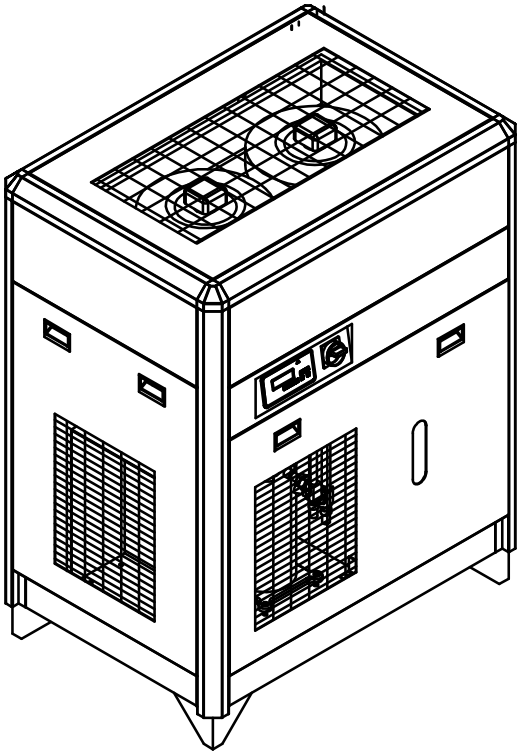
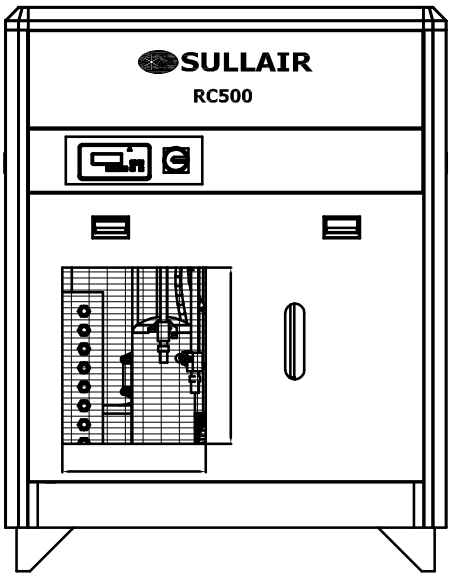
USER/SERVICE MANUAL

RC SERIES

REFRIGERATED CYCLING COMPRESSED AIR DRYER
150-3000 CFM





PART NUMBER:
02250195-402 R01

KEEP FOR FUTURE REFERENCE

WARRANTY NOTICE

Failure to follow the instructions and procedures in this manual or, misuse of this equipement will VOID its warranty!

The information in this manual is current as of its publication date, and applies to compressor **serial number**:

0711SA0250

and all subsequent serial numbers.

Always air. Always there.

AIR CARE SEMINAR TRAINING

Sullair Air Care Seminars are courses that provide hands-on instruction for the proper operation, maintenance, and servicing of Sullair products. Individual seminars on Industrial compressors and compressor electrical systems are offered at regular intervals throughout the year at Sullair's corporate headquarters training facility located at Michigan City, Indiana.

Instruction includes training on the function and installation of Sullair service parts, troubleshooting common faults and malfunctions, and actual equipment operation. These seminars are recommended for maintenance, contractor maintenance, and service personnel.

For detailed course outlines, schedule, and cost information contact:

SULLAIR TRAINING DEPARTMENT

1-888-SULLAIR or
219-879-5451 (ext. 5623)
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Sullair Corporation
3700 E. Michigan Blvd.
Michigan City, IN 46360
Attn: Service Training Department.

SULLAIR®

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Section 1
SAFETY INSTRUCTIONS

1.1 SAFETY REGULATIONS:

1. When operating the air dryer, the operator must adopt safe working methods and observe all local safety instructions and relevant regulations.
2. Prior to installation, the dryer and the compressed air system are to be depressurized and disconnected from the electrical main supply.
3. The user is responsible for safe operating conditions. Parts and accessories must be replaced if inspection shows that it is unsafe to operate the dryer.
4. Installation, operation, maintenance and repair are only to be performed by authorized, trained and skilled technicians.
5. The minimum and maximum values listed on the data label must be strictly followed. If your application does not fall within the parameters indicated on the data label—**STOP**. Contact your Sullair representative/ distributor and clarify the issue before proceeding or operating the dryer.
6. All safety procedures and practices mentioned in this manual must be observed, as well as all of the federal, state and local safety precautions.
7. If any statement in this manual does not comply with the local legislation, the strongest standard is to be applied.

1.2 ISSUES TO AVOID

1. Any structural changes made to the dryer without the advise of Sullair or Sullair representatives will void all warranty.
2. Compressed air from this dryer does not meet the OSHA standards for breathing and hence it should not be used for breathing purposes.

   None of the protective alarms, equipment or devices should be tampered with. These protective items have been designed and installed on this dryer for your safety.
3. Do not operate the dryer at pressures, temperatures of flow other than the ones mentioned on the data label.

1.3 RECEIVING AND INSPECTION

Sullair dryers are factory tested prior to shipment. However, during shipment, there are chances that the dryer was mishandled or certain parts were broken or might have come loose. In order to ensure that the dryer you have received is fit for installation and operation, we recommend you take a few minutes to inspect the dryer for any physical abuse or damage during shipment.

If you notice any damage to the shipment, we recommend you take the following steps to ensure proper arrangements can be made to address the issue.

1. Immediately file a complaint with the shipping company.
2. Contact Sullair or Sullair distributor and inform them of the damage. (Email or fax the copy of the shipper claim and acknowledgement)

If there is no physical damage to the dryer—

1. Remove all the crating and packaging.
2. Inspect the dryer for electrical and piping connection and make sure that they are all tight.
3. Check the data label, your packing slip and make sure that it is the correct unit you had ordered.
4. Follow the recommended safety procedures and get the dryer ready for installation.

1.4 TRANSPORTATION

1. Use care and caution when transporting the dryer. Avoid sudden jerks, tilting, dropping and other physical abuse.
2. A forklift can be used to transport the dryer provided the forks are long enough to support the full width or length. Caution must be used throughout the move.

1.5 INSTALLATION LAYOUT REQUIREMENTS

1. The dryer must be installed horizontally. A minimum of at least 1 ½ feet clearance around the dryer is necessary to allow free air circulation and easy access for servicing.
2. The ambient temperature in the room should not exceed 120° F and should not be below 40° F, taking into account the heat radiated by the dryer. (About 18 watts for each SCFM under ISO 7183-5 condition or 40 watt for each liter/sec under ISO 7183-A condition).

1.6 ENVIRONMENTAL PROTECTION

1. US/EU laws protect the environment against refrigerant being released into the atmosphere.
2. An annual leak control test at less than 5.0 gr/year should be performed by a qualified engineer if the refrigerant dryer contains more than 4.4 lbs/ 2 kg of refrigerant. This control test has to be done twice a year if the dryer contains more than 66 lbs/30 kg.
3. Prior to dryer disposal, the refrigerant must be properly recovered by a qualified engineer.

Section 2

INTRODUCTION

The Sullair Cycling Refrigerated air dryers are designed for constant full load operation. They use specially designed heat exchangers with integrated components to provide consistent dewpoint and trouble-free service for years to come.

The dryers remove the moisture, oil vapors and other harmful contaminants from the compressed air stream. By using basic refrigeration, the hot saturated air is cooled in the highly efficient heat-exchangers and the moisture is condensed and removed. Additional filtration eliminates other contaminants and particles.

Water (moisture) is one of the greatest enemies of air tools and piping. Left untreated in the compressed air stream, this moisture will deteriorate the tools, equipment and piping with corrosion, pipe scaling, freezing and a host of other problems that will diminish the life of your entire compressed air system. With a Sullair refrigerant dryer, you can be assured of clean, dry air with consistent dewpoint between 36 ~ 40 Deg. F. The unique three-in-one heat exchanger combination -

- **Air to Air**—
  Pre-cooler/re-heater Heat Exchanger
- **Air to Refrigerant**—
  High efficiency Heat Exchanger
- **Integrated Separator**—
  Located at the coldest point to maximize moisture extraction

heats up the exiting air, thereby eliminating the chances of freezing even in relatively cooler ambient conditions. Warm dry air will not affect the piping nor the tools and the result is extended tool life. In addition, applications that require clean dry air can rely upon Sullair's cycling refrigerated air dryers to provide dry air at full load continuously.

NOTES

Section 3

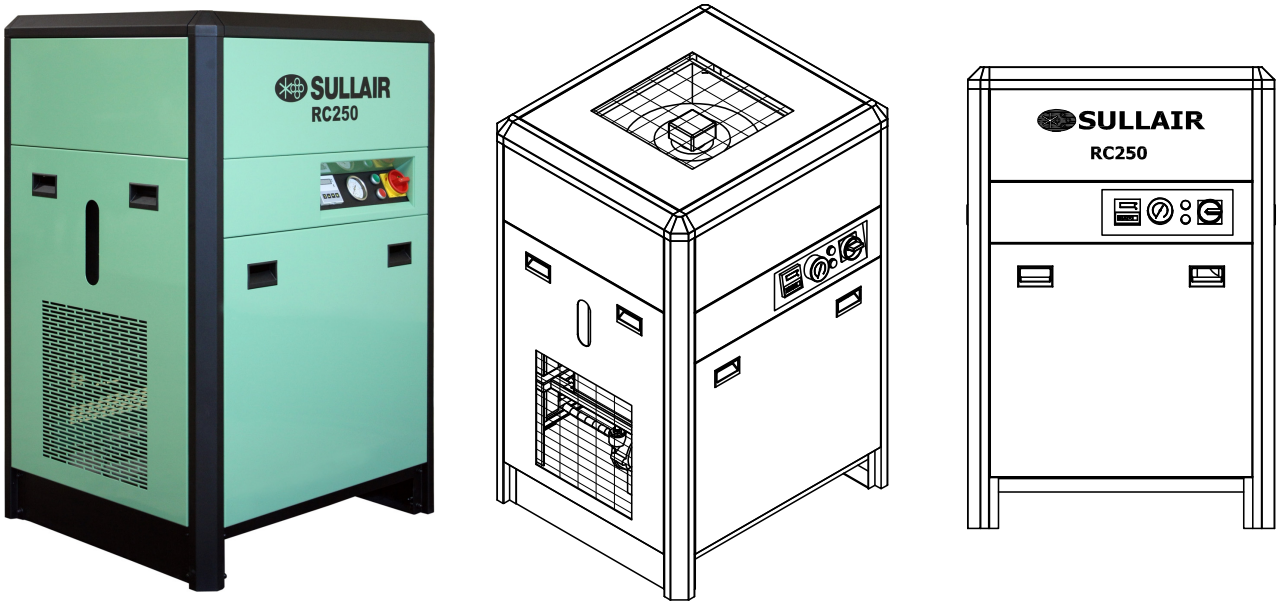
SPECIFICATIONS

Pay attention to the Minimum and Maximum operating conditions before installing and operating the dryer.

Normal Operating Pressure	100 PSIG
Normal Operating Temperature	100 Deg. F
Normal Ambient Temperature	100 Deg. F
Maximum Operating Pressure	230 PSIG
Minimum Operating Pressure	75 PSIG
Maximum Ambient Temperature	120 Deg. F
Minimum Ambient Temperature	40 Deg. F
Maximum Operating Temperature	150 Deg. F

If your application does not match the above criteria, contact your Sullair distributor and they will be able to provide the right dryer for your application.

3.1 PRODUCT PICTURE / PRODUCT FINAL ASSEMBLY DRAWING



3.2 PRODUCT MODELS AND SPECIFICATIONS

Cycling	RC	60	02250193-793	DRYER, RC150CFM, 115/1/60-AC	RC-0150-115-1-60-A	115/1/60	A
Cycling	RC	50	02250193-864	DRYER, RC150CFM, 220/1/50-AC	RC-0150-220-1-50-A	220/1/50	A
Cycling	RC	60	02250193-820	DRYER, RC150CFM, 208-230/1/60-AC	RC-0150-230-1-60-A	208-230/1/60	A
Cycling	RC	50	02250193-865	DRYER, RC175CFM, 220/1/50-AC	RC-0175-220-1-50-A	220/1/50	A
Cycling	RC	60	02250193-821	DRYER, RC175CFM, 208-230/1/60-AC	RC-0175-230-1-60-A	208-230/1/60	A
Cycling	RC	50	02250193-866	DRYER, RC200CFM, 220/1/50-AC	RC-0200-220-1-50-A	220/1/50	A
Cycling	RC	60	02250193-822	DRYER, RC200CFM, 208-230/1/60-AC	RC-0200-230-1-60-A	208-230/1/60	A
Cycling	RC	50	02250193-867	DRYER, RC250CFM, 220/1/50-AC	RC-0250-220-1-50-A	220/1/50	A
Cycling	RC	60	02250193-823	DRYER, RC250CFM, 230/3/60-AC	RC-0250-230-3-60-A	230/3/60	A
Cycling	RC	50	02250193-904	DRYER, RC250CFM, 400/3/50-AC	RC-0250-400-3-50-A	400/3/50	A
Cycling	RC	60	02250193-963	DRYER, RC250CFM, 460/3/60-AC	RC-0250-460-3-60-A	460/3/60	A
Cycling	RC	60	02250194-121	DRYER, RC250CFM, 575/3/60-AC	RC-0250-575-3-60-A	575/3/60	A
Cycling	RC	60	02250193-824	DRYER, RC325CFM, 230/3/60-AC	RC-0325-230-3-60-A	230/3/60	A
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Cycling	RC	60	02250194-122	DRYER, RC325CFM, 575/3/60-AC	RC-0325-575-3-60-A	575/3/60	A
Cycling	RC	60	02250193-825	DRYER, RC400CFM, 230/3/60-AC	RC-0400-230-3-60-A	230/3/60	A
Cycling	RC	60	02250193-854	DRYER, RC400CFM, 230/3/60-WC	RC-0400-230-3-60-W	230/3/60	W
Cycling	RC	50	02250193-906	DRYER, RC400CFM, 400/3/50-AC	RC-0400-400-3-50-A	400/3/50	A
Cycling	RC	50	02250193-930	DRYER, RC400CFM, 400/3/50-WC	RC-0400-400-3-50-W	400/3/50	W
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Cycling	RC	60	02250193-855	DRYER, RC500CFM, 230/3/60-WC	RC-0500-230-3-60-W	230/3/60	W
Cycling	RC	50	02250193-907	DRYER, RC500CFM, 400/3/50-AC	RC-0500-400-3-50-A	400/3/50	A
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Cycling	RC	60	02250193-856	DRYER, RC700CFM, 230/3/60-WC	RC-0700-230-3-60-W	230/3/60	W
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Cycling	RC	60	02250193-998	DRYER, RC700CFM, 460/3/60-WC	RC-0700-460-3-60-W	460/3/60	W
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Cycling	RC	60	02250194-126	DRYER, RC850CFM, 575/3/60-AC	RC-0850-575-3-60-A	575/3/60	A
Cycling	RC	60	02250194-153	DRYER, RC850CFM, 575/3/60-WC	RC-0850-575-3-60-W	575/3/60	W
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Cycling	RC	50	02250193-911	DRYER, RC1200CFM, 400/3/50-AC	RC-1200-400-3-50-A	400/3/50	A
Cycling	RC	50	02250193-936	DRYER, RC1200CFM, 400/3/50-WC	RC-1200-400-3-50-W	400/3/50	W
Cycling	RC	60	02250193-970	DRYER, RC1200CFM, 460/3/60-AC	RC-1200-460-3-60-A	460/3/60	A
Cycling	RC	60	02250194-101	DRYER, RC1200CFM, 460/3/60-WC	RC-1200-460-3-60-W	460/3/60	W
Cycling	RC	60	02250194-128	DRYER, RC1200CFM, 575/3/60-AC	RC-1200-575-3-60-A	575/3/60	A
Cycling	RC	60	02250194-155	DRYER, RC1200CFM, 575/3/60-WC	RC-1200-575-3-60-W	575/3/60	W
Cycling	RC	50	02250193-912	DRYER, RC1600CFM, 400/3/50-AC	RC-1600-400-3-50-A	400/3/50	A
Cycling	RC	50	02250193-937	DRYER, RC1600CFM, 400/3/50-WC	RC-1600-400-3-50-W	400/3/50	W
Cycling	RC	60	02250193-971	DRYER, RC1600CFM, 460/3/60-AC	RC-1600-460-3-60-A	460/3/60	A
Cycling	RC	60	02250194-102	DRYER, RC1600CFM, 460/3/60-WC	RC-1600-460-3-60-W	460/3/60	W
Cycling	RC	60	02250194-129	DRYER, RC1600CFM, 575/3/60-AC	RC-1600-575-3-60-A	575/3/60	A
Cycling	RC	60	02250194-156	DRYER, RC1600CFM, 575/3/60-WC	RC-1600-575-3-60-W	575/3/60	W
Cycling	RC	50	02250193-913	DRYER, RC2000CFM, 400/3/50-AC	RC-2000-400-3-50-A	400/3/50	A
Cycling	RC	50	02250193-938	DRYER, RC2000CFM, 400/3/50-WC	RC-2000-400-3-50-W	400/3/50	W
Cycling	RC	60	02250193-972	DRYER, RC2000CFM, 460/3/60-AC	RC-2000-460-3-60-A	460/3/60	A
Cycling	RC	60	02250194-103	DRYER, RC2000CFM, 460/3/60-WC	RC-2000-460-3-60-W	460/3/60	W
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Cycling	RC	60	02250194-104	DRYER, RC2000CFM, 460/3/60-WC	RC-2400-460-3-60-W	460/3/60	W
Cycling	RC	60	02250194-131	DRYER, RC2400CFM, 575/3/60-AC	RC-2400-575-3-60-A	575/3/60	A
Cycling	RC	60	02250194-158	DRYER, RC2400CFM, 575/3/60-WC	RC-2400-575-3-60-W	575/3/60	W
Cycling	RC	50	02250193-915	DRYER, RC3000CFM, 400/3/50-AC	RC-3000-400-3-50-A	400/3/50	A
Cycling	RC	50	02250193-940	DRYER, RC3000CFM, 400/3/50-WC	RC-3000-400-3-50-W	400/3/50	W
Cycling	RC	60	02250193-974	DRYER, RC3000CFM, 460/3/60-AC	RC-3000-460-3-60-A	460/3/60	A
Cycling	RC	60	02250194-105	DRYER, RC3000CFM, 460/3/60-WC	RC-3000-460-3-60-W	460/3/60	W
Cycling	RC	60	02250194-132	DRYER, RC3000CFM, 575/3/60-AC	RC-3000-575-3-60-A	575/3/60	A
Cycling	RC	60	02250194-159	DRYER, RC3000CFM, 575/3/60-WC	RC-3000-575-3-60-W	575/3/60	W

NOTES

Section 4
PRODUCT DESCRIPTION

This refrigerated compressed air dryer has been designed to remove water vapor from industrial compressed air that is free of any aggressive contaminants like ammonia, gaseous acid, dust, rust, liquid condensate, any other chemical or mineral substances capable of attacking or clogging the heat exchanger(s).

The optional, water-cooled condenser is not designed for use with seawater or water containing aggressive contaminants.

Please contact your factory representative for further questions on this issue. This dryer has been designed for indoor operation only.

The minimum and maximum values stated must be observed, as well as the safety precautions described in this manual.

4.1 PRODUCT FEATURES

4.1.1 REFRIGERANT COMPRESSOR

The refrigerant compressor is fully hermetically sealed and requires no maintenance.

4.1.2 CONDENSER

1. Air cooled models: The refrigerant condenser is equipped with fans that are cycled on and off to maintain a minimum high side pressure.
2. Water-cooled dryers Utilize a water control valve piloted by a sensing bulb that reacts to the high side refrigerant pressure controlling the water flow Maintain a minimum high side pressure.

4.1.3 REFRIGERANT CIRCUIT PROTECTION

1. Overload protector:
   Single phase compressors are equipped with an overload protector which is a current/temperature switch that reacts to the motor winding amps and temperature of the compressor motor. When the switch detects a high current or a high temperature condition with the compressor motor it opens causing loss of voltage to the compressor. This switch automatically resets as the motor cools down to a factory preset temperature. This cool down period can take as long as 8 hours. A waRCing lamp will light to indicate that the protector has tripped.
2. High/Low pressure safety switch:
   Refrigerant circuits are protected against excessive pressure by a safety switch that stops the compressor in cases of high or low refrigerant pressure. If this safety switch has tripped out on high refrigerant pressure, it has to be manually reset before the dryer can be restarted. A low pressure trip will automatically reset

4.1.4 FILTER DRYER

Total water removal in the refrigerant circuit is achieved by a filter dryer who also traps any solid particles that may have migrated into the circuit during assembly.

4.1.5 CRANKCASE HEATER

3-Phase dryers are equipped with an electric crankcase heater. The heater provides preliminary pre-heating of the refrigerant compressor to evaporate liquid refrigerant possibly condensed in the crankcase. This will prevent liquid shock that can damage the compressor.

4.1.6 REFRIGERANT CIRCUIT REGULATION IN RC-0150 – RC-3000

1. The liquid refrigerant is injected into the evaporator through a metering device trying to maintain the refrigerant in the evaporator at a constant pressure
2. The evaporating pressure is kept constant by a controlled injection of hot gas from the high-pressure side into the low-pressure section of the circuit through a hot gas by-pass valve. This constant pressure corresponds to a stable evaporating temperature adjusted as close to 32 Deg. F as possible.
3. The mixture of hot gas from the by-pass valve and cold gas from the evaporator is called superheat and is adjusted at (50 ± 5) Deg. F

4.1.7 CONDENSATE DRAIN - TRAP ASSEMBLY

Dismantling the drain is easy because it can be isolated from the air circuit under pressure with a ball valve. Always isolate the drain before disassembly.

4.1.8 HEAT EXCHANGER, MODULAR DESIGN

The dryers are equipped with compact, modular design heat exchangers. This assembly has been specially designed to dry compressed air and consists of:

1. An air/air heat exchanger which pre-cools the entering hot air with the exiting chilled air.
2. An evaporator which is an air/refrigerant heat exchanger which cools down the compressed air
3. An integral separator that separates the moisture from the air stream at the coldest point. Maximum condensation of moisture occurs at the coldest point and it is at that exact junction that the moisture is removed and drained.

4.1.9 ELECTRONIC CONTROL PANEL

It is important to note that when changing the controller's reading from C to F or F to C the technician must change all of the parameters. The controller program lists each temperature setting one at a time for programming. The last parameter is the displayed reading. Once the controller is set to read either C or F it will then read all of the parameter settings as that scale.

Example: The AStL (low glycol temp set point) is set from the factory at 1◦C.

The technician changes the scale from Centigrade to Fahrenheit.

The AStL parameter will now read 1◦F.

The dryer will now try to pull the glycol temperature down to 1◦F causing the dryer to freeze.

The AStL parameter will now need to reset to 28 which will be read by the controller as 28◦F.

PROCEDURE TO CHANGE THE CONTROLLER FROM CENTIGRADE TO FAHRENHEIT:

The controller is password protected. Press the Enter and the Star key at the same time to display the password screen. Use the Up arrow to display the number 10 and press Enter.

The first parameter is AStL (Alarm ; Low glycol temperature set point). AStL will flash on the screen and then the current value will be displayed. Use the Up arrow to change the value to 28 (28◦F). Press the Enter button.

The second parameter is AStH (Alarm; High glycol temperature set point). AStH will flash quickly on the display and then show the current setting. Use the Up arrow to change the value to 58 (58◦F). Press Enter to move to the next parameter.

The next parameter is SEtL (Set point; low glycol temperature). SEtL will display for about one second and then the current value will be displayed. Use the Up arrow to change the value to 28 (28◦F). Press Enter to accept this value and move to the next parameter.

The fourth parameter is SEtH (Set point; high glycol temperature). SEtH will display quickly on then the current parameter value will be displayed. Use the Up arrow to change this value to 36 (36◦F). Press the Enter button to accept the setting and move to the next parameter.

The fifth parameter is SFt (calibration setting). This parameter should be set at 0. This parameter is only used for calibration of the temperature probe. Press Enter.

The sixth parameter is UNt (Units). UNt will display then quickly show the current value. 0 is for Centigrade and 1 is for Fahrenheit. Press Enter to accept the value.

The display will now roll back to the first parameter (AStL).

Use the Star key to exit the program mode.

PROCEDURE TO CHANGE THE CONTROLLER FROM FAHRENHEIT TO CENTIGRADE:

Use the above procedure to change the values at each parameter. The list below will give you the settings needed to operate in a Centigrade scale.

AStL: -4

AStH:14

SEtL:-2

SEtH: 2

SFt:0

UNt:0

Press Star to exit the programming mode.

NOTES

Section 5
PRINCIPLE OF OPERATION

The refrigerant circuit can be divided in 3 parts:

1. Low pressure section with an evaporator (heat exchanger)
2. High pressure section including: Condenser, liquid receiver, (if installed) and the filter dryer.
3. Control circuit including: Compressor, metering device, hot gas by-pass valve (if installed), fan pressure switch, safety high/low pressure switch. Water cooled dryers are equipped with a water flow control valve.

5.1 REFRIGERATION HEAT EXCHANGER

1. There are two (2) basic sections, commonly referred to as the high and low-pressure sections, in a refrigeration circuit. The high side begins at the refrigerant compressor discharge port and ends at the expansion devise. The circuit leaving the expansion devise through the air to refrigerant heat exchanger and up to the compressor suction port is known as the low pressure circuit. The compressor takes in low pressure refrigerant gas and compresses it to a high pressure and high temperature gas. The high temperature gas passes into the refrigerant condenser where it is cooled and liquefied. The refrigerant then passes through the filter dryer where moisture and any foreign particles are removed. The refrigerant then passes through an expansion device where the liquid refrigerant is throttled and a temperature drop will occur as part of the liquid turns into gas. The cold refrigerant gas and liquid then enters the refrigerant-to-glycol heat exchanger where it absorbs the heat from the glycol as it evaporates. The low-pressure refrigerant gas returns to the compressor for repetition of the process.
2. Glycol Side: The thermal mass is food safe and environmentally friendly polypropylene glycol solution. It is pumped continuously through the heat exchangers to eliminate any dew point fluctuations commonly found in other cycling dryers. The glycol is stored in a stainless steel insulated tank with welded connections. The glycol flows through the pump to the Air-to-Glycol chamber located in what is commonly termed as the heat exchanger where it cools the compressed air by counter flow. From there, it travels to the evaporator where heat is extracted out by the refrigerant. The heat saturated glycol then returns to the storage tank. A temperature probe in the tank monitors the temperature and turns off the compressor when the glycol reaches its set point. A float switch inside the glycol tank shuts off the unit if the glycol level drops below the minimum height.
3. Refrigerant controls: High-low refrigerant cut-out switch senses high and low refrigerant pressure at refrigerant compressor inlet and outlet ports shutting the compressor down in the event of high refrigerant discharge pressures or low refrigerant suction pressure.
4. Liquid line filter dryer: Filters refrigerant of moisture and any foreign particles. Must be replaced if the refrigerant system has been opened causing exposure to atmospheric pressures.
5. Expansion device: Meters refrigerant flow in the evaporator.
6. Electronic drain valve: An electronic drain valve on the separator is designed to open and close automatically to drain away condensate.
7. Crank case heater: A safety device which prevents refrigerant migration back to the compressor during shutdown.
8. Air cooled models Cooling air flows from the front to the back of the dryer. Air must be drawn from a clean source in order to reduce

dust and dirt accumulation on the condenser coils. Air temperature should not exceed 110ºF(43ºC). A clearance of 24 inches (61 cm)

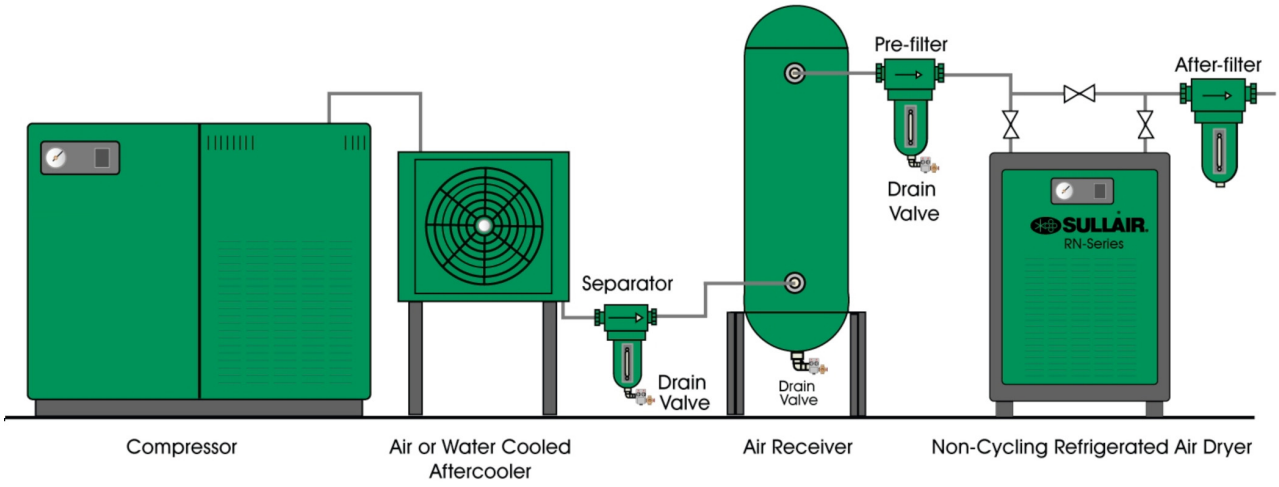
9. Fan motor and compressor rotation: This unit has been equipped with a phase sensing controller. If the unit will not start please reverse any two of the three phases and restart the unit. Cooling air should exhaust through the condenser coils away from the fan motors.

5.2 COMPRESSED AIR HEAT EXCHANGER

AIR TO AIR SIDE

1. Pre cooling: Warm, saturated compressed air enters the air-to-air heat exchanger, where it is cooled by the outgoing cooled compressed air flowing in a counter flow direction.
2. Pre-separation: As the air is pre-cooled, some of the moisture condenses. During this phase, all condensed moisture and oil is separated from the compressed air.
3. Thermal Mass: The air then enters and is further cooled in the refrigeration air to glycol chamber. The air stream is cooled to 35-39ºF (1.6-3.8ºC), reducing its dew point to this temperature.
4. Separation: As the air is cooled in the air to glycol chamber, the moisture condenses into a liquid. At this point, all liquid, passing through the separator is removed from the air stream and drained away with an electronic drain
5. Recuperation: The cold, dry air is reheated by incoming warm air as it passes back through the air to air heat exchanger in a counter flow direction.

5.3 TYPICAL INSTALLATION DIAGRAM



5.4 PIPE/CONNECTION REQUIREMENTS

Refer to *Section 3.2: Product Models and Specifications*.

5.5 ELECTRICAL CONNECTION REQUIREMENTS

The owner shall furnish all labor, materials, equipment and services necessary for and reasonabaly incidental to complete the installation of all electrical as shown on the drawings.

The electrical installation and connection shall be made in strict accordance with the requirements of any and all City, County, State or Federal codes of Law having jurisdiction, the requirements and recommendations of the Board of Fire Underwriters, including all amendments and / or additions to the said codes, laws, requirements, and recommendations, the requirements and recommendations of the local utility, the Owner, and the Standard Building Code.

The installer shall obtain all permits and inspections required for the work, and shall pay all costs and fees thereof.

5.6 OPERATING PRECAUTIONS

⚠ WARNING

Verify that the operating parameters match with the nominal values stated on the data nameplate of the dryer (voltage, frequency, air pressure, air temperature, ambient temperature, etc.).

This dryer has been thoroughly tested, packaged and inspected prior to shipment. Nevertheless, the unit could be damaged during transportation, check the integrity of the dryer during first start-up and monitor operation during the first hours of operation

Qualified personnel must perform the first start-up.

When installing and operating this equipment, comply with all National Electrical Code and any applicable federal, state and local codes.

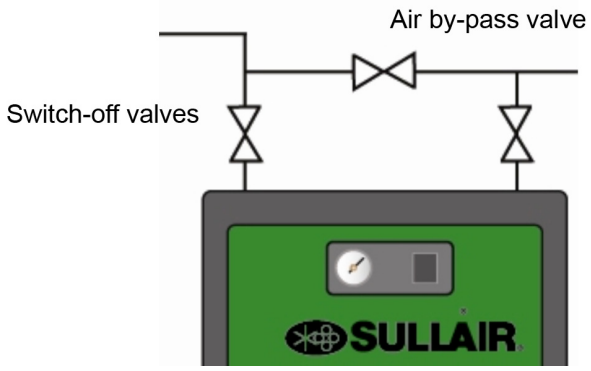
Who is operating the unit is responsible for the proper and safe operation of the dryer.

Never operate equipment with panels removed.

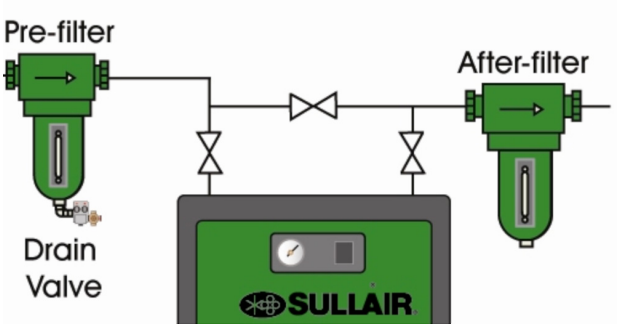
5.7 INSTALLATION

In addition to the general mechanical construction procedures and local regulations, the following instructions need to be emphasized:

1. Only authorized, trained and skilled engineers should install the compressed air dryer.
2. Safety devices, protecting covers or insulations in the dryer are never to be removed or modified. Each pressure vessel or accessory installed outside the dryer with compressed air (Any pressure above atmospheric pressure) must be fitted with individual pressure relief safety valves.
3. Need to add electrical specifications. Such as wire size, fuse size, breaker sizing, specify which models are single phase and which models are three phase.
4. Install one (1) air by-pass valve and two (2) switch off valves in the line before the dryer to allow easy maintenance and for possible isolation of the dryer without interrupting the compressed air flow.



5. In Line Filters: install one compressed air filter in line (particulate filter) before the dryer to protect it against dirt and possible clogging of heat exchanger. Install an After-filter (coalescing filter) that can act as a backup during short periods when the by-pass valve is open to perform maintenance on the dryer. Contact your Sullair representative/dealer for suitable filters.



6. Water Filter: For dryers with water cooled condensers, a water filter should be installed in the supply water piping. (Water Cooled Units Only)
7. The interconnecting piping must be of the correct size and match that of the dryer Inlet and Outlet pipe sizes. DO NOT use pipes of lesser diameter as this will lead to additional pressure loss and will affect the performance of your air dryer. If you are in doubt, contact your Sullair distributor. It is recommended to use the same pipe size as that of the dryer Inlet and Outlet.

STEPS TO UNDERTAKE BEFORE OPERATING

1. Read this manual completely.
2. Review all safety precautions.
3. Use recommended pipe sizes as per specifications.
4. DO NOT operate the dryer at pressures above the maximum specified on the dryer label (check the technical specifications).
5. DO NOT operate the dryer in temperatures above 120°F (50°C) degrees
6. DO NOT operate the dryer with inlet air temperatures above 150°F (65°C)

5.8 OPERATING PROCEDURES

5.8.1 STARTUP PROCEDURES

Initial Startup Procedures The following procedure must be followed. Failure to do so could damage your dryer and invalidate the warranty. Before starting.

1. Be sure dryer 'on/off' switch is in the 'off' position and connect power to dryer.
2. Turn power on only at the branch circuit breaker or fuseable disconnect for 24 hours prior to starting the dryer. This will allow pre-heating of the refrigerant oil preventing liquid refrigerant washing of the oil due to refrigerant migration and allow easier staring of the compressor.
3. Make sure the air inlet and outlet piping is piped correctly and piping is supported correctly. Do not use the dryers inlet and outlet connections ports as a means of supporting the piping.
4. Make sure condensate lines are run properly and to the correct locations.
5. Verify the condensate drain on and off time. Manufacturing studies have shown that a time setting of 5 minutes off and 5 seconds on have the best value. During periods of high humidity it is recommended that 'off' time and 'on' time is checked to validate that all condensation is being removed. It is possible that the off time may need to be decreased and the on time increased
6. Check that there is adequate ventilation on all air cooled units.
7. For water cooled units, make sure cooling water is being supplied to the unit.
8. Confirm proper inlet air pressure, temperature, and flow to the dryer.
9. Pressurize the unit by opening an air inlet valve with the bypass valve open and the air outlet valve closed (3 valve bypass is option offered by Sullair). 12. Push the green on switch. The 'dryer on' light will illuminate and the compressor will start (If dryer does not start reverse any two of the 3 phases).
10. Slowly open the air outlet valve to pass compressed air through the dryer and close the optional bypass valve if installed

3-Phase dryers equipped with 3-Phase fan(s) are supplied with a phase controller to avoid a dryer starting if fan(s) are turning in the wrong direction. It is necessary to invert two phases if phase controller doesn't allow dryer to start

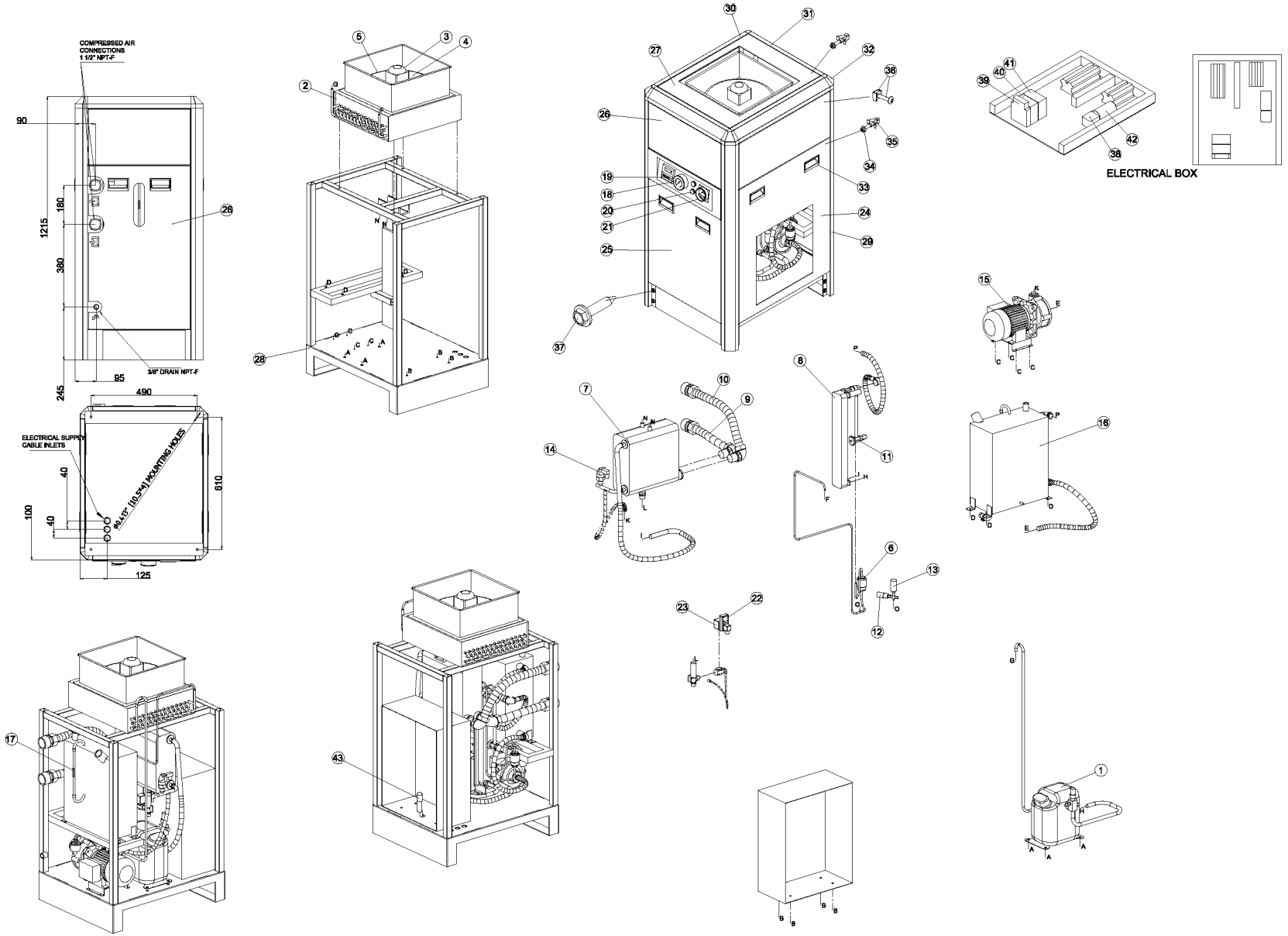
5.8.2 SHUT DOWN PROCEDURES

1. Press the red off button.
2. If unit is water cooled 10-15 minutes after the unit shuts down, cooling water can be shut down.
3. Turn off main disconnect if necessary. WARNING Dryer failure resulting from a dirty condenser is not covered under warranty. Air Cooled Condenser Maintenance Procedures Air cooled condensers may be cleaned by blowing clean with a compressed air blow gun or by cleaning with a soft brush. Low pressure team cleaning or condenser cleaning chemicals may be necessary for heavy deposits. Do not use wire brushes as this may bend the fins, causing leaks. Straighten any bent fins and fan blades. Monthly inspection of the condenser is recommended, More frequent service may be required if dryer is located in a dusty or dirty area. Ambient air filters are required for dryers located in an excessively dusty or dirty environment.

MAINTAINING THE AUTO DRAIN

1. Turn dryer on/off switch to 'off' position.
2. Disconnect power supply to the dryer.
3. Lockout and tag power supply in accordance with OSHA regulations.
4. If applicable, switch dryer to bypass mode.
5. Remove filter strainer and clean.
6. Disassemble the solenoid valve, and clean or replace all parts necessary.
7. Reassemble valve and test, using the test button on the electronic drain timer panel.
8. Repressurize system and test drain by using the test button on the electronic drain timer panel.

