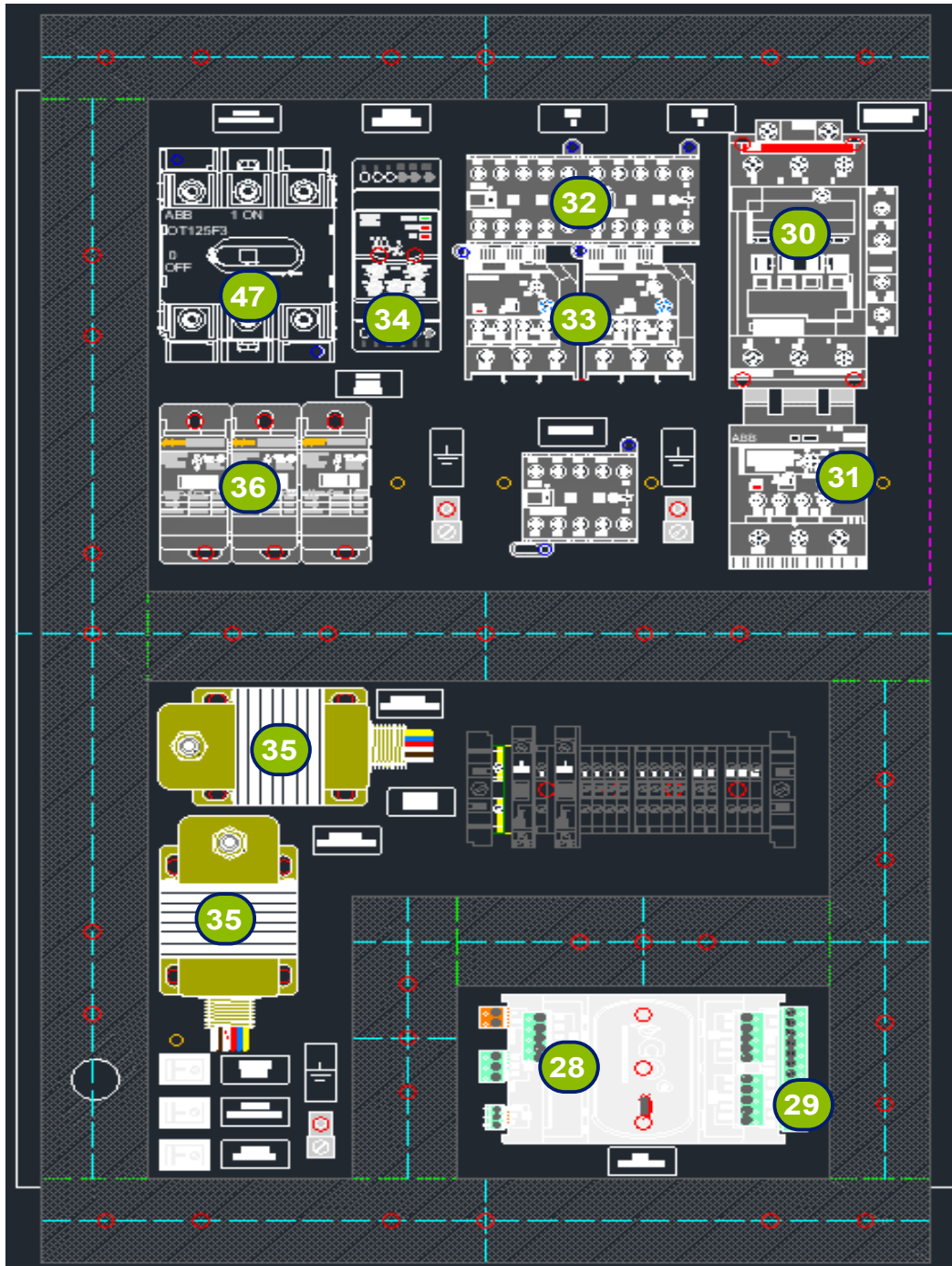
SERVICE PARTS - ELECTRICAL 1



| COMPONENT | QTY | UM | PART NUMBER | | PART NUMBER | |
|-----------|-----|----|------------------|---------|--------------|---------|
| | | | 208-230 / 3 / 60 | | 460 / 3 / 60 | |
| | | | Mother | Son | Mother | Son |
| 22 | 1 | PC | 1001322 | 1001322 | 1001322 | 1001322 |
| 23 | 1 | PC | 1020759 | 1020759 | 1020759 | 1020759 |
| 24 | 1 | PC | 1000961 | NA | 1000961 | NA |
| 25 | 1 | PC | 3001887 | NA | 3001890 | NA |
| 26 | 1 | PC | 1050206 | NA | 1050206 | NA |
| 27 | 1 | PC | 3000384 | NA | 3000384 | NA |
| 45 | 1 | PC | 1042254 | 1042254 | 1042254 | 1042254 |