5.9 ED—RC 175



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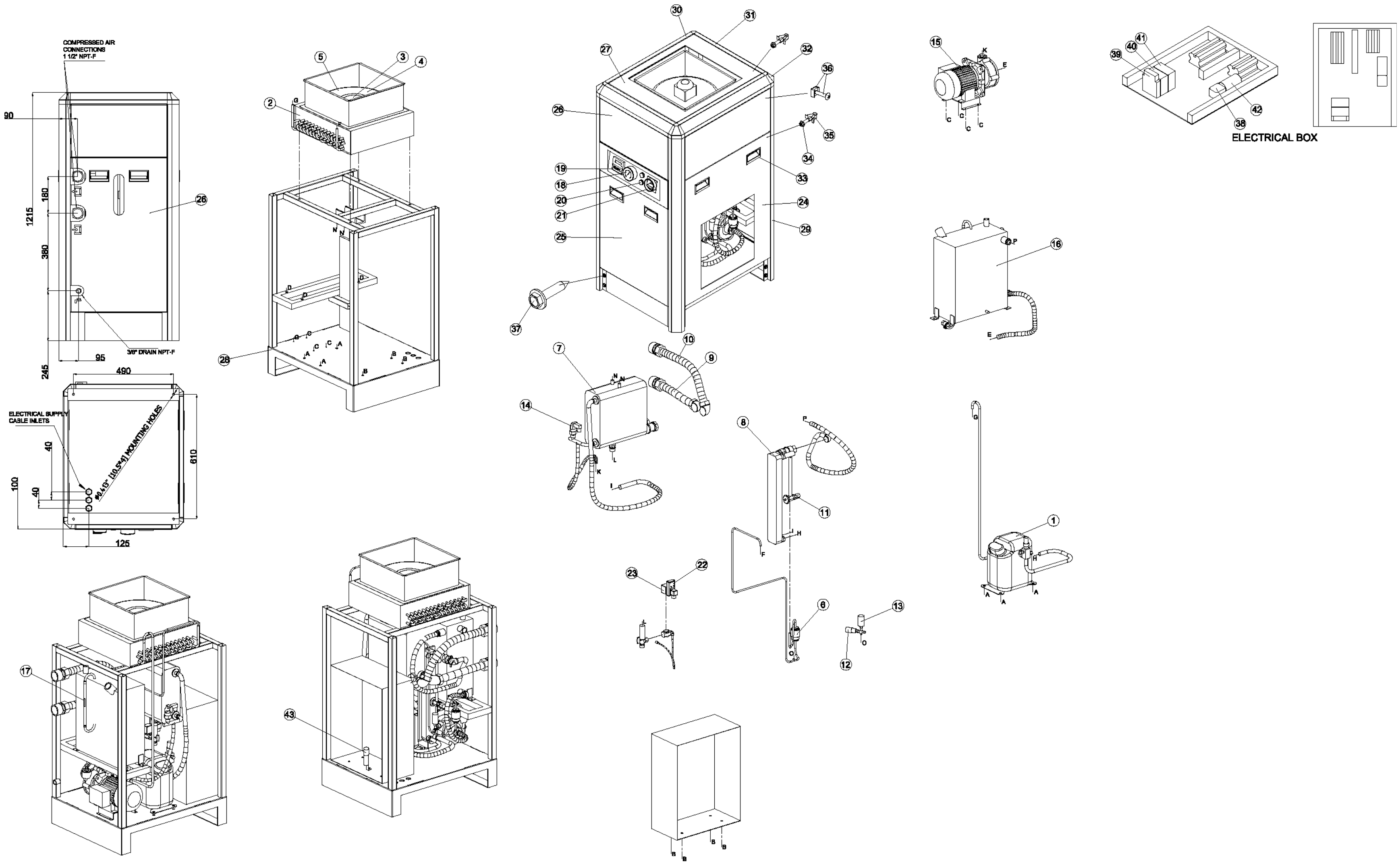
5.9 ED—RC 175

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-0200-230-1-60-A	COMPRESSOR	1
2	M-CON-0175	CONDENSER	1
3	M-FMT-0200-230-1-50	FAN MOTOR	1
4	M-FAN-0200	FAN BLADE	1
5	M-GRL-0200	FAN GRILL	1
6	M-DRI-0200	DRIER-DEHYDRATOR	1
7	M-EXC-0200	HEAT EXCHANGER	1
8	M-WHC-0200	EVAPORATOR (WATER HEAT EXCHANGER)	1
9	M-INL-0150	FLEXIBLE STEEL TUBE (INLET)	1
10	M-OTL-0150	FLEXIBLE STEEL TUBE (OUTLET)	1
11	M-EXV-200	EXPANSION VALVE	1
12	M-HPS-0200	HIGH PRESSURE SECURITY SWITCH	1
13	M-FNS-0200	FAN ON/OFF SWITCH	1
14	M-WPS-3000	WATER PRESSURE SWITCH	1
15	M-PMP-0325-230-1-60	WATER PUMP	1
16	M-WTA-0175	WATER TANK	1
17	M-LIN-3000	LEVEL INDICATOR	1
18	M-WAG-3000	WATER GAUGE	1
19	M-DGC-3000	DIGITAL CONTROLLER	1
20	M-ONB-0200	ON/OFF BUTTON	1
21	M-MNS-0700	MAIN SWITCH	1
22	M-TMR-3000	TIMER	1
23	M-SLV-250-230	SELENOID VALVE	1
24	M-CFR-0200	CABINET FRONT	1
25	M-CSI-0200	CABINET SIDE	2
26	M-CRE-0200	CABINET REAR	1
27	M-CTO-0200	CABINET TOP	1
28	M-CBA-0200	CABINET BASE	1
29	M-CBL-0200	CABINET LEG	4
30	M-HP1-0200	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-0200	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-CSR-0200-230-1-60	COMPRESSOR START RELAY	1
39	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
40	M-CNT-0400	CONTACTOR	1
41	M-WPC-3000	WATER PUMP CONTACTOR	1
42	M-CSC-200-230-1-60	COMPRESSOR START CAPACITOR	1
43	M-RUN-0325-230-1-60	RUN CAPACITOR	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING
RC175	175	02250193-865	220V/1Ph/ 50Hz	AIR COOLED
RC175	175	02250193-821	208-230V/ 1Ph/60Hz	AIR COOLED

5.10 ED—RC 200



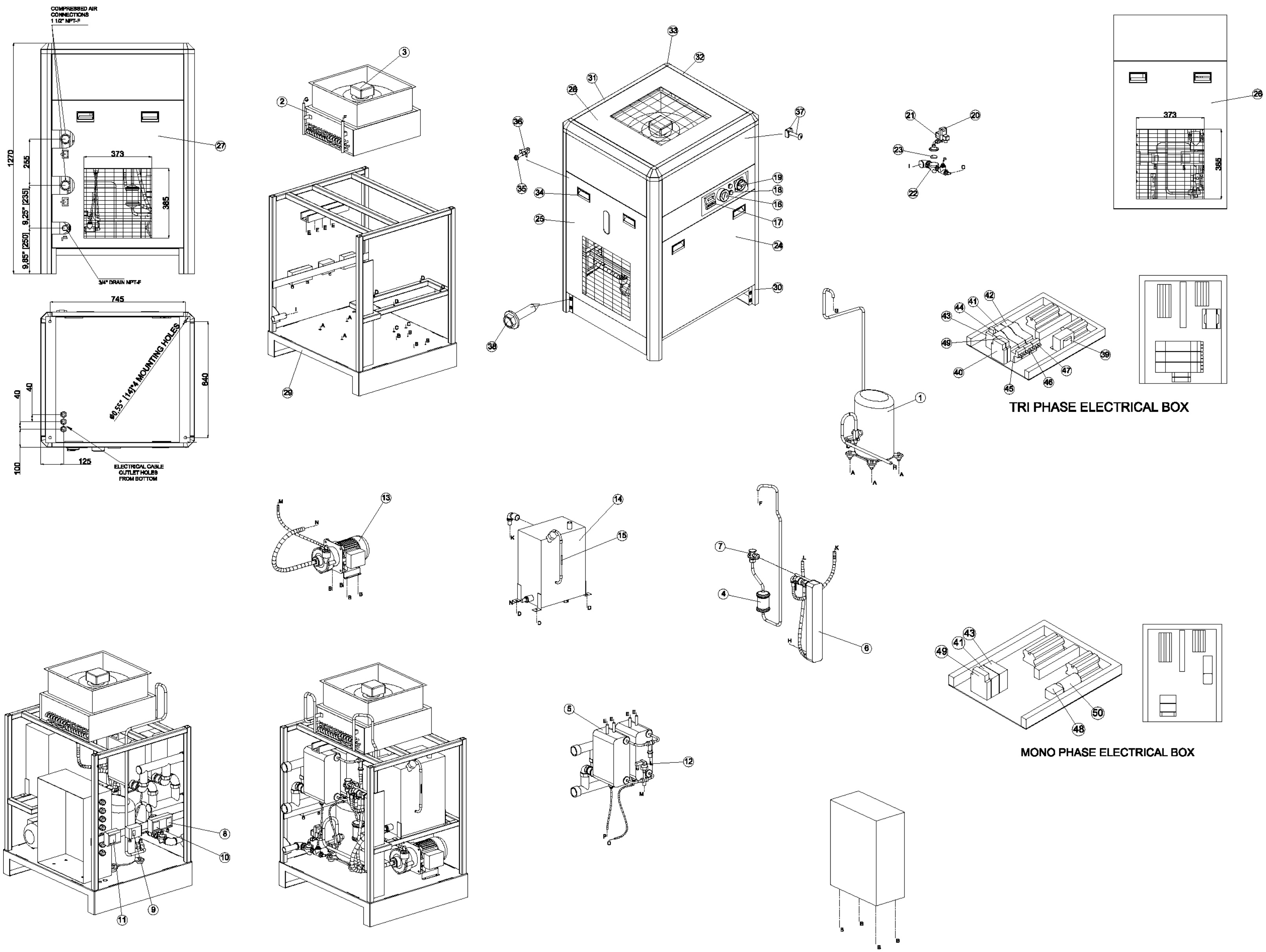
02250195-243

5.10 ED—RC 200

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-0200-230-1-60-A	COMPRESSOR	1
2	M-CON-0175	CONDENSER	1
3	M-FMT-0200-230-1-60	FAN MOTOR	1
4	M-FAN-0200	FAN BLADE	1
5	M-GRL-0200	FAN GRILL	1
6	M-DRI-0200	DRIER-DEHYDRATOR	1
7	M-EXC-0200	HEAT EXCHANGER	1
8	M-WHC-0200	EVAPORATOR (WATER HEAT EXCHANGER)	1
9	M-INL-0150	FLEXIBLE STEEL TUBE (INLET)	1
10	M-OTL-0150	FLEXIBLE STEEL TUBE (OUTLET)	1
11	M-EXV-200	EXPANSION VALVE	1
12	M-HPS-0200	HIGH PRESSURE SECURITY SWITCH	1
13	M-FNS-0200	FAN ON/OFF SWITCH	1
14	M-WPS-3000	WATER PRESSURE SWITCH	1
15	M-PMP-0325-230-1-60	WATER PUMP	1
16	M-WTA-0200	WATER TANK	1
17	M-LIN-3000	LEVEL INDICATOR	1
18	M-WAG-3000	WATER GAUGE	1
19	M-DGC-3000	DIGITAL CONTROLLER	1
20	M-ONB-0200	ON/OFF BUTTON	1
21	M-MNS-0700	MAIN SWITCH	1
22	M-TMR-3000	TIMER	1
23	M-SLV-250-230	SELENOID VALVE	1
24	M-CFR-0200	CABINET FRONT	1
25	M-CSI-0200	CABINET SIDE	2
26	M-CRE-0200	CABINET REAR	1
27	M-CTO-0200	CABINET TOP	1
28	M-CBA-0200	CABINET BASE	1
29	M-CBL-0200	CABINET LEG	4
30	M-HP1-0200	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-0200	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-CSR-0200-230-1-60	COMPRESSOR START RELAY	1
39	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
40	M-CNT-0400	CONTACTOR	1
41	M-WPC-3000	WATER PUMP CONTACTOR	1
42	M-CSC-0200-230-1-60	COMPRESSOR START CAPACITOR	1
43	M-RUN-0325-230-1-60	RUN CAPACITOR	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING
RC200	200	02250193-866	220V/1Ph/ 50Hz	AIR COOLED
RC200	200	02250193-822	208-230V/ 1Ph/60Hz	AIR COOLED

5.11 ED—RC 250


COMPRESSED AIR CONNECTIONS 1 1/2" NPT-F
3/4" DRAIN NPT-F
ELECTRICAL CABLE OUTLET HOLES FROM BOTTOM
1270
373
385
745
840
125
TRI PHASE ELECTRICAL BOX
MONO PHASE ELECTRICAL BOX

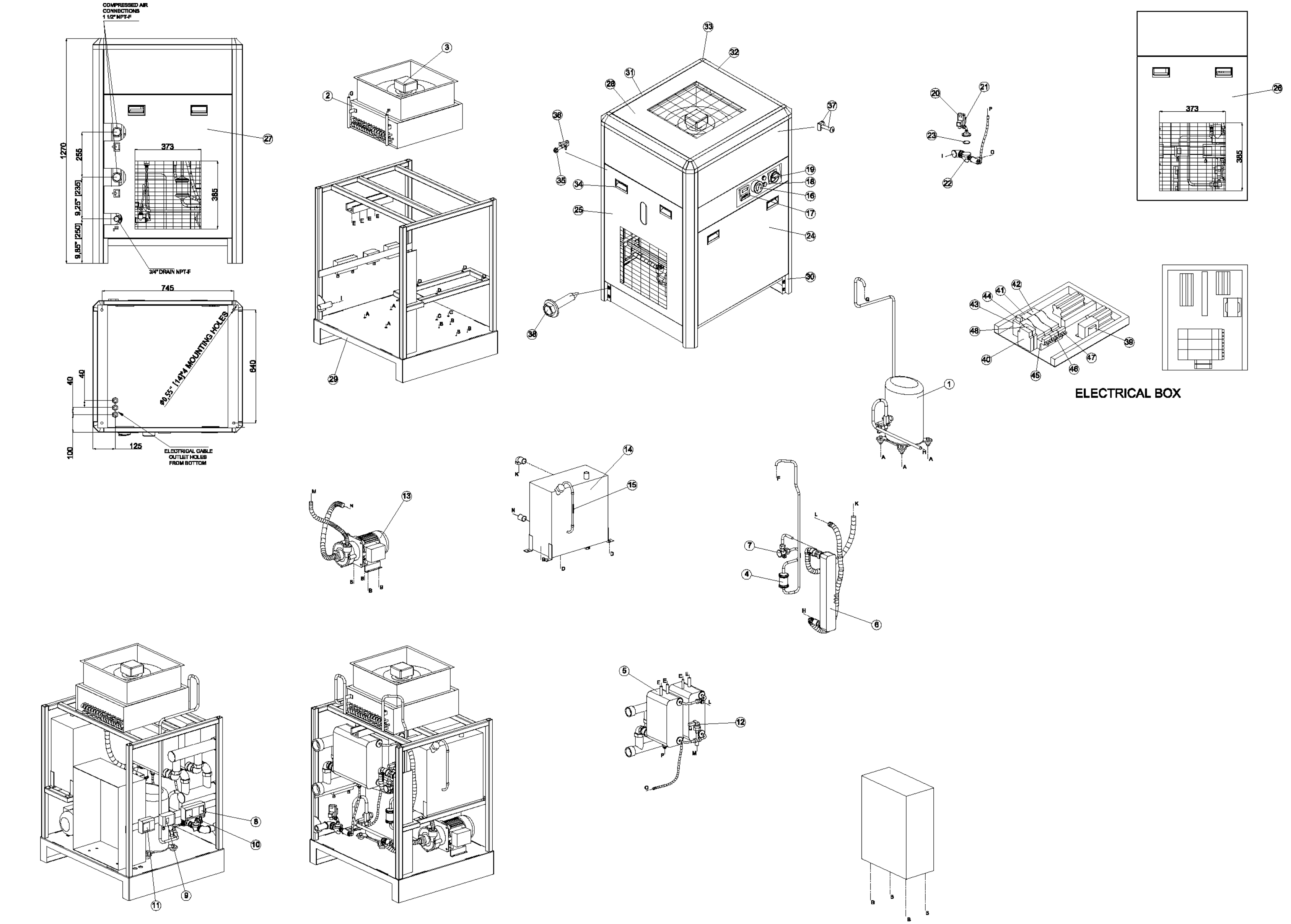
5.11 ED—RC 250

KEY	PART NO.	DESCRIPTIONS	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0325	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	1
4	M-DRI-1000	DRIER-DEHYDRATOR	1
5	M-EXC-0125	HEAT EXCHANGER	2
6	M-WHC-0400	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-850	EXPANSION VALVE	1
8	M-HPS-1000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	1
10	M-LPS-1000	LOW PRESSURE SWITCH	1
11	M-THS-0325	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0250	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	SEE REF. TABLE	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-250-230	SELENOID VALVE	1
22	M-MMV-1000	MEMBRANE VALVE	1
23	M-MMM-1000	MEMBRANE	1
24	M-CFR-0400-C	CABINET FRONT	1
25	M-CLE-0400-C	CABINET SIDE-LEFT	2

KEY	PART NO.	DESCRIPTIONS	QTY
26	M-CRI-0400-C	CABINET SIDE-RIGHT	2
27	M-CRE-0400-C	CABINET REAR	1
28	M-CTO-0400-C	CABINET TOP	1
29	M-CBA-0400-C	CABINET BASE	1
30	M-CBL-0400-C	CABINET LEG	4
31	M-HP1-0400-C	CABINET HORIZONTAL PROFILE 1	2
32	M-HP2-0400-C	CABINET HORIZONTAL PROFILE 2	2
33	M-CTC-3000	CABINET TOP CORNER	4
34	M-CPS-3000	CABINET HANDLE	8
35	M-STU-3000	CABINET STUD AND NUT	12
36	M-FAS-3000	CABINET FASTENER	12
37	M-NUT-3000	CAGE NUT AND SCREW	16
38	M-SCR-3000	SCREW TYPE 2	16
39	M-TRF-1000	TRANSFORMER	1
40	M-PPR-1000	PHASE PROTECTION RELAY	1
41	M-CNT-0400	CONTACTOR	1
42	M-FCN-1000	FAN CONTACTOR	1
43	M-WPC-3000	WATER PUMP CONTACTOR	1
44	M-SEC-1000	SECONDARY CONTACT	1
45	M-WPP-1000	WATER PUMP PROTECTOR	1
46	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
47	M-FOP-3000	FAN OVERLOAD PROTECTOR	1
48	M-CSR-0250-220-1-50	COMPRESSOR START RELAY	1
49	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
50	M-CSC-250-220-1-50	COMPRESSOR START CAPACITOR	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	ON-OFF BUTTON	COMPRESSOR OVERLOAD PROTECTOR
RC250	250	02250193-867	220V/1Ph/50Hz	AIR COOLED	M-CMP-0250-220-1-50-A	M-FMT-0325-220-1-50-A	M-PMP-0250-220-1-50-A	M-ONB-1000	M-COP-0250-220-1-50-A
RC250	250	02250193-823	230V/3Ph/60Hz	AIR COOLED	M-CMP-0250-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-0250-230-3-60-A	M-ONB-3000	M-COP-0250-230-3-60-A
RC250	250	02250193-904	400V/3Ph/50Hz	AIR COOLED	M-CMP-0250-460-3-60-A	M-FMT-0700-400-3-50-A	M-PMP-0250-460-3-60-A	M-ONB-3000	M-COP-0250-460-3-60-A
RC250	250	02250193-963	460V/3Ph/60Hz	AIR COOLED	M-CMP-0250-460-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-0250-460-3-60-A	M-ONB-3000	M-COP-0250-460-3-60-A
RC250	250	02250194-121	575V/3Ph/60Hz	AIR COOLED	M-CMP-0250-575-3-60-A	M-FMT-0700-575-3-60-A	M-PMP-0250-575-3-60-A	M-ONB-3000	M-COP-0250-575-3-60-A

5.12 ED—RC 325



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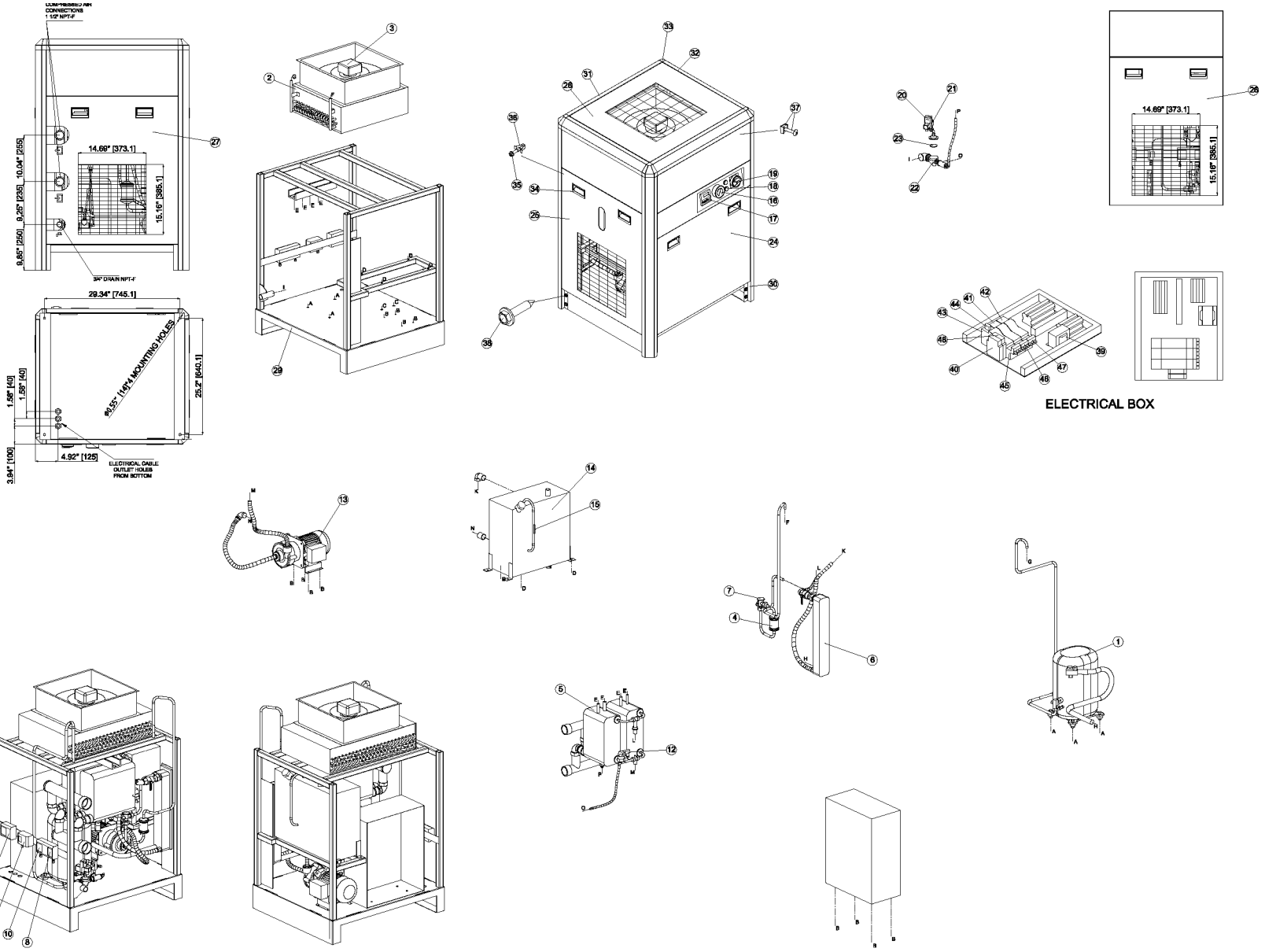
5.12 ED—RC 325

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0325	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	1
4	M-DRI-1000	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	2
6	M-WHC-0400	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-850	EXPANSION VALVE	1
8	M-HPS-1000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	1
10	M-LPS-1000	LOW PRESSURE SWITCH	1
11	M-THS-0325	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0325	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-3000-24	SELENOID VALVE	1
22	M-MMV-1000	MEMBRANE VALVE	1
23	M-MMM-1000	MEMBRANE	1
24	M-CFR-0400-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CLE-0400-C	CABINET SIDE-LEFT	2
26	M-CRI-0400-C	CABINET SIDE-RIGHT	2
27	M-CRE-0400-C	CABINET REAR	1
28	M-CTO-0400-C	CABINET TOP	1
29	M-CBA-0400-C	CABINET BASE	1
30	M-CBL-0400-C	CABINET LEG	4
31	M-HP1-0400-C	CABINET HORIZONTAL PROFILE 1	2
32	M-HP2-0400-C	CABINET HORIZONTAL PROFILE 2	2
33	M-CTC-3000	CABINET TOP CORNER	4
34	M-CPS-3000	CABINET HANDLE	8
35	M-STU-3000	CABINET STUD AND NUT	12
36	M-FAS-3000	CABINET FASTENER	12
37	M-NUT-3000	CAGE NUT AND SCREW	16
38	M-SCR-3000	SCREW TYPE 2	16
39	M-TRF-1000	TRANSFORMER	1
40	M-PPR-1000	PHASE PROTECTION RELAY	1
41	M-CNT-0400	CONTACTOR	1
42	M-FCN-1000	FAN CONTACTOR	1
43	M-WPC-3000	WATER PUMP CONTACTOR	1
44	M-SEC-1000	SECONDARY CONTACT	1
45	M-WPP-1000	WATER PUMP PROTECTOR	1
46	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
47	M-FOP-3000	FAN OVERLOAD PROTECTOR	1
48	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	COMPRESSOR OVERLOAD PROTECTOR
RC325	325	02250193-824	230V/3Ph/60Hz	AIR COOLED	M-CMP-0325-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-0325-230-1-60-A	M-COP-0325-230-3-60-A
RC325	325	02250193-905	400V/3Ph/50Hz	AIR COOLED	M-CMP-0325-400-3-50-A	M-FMT-0700-460-3-50-A	M-PMP-0325-400-1-50-A	M-COP-0325-400-3-50-A
RC325	325	02250193-964	460V/3Ph/60Hz	AIR COOLED	M-CMP-0325-460-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-0325-460-3-60-A	M-COP-0325-460-3-60-A
RC325	325	02250194-122	575V/3Ph/60Hz	AIR COOLED	M-CMP-0325-575-3-60-A	M-FMT-0700-575-3-50-A	M-PMP-0325-575-3-60-A	M-COP-0325-575-3-60-A
RC325	325	02250193-824	230V/3Ph/60Hz	AIR COOLED	M-CMP-0325-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-0325-230-1-60-A	M-COP-0325-230-3-60-A

5.13 ED—RC 400


14.69" [373.1]
15.16" [385.1]
9.65" [250]
9.25" [235]
10.04" [255]
3/4" DRAIN NPT-F
29.34" [745.1]
25.2" [640.1]
1.58" [40]
1.58" [40]
3.94" [100]
4.92" [125]
ELECTRICAL CABLE OUTLET HOLES FROM BOTTOM
ELECTRICAL BOX

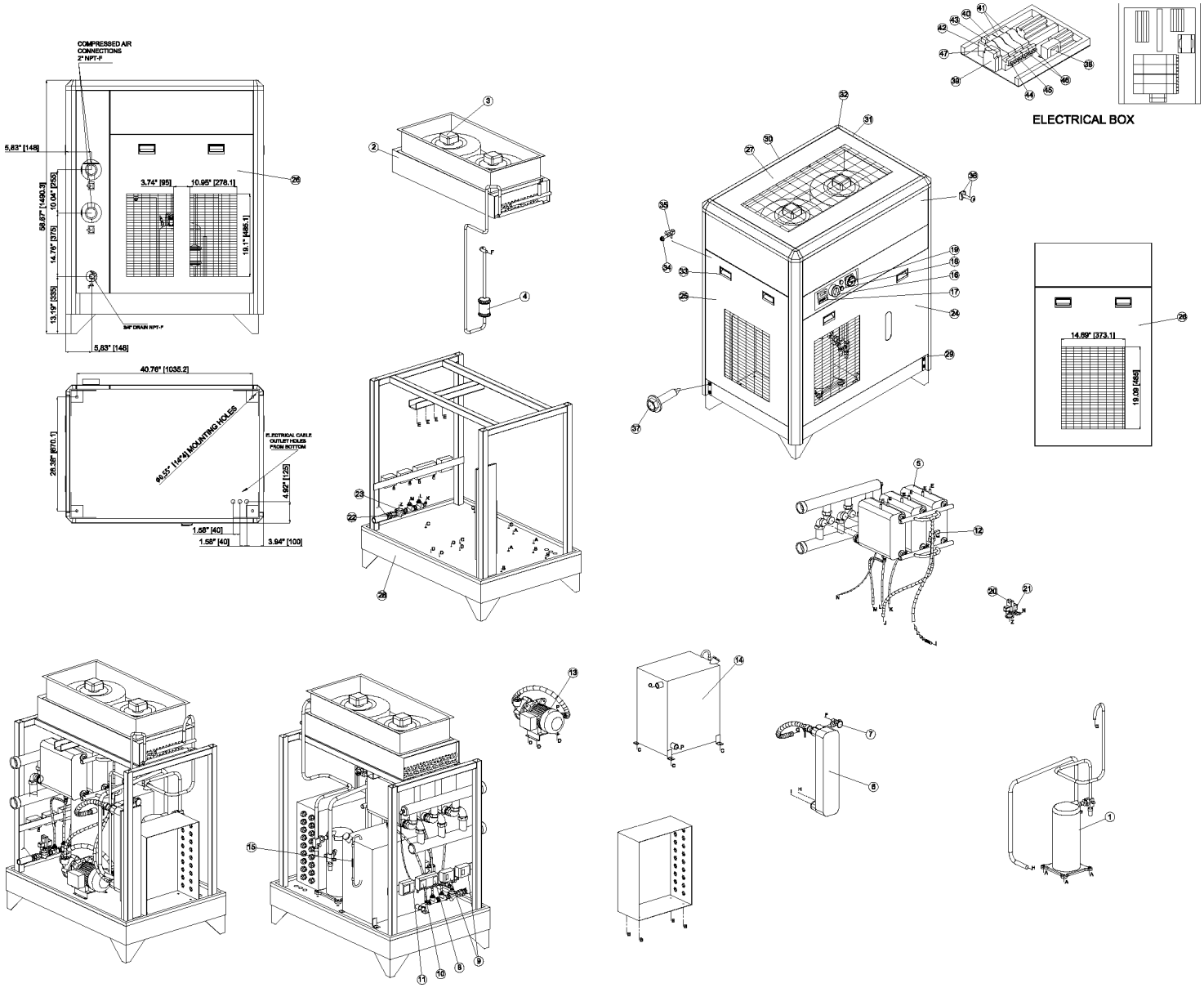
5.13 ED—RC 400

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0400	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	1
4	M-DRI-1000	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	2
6	M-WHC-0400	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-850	EXPANSION VALVE	1
8	M-HPS-1000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	1
10	M-LPS-1000	LOW PRESSURE SWITCH	1
11	M-THS-0325	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0400	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-3000-24	SELENOID VALVE	1
22	M-MMV-1000	MEMBRANE VALVE	1
23	M-MMM-1000	MEMBRANE	1
24	M-CFR-0400-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CLE-0400-C	CABINET SIDE-LEFT	2
26	M-CRI-0400-C	CABINET SIDE-RIGHT	2
27	M-CRE-0400-C	CABINET REAR	1
28	M-CTO-0400-C	CABINET TOP	1
29	M-CBA-0400-C	CABINET BASE	1
30	M-CBL-0400-C	CABINET LEG	4
31	M-HP1-0400-C	CABINET HORIZONTAL PROFILE 1	2
32	M-HP2-0400-C	CABINET HORIZONTAL PROFILE 2	2
33	M-CTC-3000	CABINET TOP CORNER	4
34	M-CPS-3000	CABINET HANDLE	8
35	M-STU-3000	CABINET STUD AND NUT	12
36	M-FAS-3000	CABINET FASTENER	12
37	M-NUT-3000	CAGE NUT AND SCREW	16
38	M-SCR-3000	SCREW TYPE 2	16
39	M-TRF-1000	TRANSFORMER	1
40	M-PPR-1000	PHASE PROTECTION RELAY	1
41	M-CNT-0400	CONTACTOR	1
42	M-FCN-1000	FAN CONTACTOR	1
43	M-WPC-3000	WATER PUMP CONTACTOR	1
44	M-SEC-1000	SECONDARY CONTACT	1
45	M-WPP-1000	WATER PUMP PROTECTOR	1
46	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
47	M-FOP-3000	FAN OVERLOAD PROTECTOR	1
48	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	COMPRESSOR OVERLOAD PROTECTOR
RC400	400	02250193-825	230V/3Ph/60Hz	AIR COOLED	M-CMP-0400-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0400-230-3-60-A
RC400	400	02250193-906	400V/3Ph/50Hz	AIR COOLED	M-CMP-0400-400-3-50-A	M-FMT-0700-460-3-50-A	M-PMP-1000-400-3-50-A	M-COP-0400-400-3-50-A
RC400	400	02250193-965	460V/3Ph/60Hz	AIR COOLED	M-CMP-0400-460-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-460-3-60-A	M-COP-0400-460-3-60-A
RC400	400	02250194-123	575V/3Ph/60Hz	AIR COOLED	M-CMP-0400-575-3-60-A	M-FMT-0700-575-3-50-A	M-PMP-1000-575-3-60-A	M-COP-0400-575-3-60-A
RC400	400	02250193-825	230V/3Ph/60Hz	AIR COOLED	M-CMP-0400-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0400-230-3-60-A

5.14 ED—RC 500


COMPRESSED AIR CONNECTIONS 2" NPT-F
3/4" DRAIN NPT-F
ELECTRICAL BOX
40.76" [1035.2]
ELECTRICAL CABLE OUTLET HOLES FROM BOTTOM
1.58" [40]
1.58" [40]
3.94" [100]

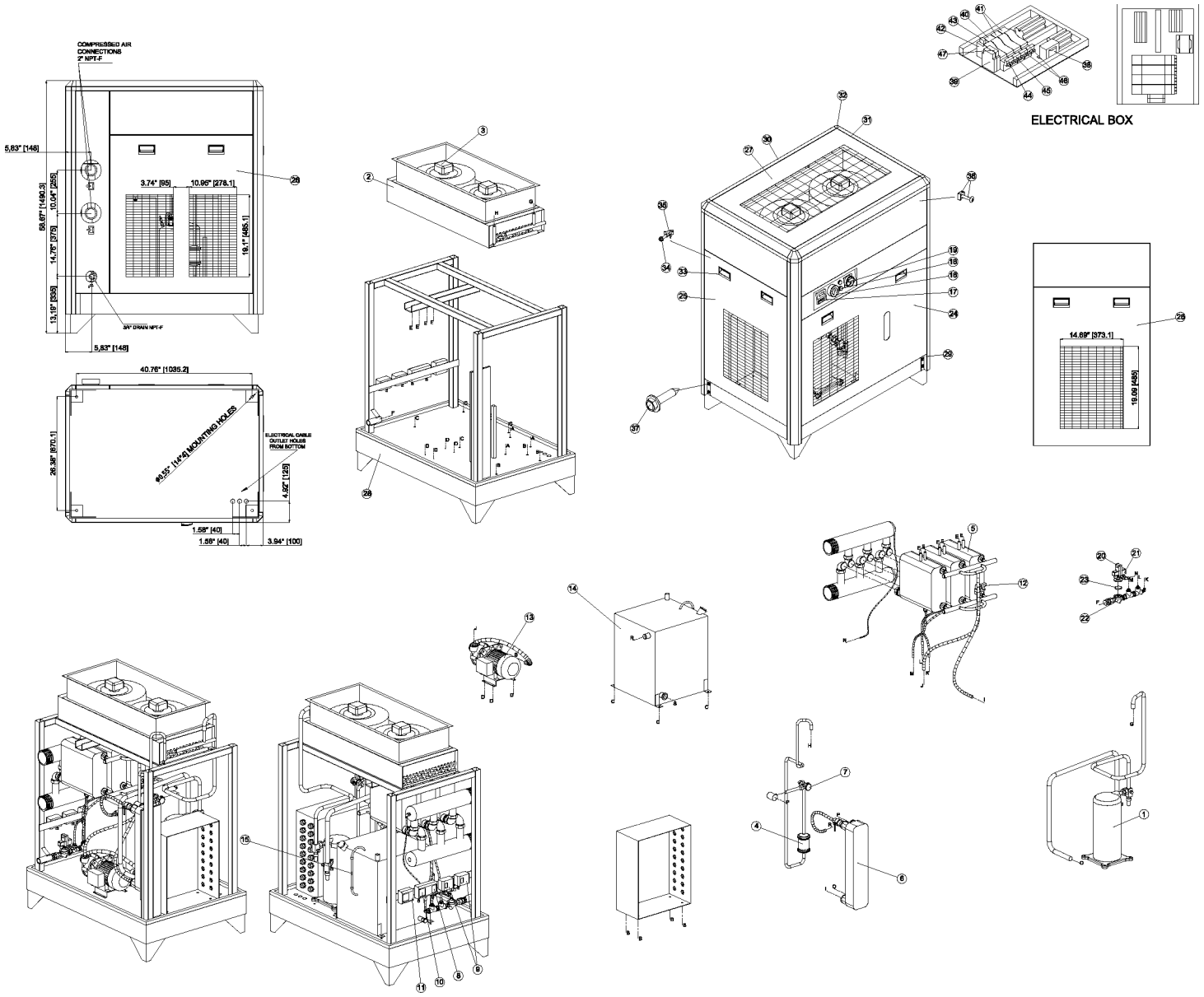
5.14 ED—RC 500

KEY	PART NUMBER	DESCRIPTION	QYY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0500	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	1
4	M-DRI-1000	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	3
6	M-WHC-0500	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-1000	EXPANSION VALVE	1
8	M-HPS-1000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-1000	LOW PRESSURE SWITCH	1
11	M-THS-0325	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0500	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-3000-24	SELENOID VALVE	1
22	M-MMV-1000	MEMBRANE VALVE	1
23	M-MMM-1000	MEMBRANE	1
24	M-CFR-0850-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QYY
25	M-CSD-0850-C	CABINET SIDE	2
26	M-CRE-0500-C	CABINET REAR	1
27	M-CTO-0700-C	CABINET TOP	1
28	M-CBA-0850C	CABINET BASE	1
29	M-CBL-0850-C	CABINET LEG	4
30	M-HP1-0850-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-0850-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-1000	TRANSFORMER	1
39	M-PPR-1000	PHASE PROTECTION RELAY	1
40	M-CNT-0850	CONTACTOR	1
41	M-FCN-1000	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-1000	SECONDARY CONTACT	1
44	M-WPP-1000	WATER PUMP PROTECTOR	1
45	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-3000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	COMPRESSOR OVERLOAD PROTECTOR
RC500	500	02250193-826	230V/3Ph/60Hz	AIR COOLED	M-CMP-0500-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0500-230-3-60-A
RC500	500	02250193-907	400V/3Ph/50Hz	AIR COOLED	M-CMP-0500-230-3-60-A	M-FMT-0700-460-3-50-A	M-PMP-1000-400-3-50-A	M-COP-0500-230-3-60-A
RC500	500	02250193-966	460V/3Ph/60Hz	AIR COOLED	M-CMP-0500-460-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-460-3-60-A	M-COP-0500-460-3-60-A
RC500	500	02250194-124	575V/3Ph/60Hz	AIR COOLED	M-CMP-0500-575-3-60-A	M-FMT-0700-575-3-50-A	M-PMP-1000-575-3-60-A	M-COP-0500-575-3-60-A
RC500	500	02250193-826	230V/3Ph/60Hz	AIR COOLED	M-CMP-0500-230-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0500-230-3-60-A

5.15 ED—RC 700


COMPRESSED AIR CONNECTIONS 2" NPT-F
5.83" [148]
3.74" [95]
10.96" [278.1]
59.67" [1490.3]
10.04" [255]
14.76" [375]
19.1" [485.1]
13.19" [335]
3/4" DRAIN NPT-F
5.83" [148]
40.76" [1035.2]
26.38" [670.1]
Ø.55" [14*9] MOUNTING HOLES
ELECTRICAL CABLE OUTLET HOLES FROM BOTTOM
4.92" [125]
1.58" [40]
1.58" [40]
3.94" [100]
ELECTRICAL BOX
14.69" [373.1]
18.09" [459]

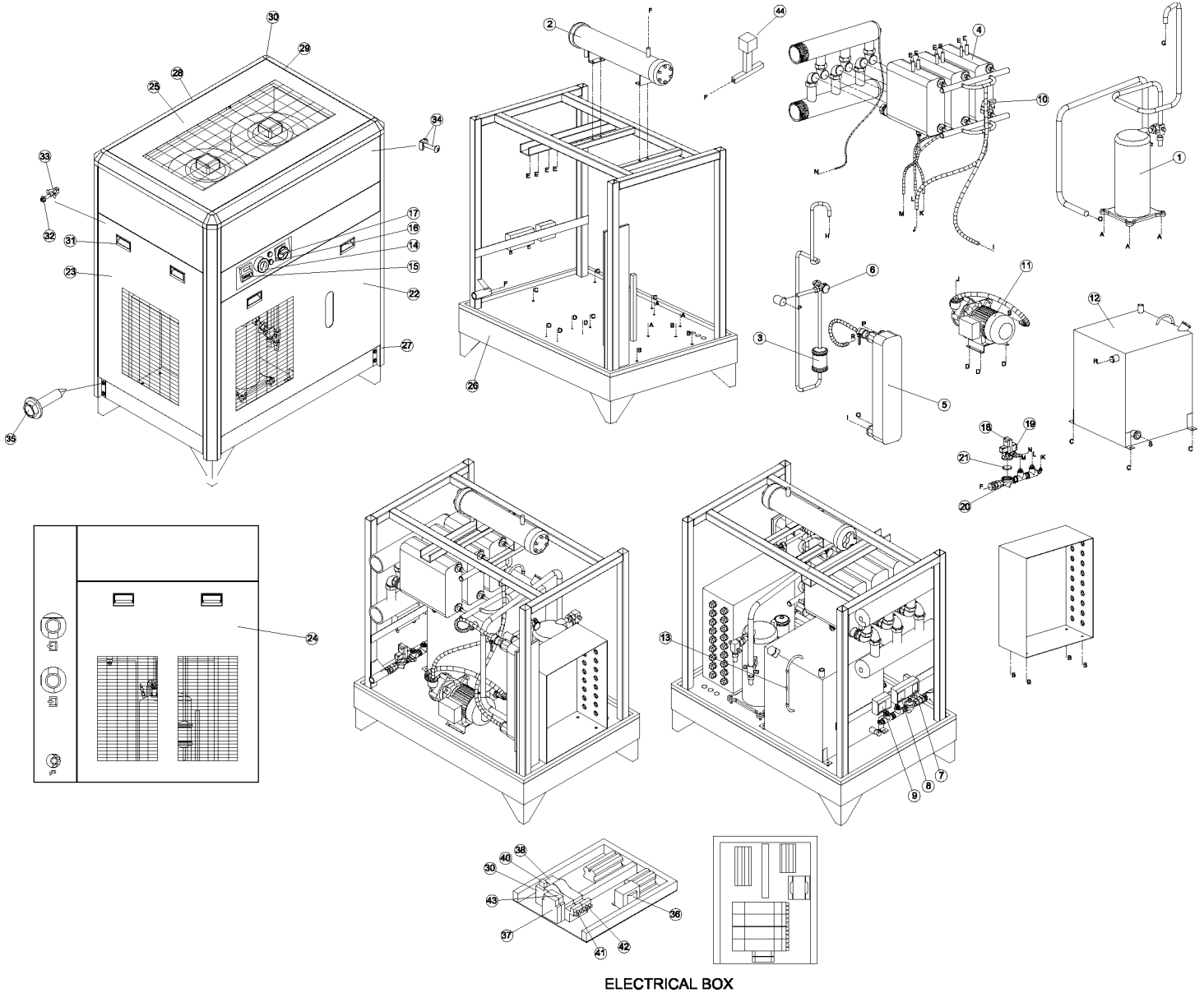
5.15 ED—RC 700

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0700	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	1
4	M-DRI-1000	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	3
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-1000	EXPANSION VALVE	1
8	M-HPS-1000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-1000	LOW PRESSURE SWITCH	1
11	M-THS-0325	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0700	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-3000-24	SELENOID VALVE	1
22	M-MMV-1000	MEMBRANE VALVE	1
23	M-MMM-1000	MEMBRANE	1
24	M-CFR-0850-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-0850-C	CABINET SIDE	2
26	M-CRE-0850-C	CABINET REAR	1
27	M-CTO-0850-C	CABINET TOP	1
28	M-CBA-0850-C	CABINET BASE	1
29	M-CBL-0850-C	CABINET LEG	4
30	M-HP1-0850-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-0850-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-1000	TRANSFORMER	1
39	M-PPR-1000	PHASE PROTECTION RELAY	1
40	M-CNT-0850	CONTACTOR	1
41	M-FCN-1000	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-1000	SECONDARY CONTACT	1
44	M-WPP-1000	WATER PUMP PROTECTOR	1
45	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-3000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	COMPRESSOR OVERLOAD PROTECTOR
RC500	500	02250193-826	230V/3Ph/60Hz	AIR COOLED	M-CMP-0700-230-3-60-A	M-FMT-0700-230-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0700-230-3-60-A
RC500	500	02250193-907	400V/3Ph/50Hz	AIR COOLED	M-CMP-0700-460-3-50-A	M-FMT-0700-460-3-50-A	M-PMP-1000-400-3-50-A	M-COP-0700-460-3-50-A
RC500	500	02250193-966	460V/3Ph/60Hz	AIR COOLED	M-CMP-0700-460-3-60-A	M-FMT-0700-460-3-60-A	M-PMP-1000-460-3-60-A	M-COP-0700-460-3-60-A
RC500	500	02250194-124	575V/3Ph/60Hz	AIR COOLED	M-CMP-0700-575-3-60-A	M-FMT-0700-575-3-50-A	M-PMP-1000-575-3-60-A	M-COP-0700-575-3-60-A
RC500	500	02250193-826	230V/3Ph/60Hz	AIR COOLED	M-CMP-0700-230-3-60-A	M-FMT-0700-230-3-60-A	M-PMP-1000-230-3-60-A	M-COP-0700-230-3-60-A

5.16 ED—RC 700 WATER COOLED



ELECTRICAL BOX

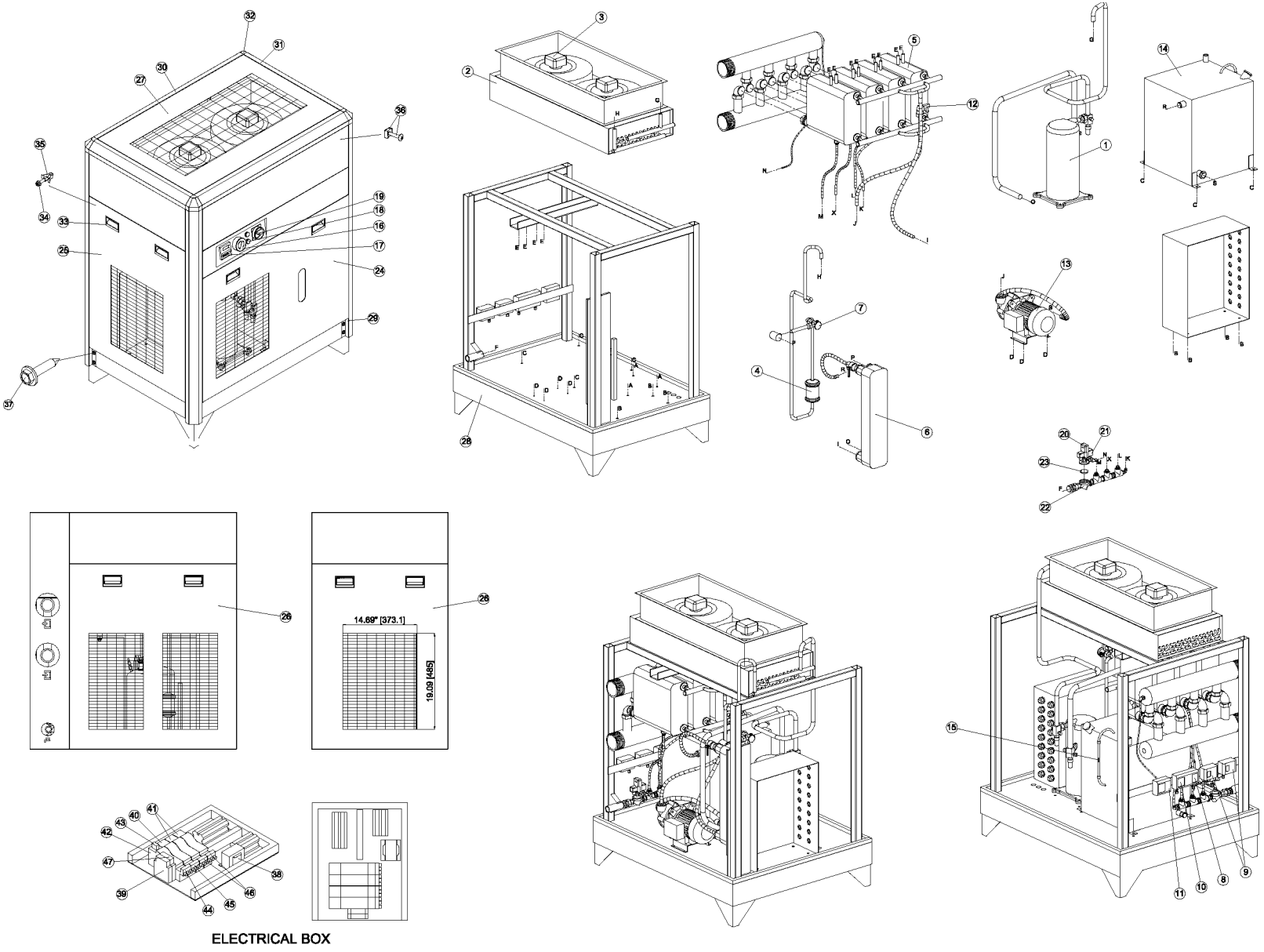
5.16 ED—RC 700 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-0700-W	CONDENSER	1
3	M-DRI-1200	DRIER-DEHYDRATOR	1
4	M-EXC-0200	HEAT EXCHANGER	3
5	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-1000	EXPANSION VALVE	1
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-0850-460-3-60	WATER PUMP	1
12	M-WTA-0700	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-1600	MAIN SWITCH	1
18	M-TMR-3000	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	3
21	M-MMM-2400	MEMBRANE	3
22	M-CFR-0850-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-0850-C	CABINET SIDE	2
24	M-CRE-0700-C	CABINET REAR	1
25	M-CTO-0700-C	CABINET TOP	1
26	M-CBA-0850-C	CABINET BASE	1
27	M-CBL-0-850-C	CABINET LEG	4
28	M-HP1-0850-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-0850-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-1000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-3000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-0700-460-3-60-A	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
43	M-WVF-0700	WATER VALVE	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATING	COOLING	COMPRESSOR	COMPRESSOR OVERLOAD PROTECTOR
RC700	700 CFM	02250193-856	230V/3PH/60HZ	WATER COOLED	M-CMP-0700-230-3-60-A	M-COP-0850-230-3-60-A
RC700	700 CFM	02250193-933	400V/3PH/50HZ	WATER COOLED	M-CMP-0700-460-3-60-A	M-COP-0850-460-3-60-A
RC700	700 CFM	02250193-998	460V/3PH/60HZ	WATER COOLED	M-CMP-0700-460-3-60-A	M-COP-0850-460-3-60-A
RC700	700CFM	02250194-152	575V/3PH/60HZ	WATER COOLED	M-CMP-0700-460-3-60-A	M-COP-0850-460-3-60-A

5.17 ED—RC 850 AIR COOLED



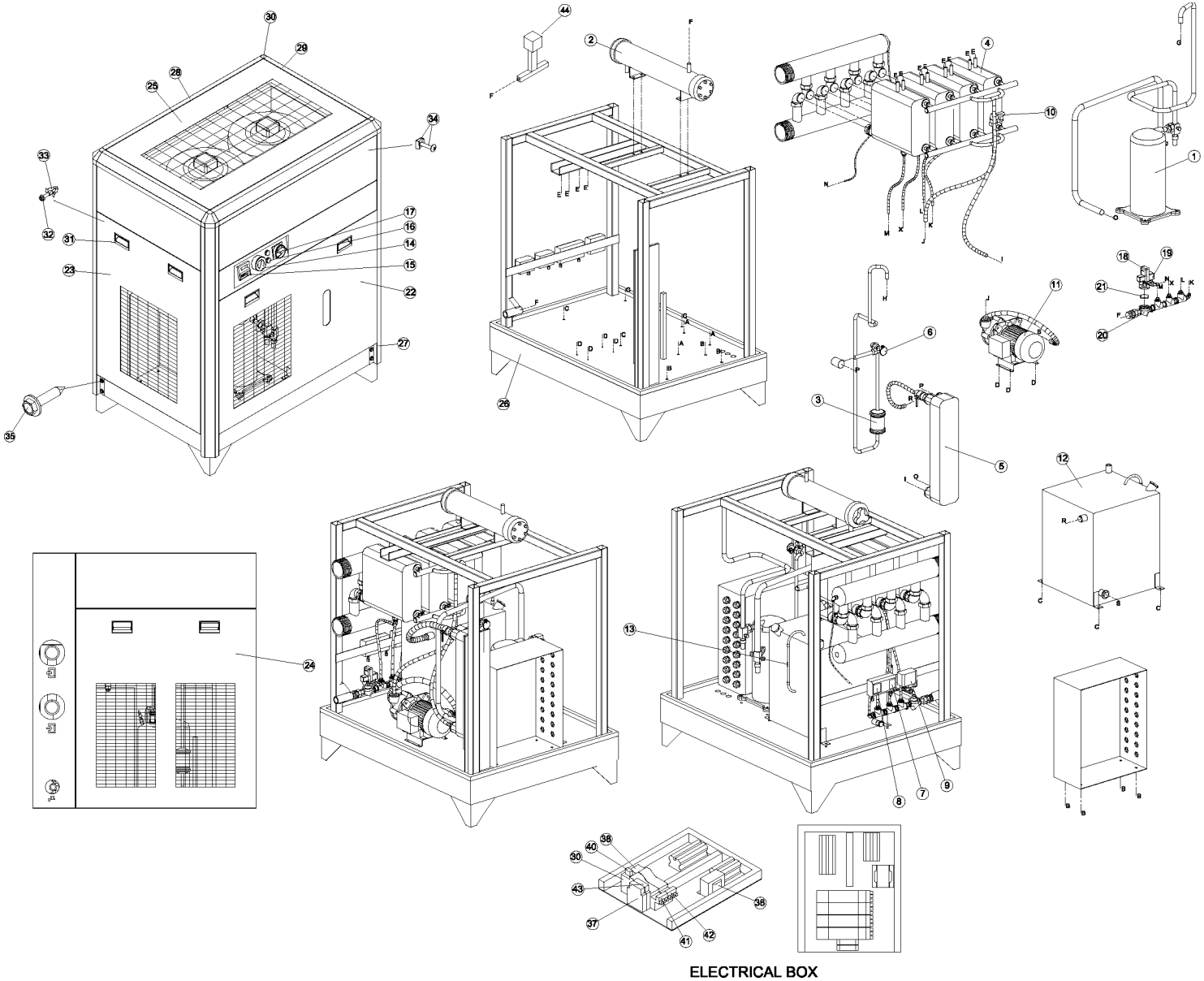
5.17 ED—RC 850 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-850	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	2
4	M-DRI-1200	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	4
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-0850	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-0850	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-1600	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	4
23	M-MMM-2400	MEMBRANE	4
24	M-CFR-0850-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-0850-C	CABINET SIDE	2
26	M-CRE-0850-C	CABINET REAR	1
27	M-CTO-0850-C	CABINET TOP	1
28	M-CBA-0850-C	CABINET BASE	1
29	M-CBL-0850-C	CABINET LEG	4
30	M-HP1-0850-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-0850-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0850-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-1200	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CFM	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	WATER PUMP	COMPRESSOR OVERLOAD PROTECTOR
RC850	850	02250193-828	230V/3PH/60HZ	AIR COOLED	M-CMP-0850-230-3-60-A	M-FMT-1000-460-3-60-A	M-PMP-850-460-3-60-A	M-COP-0850-230-3-60-A
RC850	850	02250193-909	400V/3PH/50HZ	AIR COOLED	M-CMP-1000-460-3-60-A	M-FMT-1200-400-3-50-A	M-PMP-850-460-3-60-A	M-COP-0850-460-3-60-A
RC850	850	02250193-968	460V/3PH/60HZ	AIR COOLED	M-CMP-1000-460-3-60-A	M-FMT-1200-460-3-60-A	M-PMP-850-460-3-60-A	M-COP-0850-460-3-60-A
RC850	850	02250194-126	575V/3PH/60HZ	AIR COOLED	M-CMP-1000-575-3-60-A	M-FMT-1200-575-3-60-A	M-PMP-850-575-3-60-A	M-COP-0850-575-3-60-A

5.18 ED—RC 850 WATER COOLED



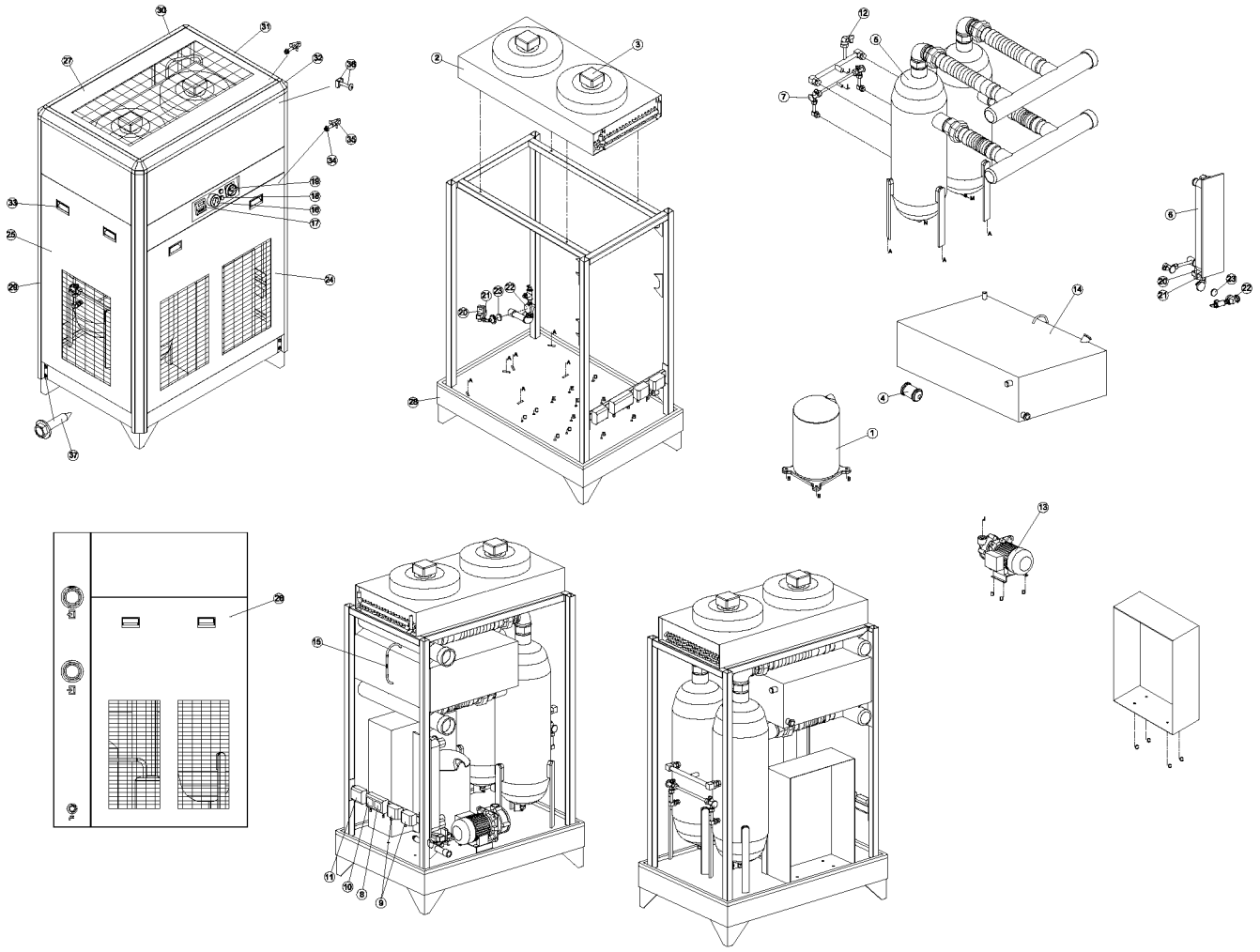
5.18 ED—RC 850 WATER COOLED

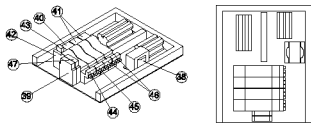
KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-850W	CONDENSER	1
3	M-DRI-1200	DRIER-DEHYDRATOR	1
4	M-EXC-0200	HEAT EXCHANGER	4
5	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-0850	EXPANSION VALVE	2
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-0850-460-3-60	WATER PUMP	1
12	M-WTA-0850	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-1600	MAIN SWITCH	1
18	M-TMR-3000	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	4
21	M-MMM-2400	MEMBRANE	4
22	M-CFR-0850-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-0850-C	CABINET SIDE	2
24	M-CRE-0850-C	CABINET REAR	1
25	M-CTO-0850-C	CABINET TOP	1
26	M-CBA-0850-C	CABINET BASE	1
27	M-CBL-0850-C	CABINET LEG	4
28	M-HP1-0850-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-0850-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-3000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-0850-460-3-60-A	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
44	M-WVF-1600	WATER VALVE	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	COMPRESSOR OVERLOAD PROTECTOR
RC850	850 CFM	02250193-934	230V/3PH/60HZ	WATER COOLED	M-CMP-0850-230-3-60-A	M-COP-0850-230-3-60-A
RC850	850 CFM	02250193-999	400V/3PH/50HZ	WATER COOLED	M-CMP-1000-460-3-60-A	M-COP-0850-460-3-60-A
RC850	850 CFM	02250193-968	460V/3PH/60HZ	WATER COOLED	M-CMP-1000-460-3-60-A	M-COP-0850-460-3-60-A
RC850	850 CFM	02250194-153	575V/3PH/60HZ	WATER COOLED	M-CMP-1000-460-3-60-A	M-COP-0850-460-3-60-A

5.19 ED—RC 1000 AIR COOLED





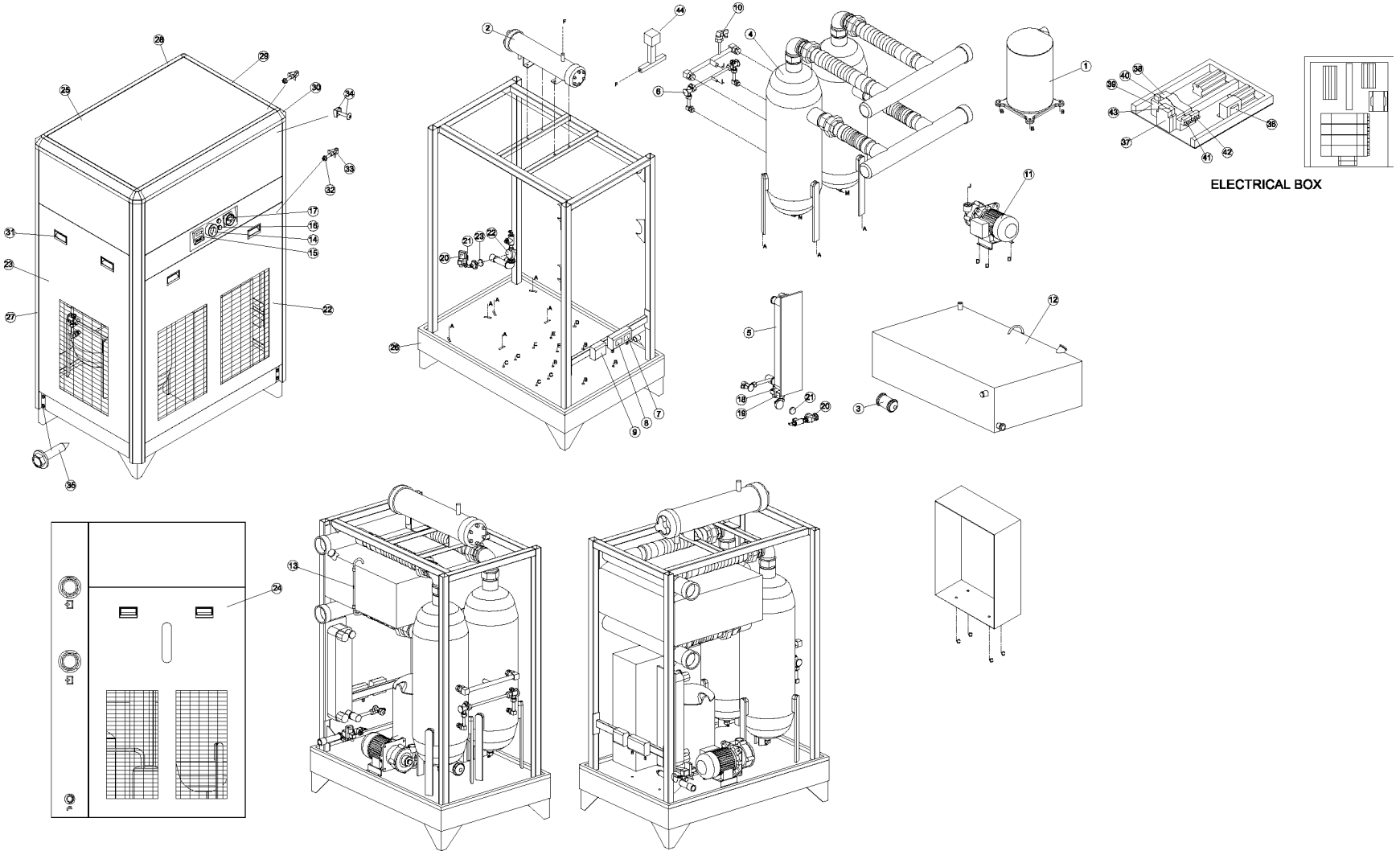
5.19 ED—RC 1000 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-850	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	2
4	M-DRI-1200	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	4
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-0850	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWTICH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	M-PMP-1000-460-3-60	WATER PUMP	1
14	M-WTA-1000	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-2400	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	4
23	M-MMM-2400	MEMBRANE	4
24	M-CFR-1000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-1000-C	CABINET SIDE	2
26	M-CRE-1000-C	CABINET REAR	1
27	M-CTO-1000-C	CABINET TOP	1
28	M-CBA-1000-C	CABINET BASE	1
29	M-CBL-1200-C	CABINET LEG	4
30	M-HP1-1000-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-1000-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0850-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-1200	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR	FAN MOTOR	COMPRESSOR OVERLOAD PROTECTOR
RC 1000	1000 CFM	02250193-829	230V/3PH/60HZ	AIR COOLED	M-CMP-1000-230-3-60-A	M-FMT-1200-400-3-50	M-COP-1000-230-3-60-A
RC 1000	1000 CFM	02250193-935	400V/3PH/50HZ	AIR COOLED	M-CMP-1000-460-3-60-A	M-FMT-1200-460-3-60	M-COP-1000-460-3-60-A
RC 1000	1000 CFM	02250193-969	460V/3PH/60HZ	AIR COOLED	M-CMP-1000-460-3-60-A	M-FMT-1200-460-3-60	M-COP-1000-460-3-60-A
RC 1000	1000 CFM	02250194-127	575V/3PH/60HZ	AIR COOLED	M-CMP-1000-460-3-60-A	M-FMT-1200-460-3-60	M-COP-1000-460-3-60-A

5.20 ED—RC 1000 WATER COOLED



02250196-558

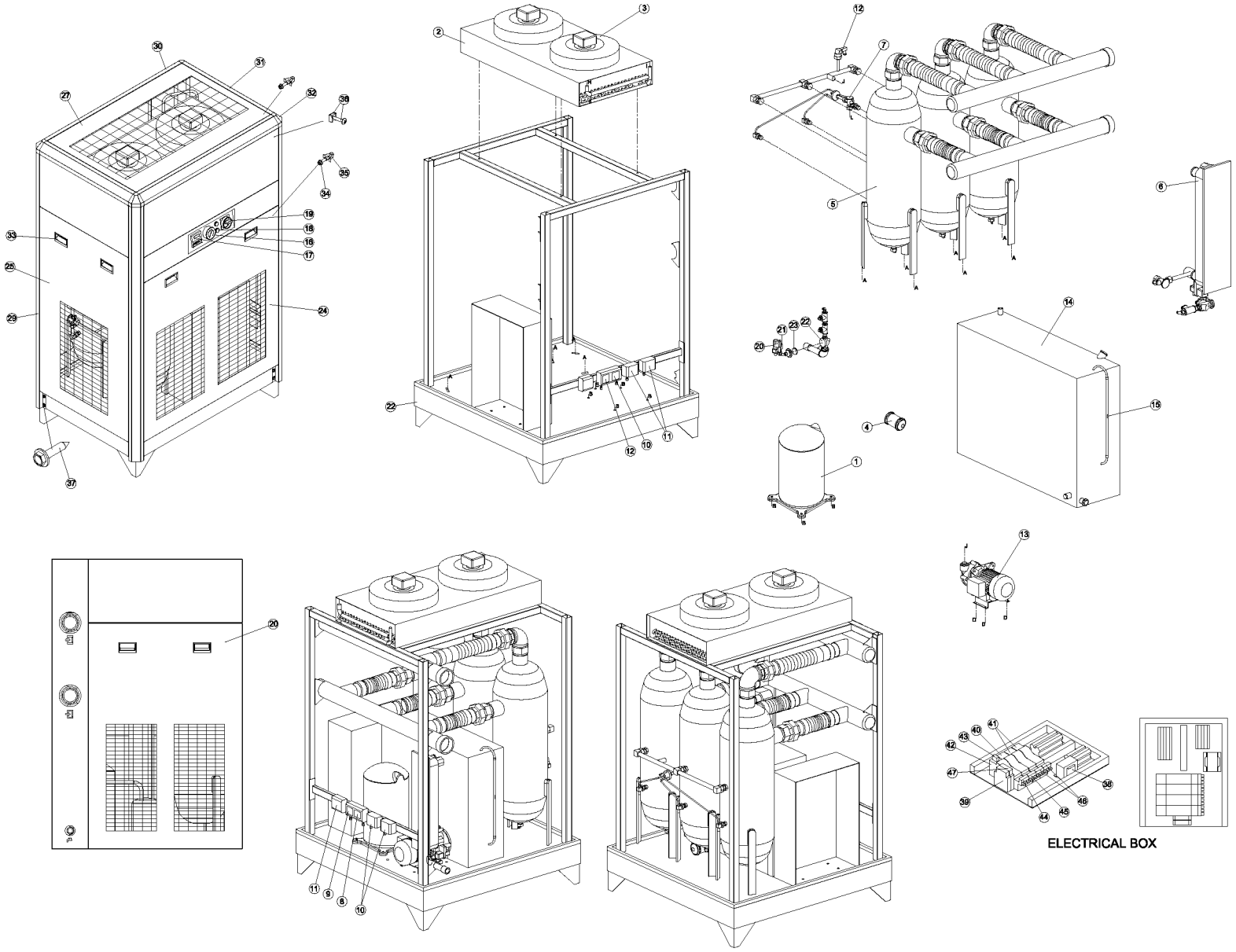
5.20 ED—RC 1000 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-1000-460-3-60	COMPRESSOR	1
2	M-CON-850	CONDENSER	1
3	M-DRI-1200	DRIER-DEHYDRATOR	1
4	M-EXC-1000	HEAT EXCHANGER	2
5	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-1000	EXPANSION VALVE	2
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-1000-460-3-60	WATER PUMP	1
12	M-WTA-1000	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-2400	MAIN SWITCH	1
18	M-TMR-3000	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	2
21	M-MMM-2400	MEMBRANE	2
22	M-CFR-1000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-1000-C	CABINET SIDE	2
24	M-CRE-1000-C	CABINET REAR	1
25	M-CTO-1000-CW	CABINET TOP	1
26	M-CBA-1000-C	CABINET BASE	1
27	M-CBL-1200	CABINET LEG	4
28	M-HP1-1200	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-1200	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-3000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-0850-460-3-60-A	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	SEE REF. TABLE	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
44	M-WVF-3000	WATER VALVE	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING	COMPRESSOR OVERLOAD PROTECTOR
RC 1000	1000 CFM	02250193-859	230V/3PH/60HZ	WATER COOLED	M-COP-1000-230-3-60-A
RC 1000	1000 CFM	02250193-935	400V/3PH/50HZ	WATER COOLED	M-COP-1000-460-3-60-A
RC 1000	1000 CFM	02250194-100	460V/3PH/60HZ	WATER COOLED	M-COP-1000-460-3-60-A
RC 1000	1000 CFM	02250194-154	575V/3PH/60HZ	WATER COOLED	M-COP-1000-460-3-60-A

5.21 ED—RC 1200 AIR COOLED

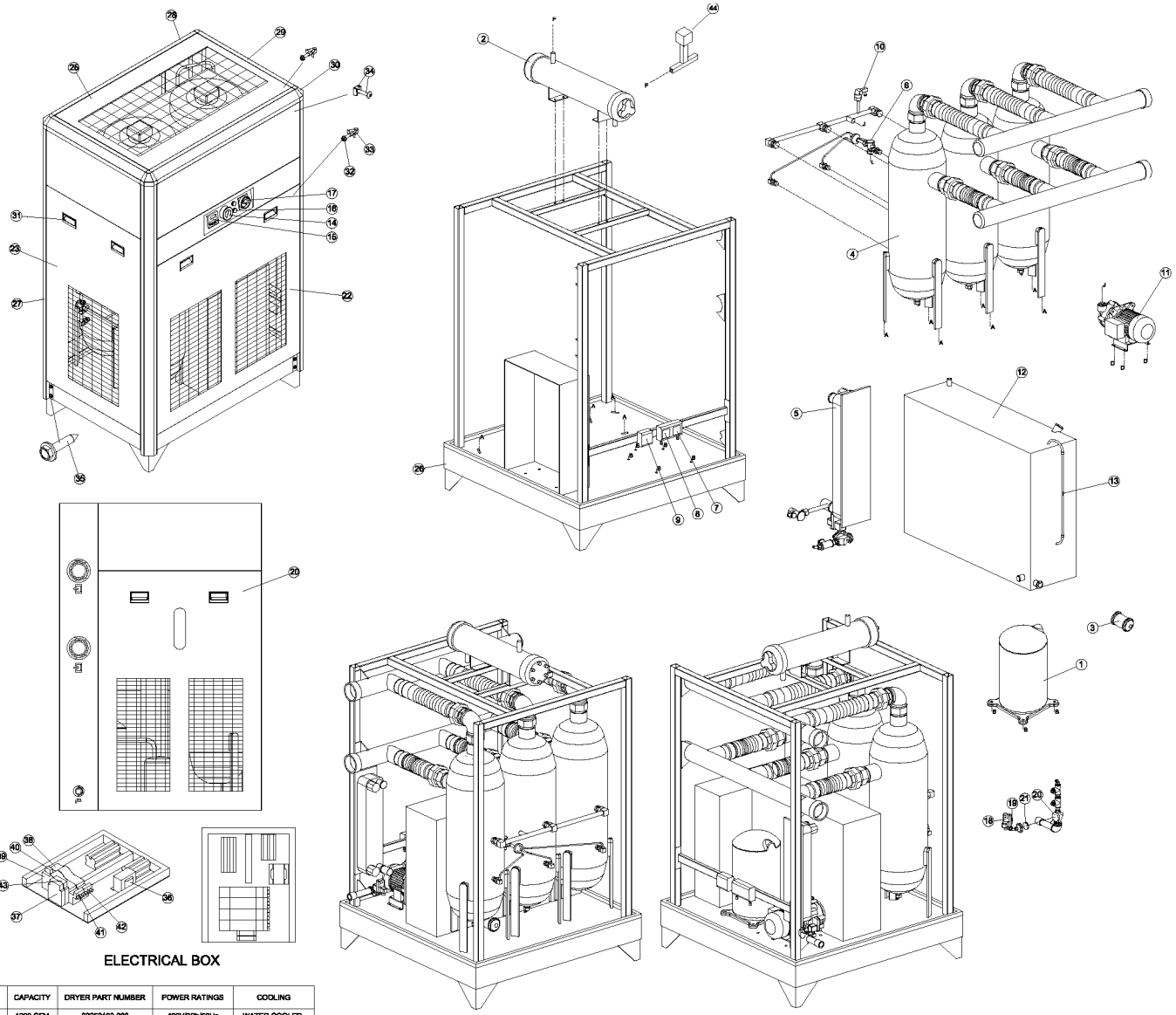


5.21 ED—RC 1200 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	SEE REF. TABLE	COMPRESSOR	1
2	M-CON-850	CONDENSER	1
3	SEE REF. TABLE	FAN MOTOR	2
4	M-DRI-1200	DRIER-DEHYDRATOR	1
5	M-EXC-1200	HEAT EXCHANGER	3
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-0850	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	SEE REF. TABLE	WATER PUMP	1
14	M-WTA-1200	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-3000	MAIN SWITCH	1
20	M-TMR-2400	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	3
23	M-MMM-2400	MEMBRANE	3
24	M-CFR-1200-C	CABINET FRONT	1
25	M-CSD-1200-C	CABINET SIDE	2
26	M-CRE-1200-C	CABINET REAR	1
27	M-CTO-1200-C	CABINET TOP	1
28	M-CBA-1200-C	CABINET BASE	1
29	M-CBL-1200-C	CABINET LEG	4
30	M-HP1-1200-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-1200-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-3000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0850-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	M-COP-1200	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-1200	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING	FAN MOTOR
RC 1200	1200 CFM	02250193-911	400V/3PH/50HZ	AIR COOLED	M-FMT-1200-400-3-50
RC 1200	1200 CFM	02250193-970	460V/3PH/60HZ	AIR COOLED	M-FMT-1200-460-3-60
RC 1200	1200 CFM	02250194-128	575V/3PH/60HZ	AIR COOLED	M-FMT-1200-460-3-60

5.22 ED—RC 1200 WATER COOLED



ELECTRICAL BOX

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 1200	1200 CFM	02250193-936	400V/3Ph/50Hz	WATER COOLED

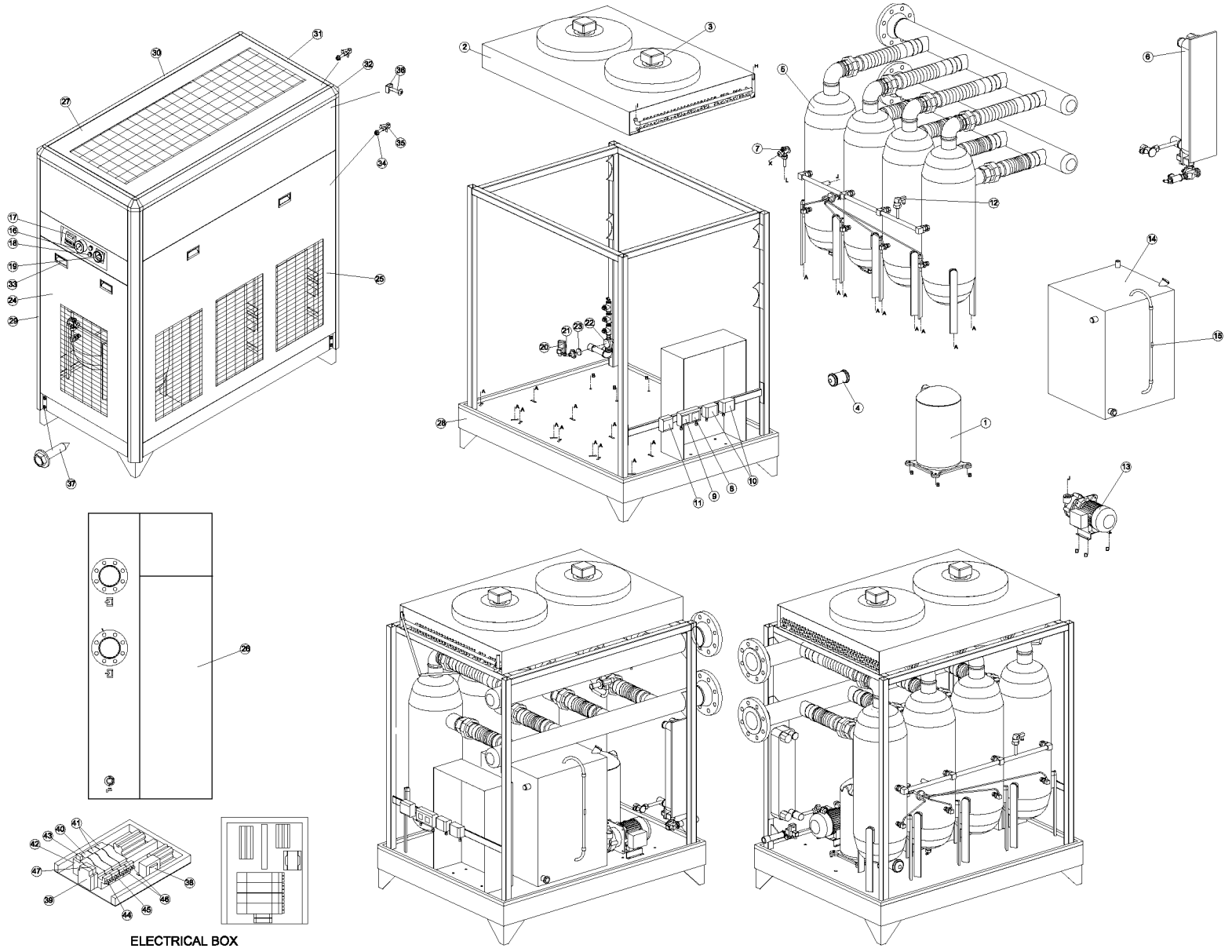
5.22 ED—RC 1200 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-1600-460-3-60-A	COMPRESSOR	1
2	M-CON-1200-W	CONDENSER	1
3	M-DRI-1200	DRIER-DEHYDRATOR	1
4	M-EXC-1200	HEAT EXCHANGER	3
5	M-WHC-1200	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-1250	EXPANSION VALVE	1
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-CMP-1200-460-3-60	WATER PUMP	1
12	M-WTA-1200	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-3000	MAIN SWITCH	1
18	M-TMR-2400	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	3
21	M-MMM-2400	MEMBRANE	3
22	M-CFR-1200-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-1200-C	CABINET SIDE	2
24	M-CRE-1200-C	CABINET REAR	1
25	M-CTO-1200-CW	CABINET TOP	1
26	M-CBA-1200-C	CABINET BASE	1
27	M-CBL-1200	CABINET LEG	4
28	M-HP1-1200-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-1200-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-3000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-0850-460-3-60-A	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	M-COP-1200	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
44	M-WVF-3000	WATER VALVE	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 1200	1200 CFM	02250193-936	400V/3PH/50HZ	WATER COOLED
RC 1200	1200 CFM	02250194-101	460V/3PH/60HZ	WATER COOLED
RC 1200	1200 CFM	02250194-136	575V/3PH/60HZ	WATER COOLED

5.23 ED—RC 1600 AIR COOLED



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02250196-561

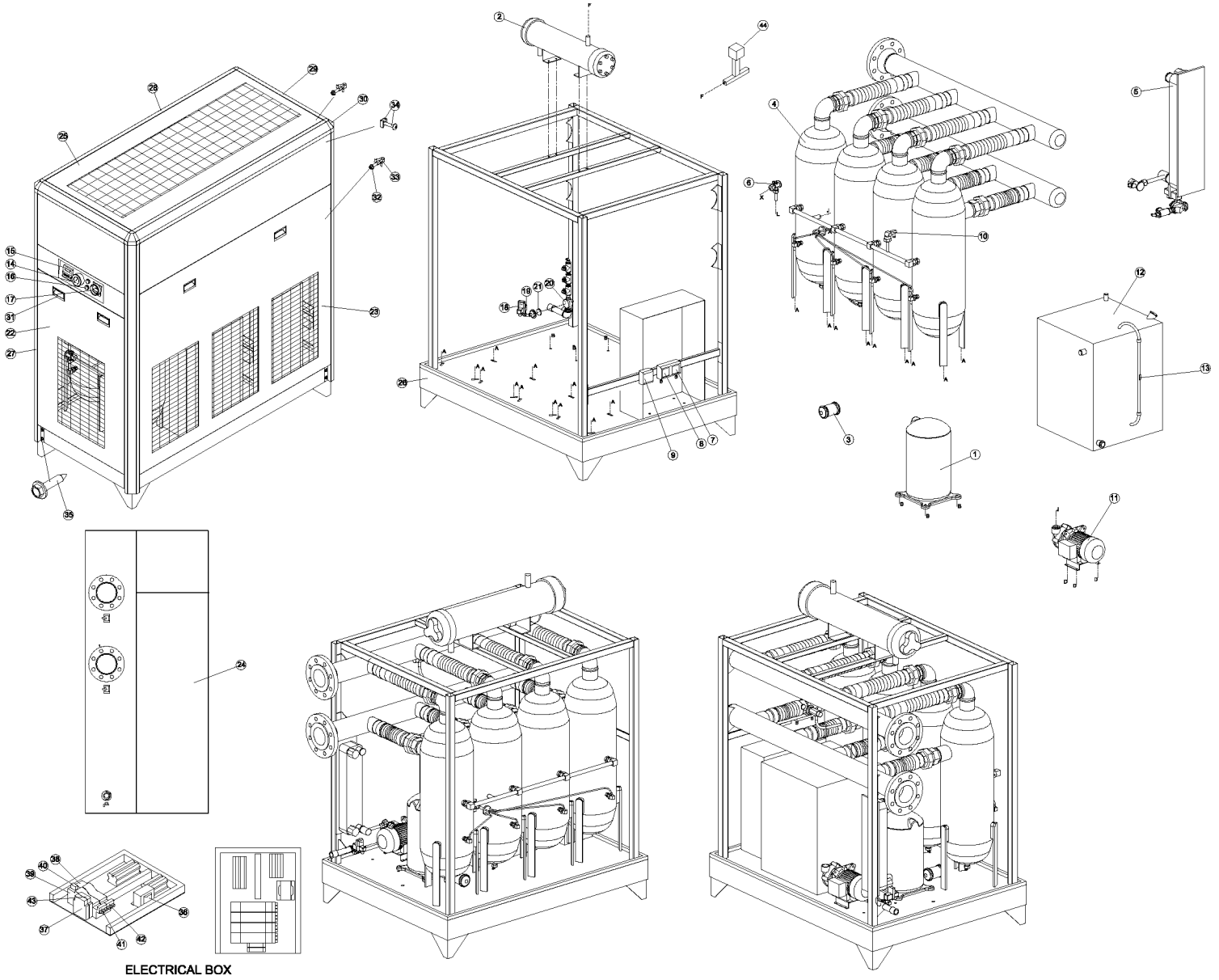
5.23 ED—RC 1600 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-1200-460-3-60-A	COMPRESSOR	1
2	M-CON-1600	CONDENSER	1
3	M-FMT-1600-460-3-60	FAN MOTOR	2
4	M-DRI-2400	DRIER-DEHYDRATOR	1
5	M-EXC-2000	HEAT EXCHANGER	3
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-2000	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	M-PMP-1600-460-3-60	WATER PUMP	1
14	M-WTA-1600	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-3000	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	3
23	M-MMM-2400	MEMBRANE	3
24	M-CFR-2000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-2000-C	CABINET SIDE	2
26	M-CRE-2000-C	CABINET REAR	1
27	M-CTO-2000-C	CABINET TOP	1
28	M-CBA-2000-C	CABINET BASE	1
29	M-CBL-6000-C	CABINET LEG	4
30	M-HP1-2000-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP1-2000-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-6000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-3000-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	M-COP-1600	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-2000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACTIY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 1600	1600 CFM	02250193-912	400V/3PH/50HZ	AIR COOLED
RC 1600	1600 CFM	02250193-971	460V/3PH/60HZ	AIR COOLED
RC 1600	1600 CFM	02250194-129	575V/3PH/60HZ	AIR COOLED

5.24 ED—RC 1600 WATER COOLED



ELECTRICAL BOX

02250196-562

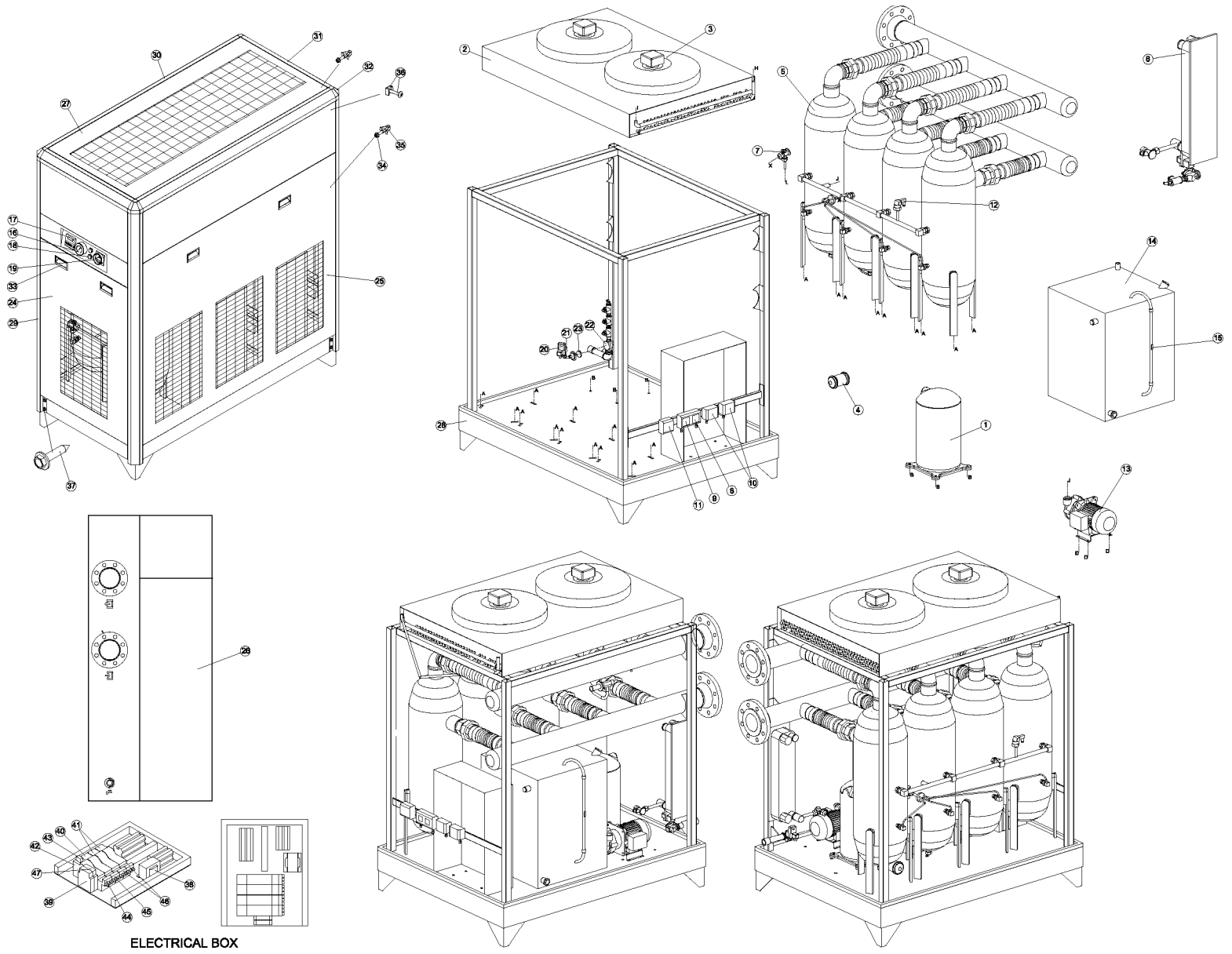
5.24 ED—RC 1600 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-1200-460-3-60-A	COMPRESSOR	1
2	M-CON-1600W	CONDENSER	1
3	M-DRI-2400	DRIER-DEHYDRATOR	1
4	M-EXC-2000	HEAT EXCHANGER	4
5	M-WHC-1600	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-2000	EXPANSION VALVE	1
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-1600-460-3-60	WATER PUMP	1
12	M-WTA-1600	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-3000	MAIN SWITCH	1
18	M-TMR-2400	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	4
21	M-MMM-2400	MEMBRANE	4
22	M-CFR-2000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-2000-C	CABINET SIDE	2
24	M-CRE-2000-C	CABINET REAR	1
25	M-CTO-2000-CW	CABINET TOP	1
26	M-CBA-2000-C	CABINET BASE	1
27	M-CBL-6000-C	CABINET LEG	4
28	M-HP1-2000-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-2000-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-6000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-3000	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	M-COP-1600	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1
44	M-WVF-3000	WATER VALVE	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 1600	1600 CFM	02250193-937	400V/3Ph/50Hz	WATER COOLED
RC 1600	1600 CFM	02250194-102	460V/3Ph/60Hz	WATER COOLED
RC 1600	1600 CFM	02250194-156	575V/3Ph/60Hz	WATER COOLED