SERVICE PARTS - ELECTRICAL 2



| | COMPONENT | QTY | UM | PART NUMBER | | PART NUMBER | |
|----|--|-----|----|------------------|---------|--------------|---------|
| | | | | 208-230 / 3 / 60 | | 460 / 3 / 60 | |
| | | | | Mother | Son | Mother | Son |
| 22 | ELECTRICAL BOX | 1 | PC | 1001322 | 1001322 | 1001322 | 1001322 |
| 23 | ELECTRICAL BOX DOOR | 1 | PC | 1020759 | 1020759 | 1020759 | 1020759 |
| 24 | CONTROLLER (<i>Master Only</i>) | 1 | PC | 1000961 | NA | 1000961 | NA |
| 25 | COMPRESSOR DRIVE | 1 | PC | 3001887 | NA | 3001890 | NA |
| 26 | 7" TOUCH SCREEN | 1 | PC | 1050206 | NA | 1050206 | NA |
| 27 | DISPLAY DRIVE | 1 | PC | 3000384 | NA | 3000384 | NA |
| 28 | EXPANSION MODULE (<i>Son Only</i>) | 1 | PC | NA | 1000956 | NA | 1000956 |
| 29 | CONTROLLER CONNECTOR KIT | 1 | PC | 1000954 | 1000957 | 1000954 | 1000957 |
| 30 | COMPRESSOR START CONTACTOR (<i>Son Only</i>) | 1 | PC | NA | 1001320 | NA | 1001201 |
| 31 | OVERLOAD RELAY (<i>Son Only</i>) | 1 | PC | NA | 1001321 | NA | 1001196 |
| 32 | MINIATURE CONTACTOR 24V GJL1311001R0101 | 3 | PC | 1000144 | 1000144 | 1000144 | 1000144 |
| 33 | OVERLOAD RELAY (FAN) | 2 | PC | 1001166 | 1001166 | 1000586 | 1000586 |
| 34 | PHASE PROTECTOR | 1 | PC | 1035910 | 1035910 | 1035911 | 1035911 |
| 35 | CONTROL TRANSFORMER | 2 | PC | 3000042 | 3000042 | 3000126 | 3000126 |
| 36 | DISTRIBUTION BLOCK. TRIPO 3P 1SNL312530R0000 | 1 | PC | 1034621 | 1034621 | 1034621 | 1034621 |
| 37 | TEMPERATURE SENSOR AX0631/060 | 4 | PC | 1001435 | 1001435 | 1001435 | 1001435 |
| 38 | COMPRESSOR RESISTOR | 1 | PC | 1001343 | 1001343 | 1001344 | 1001344 |
| 39 | GRAY TERMINAL BLOCK MA2 5/5 1SNA115486R0300 | 13 | PC | 1000071 | 1000071 | 1000071 | 1000071 |
| 40 | BOLT WITH POST 1SNA176282R2300 | 10 | PC | 1000158 | 1000158 | 1000158 | 1000158 |
| 41 | GROUND TERMINAL BLOCK 1SNA165488R2700 | 2 | PC | 1000204 | 1000204 | 1000204 | 1000204 |
| 42 | FUSE HOLDER TERMINAL BLOCK 1SNA115657R2500 | 1 | PC | 1000301 | 1000301 | 1000301 | 1000301 |
| 43 | SWITCH ROCKER ARM 1P-1T 4 AMP BTS-09 | 2 | PC | 1000166 | 1000166 | 1000166 | 1000166 |
| 44 | GROUND CLAMP COVER 1SNA103062R2100 | 2 | PC | 1000011 | 1000011 | 1000011 | 1000011 |
| 45 | RED SPIN BUTTON 1SFA619550R1041 | 1 | PC | 1042254 | 1042254 | 1042254 | 1042254 |
| 46 | SELECTOR TYPE HANDLE- OHYS3AH | 1 | PC | 1042145 | 1042145 | 1042145 | 1042145 |
| 47 | METAL ROD FOR SELECTOR-OXS6X120 | 1 | PC | 1042146 | 1042146 | 1042146 | 1042146 |
| 48 | SWITCHING | 1 | PC | 1042202 | 1042202 | 1042202 | 1042202 |
| 49 | 3 AMP FUSE | 4 | PC | 1000233 | 1000233 | 1000233 | 1000233 |
| 50 | 1 TO 25VCA EUROPEAN TYPE | 2 | PC | 1034404 | 1034404 | 1034404 | 1034404 |

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