5.25 ED—RC 2000 AIR COOLED



02250196-563

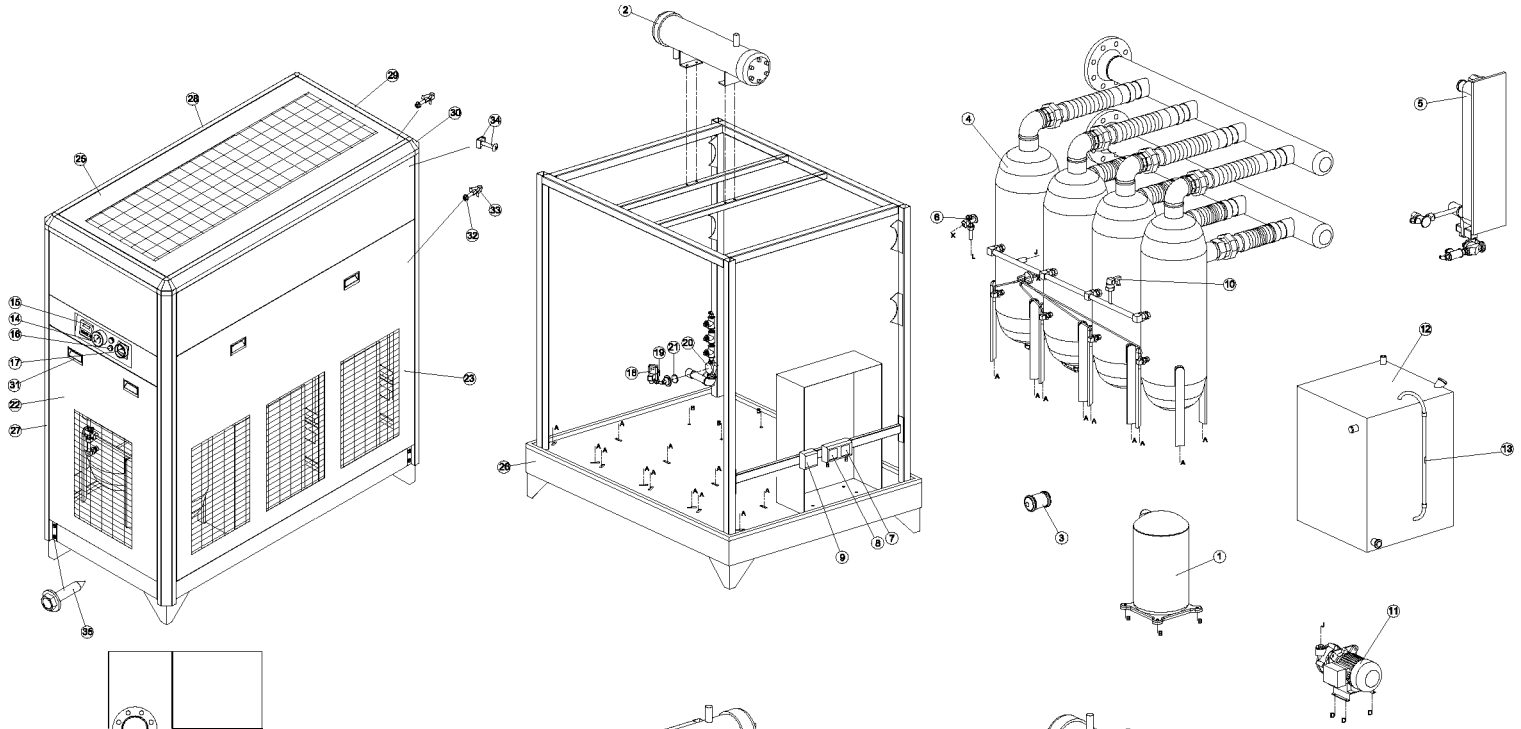
5.25 ED—RC 2000 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-2000-460-3-60-A	COMPRESSOR	1
2	M-CON-2400	CONDENSER	1
3	M-FMT-460-3-60	FAN MOTOR	2
4	M-DRI-2400	DRIER-DEHYDRATOR	1
5	M-EXC-2000	HEAT EXCHANGER	4
6	M-WHC-2000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-2000	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	M-PMP-460-3-60	WATER PUMP	1
14	M-WTA-2000	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-0700	MAIN SWITCH	1
20	M-TMR-2400	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	3
23	M-MMM-2400	MEMBRANE	3
24	M-CFR-2000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-2000-C	CABINET SIDE	2
26	M-CRE-2000-C	CABINET REAR	1
27	M-CTO-2000-C	CABINET TOP	1
28	M-CBA-2000-C	CABINET BASE	1
29	M-CBL-6000-C	CABINET LEG	4
30	M-HP1-2000-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-2000-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-6000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0700-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	M-COP-2400	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-2000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 2000	2000 CFM	02250193-913	400V/3PH/50HZ	AIR COOLED
RC 2000	2000 CFM	02250193-972	460V/3PH/60HZ	AIR COOLED
RC 2000	2000 CFM	02250194-130	575V/3PH/60HZ	AIR COOLED

5.26 ED—RC 2000 WATER COOLED



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02250196-564

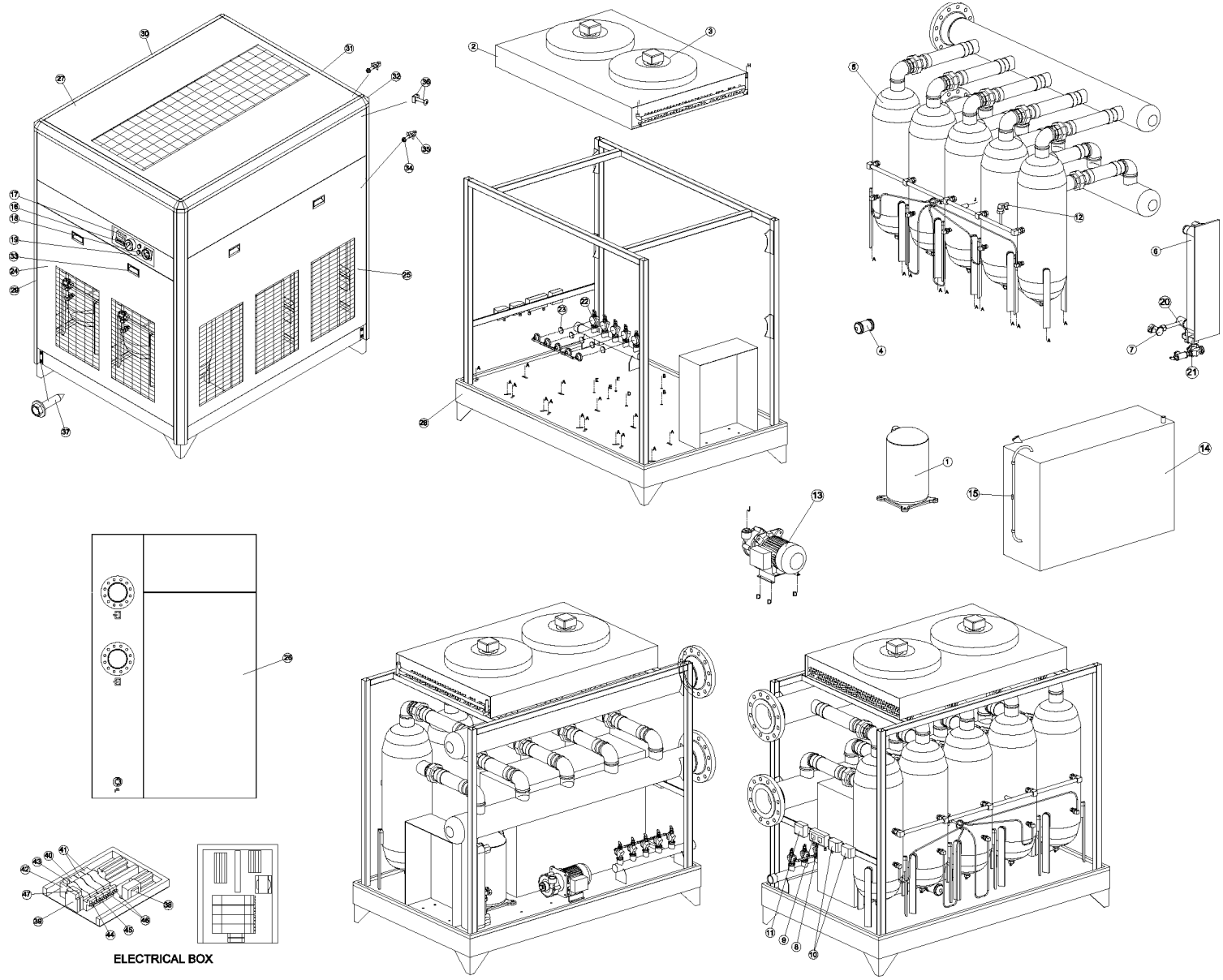
5.26 ED—RC 2000 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-2000-460-3-60-A	COMPRESSOR	1
2	M-CON-2000-w	CONDENSER	1
3	M-DRI-2400	DRIER-DEHYDRATOR	1
4	M-EXC-2000	HEAT EXCHANGER	4
5	M-WHC-2000	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-2000	EXPANSION VALVE	1
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-460-3-60	WATER PUMP	1
12	M-WTA-2000	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-3000	MAIN SWITCH	1
18	M-TMR-2400	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	4
21	M-MMM-2400	MEMBRANE	3
22	M-CFR-2000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-2000-C	CABINET SIDE	2
24	M-CRE-2000-C	CABINET REAR	1
25	M-CTO-2000-C	CABINET TOP	1
26	M-CBA-2000-C	CABINET BASE	1
27	M-CBL-6000-C	CABINET LEG	4
28	M-HP1-2000-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-2000-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET TOP CORNER	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-6000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-2400	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	M-COP-2400	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 2000	2000 CFM	02250193-938	400V/3PH/50HZ	WATER COOLED
RC 2000	2000 CFM	02250194-103	460V/3PH/60HZ	WATER COOLED
RC 2000	2000 CFM	02250194-157	575/3PH/60HZ	WATER COOLED

5.27 ED—RC 2400 AIR COOLED



02250196-565

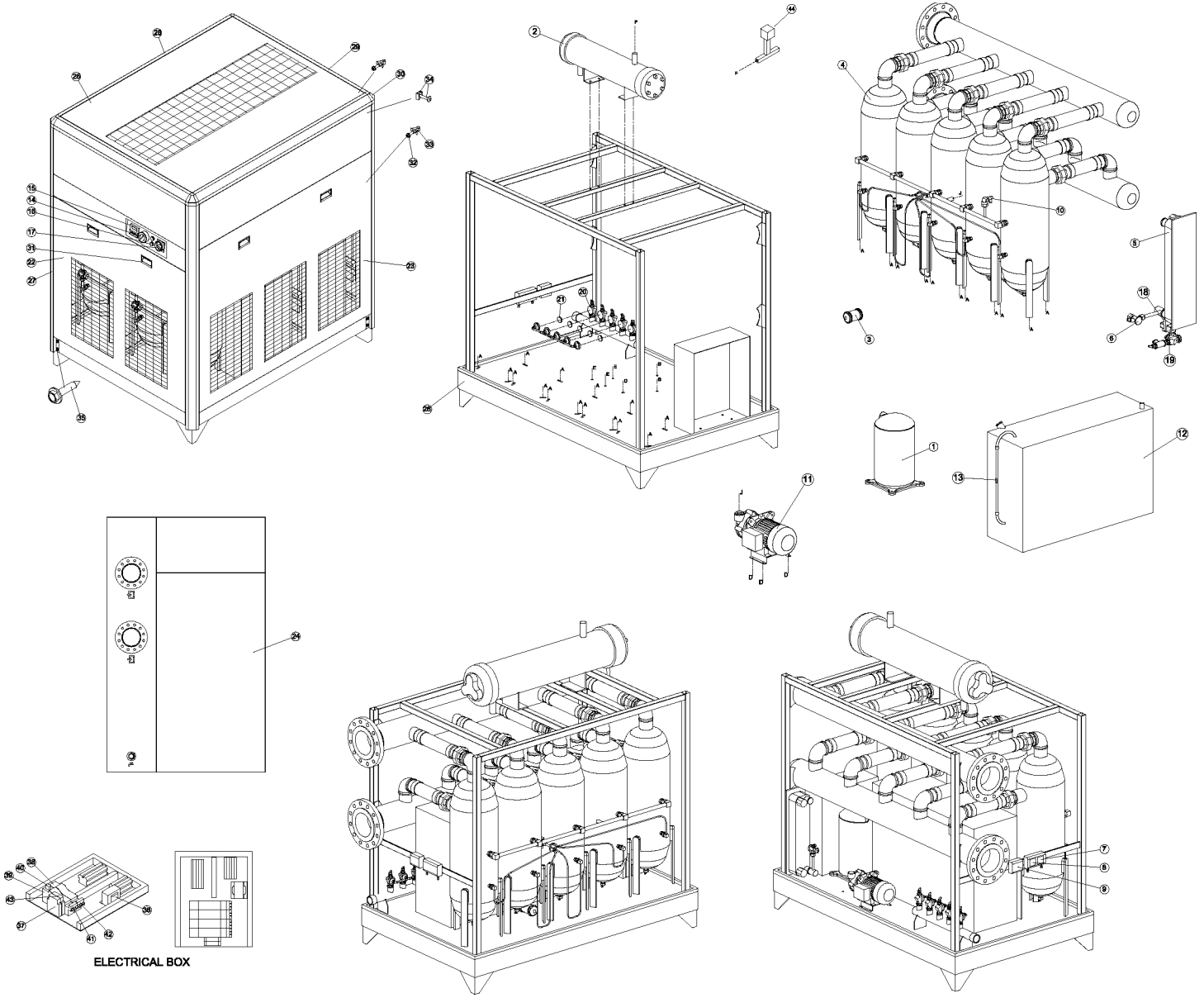
5.27 ED—RC 2400 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-2400-460-3-60-A	COMPRESSOR	
2	M-CON-2400	CONDENSER	1
3	M-FMT-2000-460-3-60	FAN MOTOR	1
4	M-DRI-2400	DRIER-DEHYDRATOR	1
5	M-EXC-0200	HEAT EXCHANGER	5
6	M-WHC-2400	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-2400	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	M-PMP-2400-460-3-60	WATER PUMP	1
14	M-WTA-2400	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-3000	MAIN SWITCH	1
20	M-TMR-2400	TIMER	1
21	M-SLV-2400-24	SELENOID VALVE	1
22	M-MMV-2400	MEMBRANE VALVE	1
23	M-MMM-2400	MEMBRANE	1
24	M-CFR-3000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-3000-C	CABINET SIDE	2
26	M-CRE-3000-C	CABINET REAR	1
27	M-CTO-0300-C	CABINET TOP	1
28	M-CBA-3000-C	CABINET BASE	1
29	M-CBL-6000-C	CABINET LEG	4
30	M-HP1-3000-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-3000-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-6000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0700-460-3-60-A	CONTACTOR	1
41	M-FCN-1200	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	M-COP-2400	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-6000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 2400	2400 CFM	02250193-914	400V/3Ph/50Hz	AIR COOLED
RC 2400	2400 CFM	02250193-973	460V/3Ph/60Hz	AIR COOLED
RC 2400	2400 CFM	02250194-131	575V/3Ph/60Hz	AIR COOLED

5.28 ED—RC 2400 WATER COOLED



02250196-567

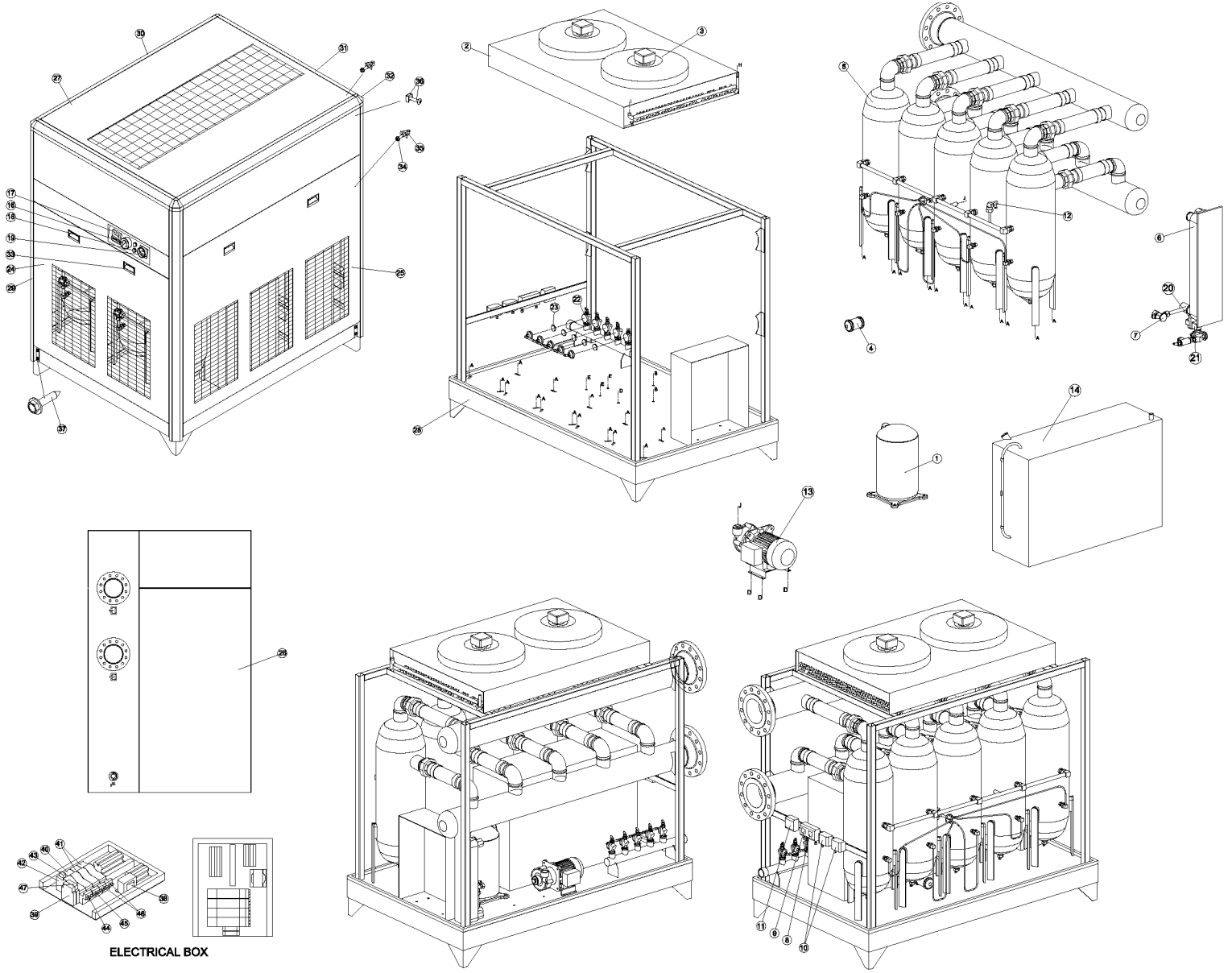
5.28 ED—RC 2400 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-2400-460-3-60-A	COMPRESSOR	1
2	M-CON-2400	CONDENSER	1
3	M-DRI-2400	DRIER-DEHYDRATOR	1
4	M-EXC-2400	HEAT EXCHANGER	5
5	M-WHC-2400	EVAPORATOR (WATER HEAT EXCHANGER)	1
6	M-EXV-2400	EXPANSION VALVE	1
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-2400-460-3-60	WATER PUMP	1
12	M-WTA-2400	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-3000	MAIN SWITCH	1
18	M-TMR-2400	TIMER	1
19	M-SLV-2400-24	SELENOID VALVE	1
20	M-MMV-2400	MEMBRANE VALVE	1
21	M-MMM-2400	MEMBRANE	5
22	M-CFR-3000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
23	M-CSD-3000-C	CABINET SIDE	2
24	M-CRE-3000-C	CABINET REAR	1
25	M-CTO-0300-CW	CABINET TOP	1
26	M-CBA-3000-C	CABINET BASE	1
27	M-CBL-6000	CABINET LEG	4
28	M-HP1-3000-C	CABINET HORIZONTAL PROFILE 1	2
29	M-HP2-3000-C	CABINET HORIZONTAL PROFILE 2	2
30	M-CTC-3000	CABINET TOP CORNER	4
31	M-CPS-3000	CABINET HANDLE	8
32	M-STU-3000	CABINET STUD AND NUT	12
33	M-FAS-3000	CABINET FASTENER	12
34	M-NUT-6000	CAGE NUT AND SCREW	16
35	M-SCR-3000	SCREW TYPE 2	16
36	M-TRF-6000	TRANSFORMER	1
37	M-PPR-6000	PHASE PROTECTION RELAY	1
38	M-CNT-3000-460-3-60-A	CONTACTOR	1
39	M-WPC-3000	WATER PUMP CONTACTOR	1
40	M-SEC-3000	SECONDARY CONTACT	1
41	M-WPP-6000	WATER PUMP PROTECTOR	1
42	M-COP-2400	COMPRESSOR OVERLOAD PROTECTOR	1
43	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 2400	2400 CFM	02250193-939	400V/3Ph/50Hz	WATER COOLED
RC 2400	2400 CFM	02250194-104	460V/3Ph/60Hz	WATER COOLED
RC 2400	2400 CFM	02250194-158	575V/3Ph/60Hz	WATER COOLED

5.29 ED—RC 3000 AIR COOLED



02250196-568

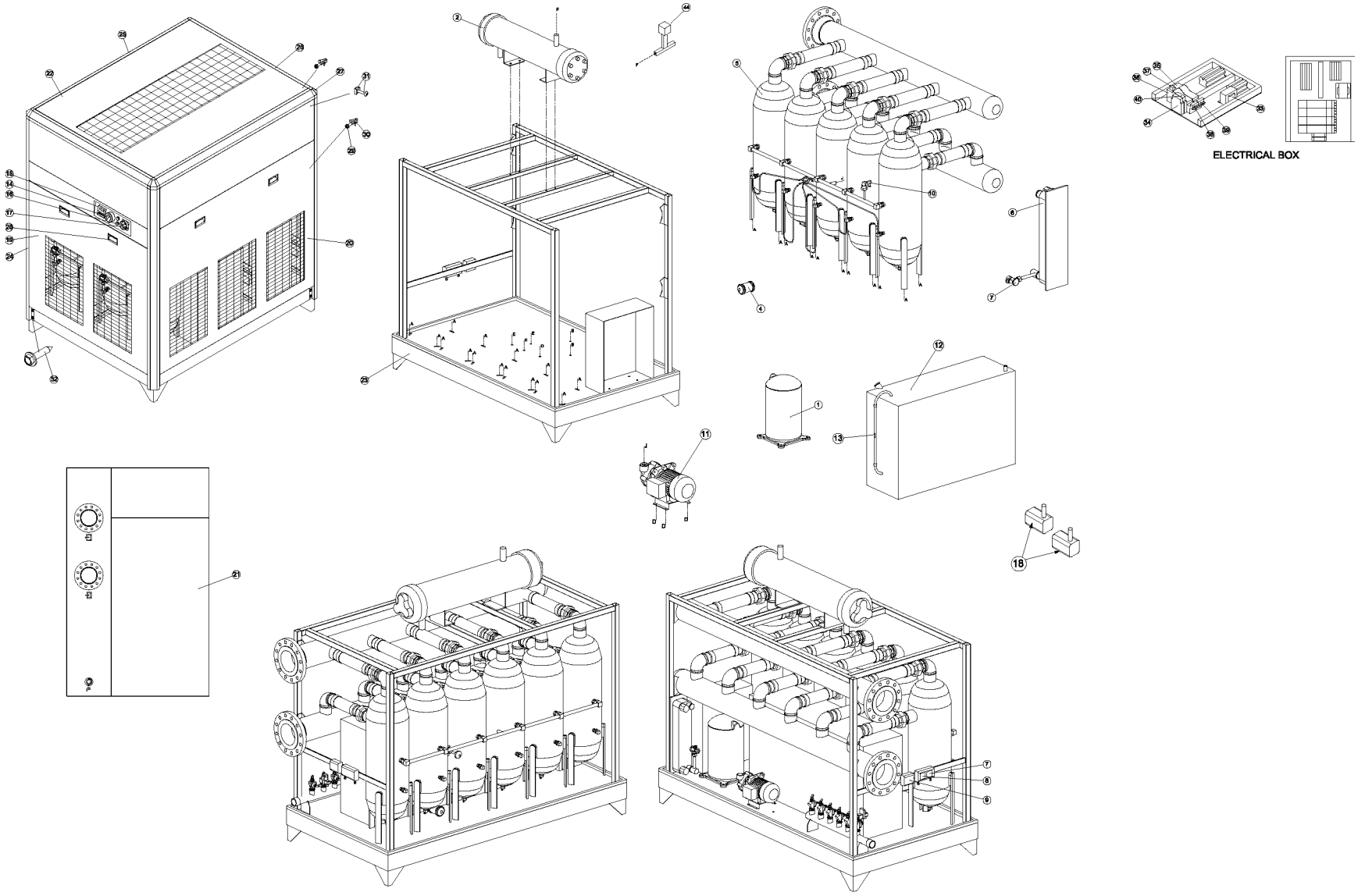
5.29 ED—RC 3000 AIR COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-3000-460-3-60-A	COMPRESSOR	1
2	M-CON-3000	CONDENSER	1
3	M-FMT-2000-460-3-60	FAN MOTOR	1
4	M-DRI-1200	DRIER-DEHYDRATOR	1
5	M-EXC-3000	HEAT EXCHANGER	5
6	M-WHC-1000	EVAPORATOR (WATER HEAT EXCHANGER)	1
7	M-EXV-3000	EXPANSION VALVE	1
8	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
9	M-FNS-0400	FAN ON/OFF SWITCH	2
10	M-LPS-6000	LOW PRESSURE SWITCH	1
11	M-THS-3000	THERMOSTATIC SWITCH	1
12	M-WPS-3000	WATER PRESSURE SWITCH	1
13	M-PMP-460-3-60	WATER PUMP	1
14	M-WTA-3000	WATER TANK	1
15	M-LIN-3000	LEVEL INDICATOR	1
16	M-WAG-3000	WATER GAUGE	1
17	M-DGC-3000	DIGITAL CONTROLLER	1
18	M-ONB-3000	ON/OFF BUTTON	1
19	M-MNS-3000	MAIN SWITCH	1
20	M-TMR-3000	TIMER	1
21	M-SLV-6000-24	SELENOID VALVE	1
22	M-MMV-6000	MEMBRANE VALVE	1
23	M-MMM-6000	MEMBRANE	1
24	M-CFR-3000-C	CABINET FRONT	1

KEY	PART NUMBER	DESCRIPTION	QTY
25	M-CSD-3000-C	CABINET SIDE	2
26	M-CRE-3000-C	CABINET REAR	1
27	M-CTO-3000-C	CABINET TOP	1
28	M-CBA-3000-C	CABINET BASE	1
29	M-CBL-3000-C	CABINET LEG	4
30	M-HP1-3000-C	CABINET HORIZONTAL PROFILE 1	2
31	M-HP2-3000-C	CABINET HORIZONTAL PROFILE 2	2
32	M-CTC-3000	CABINET TOP CORNER	4
33	M-CPS-3000	CABINET HANDLE	8
34	M-STU-3000	CABINET STUD AND NUT	12
35	M-FAS-3000	CABINET FASTENER	12
36	M-NUT-6000	CAGE NUT AND SCREW	16
37	M-SCR-3000	SCREW TYPE 2	16
38	M-TRF-6000	TRANSFORMER	1
39	M-PPR-6000	PHASE PROTECTION RELAY	1
40	M-CNT-0700-460-3-60-A	CONTACTOR	1
41	M-FCN-6000	FAN CONTACTOR	2
42	M-WPC-3000	WATER PUMP CONTACTOR	1
43	M-SEC-3000	SECONDARY CONTACT	1
44	M-WPP-6000	WATER PUMP PROTECTOR	1
45	M-COP-3000	COMPRESSOR OVERLOAD PROTECTOR	1
46	M-FOP-6000	FAN OVERLOAD PROTECTOR	2
47	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 3000	3000 CFM	02250193-915	400V/3Ph/50Hz	AIR COOLED
RC 3000	3000 CFM	02250193-974	460V/3Ph/60Hz	AIR COOLED
RC 3000	3000 CFM	02250194-132	575V/3Ph/60Hz	AIR COOLED

5.30 ED—RC 3000 WATER COOLED



02250196-569

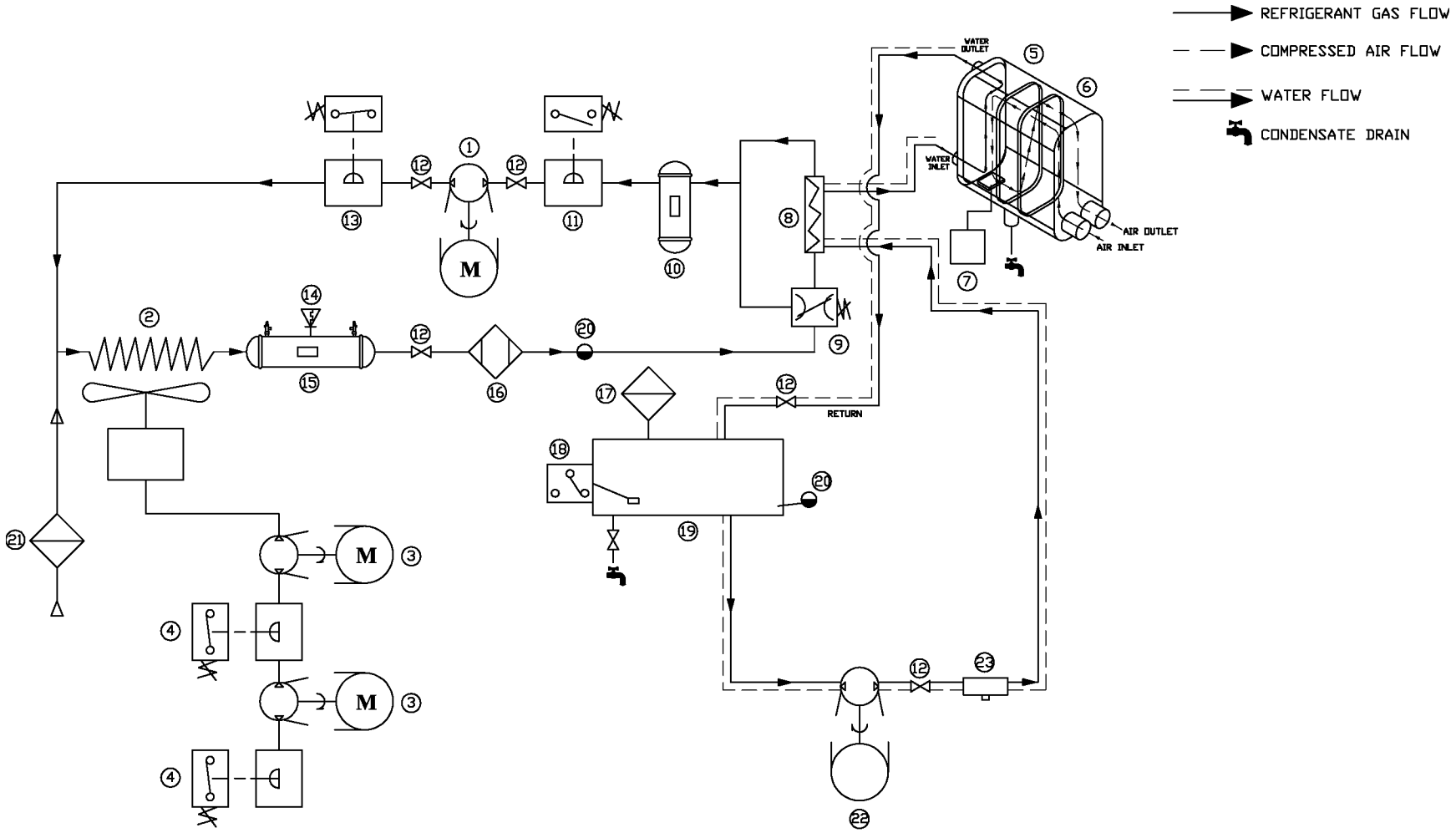
5.30 ED—RC 3000 WATER COOLED

KEY	PART NUMBER	DESCRIPTION	QTY
1	M-CMP-3000-460-3-60-A	COMPRESSOR	1
2	M-CON-3000	CONDENSER	1
3	M-DRI-2400	DRIER-DEHYDRATOR	1
4	M-EXC-3000	HEAT EXCHANGER	5
5	M-WHC-3000	EVAPORATOR (WATER HEATER EXCHANGER)	1
6	M-EXV-3000	EXPANSION VALVE	6
7	M-HPS-6000	HIGH PRESSURE SECURITY SWITCH	1
8	M-LPS-6000	LOW PRESSURE SWITCH	1
9	M-THS-3000	THERMOSTATIC SWITCH	1
10	M-WPS-3000	WATER PRESSURE SWITCH	1
11	M-PMP-460-3-60	WATER PUMP	1
12	M-WTA-3000	WATER TANK	1
13	M-LIN-3000	LEVEL INDICATOR	1
14	M-WAG-3000	WATER GAUGE	1
15	M-DGC-3000	DIGITAL CONTROLLER	1
16	M-ONB-3000	ON/OFF BUTTON	1
17	M-MNS-3000	MAIN SWITCH	1
18	M-TMR-6000	ZERO LEAK DRAIN	2
19	M-CFR-3000-C	CABINET FRONT	1
20	M-CSD-3000-C	CABINET SIDE	2

KEY	PART NUMBER	DESCRIPTION	QTY
21	M-CRE-3000-C	CABINET REAR	1
22	M-CTO-3000-CW	CABINET TOP	1
23	M-CBA-3000-C	CABINET BASE	1
24	M-CBL-6000	CABINET LEG	4
25	M-HP1-3000-C	CABINET HORIZONTAL PROFILE 1	2
26	M-HP2-3000-C	CABINET HORIZONTAL PROFILE 2	2
27	M-CTC-3000	CABINET TOP CORNER	4
28	M-CPS-3000	CABINET HANDLE	8
29	M-STU-3000	CABINET STUD AND NUT	12
30	M-FAS-3000	CABINET FASTENER	12
31	M-NUT-6000	CAGE NUT AND SCREW	16
32	M-SCR-3000	SCREW TYPE 2	16
33	M-TRF-6000	TRANSFORMER	1
34	M-PPR-6000	PHASE PROTECTION RELAY	1
35	M-CNT-0700-460-3-60-A	CONTACTOR	1
36	M-WPC-3000	WATER PUMP CONTACTOR	1
37	M-SEC-3000	SECONDARY CONTACT	1
38	M-WPP-6000	WATER PUMP PROTECTOR	1
39	M-COP-3000	COMPRESSOR OVERLOAD PROTECTOR	1
40	M-WST-3000	WATER PRESSURE SWITCH TIMER	1

DECAL	CAPACITY	DRYER PART NUMBER	POWER RATINGS	COOLING
RC 3000	3000 CFM	02250193-940	400V/3Ph/50Hz	WATER COOLED
RC 3000	3000 CFM	02250194-105	460V/3Ph/60Hz	WATER COOLED
RC 3000	3000 CFM	02250194-159	575V/3Ph/60Hz	WATER COOLED

5.31 P&I—RC150-850

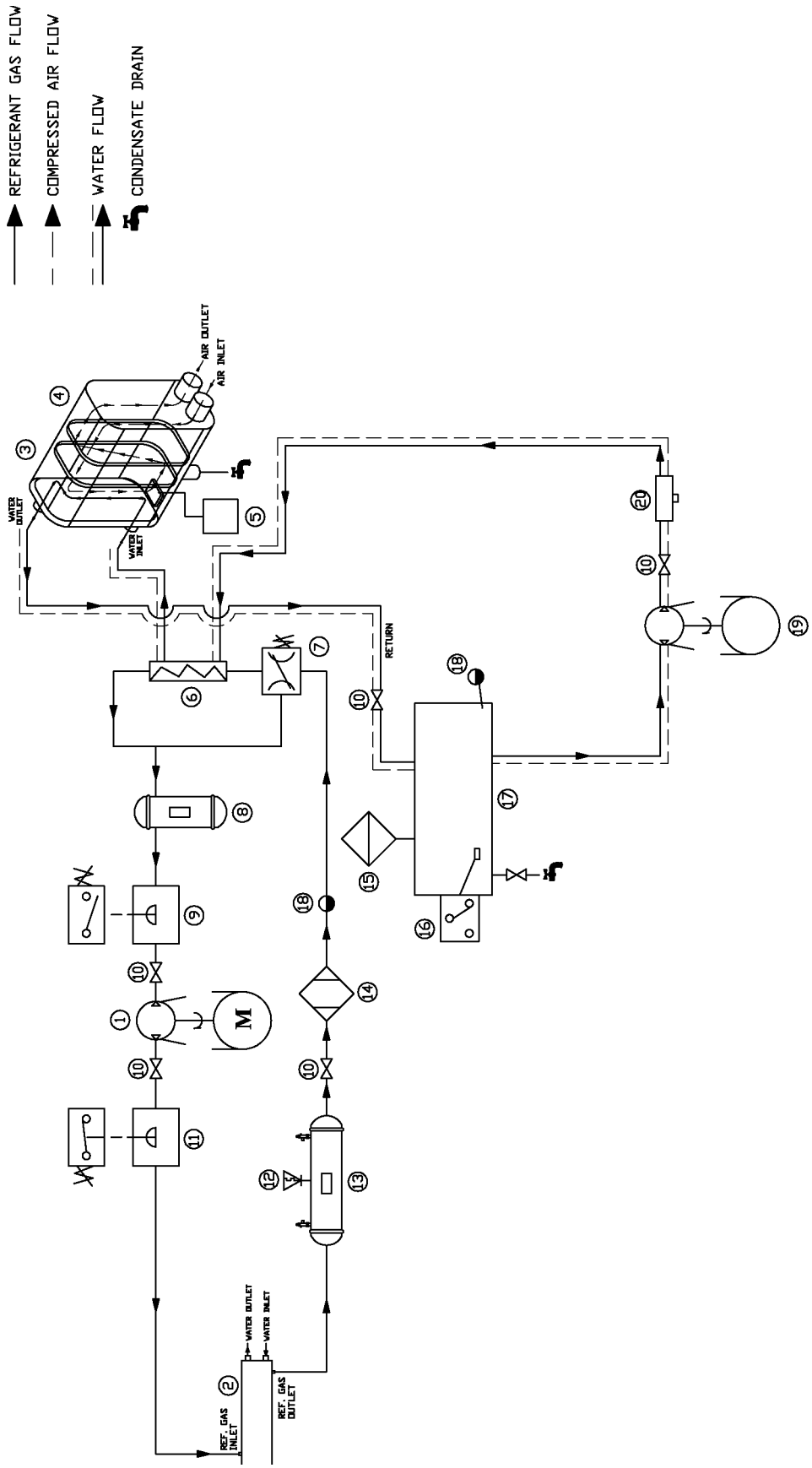


02250195-273

5.31 P&I—RC150-850

KEY	DESCRIPTION
1	COMPRESSOR
2	REFRIGERANT CONDENSER
3	FAN MOTOR
4	FAN MOTOR SWITCH
5	EVAPORATOR
6	AIR-AIR EXCHANGER
7	DEW POINT INDICATOR
8	EVAPORATOR
9	THERMO. EXP. VALVE
10	SUCTION ACCUMULATOR
11	LOW PRESSURE
12	ISOLATION VALVE
13	HIGH PRESSURE
14	SAFETY VALVE
15	RECEIVER
16	REFRIG. FILTER DRIER
17	AIR VENT
18	FLOAT SWITCH
19	COLD STORAGE TANK
20	SIGHT GLASS
21	AIR FILTER OPTIONAL
22	WATER PUMP
23	WATER PRESSURE SWITCH
NOTE: MARK/TAG COMPONENT/CONTAINER WITH SULLAIR P/N AND REVISION.	

5.32 P&I—RC400-850

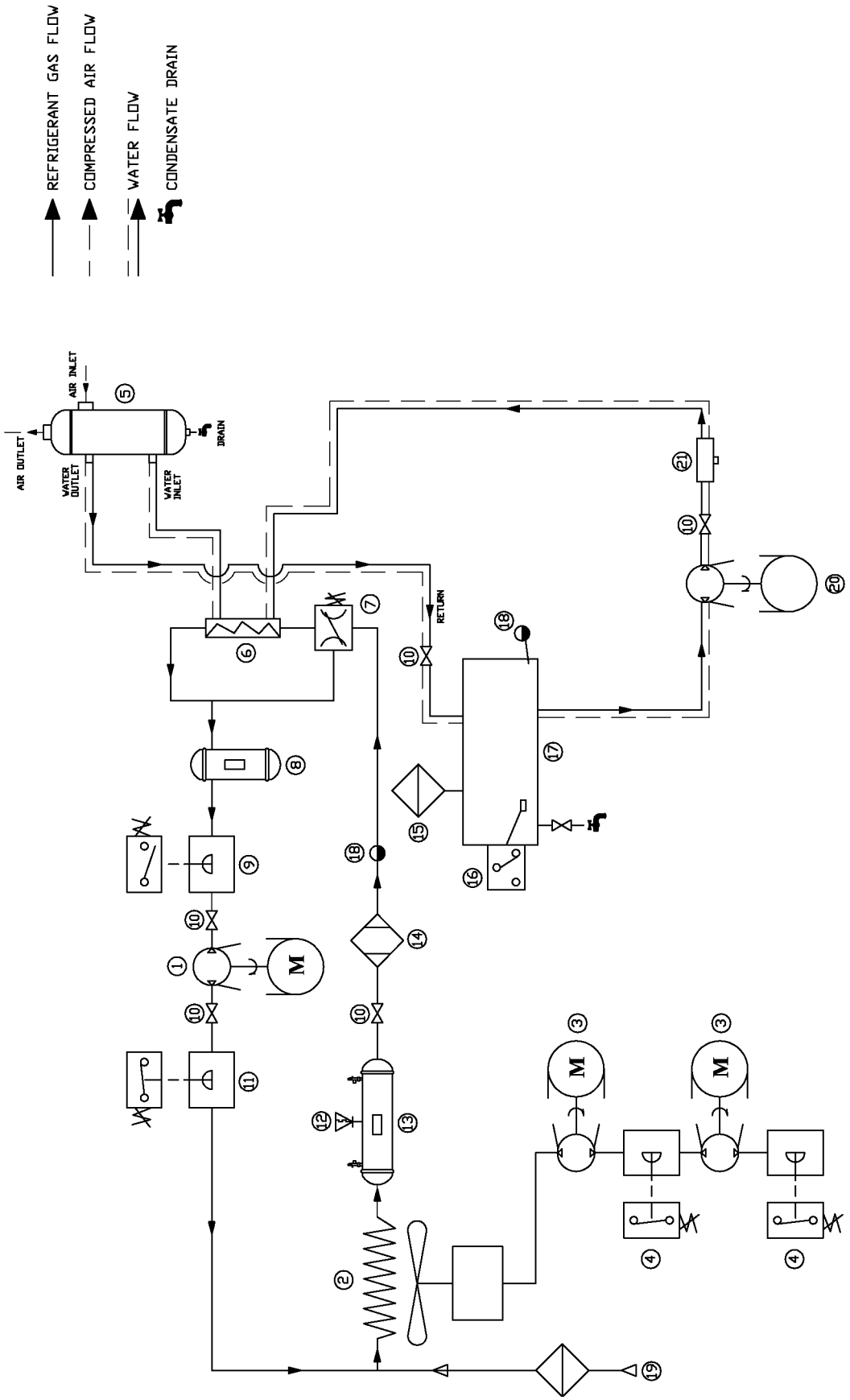


5.32 P&I—400-850

KEY	DESCRIPTION
1	COMPRESSOR
2	WATER CONDENSER
3	EVAPORATOR
4	AIR-AIR EXCHANGER
5	DEW POINT INDICATOR
6	EVAPORATOR
7	THERMO. EXP. VALVE
8	SUCTION ACCUMULATOR
9	LOW PRESSURE
10	ISOLATION VALVE
11	HIGH PRESSURE
12	SAFETY VALVE
13	RECEIVER
14	REFRIG. FILTER DRIER
15	AIR VENT
16	FLOAT SWITCH
17	COLD STORAGE TANK
18	SIGHT GLASS
19	WATER PUMP
20	WATER PRESSURE SWITCH
NOTE: MARK/TAG COMPONENT/CONTAINER WITH SULLAIR P/N AND REVISION.	

MODEL	REFRIGERANT TYPE	LB
RC400	R134A	...
RC500		...
RC700		...
RC850		...

5.33 P&I—RC1000-3000

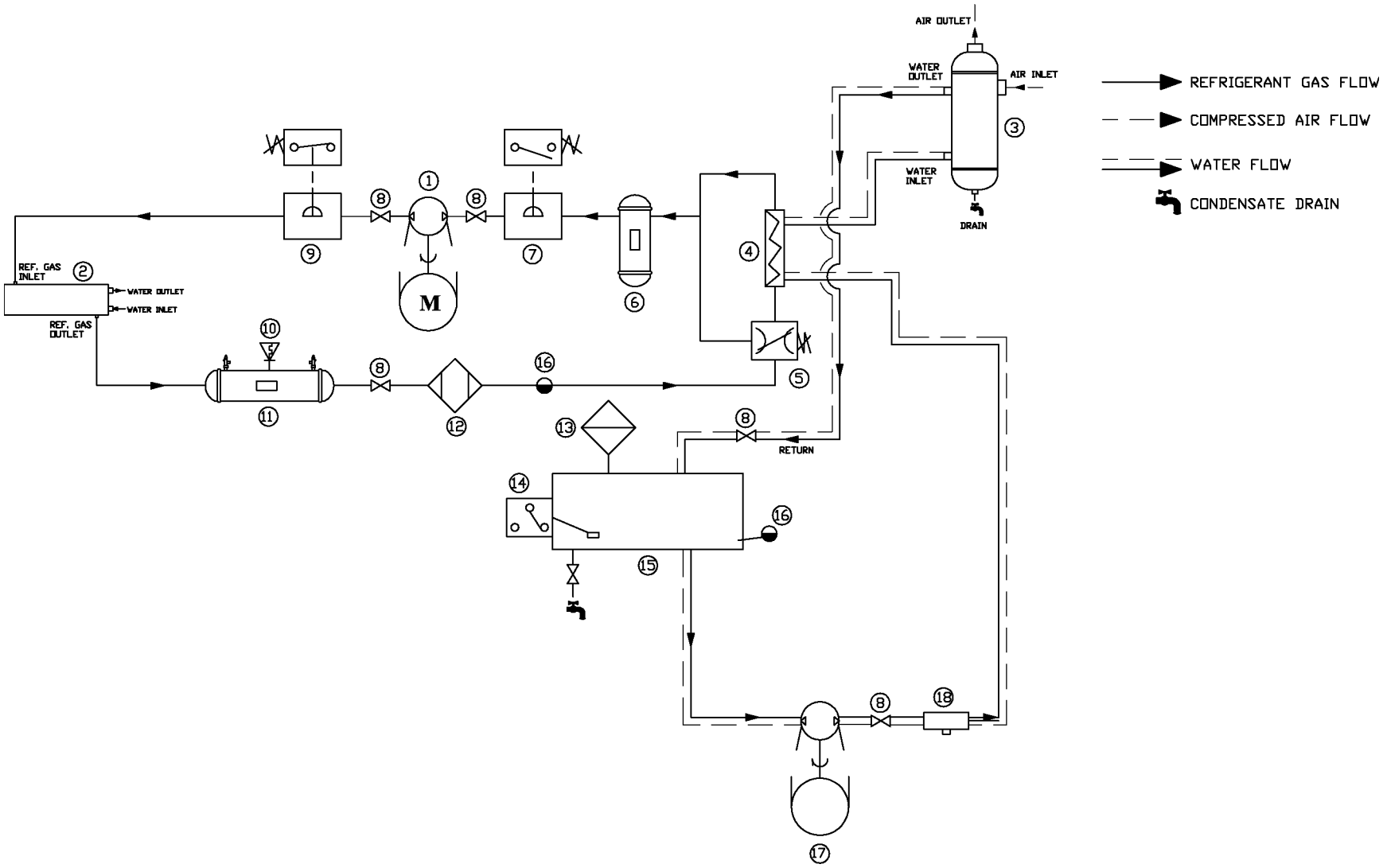


5.33 P&I—1000-3000

KEY	DESCRIPTION
1	COMPRESSOR
2	REFRIGERANT CONDENSER
3	FAN MOTOR
4	FAN MOTOR SWITCH
5	ALUMINUM BRAZED PLATE HEAT EXCHANGER
6	EVAPORATOR
7	THERMO. EXP. VALVE
8	SUCTION ACCUMULATOR
9	LOW PRESSURE
10	ISOLATION VALVE
11	HIGH PRESSURE
12	SAFETY VALVE
13	RECEIVER
14	REFRIG. FILTER DRIER
15	AIR VENT
16	FLOAT SWITCH
17	COLD STORAGE TANK
18	SIGHT GLASS
19	AIR FILTER OPTIONAL
20	WATER PUMP
21	WATER PRESSURE SWITCH
NOTE: MARK/TAG COMPONENT/CONTAINER WITH SULLAIR P/N AND REVISION.	

MODEL	REFRIGERANT TYPE	LB
RC1000	R134A	...
RC1200		...
RC1600		...
RC2000		...
RC2400		...
RC3000		...

5.34 P&I—RC1000-3000

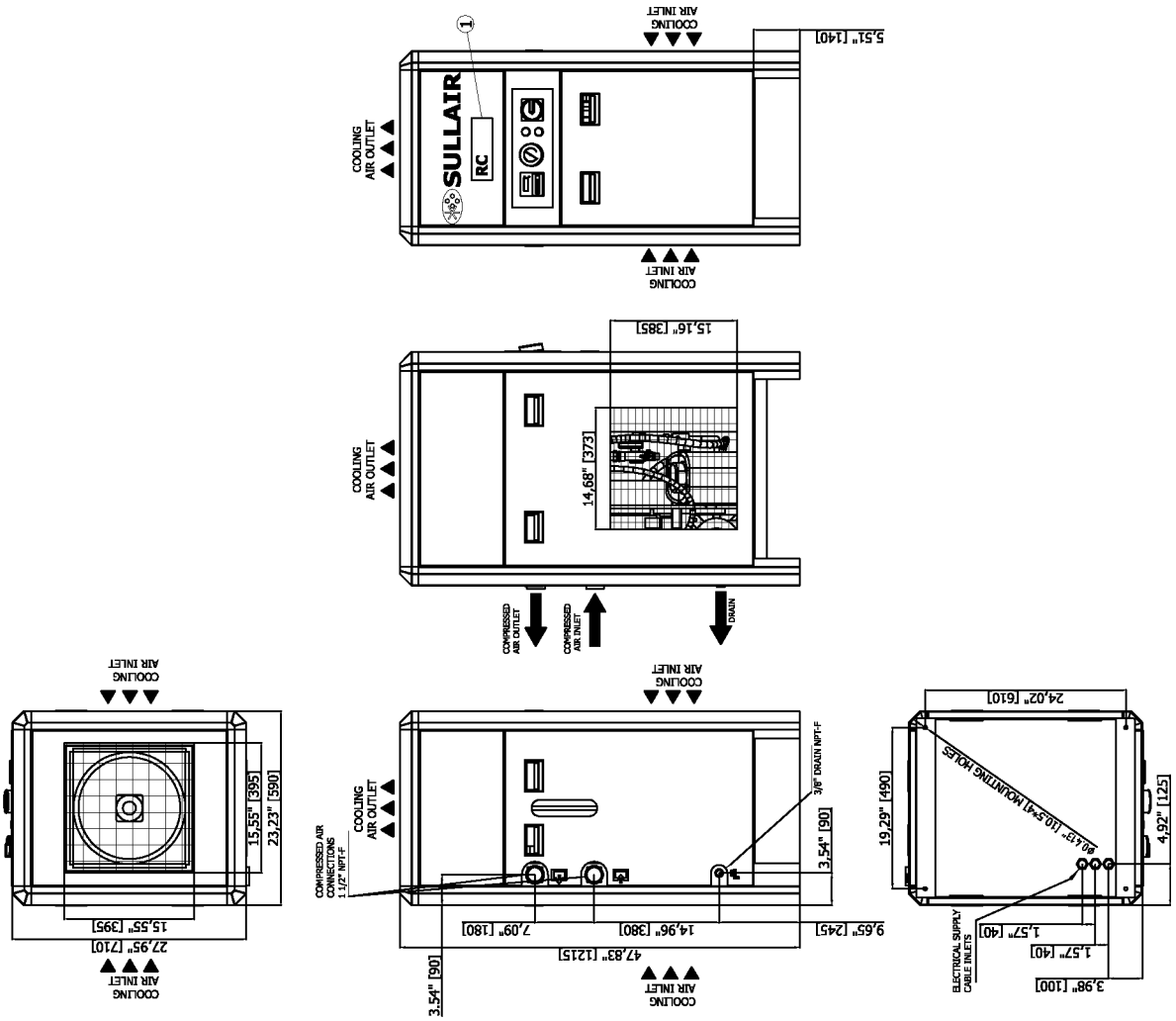


02250195-283

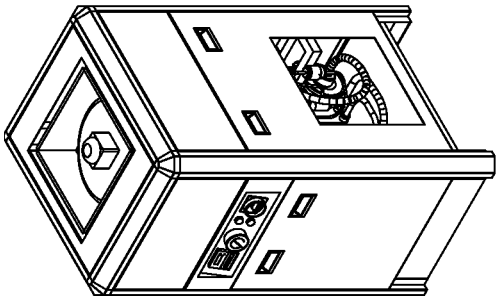
5.35 P&I—RC1000-3000

KEY	DESCRIPTION
1	COMPRESSOR
2	WATER CONDENSER
3	ALUMINUM BRAZED PLATE HEAT EXCHANGER
4	EVAPORATOR
5	THERMO. EXP. VALVE
6	SUCTION ACCUMULATOR
7	LOW PRESSURE
8	ISOLATION VALVE
9	HIGH PRESSURE
10	SAFETY VALVE
11	RECEIVER
12	REFRIG. FILTER DRIER
13	AIR VENT
14	FLOAT SWITCH
15	COLD STORAGE TANK
16	SIGHT GLASS
17	WATER PUMP
18	WATER PRESSURE SWITCH
NOTE: MARK/TAG COMPONENT/CONTAINER WITH SULLAIR P/N AND REVISION.	

MODEL	REFRIGERANT TYPE	LB
RC1000	R134A	...
RC1200		...
RC1600		...
RC2000		...
RC2400		...
RC3000		...



5.36 ID—RC 175-200

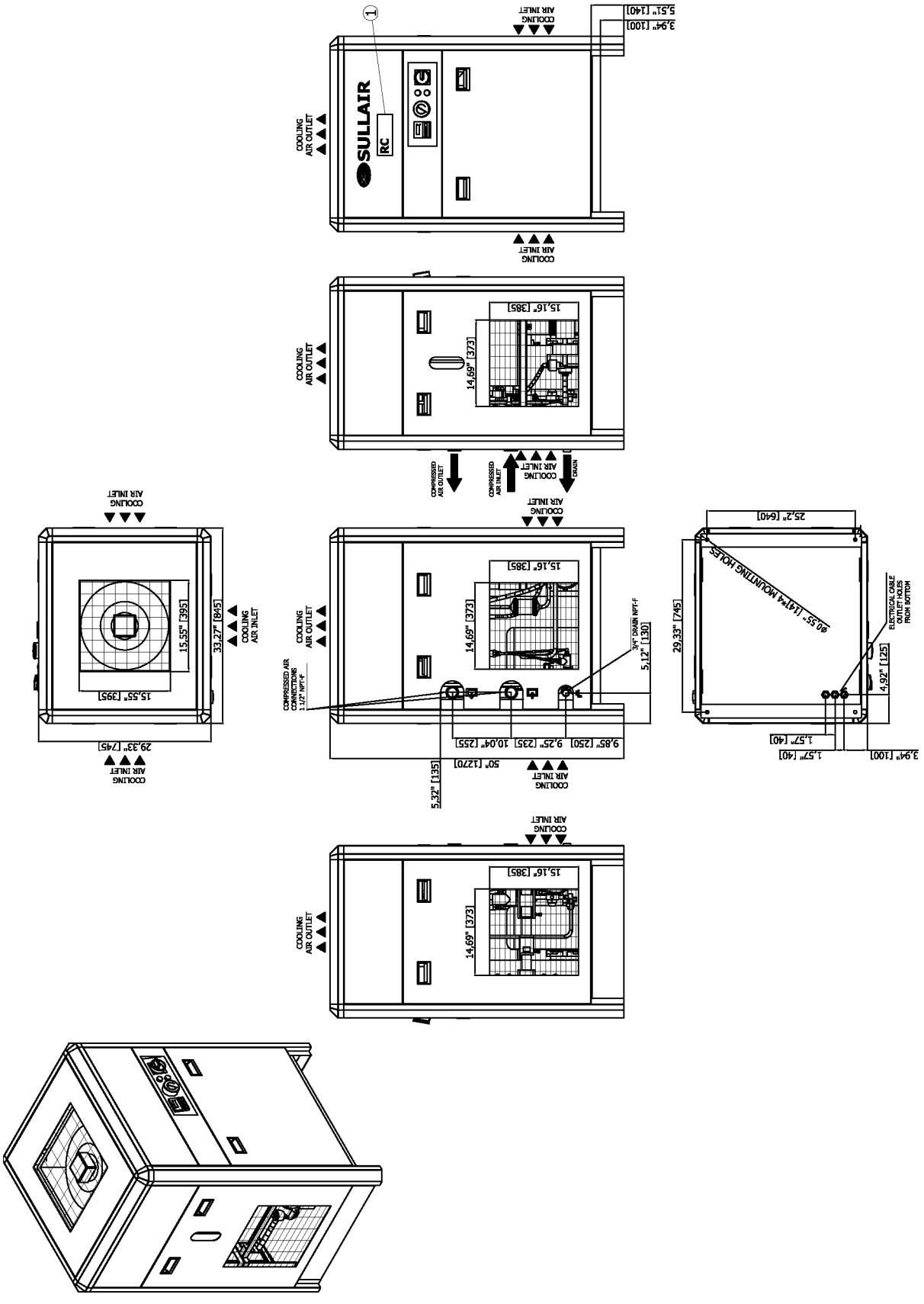


5.36 ID—RC 175-200

DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
02250193-793	115V/1Ph/60Hz	AIR COOLED	RC150
02250193-864	220V/1Ph/50Hz	AIR COOLED	RC150
02250193-820	208-230V/1Ph/60Hz	AIR COOLED	RC150
02250193-865	220V/1Ph/50Hz	AIR COOLED	RC175
02250193-821	208-230V/1Ph/60Hz	AIR COOLED	RC175
02250193-866	220V/1Ph/50Hz	AIR COOLED	RC200
02250193-822	208-230V/1Ph/60Hz	AIR COOLED	RC200

WITHOUT PALLET SIZES	WITH PALLET SIZES	GROSS WEIGHT	NET WEIGHT	DRYER
590 x 710 x 1215	670 x 775 x 1435	515 LB	475 LB	RC200
		495 LB	463 LB	RC175
		451 LB	425 LB	RC150

5.37 ID—RC 250-400

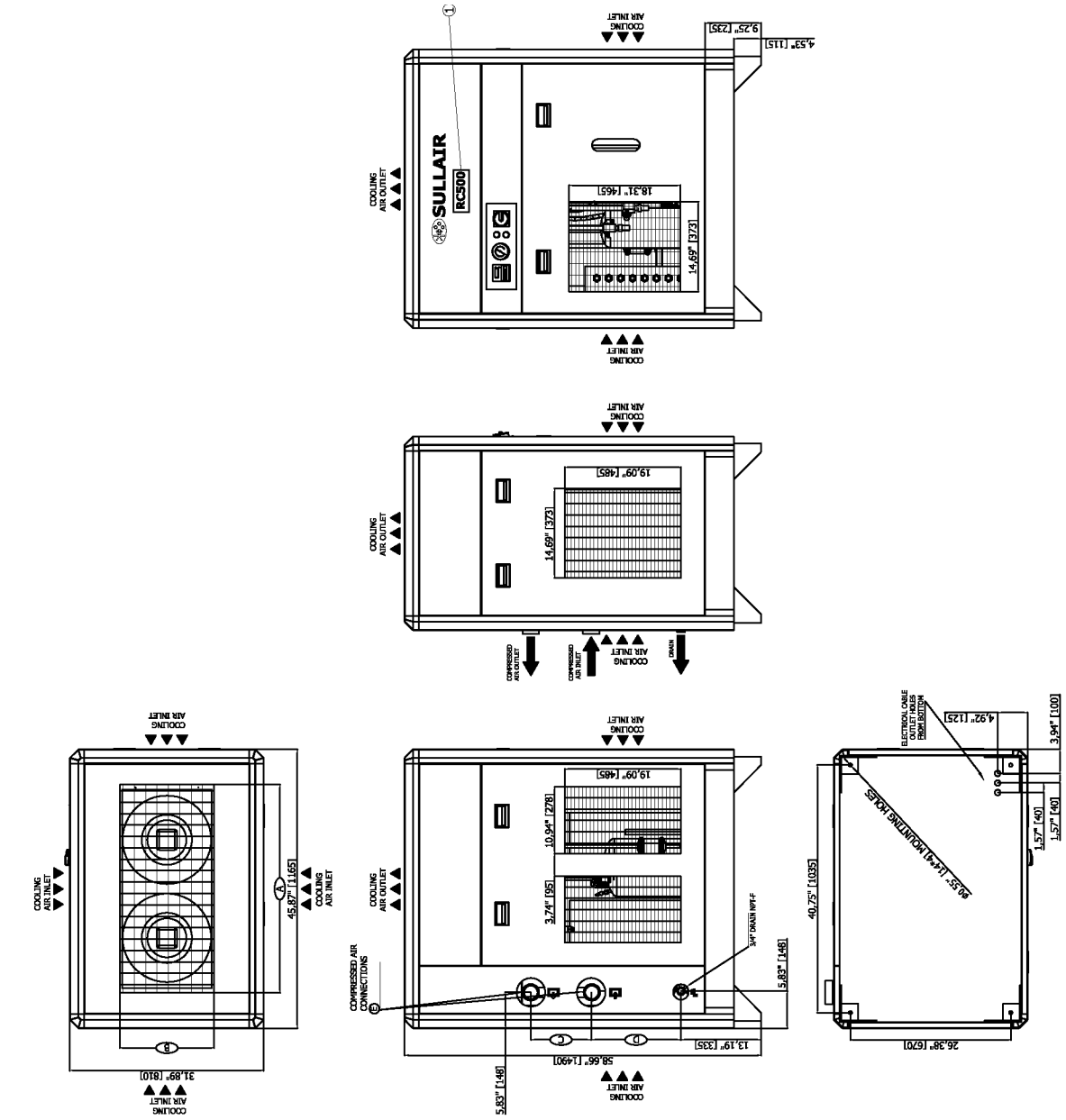


02250195-244

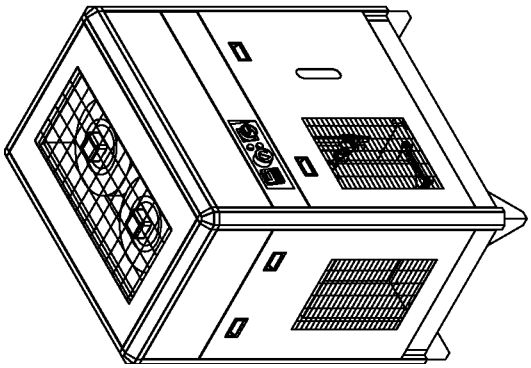
5.37 ID—RC 250-400

DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
02250193-867	220V/1Ph/50Hz	AIR COOLED	RC250
02250193-823	230V/3Ph/60Hz	AIR COOLED	RC250
02250193-904	400V/3Ph/50Hz	AIR COOLED	RC250
02250193-963	460V/3Ph/60Hz	AIR COOLED	RC250
02250194-121	575V/3Ph/60Hz	AIR COOLED	RC250
02250193-824	230V/3Ph/60Hz	AIR COOLED	RC325
02250193-905	400V/3Ph/50Hz	AIR COOLED	RC325
02250193-964	460V/3Ph/60Hz	AIR COOLED	RC325
02250194-122	575V/3Ph/60Hz	AIR COOLED	RC325
02250193-825	230V/3Ph/60Hz	AIR COOLED	RC400
02250193-906	400V/3Ph/50Hz	AIR COOLED	RC400
02250193-965	460V/3Ph/60Hz	AIR COOLED	RC400
02250194-123	575V/3Ph/60Hz	AIR COOLED	RC400

WITHOUT PALLET SIZES	WITH PALLET SIZES	GROSS WEIGHT	NET WEIGHT	DRYER
29,33” x 33,27” x 50 [745] x [845] x [1270]	34,25” x 38,19” x 57,48” [870] x [970] x [1460]	1397 LB	1292 LB	RC400
		1245 LB	1224 LB	RC325
		1275 LB	1157 LB	RC250



5.38 ID—RC 500-850



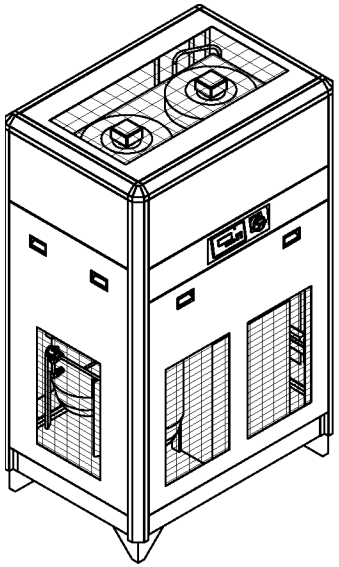
5.38 RC 500-850

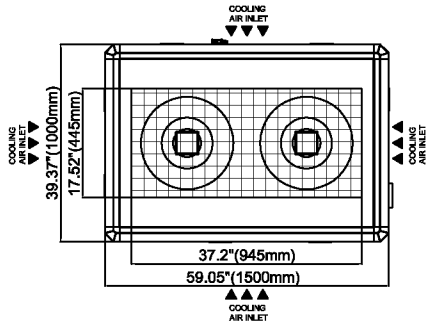
DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
02250193-826	230V/3Ph/60Hz	AIR COOLED	RC500
02250193-907	400V/3Ph/50Hz	AIR COOLED	RC500
02250193-966	460V/3Ph/60Hz	AIR COOLED	RC500
02250194-124	575V/3Ph/60Hz	AIR COOLED	RC500
02250193-827	230V/3Ph/60Hz	AIR COOLED	RC700
02250193-908	400V/3Ph/50Hz	AIR COOLED	RC700
02250193-966	460V/3Ph/60Hz	AIR COOLED	RC700
02250194-125	575V/3Ph/60Hz	AIR COOLED	RC700
02250193-828	230V/3Ph/60Hz	AIR COOLED	RC850
02250193-909	400V/3Ph/50Hz	AIR COOLED	RC850
02250193-968	460V/3Ph/60Hz	AIR COOLED	RC850
02250194-126	575V/3Ph/60Hz	AIR COOLED	RC850

WITHOUT PALLET SIZES	WITH PALLET SIZES	GROSS WEIGHT	NET WEIGHT	DRYER
29.33” x 33.27” x 50 [810mm] x [1165mm] x [1490mm]	34.25” x 48.43” x 59.45” [895mm] x [1285mm] x [1640mm]	807 LB	794 LB	RC500
		847 LB	835 LB	RC700
		952 LB	941 LB	RC850

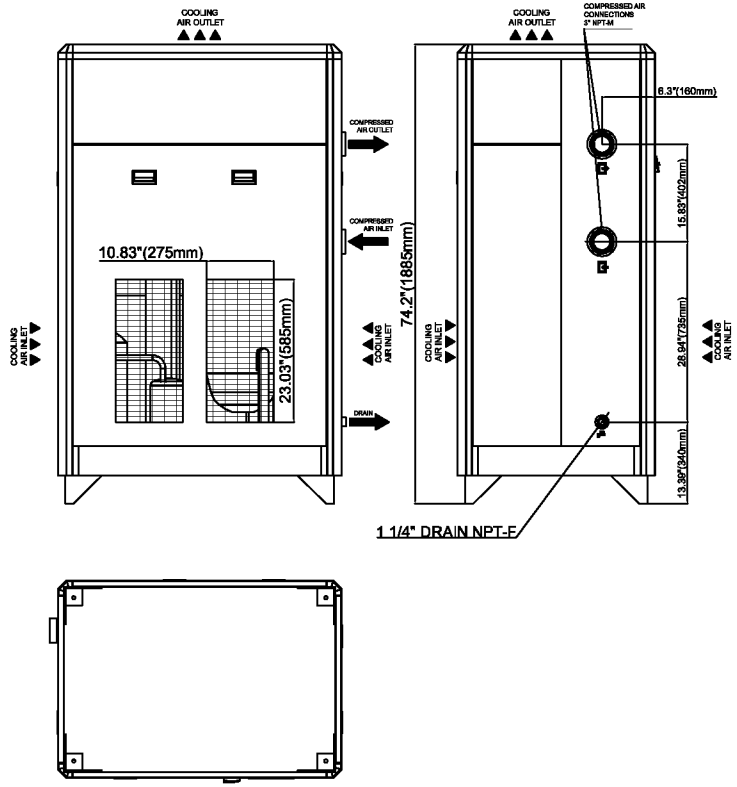
E	D	C	B	A	DECAL
2” NPT-F	14.76”	10.04”	15.55”	34.25”	RC500
3” NPT-M	14.17”	11.61”	15.55”	34.25”	RC700
3” NPT-M	14.17”	11.61”	17.52”	37.2”	RC850

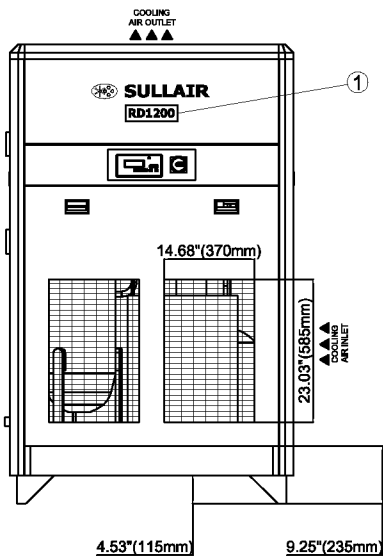
5.39 ID—RC 1000-1200 AIR COOLED



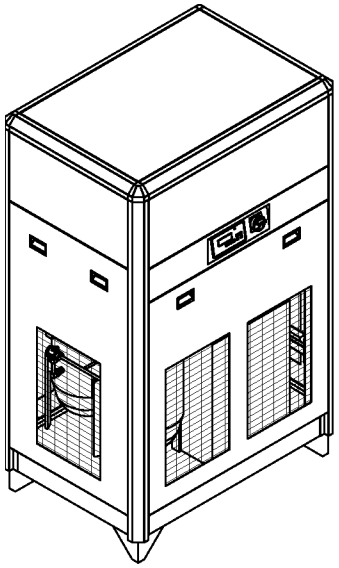


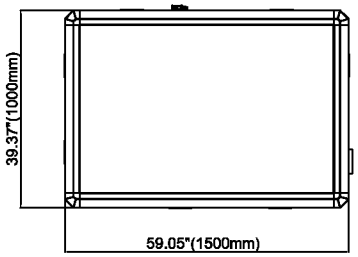
①	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-829	230V/3Ph/60Hz	AIR COOLED	RC1000
	02250193-910	400V/3Ph/50Hz	AIR COOLED	RC1000
	02250193-969	460V/3Ph/60Hz	AIR COOLED	RC1000
	02250194-127	575V/3Ph/60Hz	AIR COOLED	RC1000
	02250193-911	400V/3Ph/50Hz	AIR COOLED	RC1200
	02250193-970	460V/3Ph/60Hz	AIR COOLED	RC1200
	02250194-128	575V/3Ph/60Hz	AIR COOLED	RC1200



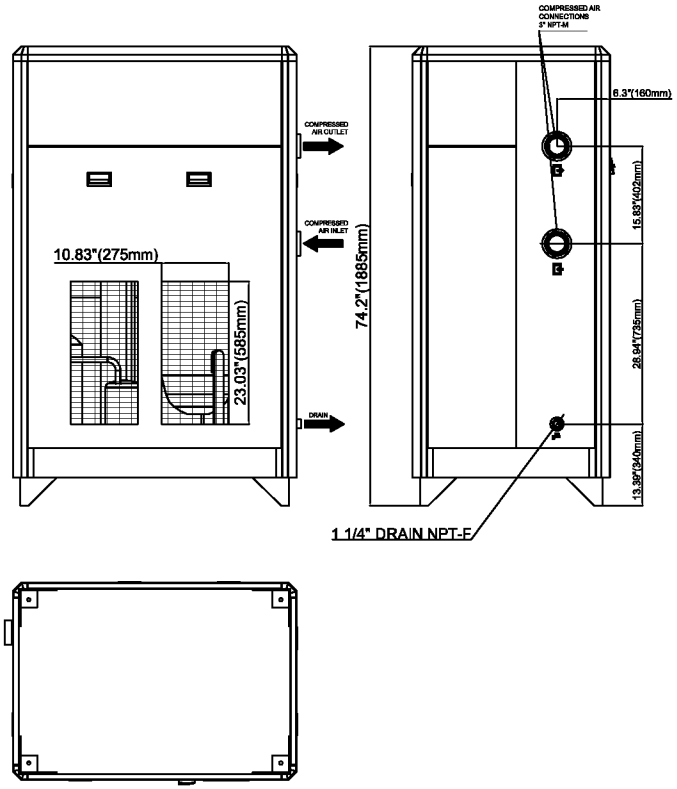


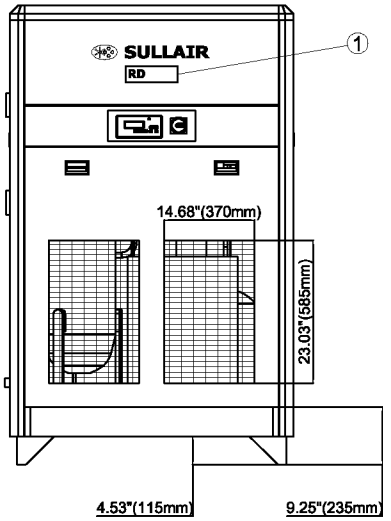
5.40 ID—RC 1000-1200 WATER COOLED



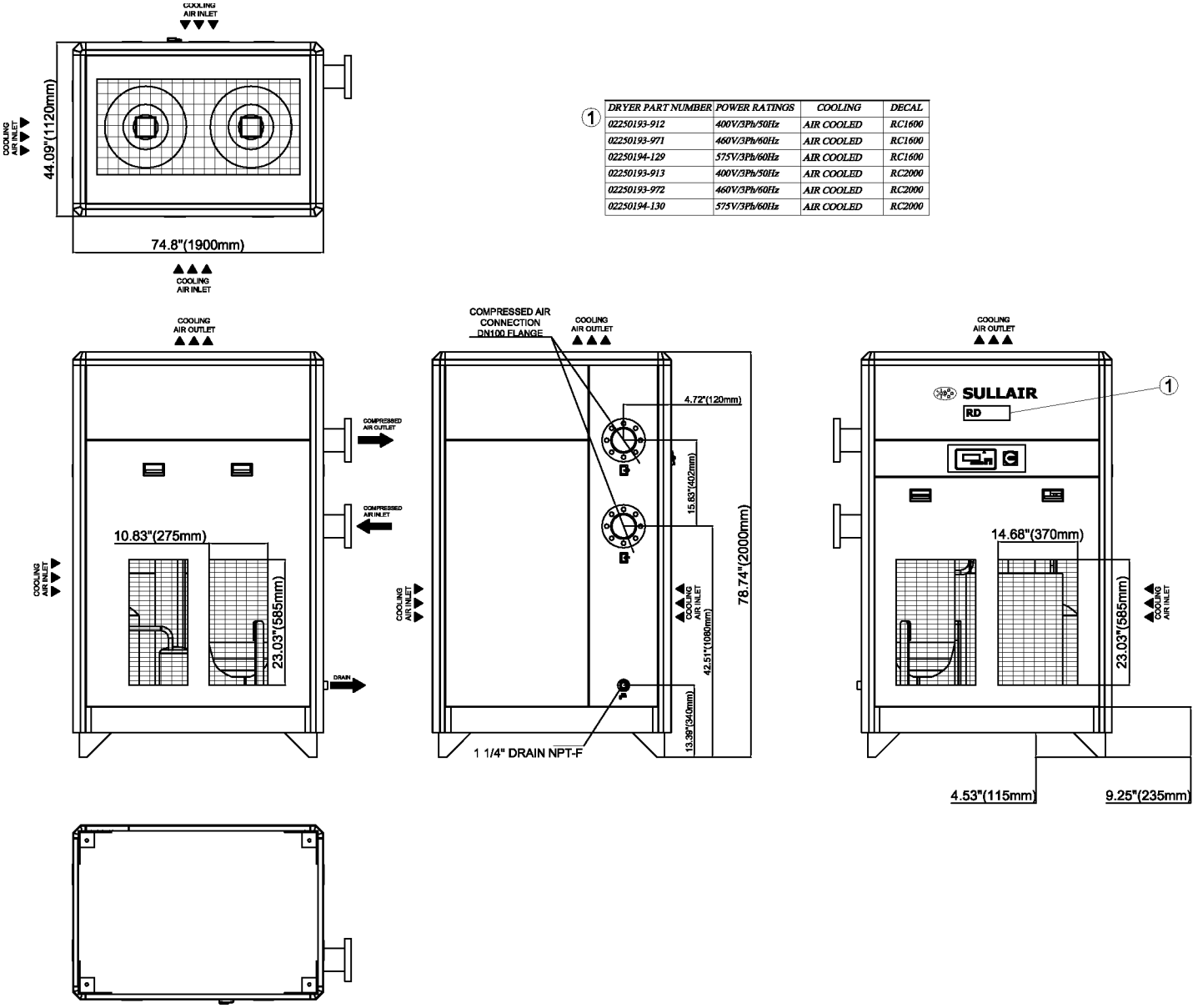


①	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-859	230V/3Ph/60Hz	WATER COOLED	RC1000
	02250193-935	400V/3Ph/50Hz	WATER COOLED	RC1000
	02250194-100	460V/3Ph/60Hz	WATER COOLED	RC1000
	02250194-154	575V/3Ph/60Hz	WATER COOLED	RC1000
	02250193-936	400V/3Ph/50Hz	WATER COOLED	RC1200
	02250194-101	460V/3Ph/60Hz	WATER COOLED	RC1200
	02250194-155	575V/3Ph/60Hz	WATER COOLED	RC1200





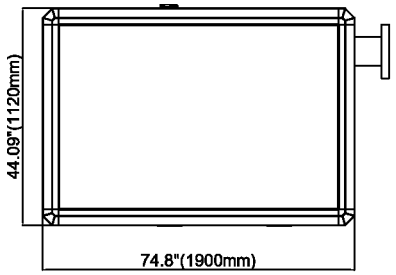
5.41 ID—RC 1600-2000 AIR COOLED

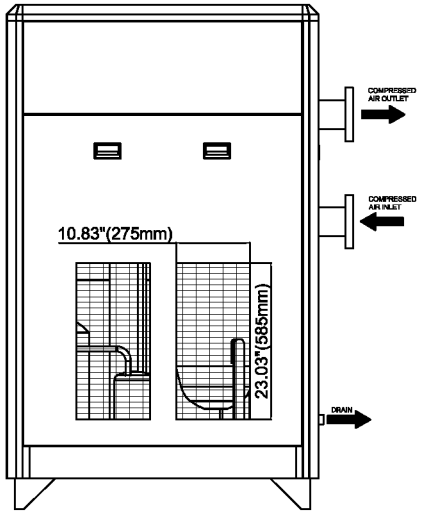


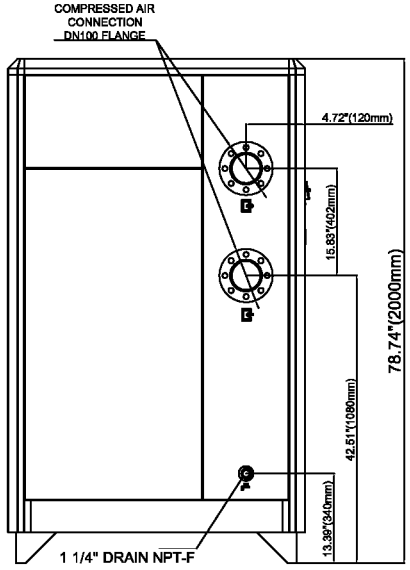
①	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-912	400V/3Ph/50Hz	AIR COOLED	RC1600
	02250193-971	460V/3Ph/60Hz	AIR COOLED	RC1600
	02250194-129	575V/3Ph/60Hz	AIR COOLED	RC1600
	02250193-913	400V/3Ph/50Hz	AIR COOLED	RC2000
	02250193-972	460V/3Ph/60Hz	AIR COOLED	RC2000
	02250194-130	575V/3Ph/60Hz	AIR COOLED	RC2000

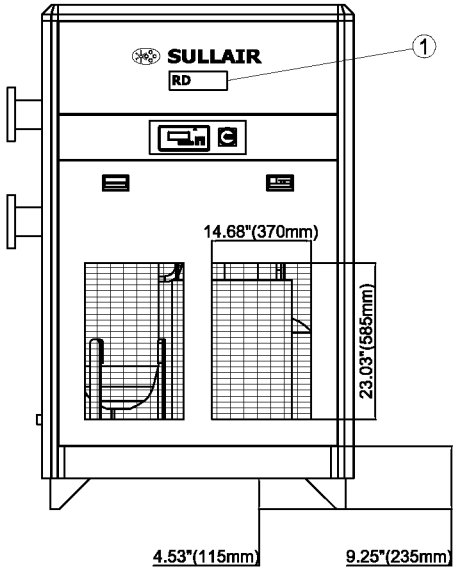
02250195-248

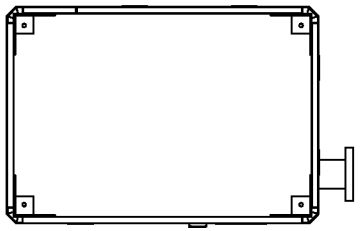
5.42 ID—RC 1600-2000 WATER COOLED







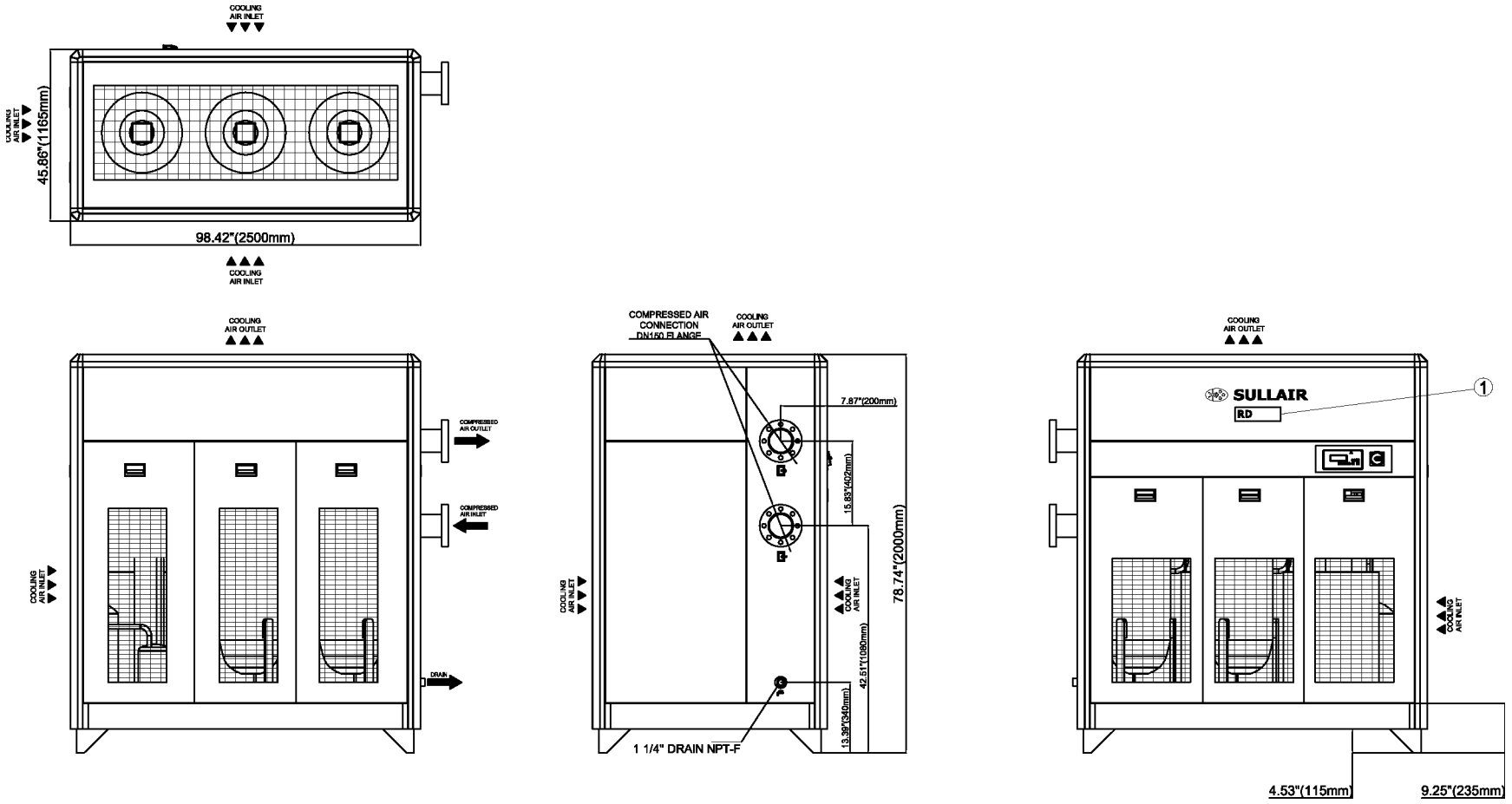




①	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-937	400V/3Ph/50Hz	WATER COOLED	RC1600
	02250194-102	460V/3Ph/60Hz	WATER COOLED	RC1600
	02250194-156	575V/3Ph/60Hz	WATER COOLED	RC1600
	02250193-938	400V/3Ph/50Hz	WATER COOLED	RC2000
	02250194-103	460V/3Ph/60Hz	WATER COOLED	RC2000
	02250194-157	575V/3Ph/60Hz	WATER COOLED	RC2000

02250195-248

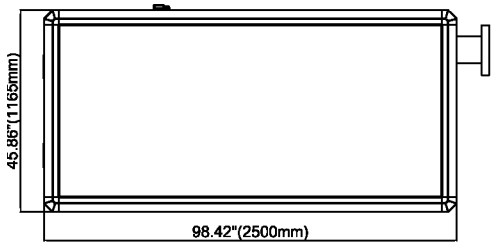
5.43 ID—RC 2400-3000 AIR COOLED

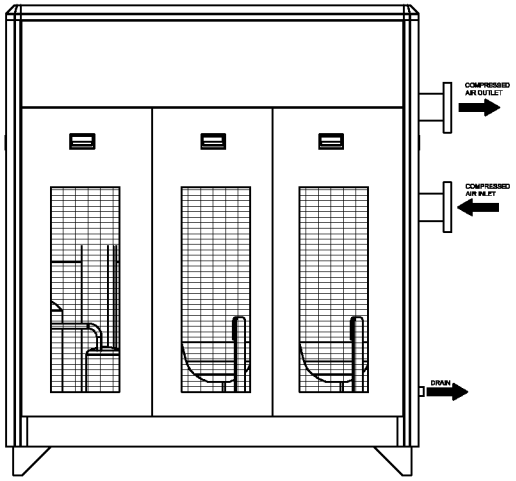


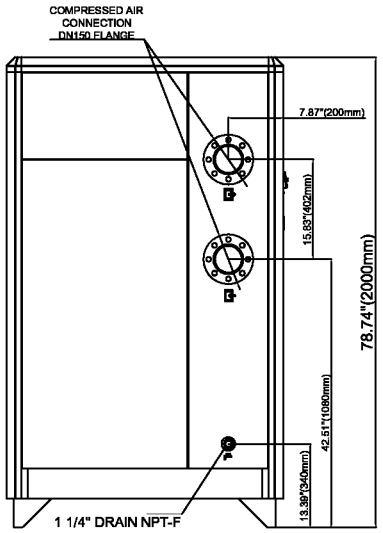
①	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-914	400V/3Ph/50Hz	AIR COOLED	RC2400
	02250193-973	460V/3Ph/60Hz	AIR COOLED	RC2400
	02250194-131	575V/3Ph/60Hz	AIR COOLED	RC2400
	02250193-915	400V/3Ph/50Hz	AIR COOLED	RC3000
	02250193-974	460V/3Ph/60Hz	AIR COOLED	RC3000
	02250194-132	575V/3Ph/60Hz	AIR COOLED	RC3000

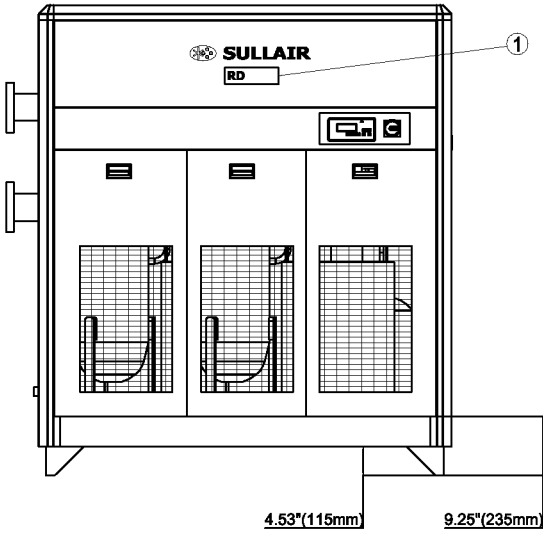
02250195-249

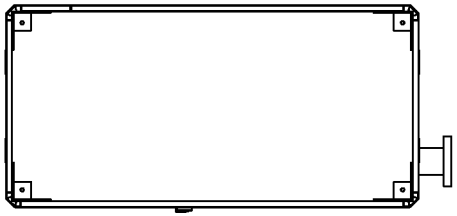
5.44 ID—RC 2400-3000 WATER COOLED





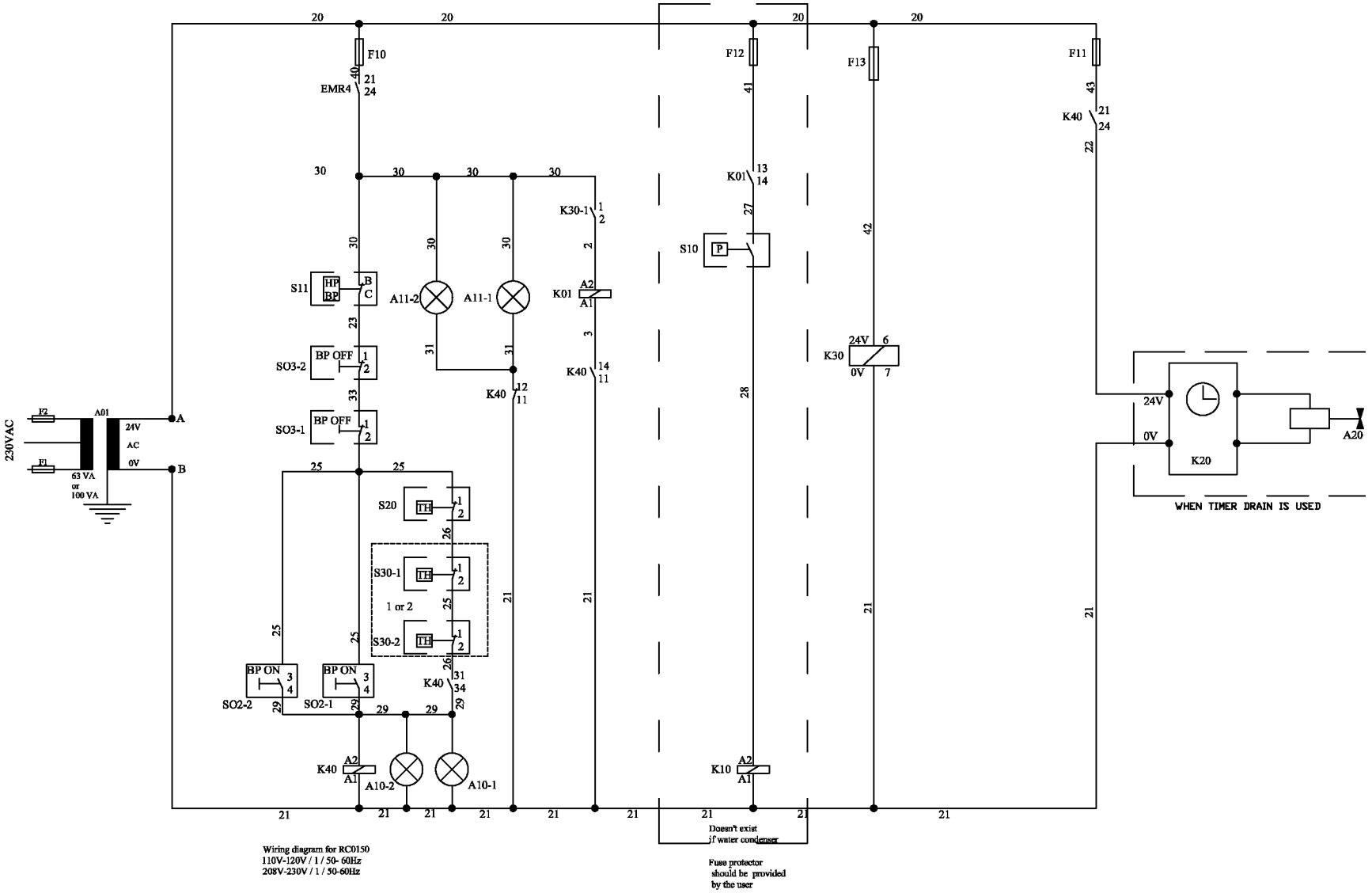






1	DRYER PART NUMBER	POWER RATINGS	COOLING	DECAL
	02250193-939	400V/3Ph/50Hz	WATER COOLED	RC2400
	02250194-104	460V/3Ph/60Hz	WATER COOLED	RC2400
	02250194-158	575V/3Ph/60Hz	WATER COOLED	RC2400
	02250193-940	400V/3Ph/50Hz	WATER COOLED	RC3000
	02250194-105	460V/3Ph/60Hz	WATER COOLED	RC3000
	02250194-159	575V/3Ph/60Hz	WATER COOLED	RC3000

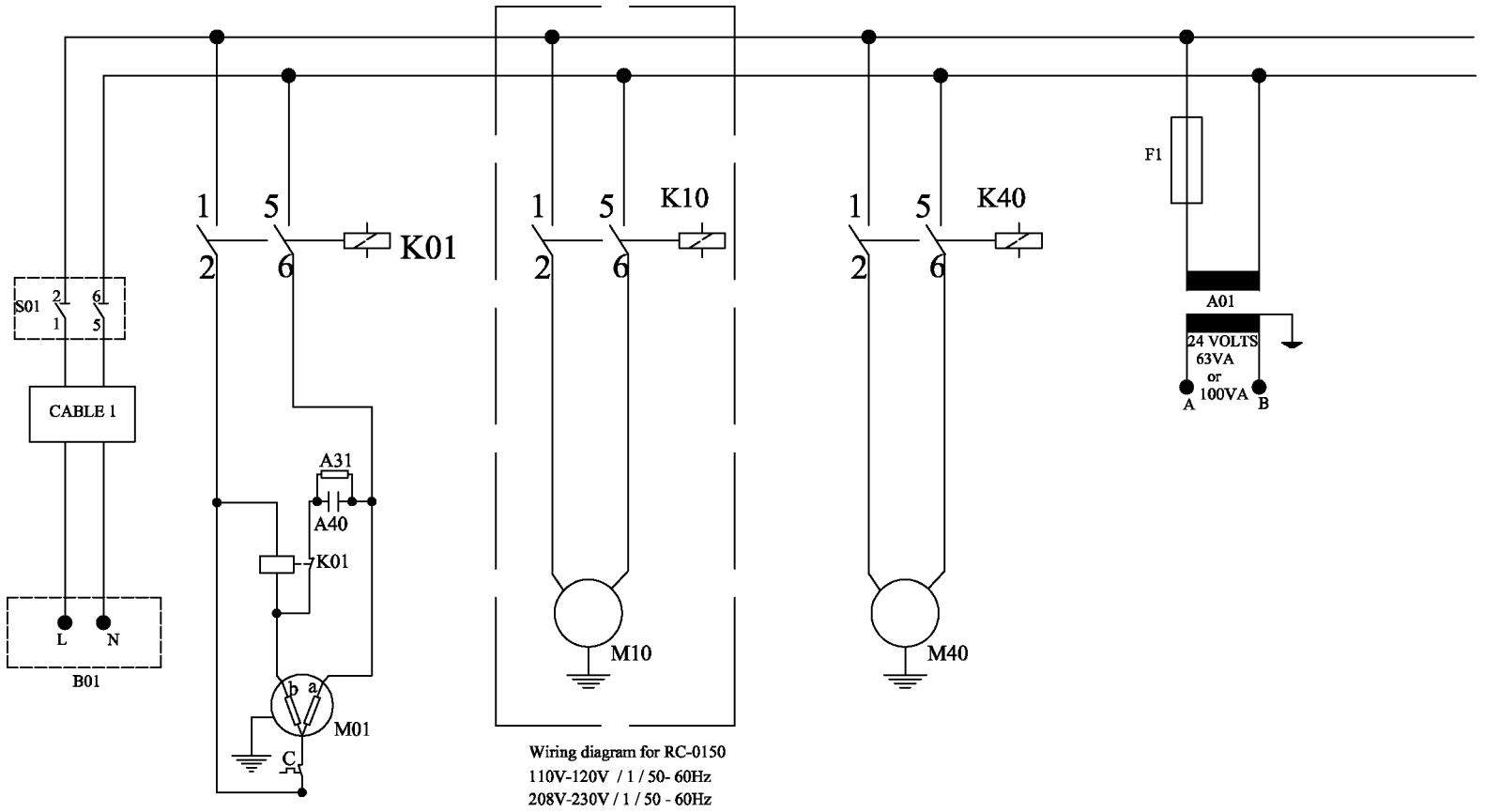
5.45 WIRING DIAGRAM—CONTROL CIRCUIT RC 150 (110/120-1-50/60-A, 208/230-1-50/60-A)



5.45 WIRING DIAGRAM—CONTROL CIRCUIT RC 150 (110/120-1-50/60-A, 208/230-1-50/60-A)

A01:	CONTROL CIRCUIT TRANSFORMER
A10-1:	RUNNING LAMP ON CONTROL PANEL (GREEN)
A10-2:	REMOTE CONTROL RUNNING LAMP (GREEN)
A10-3:	DUAL BUTTON CONTROL LAMP (GREEN)
A11-1:	STAND-BY LAMP ON CONTROL PANEL (RED)
A11-2:	REMOTE CONTROL STAND-BY LAMP (RED)
A20:	DRAIN VALVE
K01:	COMPRESSOR RELAY
EMR4:	PHASE PROTECTION RELAY
F10:	CONTROL CIRCUIT PROTECTION
F11:	DRAIN VALVE PROTECTION
F12:	FAN PROTECTION
F13:	ALARM PROTECTION
K01:	COMPRESSOR MOTOR RELAY
K10:	FAN MOTOR RELAY
K20:	DRAIN TIMER
K30:	ALARM RELAY
K30-1:	EKONOMIZER RELAY
K40:	WATER MOTOR RELAY
RL1:	ESD2 CONTACT
RL2:	ESD2 ALARM CONTACT
S02-1:	START BUTTON ON CONTROL PANEL
S02-2:	REMOTE CONTROL START BUTTON
S03-1:	STOP BUTTON ON CONTROL PANEL
S03-2:	REMOTE CONTROL STOP BUTTON
S04:	REMOTE CONTROL SWITCH
S10:	FAN PRESSURE CONTROL
S11:	HP-BP SECURITY CONTROL
S20:	SECURITY THERMOSTAT
S30-1:	FAN PROTECTOR I
S30-2:	FAN PROTECTOR II

5.46 WIRING DIAGRAM—POWER CIRCUIT RC 150 (110/120-1-50/60-A, 208/230-1-50/60-A)



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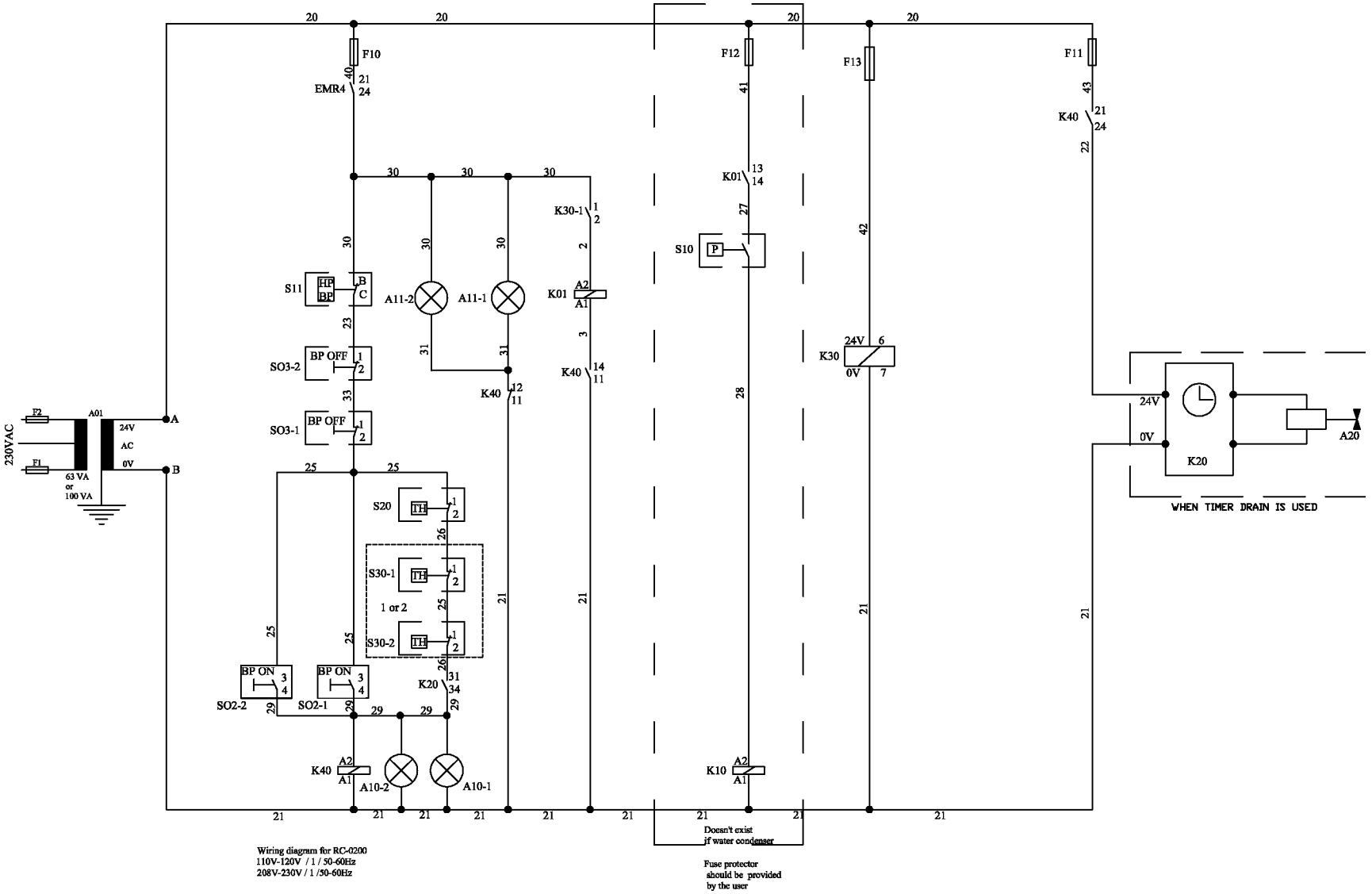
5.46 WIRING DIAGRAM—POWER CIRCUIT RC 150 (110/120-1-50/60-A, 208/230-1-50/60-A)

A:	RUN WINDING
B:	START WINDING
C:	MOTOR PROTECTION
A01:	CONTROL CIRCUIT TRANSFORMER
B01:	MAIN TERMINAL BLOCK
F1:	A01 PRIMARY PROTECTION
K01:	COMPRESSOR CONTACTOR
K10:	FAN CONTACTOR
K40:	WATER MOTOR
M01:	COMPRESSOR
M10:	FAN MOTOR
M40:	WATER MOTOR
S01:	MAIN SWITCH

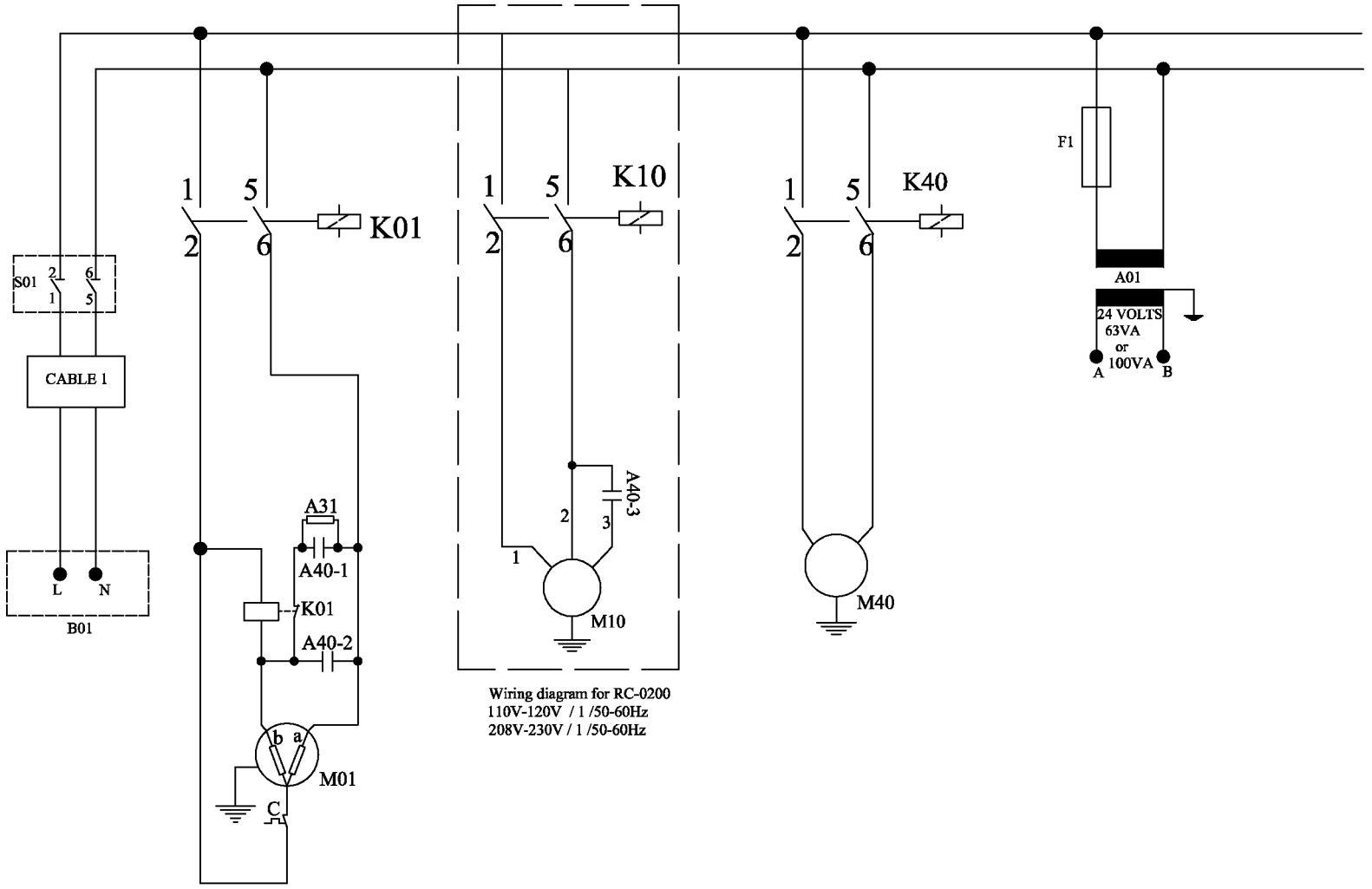
5.47 WIRING DIAGRAM—CONTROL CIRCUIT RC 200 (208/230-1-50/60-A)



5.47 WIRING DIAGRAM—CONTROL CIRCUIT RC 200 (208/230-1-50/60-A)

A01:	CONTROL CIRCUIT TRANSFORMER
A10-1:	RUNNING LAMP ON CONTROL PANEL (GREEN)
A10-2:	REMOTE CONTROL RUNNING LAMP (GREEN)
A10-3:	DUAL BUTTON CONTROL LAMP (GREEN)
A11-1:	STAND-BY LAMP ON CONTROL PANEL (RED)
A11-2:	REMOTE CONTROL STAND-BY LAMP (RED)
A20:	DRAIN VALVE
K01:	COMPRESSOR RELAY
EMR4:	PHASE PROTECTION RELAY
F10:	CONTROL CIRCUIT PROTECTION
F11:	DRAIN VALVE PROTECTION
F12:	FAN PROTECTION
F13:	ALARM PROTECTION
K01:	COMPRESSOR MOTOR RELAY
K10:	FAN MOTOR RELAY
K20:	DRAIN TIMER
K30:	ALARM RELAY
K30-1:	EKONOMIZER RELAY
K40:	WATER MOTOR RELAY
RL1:	ESD2 CONTACT
RL2:	ESD2 ALARM CONTACT
S02-1:	START BUTTON ON CONTROL PANEL
S02-2:	REMOTE CONTROL START BUTTON
S03-1:	STOP BUTTON ON CONTROL PANEL
S03-2:	REMOTE CONTROL STOP BUTTON
S04:	REMOTE CONTROL SWITCH
S10:	FAN PRESSURE CONTROL
S11:	HP-BP SECURITY CONTROL
S20:	SECURITY THERMOSTAT
S30-1:	FAN PROTECTOR I
S30-2:	FAN PROTECTOR II

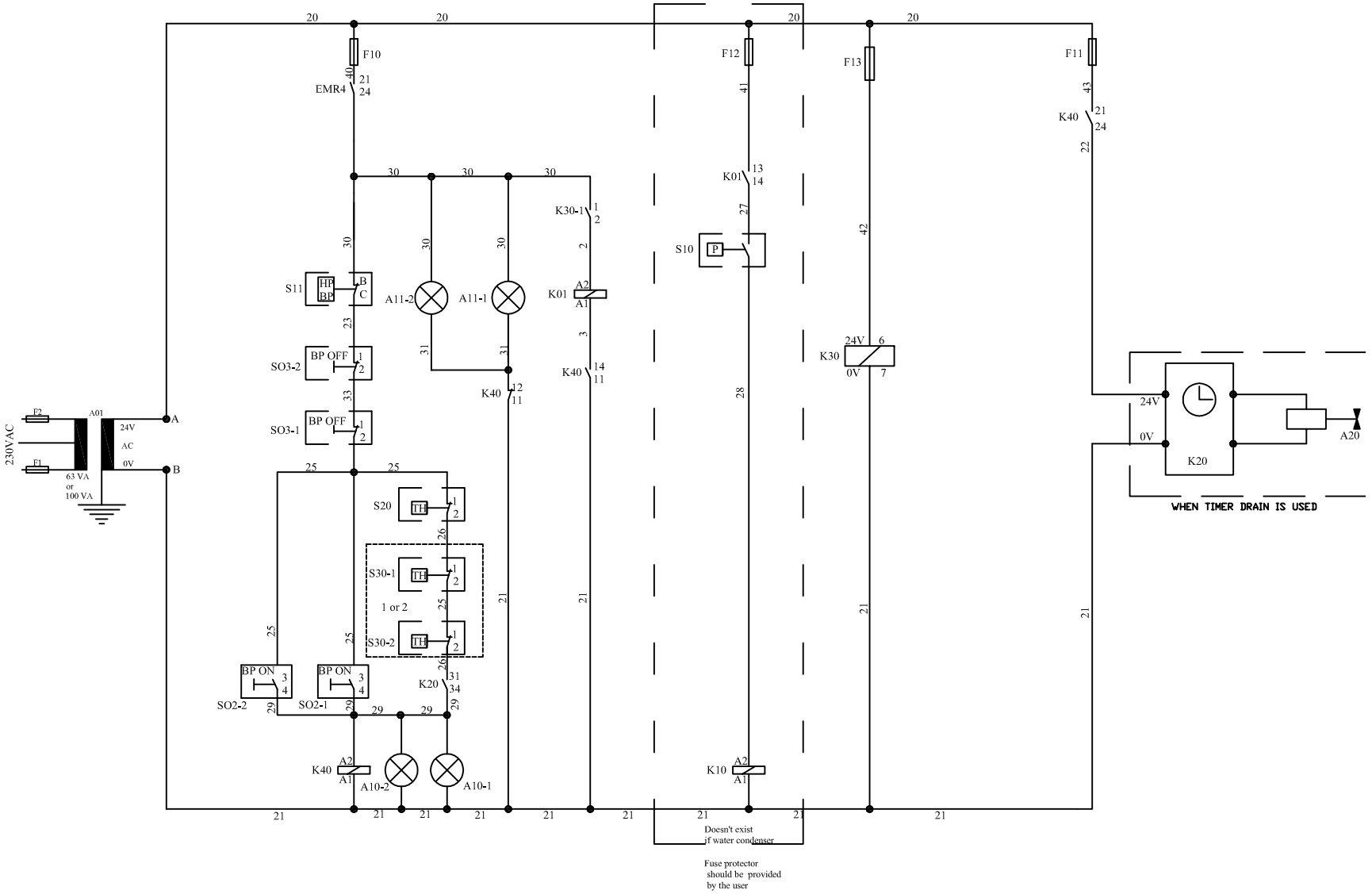
5.48 WIRING DIAGRAM—POWER CIRCUIT RC 200 (208/230-1-50/60-A)



5.48 WIRING DIAGRAM—POWER CIRCUIT RC 200 (208/230-1-50/60-A)

A:	RUN WINDING
B:	START WINDING
C:	MOTOR PROTECTION
A01:	CONTROL CIRCUIT TRANSFORMER
B01:	MAIN TERMINAL BLOCK
F1:	A01 PRIMARY PROTECTION
K01:	COMPRESSOR CONTACTOR
K10:	FAN CONTACTOR
K40:	WATER MOTOR
M01:	COMPRESSOR
M10:	FAN MOTOR
M40:	WATER MOTOR
S01:	MAIN SWITCH
1:	FAN MOTOR (BROWN)
2:	FAN MOTOR (GRAY)
3:	FAN MOTOR (BLACK)

5.49 WIRING DIAGRAM—CONTROL CIRCUIT RC 250 (208/230-1-50/60-A)

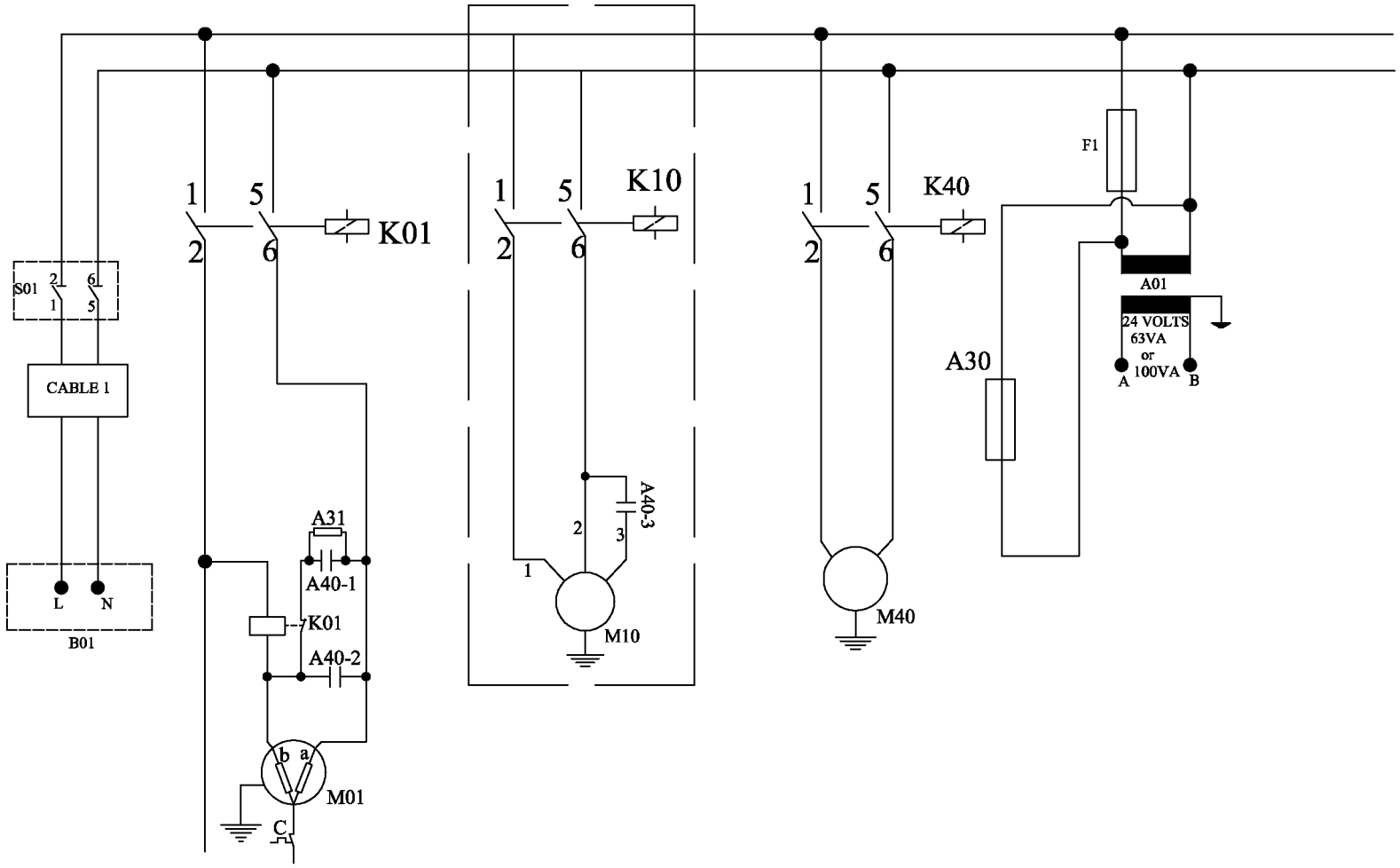


SULLAIR

5.49 WIRING DIAGRAM—CONTROL CIRCUIT RC 250 (208/230-1-50/60-A)

A01:	CONTROL CIRCUIT TRANSFORMER
A10-1:	RUNNING LAMP ON CONTROL PANEL (GREEN)
A10-2:	REMOTE CONTROL RUNNING LAMP (GREEN)
A10-3:	DUAL BUTTON CONTROL LAMP (GREEN)
A11-1:	STAND-BY LAMP ON CONTROL PANEL (RED)
A11-2:	REMOTE CONTROL STAND-BY LAMP (RED)
A20:	DRAIN VALVE
K01:	COMPRESSOR RELAY
EMR4:	PHASE PROTECTION RELAY
F10:	CONTROL CIRCUIT PROTECTION
F11:	DRAIN VALVE PROTECTION
F12:	FAN PROTECTION
F13:	ALARM PROTECTION
K01:	COMPRESSOR MOTOR RELAY
K10:	FAN MOTOR RELAY
K20:	DRAIN TIMER
K30:	ALARM RELAY
K30-1:	EKONOMIZER RELAY
K40:	WATER MOTOR RELAY
RL1:	ESD2 CONTACT
RL2:	ESD2 ALARM CONTACT
S02-1:	START BUTTON ON CONTROL PANEL
S02-2:	REMOTE CONTROL START BUTTON
S03-1:	STOP BUTTON ON CONTROL PANEL
S03-2:	REMOTE CONTROL STOP BUTTON
S04:	REMOTE CONTROL SWITCH
S10:	FAN PRESSURE CONTROL
S11:	HP-BP SECURITY CONTROL
S20:	SECURITY THERMOSTAT
S30-1:	FAN PROTECTOR I
S30-2:	FAN PROTECTOR II

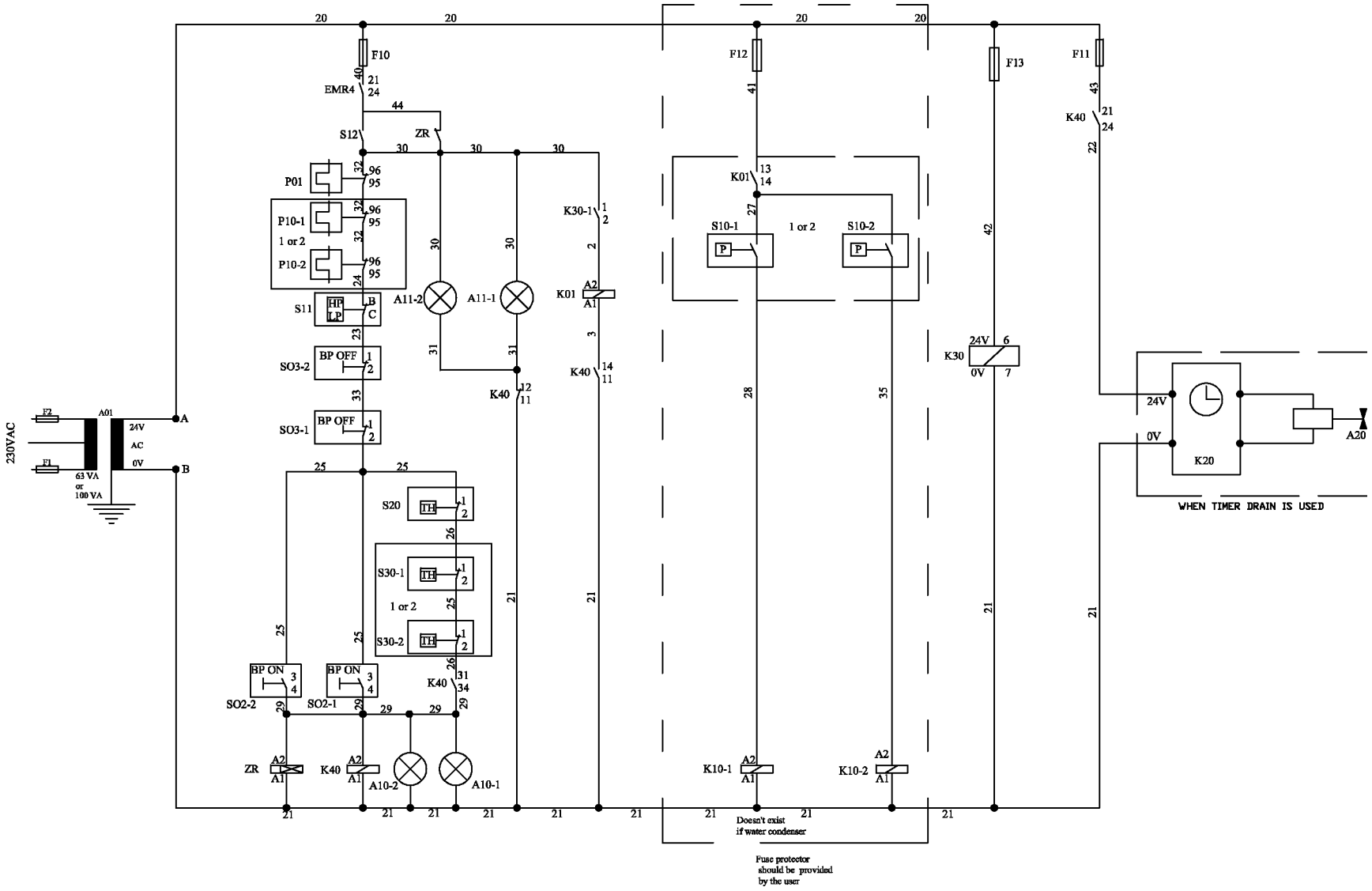
5.50 WIRING DIAGRAM—POWER CIRCUIT RC 250 (208/230-1-50/60-A)



5.50 WIRING DIAGRAM—POWER CIRCUIT RC 250 (208/230-1-50/60-A)

A:	RUN WINDING
B:	START WINDING
C:	MOTOR PROTECTION
A01:	CONTROL CIRCUIT TRANSFORMER
A30:	COMPRESSOR CHANKASER HEATER
B01:	MAIN TERMINAL BLOCK
F1:	A01 PRIMARY PROTECTION
K01:	COMPRESSOR CONTACTOR
K10:	FAN CONTACTOR
K40:	WATER MOTOR
M01:	COMPRESSOR
M10:	FAN MOTOR
M40:	WATER MOTOR
S01:	MAIN SWITCH
1:	FAN MOTOR (BROWN)
2:	FAN MOTOR (GRAY)
3:	FAN MOTOR (BLACK)

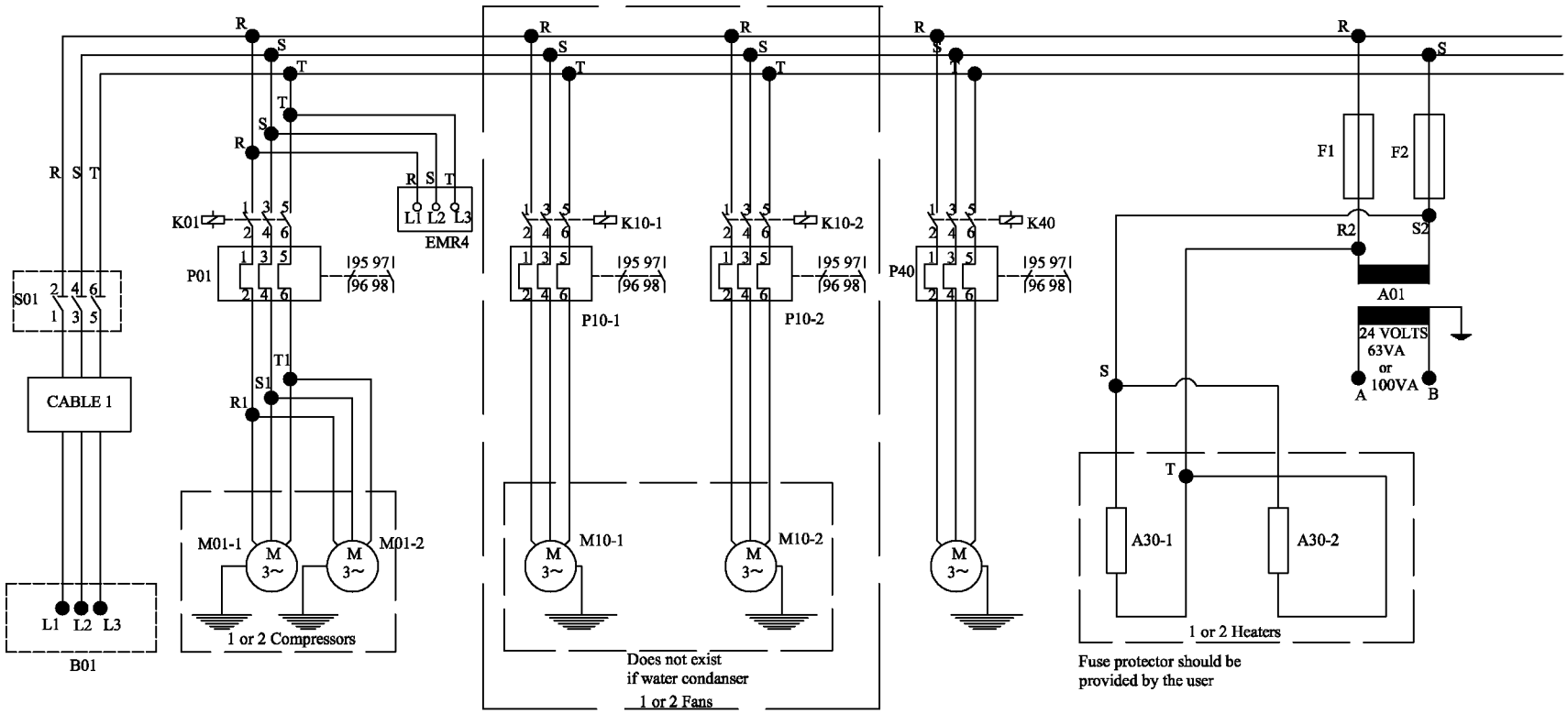
5.51 WIRING DIAGRAM—CONTROL CIRCUIT RC 250/3000 (230-3-50/60-A, 400/460-3-50/60-A)



5.51 WIRING DIAGRAM—CONTROL CIRCUIT RC 250/3000 (230-3-50/60-A, 400/460-3-50/60-A)

A01:	CONTROL CIRCUIT TRANSFORMER
A10-1:	RUNNING LAMP ON CONTROL PANEL (GREEN)
A10-2:	REMOTE CONTROL RUNNING LAMP (GREEN)
A10-3:	DUAL BUTTON CONTROL LAMP (GREEN)
A11-1:	STAND-BY LAMP ON CONTROL PANEL (RED)
A11-2:	REMOTE CONTROL STAND-BY LAMP (RED)
A20:	DRAIN VALVE
K01:	FREE OF POTENTIAL CONTACT ON RELAY
EMR4:	PHASE PROTECTION RELAY
F10:	CONTROL CIRCUIT PROTECTION
F11:	DRAIN VALVE PROTECTION
F12:	FAN PROTECTION
F13:	ALARM PROTECTION
K01:	COMPRESSOR MOTOR RELAY
K10-1:	FAN MOTOR RELAY 1
K10-2:	FAN MOTOR RELAY 2
K20:	TIMER DRAIN
K40:	WATER POMP RELAY
K30:	ALARM RELAY
K30-1:	EKONOMIZER RELAY
P01:	THERMAL PROTECTION OF COMPRESSOR
P10-1:	THERMAL PROTECTION OF FAN 1
P10-2:	THERMAL PROTECTION OF FAN 2
RL1:	ESD2 CONTACT
RL2:	ESD2 ALARM CONTACT
S02-1:	START BUTTON ON CONTROL PANEL
S02-2:	REMOTE CONTROL START BUTTON
S03-1:	STOP BUTTON ON CONTROL PANEL
S03-2:	REMOTE CONTROL STOP BUTTON
S04:	REMOTE CONTROL SWITCH
S10-1:	FAN PRESSURE CONTROL 1
S10-2:	FAN PRESSURE CONTROL 2
S11:	HP-LP SECURITY CONTROL
S20:	SECURITY THERMOSTAT
S30-1:	FAN PROTECTOR I
S30-2:	FAN PROTECTOR II

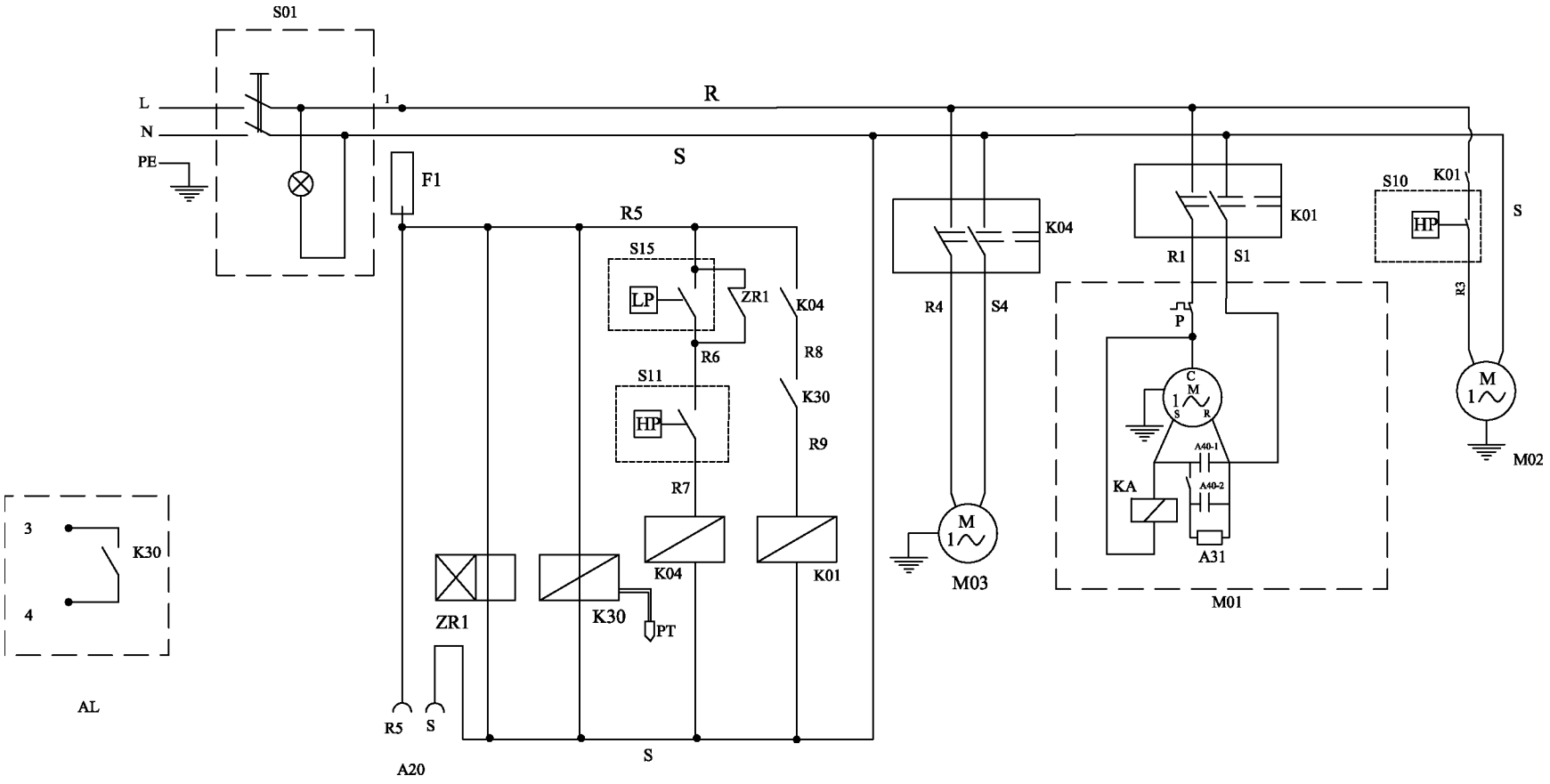
5.52 WIRING DIAGRAM—POWER CIRCUIT RC 250/3000 (230-3-50/60-A, 400/460-3-50/60-A)



5.52 WIRING DIAGRAM—POWER CIRCUIT RC 250/3000 (230-3-50/60-A, 400/460-3-50/60-A)

A01-1:	CONTROL CIRCUIT TRANSFORMER
A30-1/A30-2:	COMPRESSOR CHANKASER HEATERS
B01:	MAIN TERMINAL BLOCK
EMR4:	PHASE PROTECTION RELAY
F1,F2:	A01 PRIMARY PROTECTION
K01:	COMPRESSOR CONTACTOR (24V)
K10-1:	FAN CONTACTOR1 (24V)
K10-2:	FAN CONTACTOR2 (24V)
K40:	WATER MOTOR
M01-1/M01-2:	COMPRESSORS (400V-440V)
M10-1:	FAN MOTOR1 (400V-440V)
M10-2:	FAN MOTOR2 (400V-440V)
P01:	THERMAL PROTECTION OF
P10-1:	OVER LOAD PROTECTOR 1
P10-2:	OVER LOAD PROTECTOR 2
P40:	WATER MOTOR PROTECTION
S01:	MAIN SWITCH

5.53 WIRING DIAGRAM—RC 150-250 (115/220/1 50/60 AC)

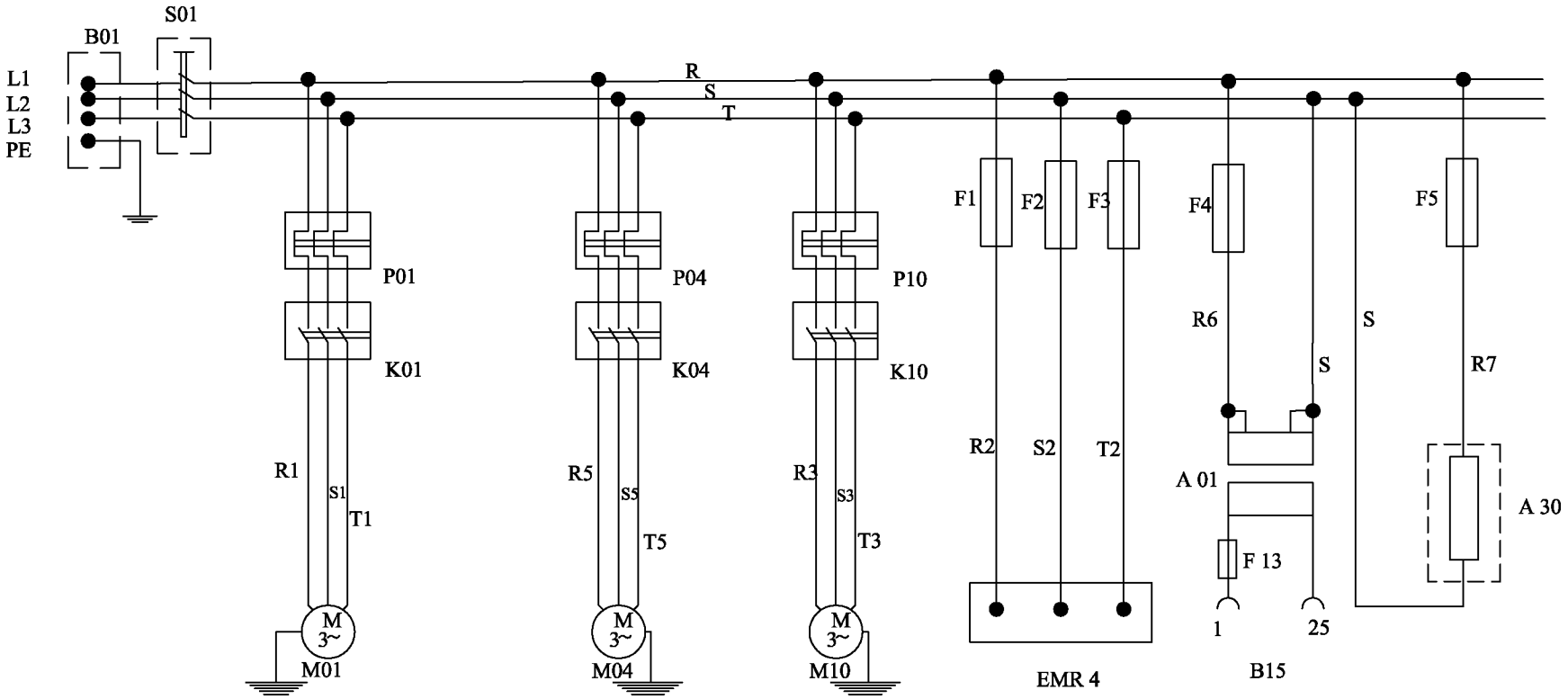


USE COPPER CONDUCTOR ONLY AT
167 °F

5.53 WIRING DIAGRAM—RC 150-250 (115/220/1 50/60 AC)

P	Compressor overload protection
F1	Control circuit protector
A20	Electronic drain supply
ZR1	Timer relay
K30	Economizer relay
K01	Compressor motor relay
K04	Water motor relay
KA	Compressor starting relay
S01	Main switch
S10	Fan pressure switch
S11	High pressure switch
S15	Water low pressure switch
M01	Compressor motor
M02	Fan motor
M03	Water motor
AL	Alarm contact
A40-1	Compressor run capacitor
A40-2	Compressor start capacitor
A31	Compressor start capacitor resistance
PT	Thermostatic sensor
HP	Indicates high pressure
LP	Indicates low pressure in the circuit

5.54 WIRING DIAGRAM—RC 250-400 (230/3 60 AC)

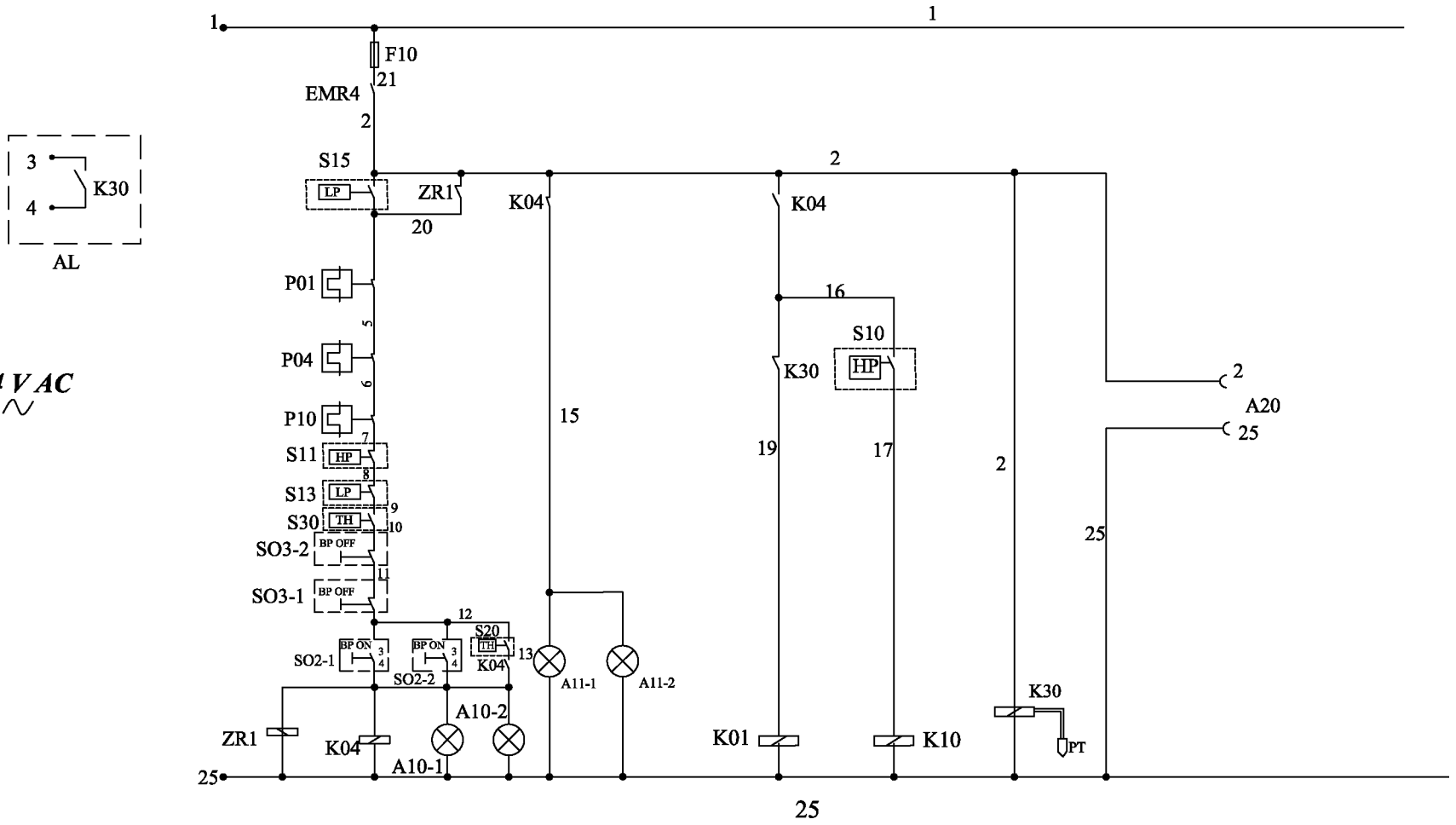


USE COPPER CONDUCTOR ONLY
AT 167 °F

5.54 WIRING DIAGRAM—RC 250-400 (230/3 60 AC)

A01	control circuit transformer
A30	compressor chankaser heaters
B01	main terminal block
B15	control circuit supply
EMR4	phase protection relay
F1, F2, F3	EMR4 overload protection
F4	A01 primary protection
F5	A30 overload protection
F13	A01 secondary protection
K01	compressor contactor
K10	fan contactor
K04	water motor contactor
M01	compressors
M04	water motor
M10	fan motor
P01	thermal protection of compressor
P10	overload protector of fan motor
P04	water motor protection
S01	main switch

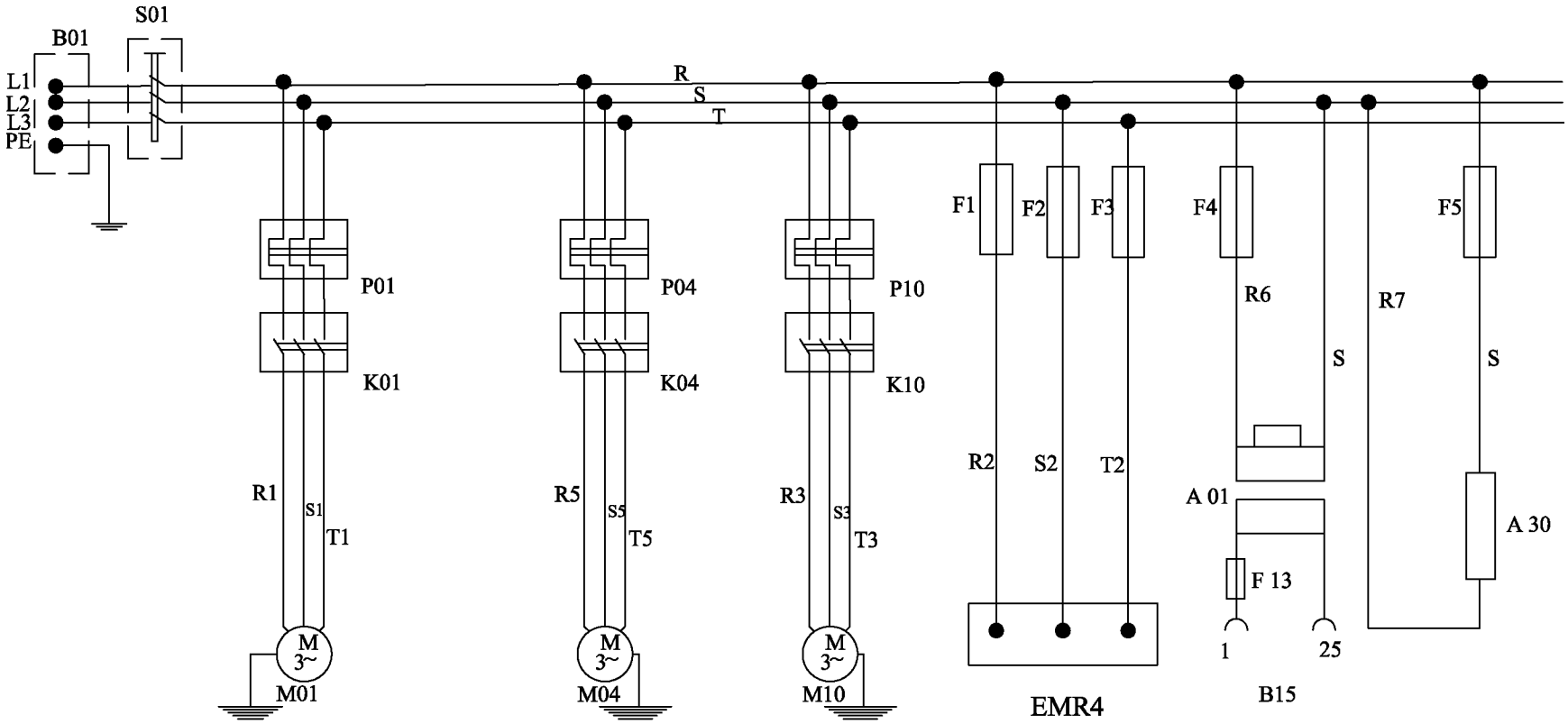
5.55 WIRING DIAGRAM—RC 250-400 (230/3 60 AC)



5.55 WIRING DIAGRAM—RC 250-400 (230/3 60 AC)

F10	control circuit protection
F11	economizer protection
K01	compressor motor relay
K04	water motor relay
K10	fan motor relay
K30	economizer relay
P01	thermal protection of compressor
P04	thermal protection of water motor
P10	thermal protector of fan
S02-1	start button on control panel
S02-2	remote control start button
S03-1	stop button on control panel
S03-2	remote control stop button
S10	fan high pressure control switch
S11	high pressure safety control switch
S13	low pressure switch
S15	water low pressure switch
S20	safety thermostat
S30	fan protector
A10-1	running lamp on control panel (green)
A10-2	remote control running lamp (green)
A11-1	stand-by lamp on control panel (red)
A11-2	remote control stand-by lamp (red)
A20	drain timer supply
EMR4	phase protection relay
AL	alarm contact
ZR1	timer relay
PT	thermostatic sensor (PT100)
HP	indicates high pressure
LP	indicates low pressure
TH	indicates high temperature in the circuit

5.56 WIRING DIAGRAM—RC 250-400 (400/460/575/3 50/60 AC)

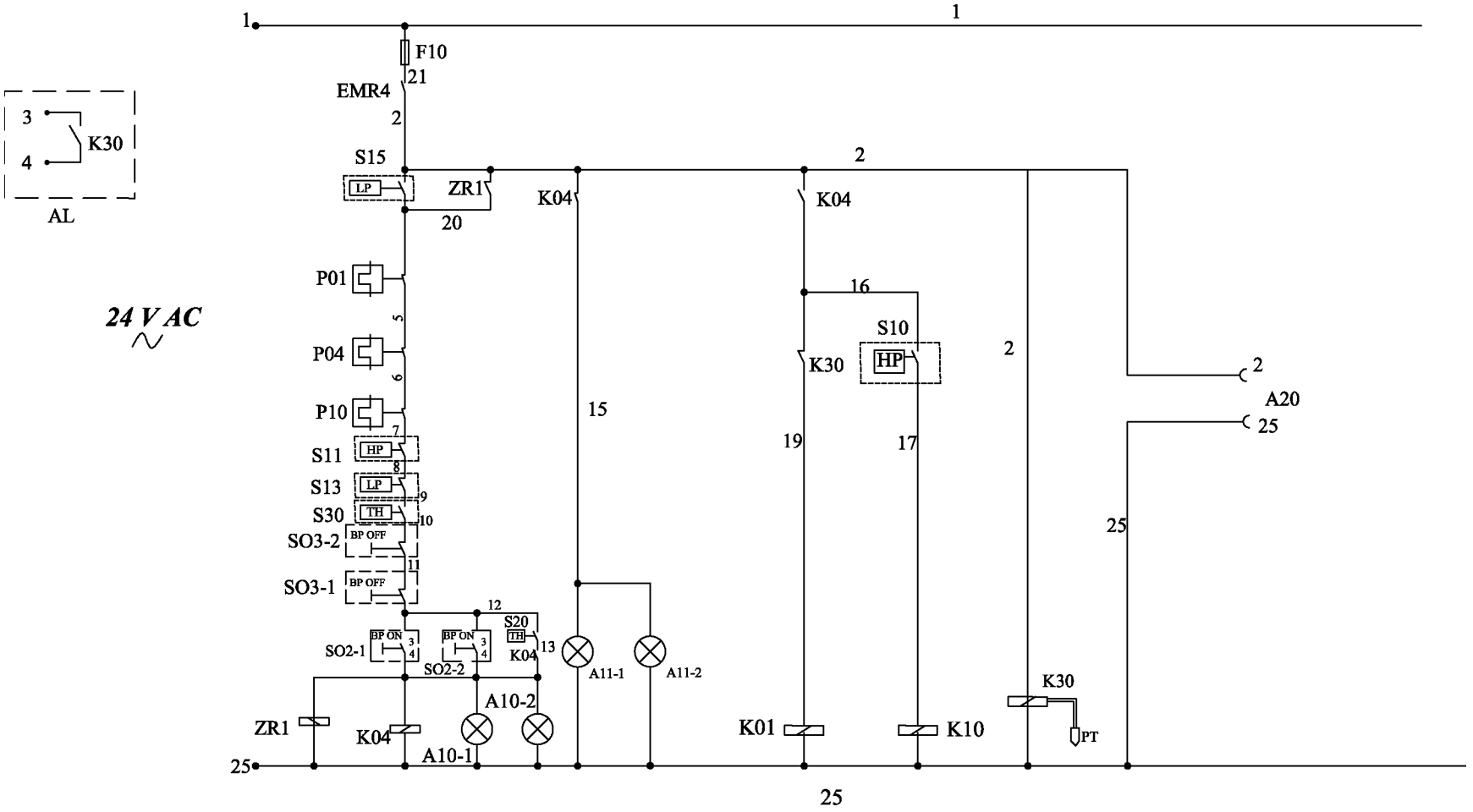


USE COPPER CONDUCTOR ONLY
AT 167 °F

5.56 WIRING DIAGRAM—RC 250-400 (400/460/575/3 50/60 AC)

A01	control circuit transformer
A30	compressor chankaser heaters
B01	main terminal block
B15	control circuit supply
EMR4	phase protection relay
F1, F2, F3	EMR4 overload protection
F4	A01 primary protection
F5	A30 overload protection
F13	A01 secondary protection
K01	compressor contactor
K10	fan contactor
K04	water motor contactor
M01	compressors
M04	water motor
M10	fan motor
P01	thermal protection of compressor
P10	overload protector of fan motor
P04	water motor protection
S01	main switch

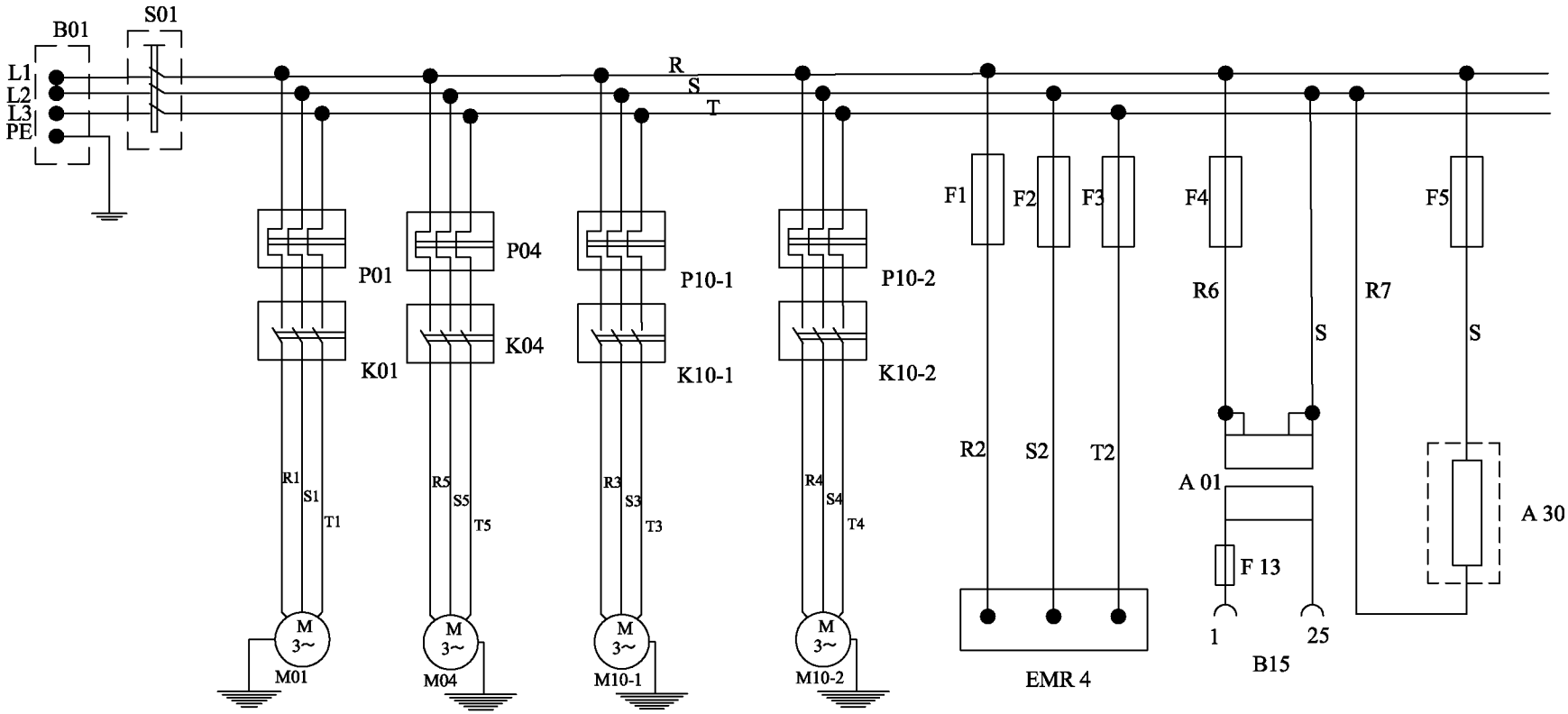
5.57 WIRING DIAGRAM—RC 250-400 (400/460/575/3 50/60 AC)



5.57 WIRING DIAGRAM—RC 250-400 (400/460/575/3 50/60 AC)

F10	control circuit protection
F11	economizer protection
K01	compressor motor relay
K04	water motor relay
K10	fan motor relay
K30	economizer relay
P01	thermal protection of compressor
P04	thermal protection of water motor
P10	thermal protector of fan
S02-1	start button on control panel
S02-2	remote control start button
S03-1	stop button on control panel
S03-2	remote control stop button
S10	fan high pressure control switch
S11	high pressure safety control switch
S13	low pressure switch
S15	water low pressure switch
S20	safety thermostat
S30	fan protector
A10-1	running lamp on control panel (green)
A10-2	remote control running lamp (green)
A11-1	stand-by lamp on control panel (red)
A11-2	remote control stand-by lamp (red)
A20	drain timer supply
EMR4	phase protection relay
AL	alarm contact
ZR1	timer relay
PT	thermostatic sensor (PT100)
HP	indicates high pressure
LP	indicates low pressure
TH	indicates high temperature in the circuit

5.58 WIRING DIAGRAM—RC (500-1000) 230/60 AC

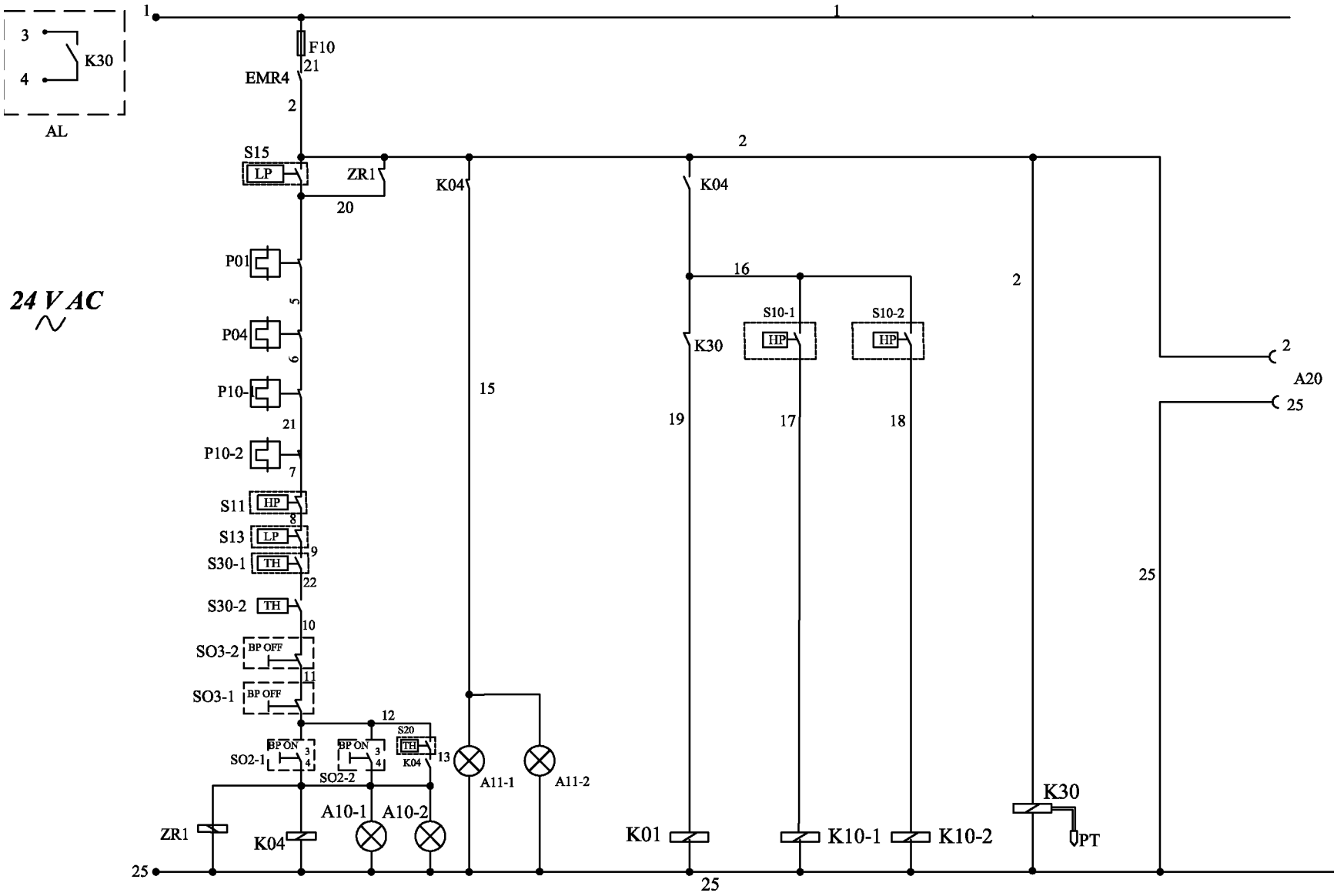


USE COPPER CONDUCTOR ONLY
AT 167 °F

5.58 WIRING DIAGRAM—RC (500-1000) 230/60 AC

A01	control circuit transformer
A30	compressor chankaser heaters
B01	main terminal block
B15	control circuit supply
EMR4	phase protection relay
F1, F2, F3	EMR4 overload protection
F4	A01 primary protection
F5	A30 overload protection
F13	A01 secondary protection
K01	compressor contactor
K10-1	fan contactor
K10-2	fan contactor
K04	water motor contactor
M01	compressors
M04	water motor
M10-1	fan motor
M10-2	fan motor
P01	thermal protection of compressor
P10-1	overload protector of fan motor 1
P10-2	overload protector of fan motor 2
P04	overload protection of water motor
S01	main switch

5.59 WIRING DIAGRAM—RC (500-1000) 230/60 AC



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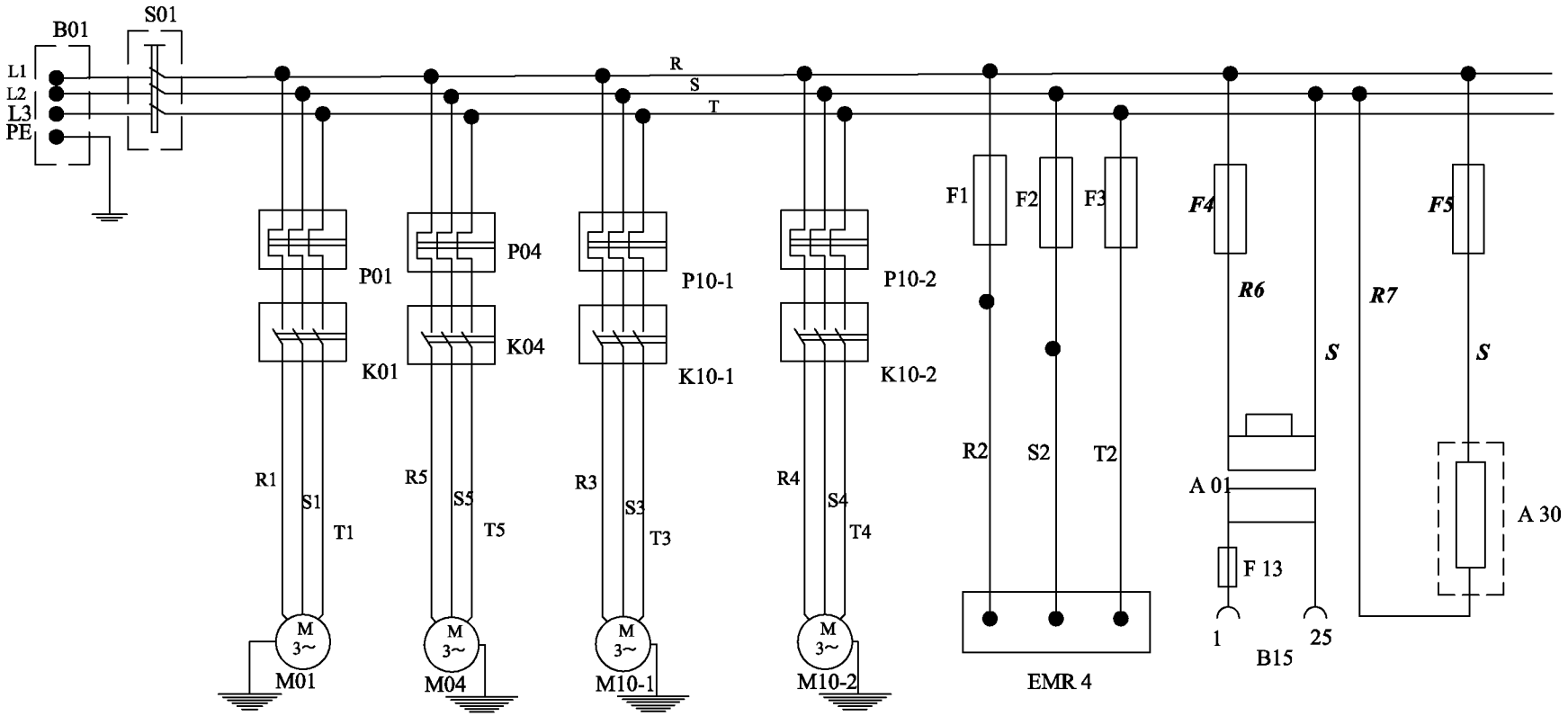
5.59 WIRING DIAGRAM—RC (500/700/850/1000/1200/1600/2000/2400/3000) 460-3-60-A, 400-3-60-A

F10	control circuit protection
F11	economizer protection
K01	compressor motor relay
K04	water motor relay
K10-1	fan motor relay
K10-2	fan motor relay
K30	economizer relay
P01	thermal protection of compressor
P04	thermal protection of water motor
P10-1	thermal protector of fan motor
P10-2	thermal protector of fan motor
S02-1	start button on control panel
S02-2	remote control start button
S03-1	stop button on control panel
S03-2	remote control stop button
S10	fan high pressure control switch
S11	high pressure safety control switch
S13	low pressure safety control switch
S15	water low pressure switch
S20	safety thermostat
S30-1	fan protector I
S30-2	fan protector II
A10-1	running lamp on control panel (green)
A10-2	remote control running lamp (green)
A11-1	stand-by lamp on control panel (red)
A11-2	remote control stand-by lamp (red)
A20	drain timer supply
EMR4	phase protection relay
AL	alarm contact
ZR1	timer relay
PT	thermostatic sensor (PT100)
HP	indicates high pressure
LP	indicates low pressure
TH	indicates high temperature in the circuit

5.60 WIRING DIAGRAM—RC 500-3000 (400/460/575/3 50/60 AC)

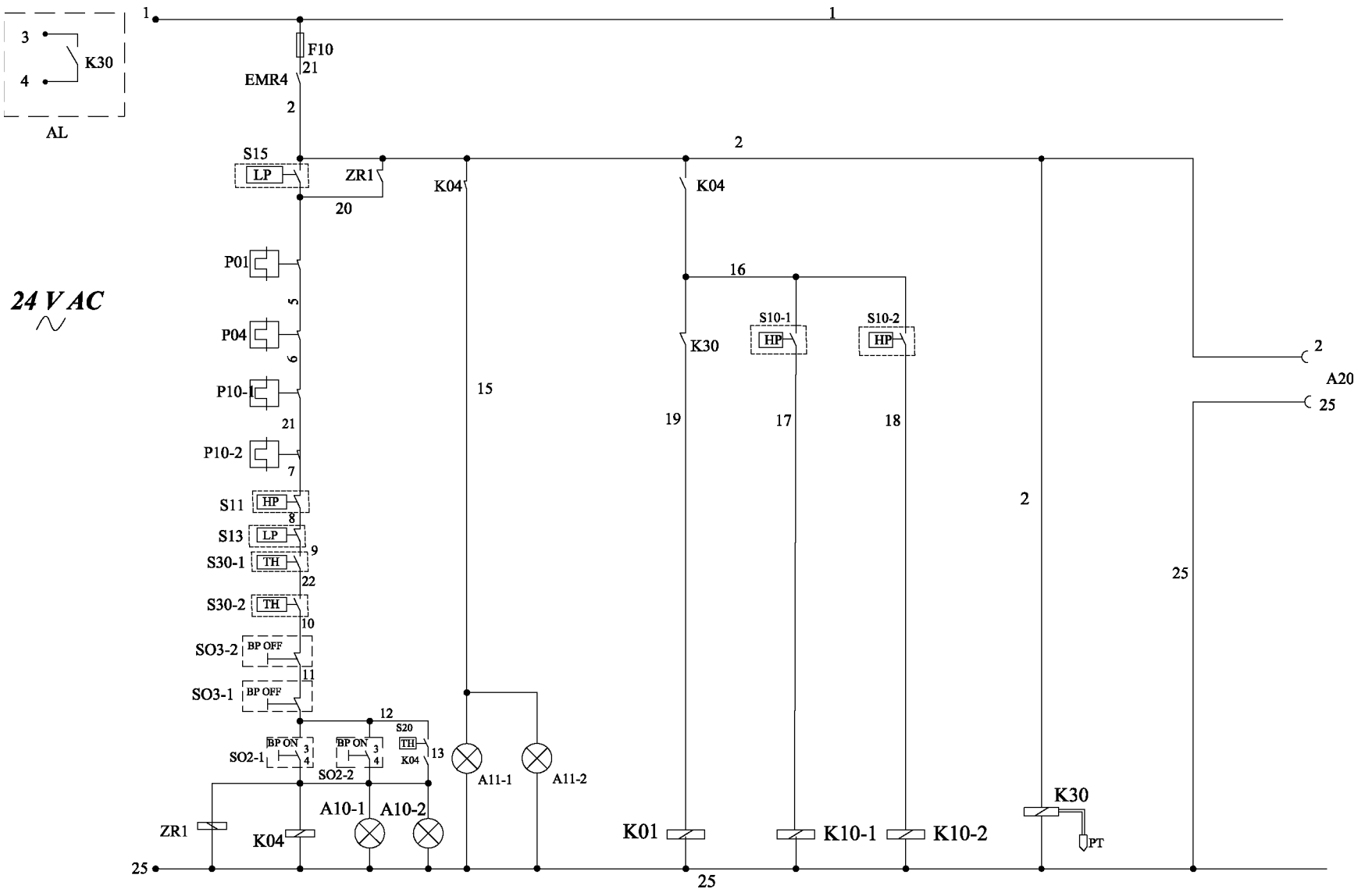


02250195-301-1

5.60 WIRING DIAGRAM—RC 500-3000 (400/460/575/3 50/60 AC)

A01	control circuit transformer
A30	compressor chankaser heaters
B01	main terminal block
B15	control circuit supply
EMR4	phase protection relay
F1, F2, F3	EMR4 overload protection
F4	A01 primary protection
F5	A30 overload protection
F13	A01 secondary protection
K01	compressor contactor
K04	water motor contactor
K10-1	fan contactor
K10-2	fan contactor
M01	compressors
M10-1	fan motor
M10-2	fan motor
P01	thermal protection of compressor
P04	water motor protection
P10-1	overload protector of fan motor 1
P10-2	overload protector of fan motor 2
S01	main switch

5.61 WIRING DIAGRAM—RC 500-3000 (400/460/575/3 50/60 AC)

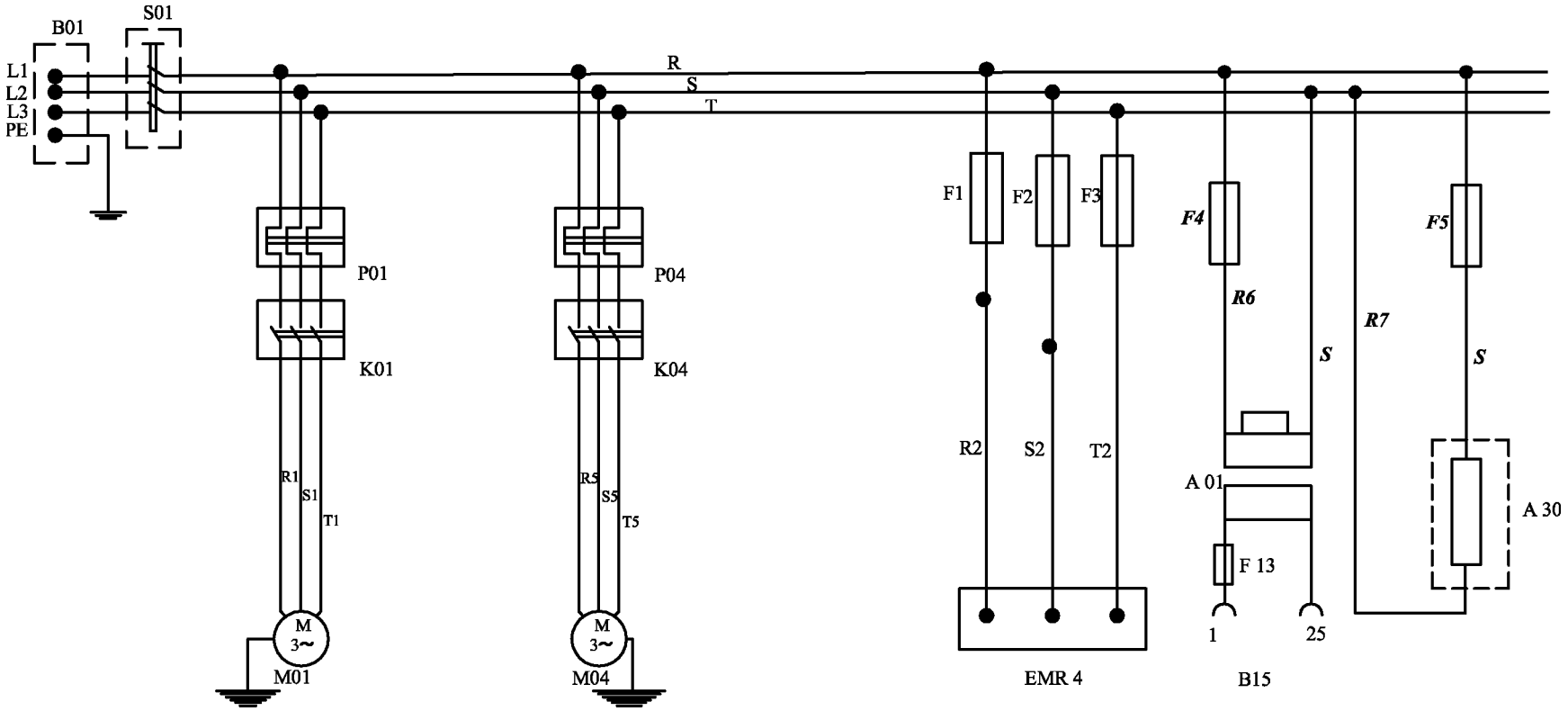


02250195-301-2

5.61 WIRING DIAGRAM—RC 500-3000 (400/460/575/3 50/60 AC)

F10	control circuit protection
F11	economizer protection
K01	compressor motor relay
K04	water motor relay
K10-1	fan motor relay
K10-2	fan motor relay
K30	economizer relay
P01	thermal protection of compressor
P04	thermal protection of water motor
P10-1	thermal protection of fan motor
P10-2	thermal protection of fan motor
S02-1	start button on control panel
S02-2	remote control start button
S03-1	stop button on control panel
S03-2	remote control stop button
S10	fan high pressure control switch
S11	high pressure safety control switch
S15	water low pressure switch
S20	safety thermostat
S30-1	fan protector I
S30-2	fan protector II
A10-1	running lamp on control panel (green)
A10-2	remote control running lamp (green)
A11-1	stand-by lamp on control panel (red)
A11-2	remote control stand-by lamp (red)
A20	drain timer supply
EMR4	phase protection relay
AL	alarm contact
ZR1	timer relay
PT	thermostatic sensor (PT100)
HP	indicates high pressure
LP	indicates low pressure
TH	indiates high temperature in the circuit

5.62 WIRING DIAGRAM—RC 700-3000 (400/460/575/3 50/60 AC)

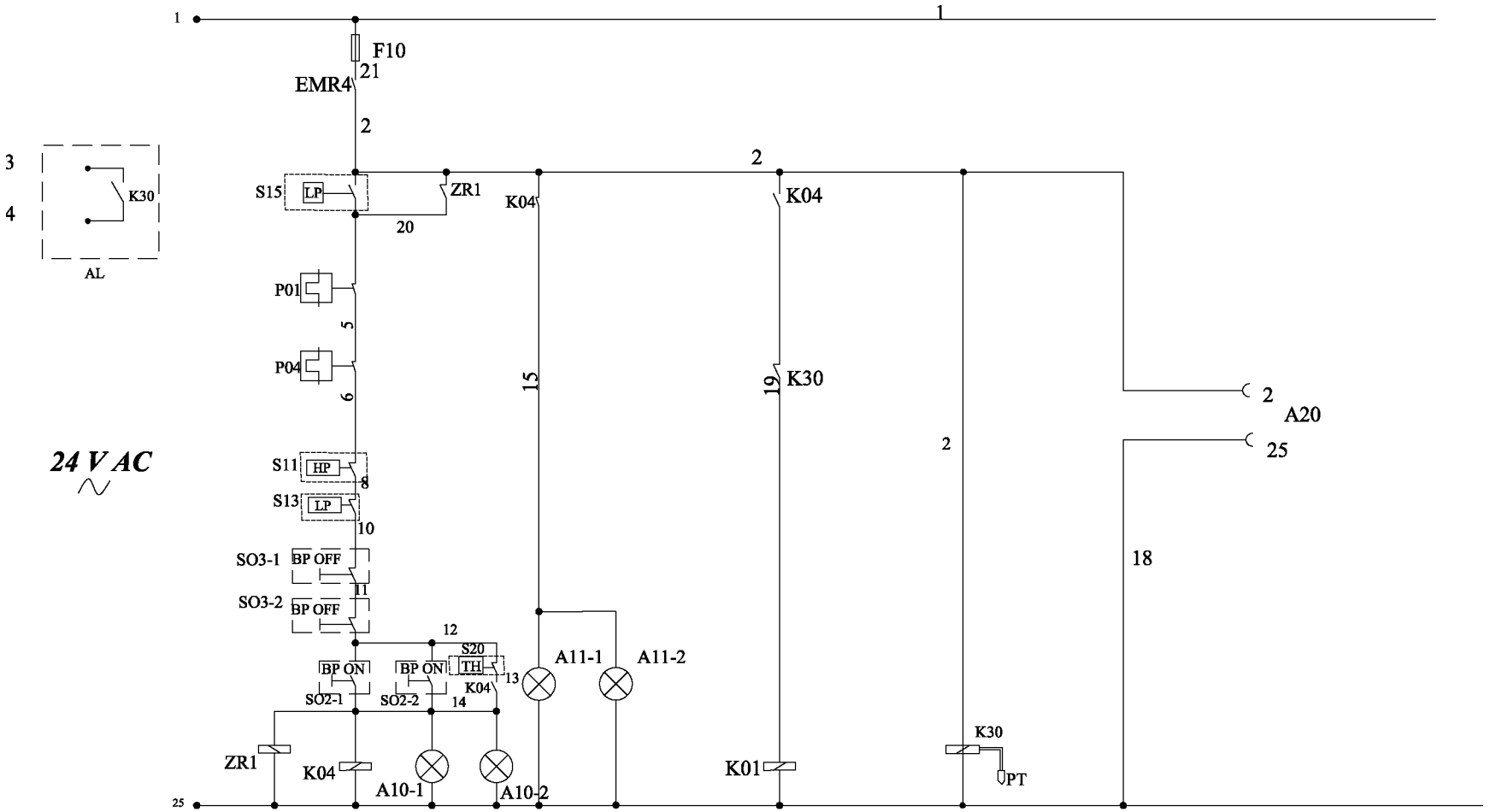


02250195-971-1

5.62 WIRING DIAGRAM—RC 700-3000 (400/460/575/3 50/60 AC)

A01	control circuit transformer
A30	compressor chankaser heaters
B01	main terminal block
B15	control circuit supply
EMR4	phase protection relay
F1, F2, F3	EMR4 overload protection
F4	A01 primary protection
F5	A30 overload protection
F13	A01 secondary protection
K01	compressor contactor
K04	water motor contactor
M01	compressors
M04	water motor
P01	thermal protection of compressor
P04	water motor protection
S01	main switch

5.63 WIRING DIAGRAM—RC RC 700-3000 (400/460/575/3 50/60 AC)



5.63 WIRING DIAGRAM—RC 700-3000 (400/460/575/3 50/60 AC)

F10	control circuit protection
F11	economizer protection
K01	compressor motor relay
K04	water motor relay
K30	economizer relay
P01	thermal protection of compressor
P04	thermal protection of water motor
S02-1	start button on control panel
S02-2	remote control start button
S03-1	stop button on control panel
S03-2	remote control stop button
S11	high pressure safety control switch
S13	low pressure safety control switch
S15	water low pressure switch
S20	safety thermostat
A10-1	running lamp on control panel (green)
A10-2	remote control running lamp (green)
A11-1	stand-by lamp on control panel (red)
A11-2	remote control stand-by lamp (red)
A20	drain timer supply
EMR4	phase protection relay
AL	alarm contact
ZR1	timer relay
PT	thermostatic sensor (PT100)

HP	indicates high pressure
LP	indicates low pressure
TH	indiates high temperature in the circuit

5.64 HOW TO CHANGE WATER / GYLICOL TEMPERATURE SET POINT:

Press  and  buttons at the same time.

CODE is seen on the screen. Factory set code is 10

By using  arrows set the code to 10

Press  and see ASEL

Press  and see ASEH

Press  and see SEEL

SEEL is the minimum water / gylicol temperature set value.

By using  arrows change the SEEL setting.

Factory setting for SEEL is 25 F

Press  and see SEEH

SEEH is the maximum water / gylicol temperature set value.

By using  arrows change the SEEH setting.

Factory setting for SEEH is 35 F

Press  and then press  to exit.

Section 6

MAINTENANCE

6.1 MAINTENANCE BY AN ENGINEER/TECHNICIAN

1. Maintenance and repairs should only be performed when the air dryer is shut down and depressurized and when the main power switch is turned OFF.
2. Use only the appropriate tools for maintenance and repair.
3. Before dismantling any part that has been pressurized, disconnect the pressure sources and depressurize the system completely. Shut off all valves and isolate the dryer.
4. Proceed carefully during maintenance and repair. Prevent dirt from entering by covering parts and orifices with a clean cloth, paper or tape.
5. Receiver tanks should never be welded or modified in any way.
6. Never leave tools, loose parts or cleaning rags in or on the air dryer.
7. Before connecting the dryer back online, check the setting of the control and safety devices as well as the pressure and the temperature of the compressed air circuit.
8. For dryers with water-cooled condensers - End caps of water condenser can be disassembled for cleaning with help of a water jet.

6.2 MAINTENANCE BY THE USER

1. Keep the dryer clean.
2. In case of more than 4 pounds of refrigerant, the dryer should be regularly checked to be leak free by qualified refrigerant engineer. Refer to section “Environmental protection” of this manual.
3. Every six months - check the correct operation of the condenser drain trap. Replace timer or solenoid valve in case of clogging or malfunctioning.
4. Every six months - check and clean the drain strainer or the electronic sensor by undoing the access screw and rinsing the filter with tap water to remove the trapped dirt from the inside.
5. Clean the air condenser with a brush or compressed air as soon as it’s dirty or clogged. Take extra care not to bend the fins of the condenser heat exchanger.
6. Check the troubleshooting list in case of maintenance issues.
7. Check operating pressures, temperatures and time settings after maintenance. If operating and safety devices function properly, the air dryer may be used.
8. For water-cooled condensers - Use only clean water when cleaning the condenser. Water should be jet-streamed from the outlet side to the inlet side.

6.3 RECOMMENDED MAINTENANCE

Table 6-1: Recommended Maintenance

Recommended Maintenance Activity	Weekly	Monthly	Semi-Annual	Annual
Air Condenser Cleaning		X		
Water condenser cleaning			X	
Replacement of Filter Element				X
Refrigerant Gas Leak (for dryers containing more then 4 lb of gas)				X
Refrigerant Gas Leak (for dryers containing more then 66 lb of gas)			X	
Drain control			X	
Cleaning drain strainer inside drain ball valve			X	
Cleaning or replacing drain membrane valve (250CFM and larger models)			X	
Monitoring working conditions	X			

6.4 REPLACEMENT PARTS

Component Name	RC-0150-115-1-60-A	RC-0150-220-1-50-A	RC-0150-230-1-60-A	RC-0175-220-1-50-A	RC-0175-230-1-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-0150-115-1-60-A	M-CMP-0200-220-1-50-A	M-CMP-0200-230-1-60-A	M-CMP-0200-230-1-60-A	M-CMP-0200-230-1-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0175	M-CON-0175	M-CON-0175	M-CON-0175	M-CON-0175
Fan motor	M-FMT-0150-115-1-60	M-FMT-0200-220-1-50	M-FMT-0200-230-1-50	M-FMT-0200-220-1-50	M-FMT-0200-230-1-50
Fan Blade	M-FAN-0200	M-FAN-0200	M-FAN-0200	M-FAN-0200	M-FAN-0200
fan grill	M-GRL-0200	M-GRL-0200	M-GRL-0200	M-GRL-0200	M-GRL-0200
Drier-Dehydrator	M-DRI-0200	M-DRI-0200	M-DRI-0200	M-DRI-0200	M-DRI-0200
Heat Exchanger	M-EXC-0200	M-EXC-0200	M-EXC-0200	M-EXC-0200	M-EXC-0200
Evaporator (water Heat Exchanger)	M-WHC-0200	M-WHC-0200	M-WHC-0200	M-WHC-0200	M-WHC-0200
Flexible steel tube (inlet)	M-INL-0150	M-INL-0150	M-INL-0150	M-INL-0150	M-INL-0150
Flexible steel tube (outlet)	M-OTL-0150	M-OTL-0150	M-OTL-0150	M-OTL-0150	M-OTL-0150
Expansion valve	M-EXV-0200	M-EXV-0200	M-EXV-0200	M-EXV-0200	M-EXV-0200
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-0200	M-HPS-0200	M-HPS-0200	M-HPS-0200	M-HPS-0200
Fan on/off switch	M-FNS-0200	M-FNS-0200	M-FNS-0200	M-FNS-0200	M-FNS-0200
Low pressure switch	N/A	N/A	N/A	N/A	N/A
Thermostatic switch	N/A	N/A	N/A	N/A	N/A
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-0325-115-1-60	M-PMP-0325-220-1-50	M-PMP-0325-230-1-60	M-PMP-0325-220-1-50	M-PMP-0325-230-1-60
Water Tank	M-WTA-0150	M-WTA-0150	M-WTA-0150	M-WTA-0175	M-WTA-0175
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-0150-115-1-60-A	M-COP-0200-220-1-50-A	M-COP-0200-230-1-60-A	M-COP-0200-230-1-60-A	M-COP-0200-230-1-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A

Component Name	RC-0150-115-1-60-A	RC-0150-220-1-50-A	RC-0150-230-1-60-A	RC-0175-220-1-50-A	RC-0175-230-1-60-A
On/off Button	M-ONB-0200	M-ONB-0200	M-ONB-0200	M-ONB-0200	M-ONB-0200
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700
Contactor	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400
Phase protection relay	N/A	N/A	N/A	N/A	N/A
Fan Contactor	N/A	N/A	N/A	N/A	N/A
Transformer	N/A	N/A	N/A	N/A	N/A
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-0150-115	M-SLV-0250-220	M-SLV-0250-230	M-SLV-0250-230	M-SLV-0250-230
Membrane valve	N/A	N/A	N/A	N/A	N/A
Membrane	N/A	N/A	N/A	N/A	N/A
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0200-C	M-CFR-0200-C	M-CFR-0200-C	M-CFR-0200-C	M-CFR-0200-C
Cabinet Side - Left	M-CLE-0200-C	M-CLE-0200-C	M-CLE-0200-C	M-CLE-0200-C	M-CLE-0200-C
Cabinet Side - Right	M-CRI-0200-C	M-CRI-0200-C	M-CRI-0200-C	M-CRI-0200-C	M-CRI-0200-C
Cabinet Rear	M-CRE-0200-C	M-CRE-0200-C	M-CRE-0200-C	M-CRE-0200-C	M-CRE-0200-C
Cabinet Top	M-CTO-0200-C	M-CTO-0200-C	M-CTO-0200-C	M-CTO-0200-C	M-CTO-0200-C
Cabinet Base	M-CBA-0200-C	M-CBA-0200-C	M-CBA-0200-C	M-CBA-0200-C	M-CBA-0200-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	PPN-1000	PPN-1000	PPN-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0200-C	M-CBL-0200-C	M-CBL-0200-C	M-CBL-0200-C	M-CBL-0200-C
Cabinet Frame Top	M-FRT-0200-C	M-FRT-0200-C	M-FRT-0200-C	M-FRT-0200-C	M-FRT-0200-C
Cabinette Horizontal profile 1	M-HP1-0200-C	M-HP1-0200-C	M-HP1-0200-C	M-HP1-0200-C	M-HP1-0200-C
Cabinette Horizontal profile 2	M-HP2-0200-C	M-HP2-0200-C	M-HP2-0200-C	M-HP2-0200-C	M-HP2-0200-C

Component Name	RC-0200-220-1-50-A	RC-0200-230-1-60-A	RC-0250-220-1-50-A	RC-0250-230-3-60-A	RC-0250-400-3-50-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-0200-220-1-50-A	M-CMP-0200-230-1-60-A	M-CMP-250-220-1-50-A	M-CMP-250-230-3-60-A	M-CMP-250-460-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0175	M-CON-0175	M-CON-0325	M-CON-0325	M-CON-0325
Fan motor	M-FMT-0200-230-1-50	M-FMT-0200-230-1-60	M-FMT-0325-220-1-50	M-FMT-0700-460-3-60	M-FMT-0700-460-3-50
Fan Blade	M-FAN-0200	M-FAN-0200	N/A	N/A	N/A
fan grill	M-GRL-0200	M-GRL-0200	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-0200	M-DRI-0200	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	M-EXC-0200	M-EXC-0200	2 x M-EXC-125	2 x M-EXC-125	2 x M-EXC-125
Evaporator (water Heat Exchanger)	M-WHC-0200	M-WHC-0200	M-WHC-0400	M-WHC-0400	M-WHC-0400
Flexible steel tube (inlet)	M-INL-0150	M-INL-0150	N/A	N/A	N/A
Flexible steel tube (outlet)	M-OTL-0150	M-OTL-0150	N/A	N/A	N/A
Expansion valve	M-EXV-0200	M-EXV-0200	M-EXV-0850	M-EXV-0850	M-EXV-0850
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-0200	M-HPS-0200	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0200	M-FNS-0200	M-FNS-0400	M-FNS-0400	M-FNS-0400
Low pressure switch	N/A	N/A	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	N/A	N/A	M-THS-0325	M-THS-0325	M-THS-0325
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-0325-220-1-50	M-PMP-0325-230-1-60	M-PMP-0325-220-1-50	M-PMP-0325-230-3-60	M-PMP-0325-400-3-40
Water Tank	M-WTA-200	M-WTA-200	M-WTA-250	M-WTA-250	M-WTA-250
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-0200-220-1-50-A	M-COP-0200-230-1-60-A	M-COP-250-220-1-50-A	M-COP-250-230-3-60-A	M-COP-250-460-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-0200	M-ONB-0200	M-ONB-1000	M-ONB-3000	M-ONB-3000

Component Name	RC-0200-220-1-50-A	RC-0200-230-1-60-A	RC-0250-220-1-50-A	RC-0250-230-3-60-A	RC-0250-400-3-50-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700
Contactor	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400
Phase protection relay	N/A	N/A	N/A	M-PPR-1000	M-PPR-1000
Fan Contactor	N/A	N/A	N/A	M-FCN-1000	M-FCN-1000
Transformer	N/A	N/A	N/A	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-0250-230	M-SLV-0250-230	M-SLV-0250-230	M-SLV-0250-230	M-SLV-3000-24
Membrane valve	N/A	N/A	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	N/A	N/A	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0200-C	M-CFR-0200-C	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C
Cabinet Side - Left	M-CLE-0200-C	M-CLE-0200-C	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C
Cabinet Side - Right	M-CRI-0200-C	M-CRI-0200-C	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C
Cabinet Rear	M-CRE-0200-C	M-CRE-0200-C	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C
Cabinet Top	M-CTO-0200-C	M-CTO-0200-C	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C
Cabinet Base	M-CBA-0200-C	M-CBA-0200-C	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	PPN-1000	PPN-1000	PPN-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0200-C	M-CBL-0200-C	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C
Cabinet Frame Top	M-FRT-0200-C	M-FRT-0200-C	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C
Cabinette Horizontal profile 1	M-HP1-0200-C	M-HP1-0200-C	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C
Cabinette Horizontal profile 2	M-HP2-0200-C	M-HP2-0200-C	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C

Component Name	RC-0250-460-3-60-A	RC-0250-575-3-60-A	RC-0325-230-3-60-A	RC-0325-400-3-50-A	RC-0325-460-3-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-250-460-3-60-A	M-CMP-250-575-3-60-A	M-CMP-325-230-3-60-A	M-CMP-325-400-3-50-A	M-CMP-325-460-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0325	M-CON-0325	M-CON-0325	M-CON-0325	M-CON-0325
Fan motor	M-FMT-0700-460-3-60	M-FMT-0700-575-3-60	M-FMT-0700-460-3-60	M-FMT-0700-460-3-50	M-FMT-1000-460-3-60
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	2 x M-EXC-125	2 x M-EXC-125	2 x M-EXC-200	2 x M-EXC-200	2 x M-EXC-200
Evaporator (water Heat Exchanger)	M-WHC-0400	M-WHC-0400	M-WHC-0400	M-WHC-0400	M-WHC-0400
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-0850	M-EXV-0850	M-EXV-1000	M-EXV-1000	M-EXV-1000
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-0325-460-3-60	M-PMP-0325-575-3-60	M-PMP-0325-230-1-60	M-PMP-0325-400-1-50	M-PMP-0325-460-3-60
Water Tank	M-WTA-250	M-WTA-250	M-WTA-325	M-WTA-325	M-WTA-325
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-250-460-3-60-A	M-COP-250--5753-60-A	M-COP-325-230-3-60-A	M-COP-325-400-3-50-A	M-COP-325-460-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0250-460-3-60-A	RC-0250-575-3-60-A	RC-0325-230-3-60-A	RC-0325-400-3-50-A	RC-0325-460-3-60-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700
Contactor	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-0250-230	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C
Cabinet Side - Left	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C
Cabinet Side - Right	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C
Cabinet Rear	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C
Cabinet Top	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C
Cabinet Base	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	PPN-1000	PPN-1000	PPN-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C
Cabinet Frame Top	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C
Cabinette Horizontal profile 1	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C
Cabinette Horizontal profile 2	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C

Component Name	RC-0400-230-3-60-A	RC-0400-400-3-50-A	RC-0400-460-3-60-A	RC-0400-575-3-60-A	RC-0500-230-3-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-400-230-3-60-A	M-CMP-400-400-3-50-A	M-CMP-400-460-3-60-A	M-CMP-400-575-3-60-A	M-CMP-500-230-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0400	M-CON-0400	M-CON-0400	M-CON-0400	M-CON-0500
Fan motor	M-FMT-0700-460-3-60	M-FMT-0700-460-3-50	M-FMT-0700-460-3-60	M-FMT-0700-575-3-60	M-FMT-0700-460-3-60
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	2 x M-EXC-200	2 x M-EXC-200	2 x M-EXC-200	2 x M-EXC-200	3 x M-EXC-200
Evaporator (water Heat Exchanger)	M-WHC-0400	M-WHC-0400	M-WHC-0400	M-WHC-0400	M-WHC-0500
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-1000	M-EXV-1000	M-EXV-1000	M-EXV-1000	M-EXV-1000
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-1000-230-3-60	M-PMP-1000-400-3-50	M-PMP-1000-460-3-60	M-PMP-1000-575-3-60	M-PMP-1000-230-3-60
Water Tank	M-WTA-400	M-WTA-400	M-WTA-400	M-WTA-400	M-WTA-500
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-400-230-3-60-A	M-COP-400-400-3-50-A	M-COP-400-460-3-60-A	M-COP-400-575-3-60-A	M-COP-500-230-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0400-230-3-60-A	RC-0400-400-3-50-A	RC-0400-460-3-60-A	RC-0400-575-3-60-A	RC-0500-230-3-60-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700
Contactor	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-400	M-CNT-0850
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0400-C	M-CFR-0500-C
Cabinet Side - Left	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0400-C	M-CLE-0500-C
Cabinet Side - Right	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0400-C	M-CRI-0500-C
Cabinet Rear	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0400-C	M-CRE-0500-C
Cabinet Top	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0400-C	M-CTO-0500-C
Cabinet Base	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0400-C	M-CBA-0500-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	PPN-1000	PPN-1000	PPN-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0400-C	M-CBL-0500-C
Cabinet Frame Top	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0400-C	M-FRT-0500-C
Cabinette Horizontal profile 1	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0400-C	M-HP1-0500-C
Cabinette Horizontal profile 2	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0400-C	M-HP2-0500-C

Component Name	RC-0500-400-3-50-A	RC-0500-460-3-60-A	RC-0500-575-3-60-A	RC-0700-230-3-60-A	RC-0700-400-3-50-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-500-230-3-60-A	M-CMP-500-460-3-60-A	M-CMP-500-575-3-60-A	M-CMP-700-230-3-60-A	M-CMP-700-460-3-50-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0400	M-CON-0500	M-CON-0500	M-CON-0700	M-CON-0700
Fan motor	M-FMT-0700-460-3-50	M-FMT-0700-460-3-60	M-FMT-0700-575-3-60	M-FMT-0700-230-3-60	M-FMT-0700-460-3-50
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	3 x M-EXC-200	3 x M-EXC-200	3 x M-EXC-200	3 x M-EXC-200	3 x M-EXC-200
Evaporator (water Heat Exchanger)	M-WHC-0500	M-WHC-0500	M-WHC-0500	M-WHC-1000	M-WHC-1000
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-1000	M-EXV-1000	M-EXV-1000	M-EXV-1000	M-EXV-1000
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400	M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325	M-THS-0325
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-1000-400-3-50	M-PMP-1000-460-3-60	M-PMP-1000-575-3-60	M-PMP-1000-230-3-60	M-PMP-1000-400-3-50
Water Tank	M-WTA-500	M-WTA-500	M-WTA-500	M-WTA-700	M-WTA-700
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-500-230-3-60-A	M-COP-500-460-3-60-A	M-COP-500-575-3-60-A	M-COP-700-230-3-60-A	M-COP-700-460-3-50-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0500-400-3-50-A	RC-0500-460-3-60-A	RC-0500-575-3-60-A	RC-0700-230-3-60-A	RC-0700-400-3-50-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700	M-MNS-0700
Contactor	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0500-C	M-CFR-0500-C	M-CFR-0500-C	M-CFR-0700-C	M-CFR-0700-C
Cabinet Side - Left	M-CLE-0500-C	M-CLE-0500-C	M-CLE-0500-C	M-CLE-0700-C	M-CLE-0700-C
Cabinet Side - Right	M-CRI-0500-C	M-CRI-0500-C	M-CRI-0500-C	M-CRI-0700-C	M-CRI-0700-C
Cabinet Rear	M-CRE-0500-C	M-CRE-0500-C	M-CRE-0500-C	M-CRE-0700-C	M-CRE-0700-C
Cabinet Top	M-CTO-0500-C	M-CTO-0500-C	M-CTO-0500-C	M-CTO-0700-C	M-CTO-0700-C
Cabinet Base	M-CBA-0500-C	M-CBA-0500-C	M-CBA-0500-C	M-CBA-0700-C	M-CBA-0700-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	PPN-1000	PPN-1000	PPN-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0500-C	M-CBL-0500-C	M-CBL-0500-C	M-CBL-0700-C	M-CBL-0700-C
Cabinet Frame Top	M-FRT-0500-C	M-FRT-0500-C	M-FRT-0500-C	M-FRT-0700-C	M-FRT-0700-C
Cabinette Horizontal profile 1	M-HP1-0500-C	M-HP1-0500-C	M-HP1-0500-C	M-HP1-0700-C	M-HP1-0700-C
Cabinette Horizontal profile 2	M-HP2-0500-C	M-HP2-0500-C	M-HP2-0500-C	M-HP2-0700-C	M-HP2-0700-C

Component Name	RC-0700-460-3-60-A	RC-0700-575-3-60-A	RC-0850-230-3-60-A	RC-0850-400-3-50-A	RC-0850-460-3-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-700-460-3-60-A	M-CMP-700-575-3-60-A	M-CMP-1000-230-3-60-A	M-CMP-1000-400-3-50-A	M-CMP-1000-460-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0700	M-CON-0700	M-CON-0850	M-CON-0850	M-CON-0850
Fan motor	M-FMT-0700-460-3-60	M-FMT-0700-575-3-60	M-FMT-1000-460-3-60	M-FMT-1200-400-3-50	M-FMT-1200-460-3-60
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	3 x M-EXC-200	3 x M-EXC-200	4 X M-EXC-200	4 X M-EXC-200	4 X M-EXC-200
Evaporator (water Heat Exchanger)	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-1000	M-EXV-1000	M-EXV-0850	M-EXV-0850	M-EXV-0850
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0400	M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	M-THS-0325	M-THS-0325	N/A	N/A	N/A
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-1000-460-3-60	M-PMP-1000-575-3-60	M-PMP-1000-230-3-60	M-PMP-1000-400-3-50	M-PMP-1000-460-3-60
Water Tank	M-WTA-700	M-WTA-700	M-WTA-850	M-WTA-850	M-WTA-850
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-700-460-3-60-A	M-COP-700-575-3-60-A	BELLİ DEĞİL	M-COP-1000-400-3-50-A	M-COP-1000-460-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0700-460-3-60-A	RC-0700-575-3-60-A	RC-0850-230-3-60-A	RC-0850-400-3-50-A	RC-0850-460-3-60-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-2000	M-MNS-2000	M-MNS-2000
Contactor	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0700-C	M-CFR-0700-C	M-CFR-0850-C	M-CFR-0850-C	M-CFR-0850-C
Cabinet Side - Left	M-CLE-0700-C	M-CLE-0700-C	M-CLE-0850-C	M-CLE-0850-C	M-CLE-0850-C
Cabinet Side - Right	M-CRI-0700-C	M-CRI-0700-C	M-CRI-0850-C	M-CRI-0850-C	M-CRI-0850-C
Cabinet Rear	M-CRE-0700-C	M-CRE-0700-C	M-CRE-0850-C	M-CRE-0850-C	M-CRE-0850-C
Cabinet Top	M-CTO-0700-C	M-CTO-0700-C	M-CTO-0850-C	M-CTO-0850-C	M-CTO-0850-C
Cabinet Base	M-CBA-0700-C	M-CBA-0700-C	M-CBA-0850-C	M-CBA-0850-C	M-CBA-0850-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	M-STU-1000	M-STU-1000	M-STU-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0700-C	M-CBL-0700-C	M-CBL-0850-C	M-CBL-0850-C	M-CBL-0850-C
Cabinet Frame Top	M-FRT-0700-C	M-FRT-0700-C	M-FRT-0850-C	M-FRT-0850-C	M-FRT-0850-C
Cabinette Horizontal profile 1	M-HP1-0700-C	M-HP1-0700-C	M-HP1-0850-C	M-HP1-0850-C	M-HP1-0850-C
Cabinette Horizontal profile 2	M-HP2-0700-C	M-HP2-0700-C	M-HP2-0850-C	M-HP2-0850-C	M-HP2-0850-C

Component Name	RC-0700-460-3-60-A	RC-0700-575-3-60-A	RC-0850-230-3-60-A	RC-0850-400-3-50-A	RC-0850-460-3-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-700-460-3-60-A	M-CMP-700-575-3-60-A	M-CMP-1000-230-3-60-A	M-CMP-1000-400-3-50-A	M-CMP-1000-460-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0700	M-CON-0700	M-CON-0850	M-CON-0850	M-CON-0850
Fan motor	M-FMT-0700-460-3-60	M-FMT-0700-575-3-60	M-FMT-1000-460-3-60	M-FMT-1200-400-3-50	M-FMT-1200-460-3-60
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	3 x M-EXC-200	3 x M-EXC-200	4 X M-EXC-200	4 X M-EXC-200	4 X M-EXC-200
Evaporator (water Heat Exchanger)	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-1000	M-EXV-1000	M-EXV-0850	M-EXV-0850	M-EXV-0850
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	M-FNS-0400	M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	M-THS-0325	M-THS-0325	N/A	N/A	N/A
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-1000-460-3-60	M-PMP-1000-575-3-60	M-PMP-1000-230-3-60	M-PMP-1000-400-3-50	M-PMP-1000-460-3-60
Water Tank	M-WTA-700	M-WTA-700	M-WTA-850	M-WTA-850	M-WTA-850
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-700-460-3-60-A	M-COP-700-575-3-60-A	BELLİ DEĞİL	M-COP-1000-400-3-50-A	M-COP-1000-460-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0700-460-3-60-A	RC-0700-575-3-60-A	RC-0850-230-3-60-A	RC-0850-400-3-50-A	RC-0850-460-3-60-A
Main Switch	M-MNS-0700	M-MNS-0700	M-MNS-2000	M-MNS-2000	M-MNS-2000
Contactor	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850	M-CNT-0850
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0700-C	M-CFR-0700-C	M-CFR-0850-C	M-CFR-0850-C	M-CFR-0850-C
Cabinet Side - Left	M-CLE-0700-C	M-CLE-0700-C	M-CLE-0850-C	M-CLE-0850-C	M-CLE-0850-C
Cabinet Side - Right	M-CRI-0700-C	M-CRI-0700-C	M-CRI-0850-C	M-CRI-0850-C	M-CRI-0850-C
Cabinet Rear	M-CRE-0700-C	M-CRE-0700-C	M-CRE-0850-C	M-CRE-0850-C	M-CRE-0850-C
Cabinet Top	M-CTO-0700-C	M-CTO-0700-C	M-CTO-0850-C	M-CTO-0850-C	M-CTO-0850-C
Cabinet Base	M-CBA-0700-C	M-CBA-0700-C	M-CBA-0850-C	M-CBA-0850-C	M-CBA-0850-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	PPN-1000	PPN-1000	M-STU-1000	M-STU-1000	M-STU-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0700-C	M-CBL-0700-C	M-CBL-0850-C	M-CBL-0850-C	M-CBL-0850-C
Cabinet Frame Top	M-FRT-0700-C	M-FRT-0700-C	M-FRT-0850-C	M-FRT-0850-C	M-FRT-0850-C
Cabinette Horizontal profile 1	M-HP1-0700-C	M-HP1-0700-C	M-HP1-0850-C	M-HP1-0850-C	M-HP1-0850-C
Cabinette Horizontal profile 2	M-HP2-0700-C	M-HP2-0700-C	M-HP2-0850-C	M-HP2-0850-C	M-HP2-0850-C

Component Name	RC-0850-575-3-60-A	RC-1000-230-3-60-A	RC-1000-400-3-50-A	RC-1000-460-3-60-A	RC-1000-575-3-60-A
Refrigerant Gas	R134a	R134a	R134a	R134a	R134a
compressor	M-CMP-1000-575-3-60-A	M-CMP-1000-230-3-60-A	M-CMP-1000-230-3-60-A	M-CMP-1000-460-3-60-A	M-CMP-1000-575-3-60-A
compressor electric box	N/A	N/A	N/A	N/A	N/A
Condenser	M-CON-0850	M-CON-1000	M-CON-1000	M-CON-0850	M-CON-0850
Fan motor	M-FMT-1200-575-3-60	M-FMT-1200-460-3-60	M-FMT-1200-400-3-50	M-FMT-1200-460-3-60	M-FMT-1200-575-3-60
Fan Blade	N/A	N/A	N/A	N/A	N/A
fan grill	N/A	N/A	N/A	N/A	N/A
Drier-Dehydrator	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000	M-DRI-1000
Heat Exchanger	4 X M-EXC-200	M-EXC-1000	M-EXC-1000	M-EXC-1000	M-EXC-1000
Evaporator (water Heat Exchanger)	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000	M-WHC-1000
Flexible steel tube (inlet)	N/A	N/A	N/A	N/A	N/A
Flexible steel tube (outlet)	N/A	N/A	N/A	N/A	N/A
Expansion valve	M-EXV-0850	M-EXV-1000	M-EXV-1000	M-EXV-1000	M-EXV-1000
By-pass valve	N/A	N/A	N/A	N/A	N/A
separator	N/A	N/A	N/A	N/A	N/A
Liquid Receiver	N/A	N/A	N/A	N/A	N/A
High Pressure Security switch	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000	M-HPS-1000
Fan on/off switch	2 X M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400	2 X M-FNS-0400
Low pressure switch	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000	M-LPS-1000
Thermostatic switch	N/A	N/A	N/A	N/A	N/A
Water pressure Switch	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000	M-WPS-3000
Water pressure switch timer	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000	M-WST-3000
Water pump contactor	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000	M-WPC-3000
Water pump	M-PMP-1000-575-3-60	M-PMP-1000-230-3-60	M-PMP-1000-400-3-50	M-PMP-1000-460-3-60	M-PMP-1000-575-3-60
Water Tank	M-WTA-850	M-WTA-1000	M-WTA-1000	M-WTA-1000	M-WTA-1000
Water Gauge	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000	M-WAG-3000
Microprosessor	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000	M-DGC-3000
Fan Overload Protector	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000	M-FOP-3000
Compressor Overload Protector	M-COP-1000-575-3-60-A	M-COP-1000-230-3-60-A	M-COP-1000-230-3-60-A	M-COP-1000-460-3-60-A	M-COP-1000-575-3-60-A
Thermostatic Gauge	N/A	N/A	N/A	N/A	N/A
On/off Button	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000	M-ONB-3000

Component Name	RC-0850-575-3-60-A	RC-1000-230-3-60-A	RC-1000-400-3-50-A	RC-1000-460-3-60-A	RC-1000-575-3-60-A
Main Switch	M-MNS-2000	M-MNS-2000	M-MNS-2000	M-MNS-2000	M-MNS-2000
Contactor	M-CNT-0850	M-CNT-1000	M-CNT-1000	M-CNT-1000	M-CNT-1000
Phase protection relay	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000	M-PPR-1000
Fan Contactor	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000	M-FCN-1000
Transformer	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000	M-TRF-1000
Secondary contact	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000	M-SEC-1000
Timer	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000	M-TMR-3000
Solenoid Valve	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24	M-SLV-3000-24
Membrane valve	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000	M-MMV-1000
Membrane	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000	M-MMM-1000
Water Separator	N/A	N/A	N/A	N/A	N/A
Cabinet Front	M-CFR-0850-C	M-CFR-1000-C	M-CFR-1000-C	M-CFR-1000-C	M-CFR-1000-C
Cabinet Side - Left	M-CLE-0850-C	M-CLE-1000-C	M-CLE-1000-C	M-CLE-1000-C	M-CLE-1000-C
Cabinet Side - Right	M-CRI-0850-C	M-CRI-1000-C	M-CRI-1000-C	M-CRI-1000-C	M-CRI-1000-C
Cabinet Rear	M-CRE-0850-C	M-CRE-1000-C	M-CRE-1000-C	M-CRE-1000-C	M-CRE-1000-C
Cabinet Top	M-CTO-0850-C	M-CTO-1000-C	M-CTO-1000-C	M-CTO-1000-C	M-CTO-1000-C
Cabinet Base	M-CBA-0850-C	M-CBA-1000-C	M-CBA-1000-C	M-CBA-1000-C	M-CBA-1000-C
Cabinette fastener	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000	M-FAS-1000
Cabinette Stud and Nut	M-STU-1000	M-STU-1000	M-STU-1000	M-STU-1000	M-STU-1000
Cabinet handle	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000	M-CPS-1000
Plastic Display cover	N/A	N/A	N/A	N/A	N/A
Cabinet Top Corners	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000	M-CTC-1000
Screws	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000	M-SCR-1000
Cage Nuts	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000	M-NUT-1000
Cabinet Legs	M-CBL-0850-C	M-CBL-1000-C	M-CBL-1000-C	M-CBL-1000-C	M-CBL-1000-C
Cabinet Frame Top	M-FRT-0850-C	M-FRT-1000-C	M-FRT-1000-C	M-FRT-1000-C	M-FRT-1000-C
Cabinette Horizontal profile 1	M-HP1-0850-C	M-HP1-1000-C	M-HP1-1000-C	M-HP1-1000-C	M-HP1-1000-C
Cabinette Horizontal profile 2	M-HP2-0850-C	M-HP2-1000-C	M-HP2-1000-C	M-HP2-1000-C	M-HP2-1000-C

NOTES

Section 7
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
Dryer is switched ON, indicator Light is lit and but the refrigerant compressor does on turn ON (Dryer is not functioning)	3-phase dryers: The connection has inverted phases	Invert two phases	3-phase dryers are equipped with a phase controller to avoid the fans from turning in the opposite direction.
	Refrigeration unit is not functioning	Check refrigeration compressor	Several factors can cause compressor failure. A qualified refrigeration technician needs to check all the electrical and refrigerant circuit and controls.
	The refrigerant high pressure protection has tripped	The refrigerant safety high pressure switch has tripped.	The dryer is protected against excessively high refrigerant pressure. If the condenser efficiency has reduced, the switch will trip.
		In case of water cooled condensers, check the water control valve	1-phase dryer: manually reset the switch (green button)
			3-phase dryer: pressure switch will automatically reset, but it is necessary to manually restart dryer by pressing on the green push button.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
Dryer is switched ON, indicator Light is lit and but the refrigerant compressor does on turn ON (Dryer is not functioning)	Excessive ambient temperature	Be sure that dryer is working in temperatures lower than the design conditions. Designed conditions and correction factors are described in this manual .	A high ambient temperature may cause the refrigerant system to operate at higher than normal pressures. Results will be higher than normal evaporator temperature. Important: adequate air circulation around the dryer, and proper ventilation in the equipment room should guarantee a low enough ambient temperature.
	Excessive temperature on crankcase of compressor.	Allow time to compressor to cool down. Reason may be a possible maladjustment of hot gas bypass or shortage of refrigerant	Compressor is protected against overly high temperatures of the crankcase by a thermal switch called “klixon”. Klixon can be located inteRCally in the refrigerant compressor or under the protective cover with the electrical connections to the compressor.
	Excessive compresser air inlet temperature.	Be sure that dryer is working in temperatures lower than design conditions.	The dryer is designed for working into calculated conditions (see description in this manual). If conditions are exceeded, the dryer will be overflowed, dew point will go up and protecting devices can switch off.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
Dryer-on light is lit but Refrigerant Compressor does not run.	Clogged condenser fins or clogged water condenser.	Clear fins or water condenser of all obstructions.	The clogged fins in the condenser will restrict the air passage and reduce the refrigeration capacity," causing high temperature in the evaporator. Same will occur if water condenser is clogged with mud or dirt. Air condenser and water condenser should be periodically checked and cleaned. Protect water circuit by an adapted filter.
	Possible high crankcase temperature		
	Possible loss of phase		
	Possible low voltage causing overload trip		
	Possible failed compressor		
	Too much compressed air flow.	Check actual flow through the dryer.	This dryer is designed for a maximum air flow at design conditions. If too much air is pumped into the dryer, water removal capacity may not be sufficient, resulting in liquid carryover downstream. Check the rated output the air compressor.
	Faulty electrical wiring	Inspect the circuit	The compressor-on light should be wired into the refrigerant compressor circuit. See wiring diagram in chapter "Drawings" of this manual.
	One electrical protection has tripped.	Reset the protection or replace the blown fuse.	The dryer is protected against high amp draw by fuse and/or overload relay that can trip in case of need. Reset or replace fuse once, but do not persist if it trips again, request assistance from a qualified refrigeration contractor.
Dryer-on light is lit but fan is not running.	Fan has to run if refrigerant high pressure reaches upper set point.	Check that compressed air flows through the dryer. Check that fan blades are free to move.	Fan operates automatically to keep refrigerant pressure below the maximum value. The fan can stop if pressure is under the recommended setting.
		Check the fan pressure switch.	
When compressor starts, it vibrates a lot and makes mechanical noise.	Compressor is slugging liquid refrigerant at start-up.	Be sure the pre-heating period of at least 4 hours is respected for dryers equipped with a crankcase heater.	Refrigerant may move between receivers when refrigerant compressor is stopped and not heated, especially if stopped for a long time. This migration may cause liquid shock (slugging) in valves specially on large dryers containing more refrigerant.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
Water in System	Inlet and outlet connections are reversed. (compressed air?)	Check inlet and outlet connections.	This dryer is designed for air flow in one direction only. Inlet and outlet directions are identified on the dryer.
	Drain system is clogged or inoperative.	Restore a free flow of water condensate. Check water evacuation.	Drain system may be a timed solenoid valve, pneumatically assisted or zero loss drain which has to be adjusted in accordance with values listed in this the maintenance manual. The Solenoid valve includes a strainer that has to be periodically checked and cleaned. Membranes of pneumatically assisted drain have to be checked or replaced every 6 months. Sullair zero loss drain has to be cleaned with soft water when needed.
	Bypass system is open	Check the valves	Important: Bypass piping should be installed around the dryer so the dryer can be isolated for service without shutting down the air supply. During dryer operation, valves must be set so all air goes into the system. Check tightness of the bypass system.
	Free moisture remains in pipe lines.	Blow out the system	Before the dryer is first started all free moisture should be blown out of the system.
	Excessive air flow	Check actual flow through the dryer.	This dryer is designed for a maximum air flow. If too much air is pumped into the dryer, water removal capacity may not be sufficient, resulting in liquid Carry-over downstream. Check the rated flow of the air compressor.
	Excessive free moisture	Check the separator and drain system and compressor after cooler ahead of the dryer.	In some system there may be an accumulation of free moisture in the line ahead of the dryer. If this moisture is pumped into the dryer intermittently, the water removal capacity may not be sufficient. A water separator should be installed in the line before the dryer.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
Water in system	Excessive compressed air inlet temperature.	Be sure that dryer is working lower than design conditions	The dryer is designed for working into calculated design conditions. Should the conditions be exceeded, the dryer will be overflowed, dew point will go up and protecting devices can switch off.
	Clogged condenser fins	Clear fins of all obstructions	The clogged fins in the condenser will restrict air passage and reduce refrigerant capacity causing water downstream. Fins should be periodically checked and cleaned.
	Shortage of refrigerant	Fix the leak and add a charge of refrigerant.	Loss of refrigerant will cause improper functioning. A qualified, refrigeration specialist should perform the necessary repairs, or factory should be contacted if the units is in warranty.
	Refrigeration system is not functioning	Check to be certain refrigerant compressor is running	To check if the compressor is running, check compressor-on light. It is possible for the fan to be operating but not the compressor. Compressor not running can be caused by several factors. A qualified refrigeration technician should check all refrigerant and electrical controls.
	Excessive pressure dew point	Readjust refrigerant evaporating pressure	The refrigerant pressure adjustment valve is identified by a label. Turning the adjustment screw counter clockwise will decrease the refrigerant pressure and lower the dew point. Adjust valves in ¼ turn increments to allow 15 minutes for pressure stabilization with air flowing. Be sure that gauge indicates that pressures stay in green zone.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
High pressure drop	Excessive compressed air flow or too low air inlet pressure.	Check actual pressure and flow through the dryer.	This dryer is designed for a maximum air flow. If too much air is pumped into the dryer, water removal capacity may not be sufficient, resulting in liquid carry-over downstream. Check the rated flow of the air compressor.
	Inlet pre-filter clogged	Replace the element	Dryers with 2 or more heat exchangers are equipped with a 25 micron, protective pre-filter. Check it regularly and replace when pressure drop is too high. Contact your Sullair Distributor for spares.
	Freeze up	Check that compressor room ambient is above 5°C.	Frosting of the lines is an indication that controls are set too low. The following should be done by an experienced refrigeration technician.
		Fan switch could have failed in closed position keeping fan on.	Controls may be adjusted in the fields by means of the hot gas bypass valve. Turn screw clockwise to increase refrigerant pressure setting which will increase pressure dew point. Turn screw in ¼ turn increments until frost disappears. Allow 15 minutes for pressure stabilization with air flowing.
	Clogged heat exchanger	Clean heat exchanger with a reverse air flow.	Dryer are supposed to be used with compressed air free of any aggressive contaminants. Some contamination may require extra maintenance of the heat exchanger. Contact your Sullair Distributor.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
The unit will not run or cycles off and on.	Line disconnect switch is open.	Close the start or disconnect switch	If the dryer is not operating, check the disconnect switch or circuit breaker to be certain it is on.
	Fuse or breaker is open	Replace fuse or reset breaker.	The fuse to the power line should be checked and replaced if needed. Never replace a buRCt fuse with an oversized fuse.
	Faulty refrigerant compressor or controls.	Determine the cause and make correction	Failure of compressor to run may be caused by several factors. A qualified refrigeration specialist should check all electrical and refrigeration controls, or factory should be contacted if unit is in warranty.

PROBLEM	POSSIBLE CAUSE	REPAIR	COMMENTS
The unit will not run or cycles off and on.	Excessive compressed air inlet temperature.	Design conditions and correction factors are described in this manual Be sure that dryer is working in ambient temperatures below design conditions.	The dryer is designed for working into calculated design conditions. Should the conditions be exceeded, the dryer will be overflowed, dew point will go up and protecting devices may trip.
	Excessive ambient temperature	Designed conditions and correction factors are described in dryer. Be sure that dryer is working lower than design conditions.	A high ambient temperature may cause the refrigerant system to operate at higher than normal pressures. Results will be a higher than normal evaporator temperature. Important: there should be adequate air circulation around the dryer, and proper ventilation in the equipment room should guarantee a low enough ambient temperature.
	Clogged condenser fins	Clear fins of all obstructions	The clogged fins in the condenser will restrict the air passage and reduce the refrigeration capacity, causing high temperature in the evaporator. Fins should be periodically checked and cleaned.
	Shortage of refrigerant	Fix the leak and add a charge of refrigerant.	Loss of refrigerant will cause improper functioning. 3-phase dryers are equipped with a temperature switch which maintains the amount of refrigerant to maintain proper cooling of the compressor. A shortage of refrigerant may cause suction line to become very hot, causing the temperature switch to trip. A qualified refrigeration specialist should perform the necessary repairs, or the factory should be contacted if the unit is in warranty.
Err sign occurs on digital temperature control device	The dew point is too low or too high.	Check refrigerant gas and make sure that the working conditions are within the correct range.	If there is not enough refrigerant gas or if the working temperature and inlet temperatures are very high, the dew point will increase.

Section 8
HORIZONTAL CLOSE COUPLED PUMP

8.1 GENERAL INSTRUCTIONS

CENTRIFUGAL PUMPS

1. Inspection of Equipment
2. Storage
3. Placing Stored Pumps Into Service
4. Recommended Spare Parts

When properly installed and given reasonable care and maintenance, centrifugal pumps should operate satisfactorily for many years. The C Series pumps use tight running clearances to build pressure. Abrasive particles in high enough concentrations, can eventually open up the close clearances between the impeller and the casing, thus reducing pressure output. To avoid this, careful selection and use of a low resistance suction strainer should be considered. For critical services it is recommended that you keep an identical pump for stand-by use.

8.1.1 INSPECTION OF EQUIPMENT

Immediately upon receipt of the shipment, inspect the equipment for damage or missing components. Check the shipping manifest and report any damage or shortage to the Transportation Company's local agent. Inspect the crate and any wrapping material before discarding. Parts or accessories are sometimes wrapped individually or fastened to the skid.

Put the instructions that came with the shipment in a safe place where they will be available to those who will be using them for installation and service.

8.1.2 STORAGE

If the pump is to be stored before use, it should be inspected as described in *Section 8.1.1*, recrated and stored in a dry location. Standard shipping containers are not suitable for outdoor storage. In some areas, it may be necessary to cover the pump's exterior surface with oil or other rust inhibiting coating. All units are tested at the factory with a water/corrosion inhibitor solution, some of which will remain inside the pump upon receipt. If units are flushed out prior to storage, this inhibitor will be removed and proper care must be taken to prevent product deterioration from improper storage.

For storage beyond 30 days, a corrosion inhibiting protective fluid should be added to the internal pump cavities. Fluids used in the pump should be selected for compatibility with pump materials. This is very important when optional seal and gasket materials have been used. Protective caps on the inlet and outlets should also be used. Caps alone are not sufficient protection.

8.1.3 APPLICATION CONSIDERATIONS

ELECTRICAL WIRING

All electrical equipment and wiring should conform to Local and National Electrical Codes. Use the motor manufacturer's instructions for connecting the motor. Note the correct rotation and wiring diagrams on the assembly. Make sure the motor rotation and speed matches that required for the pump. When making electrical connections to motors provided with threaded stud electrical terminals, the recommended torque should be 13-16 inch-lbs. Applying torque in excess of this range may cause damage.

CONSTRUCTION MATERIALS

While it is reasonable to assume that good judgement has been used in selecting all the materials in the pump for compatibility with process fluids, actual conditions sometimes vary from original expectations. Also, typical material selection charts do not consider all the temperature, pressure, and fluid variables. The customer's engineer should be consulted for final judgement on the best materials for critical process applications.

VALVES

If a shutoff valve is necessary in the suction line, use a gate, ball, butterfly, or other full port valve. Globe or other flow restricting valves, can in some cases, reduce pump flow or increase chances of cavitation.

A swing check valve in the suction line is

recommended even when the pump inlet is only slightly higher than the fluid source to aid in priming. It should be the same size as the pump inlet or sized based on reasonable fluid friction losses.

A foot valve is recommended when lifting fluid from a sump. This will save wear and tear on any pump, even those equipped with self priming equipment.

A low resistance Suction Strainer is recommended immediately ahead of the pump on any newly constructed system. This is advisable due to the probability that foreign material large enough to damage pump clearances may remain, even though the piping has been flushed.

Valves in the outlet piping of a centrifugal pump should be closed, or nearly closed, when the pump is started. This will reduce the start-up load on the pump and motor. Never start the pump with the discharge valve fully open, unless system friction losses are substantial enough to prevent the pump from operating at “run out,” otherwise cavitation or motor overload may occur.

Inlet valving should be fully open when starting any pumping system. Without some fluid in the pump at startup, the unit can gall and lock up the impeller. Always fill the pump and vent it of air for best pump life. Violent pump failure will result from continued operation with the inlet valve closed.

NPSH (NET POSITIVE SUCTION HEAD)

The NPSH required varies with every size and capacity of pump. The NPSH required by your unit can be obtained from the performance curves or from your MTH representative.

If the NPSH available is not equal to or greater than that required by the pump, it must be increased or a different pump selected. The usual method for increasing NPSH is to raise the static head on the pump inlet, (HS). By definition, NPSH means: “Net Positive Suction Head” above the vapor pressure of the pumped liquid, available at the centerline of the pump. It should always be given in feet of pumped liquid. The NPSH is actually a measurement of the amount of energy available in the pumped liquid to produce the required absolute entrance velocity in the pump. If a pump requires more energy (or NPSH) than is available at a given capacity, the pressure at the inlet will fall below the vapor pressure of the pumped liquid and fluid vaporization and loss of performance will result.

P_s = Pressure in the suction vessel in PSIA.

P_{vp} = Vapor pressure of the pumped fluid in PSIA.

H_s = Static height of the pumped fluid above (+) or below (-) the centerline of the pump.

H_f = All friction losses from the vessel to the pump.

$$NPSH = 2.31\left(\frac{P_s - P_{vp}}{SPGR}\right) + H_s - H_f$$

For boiling liquids, P_s and P_{vp} are equal. This item then becomes zero and can be omitted from the equation.

NOISE

Motors, bearings, and other rotating components add to noise, which sometimes create objectionable harmonics.

Careful pump installation can contribute to noise reduction. Proper alignment of the pump and driver is essential. Adequate supports for the inlet and discharge piping is equally important. A degree of noise reduction may be obtained when the pumping unit is supported free of building structures by the use of vibration isolators, flexible piping and conduit connections. To separate motor noise and vibration from the fluid and piping structure, using a flexible elastomer-coupled (long coupled) configuration is very desirable.

FREEZING

When ambient temperatures drop below the freezing point of the fluid, consideration should be given to heating, insulating, or draining the pump. If you choose to drain the pump, first remove the drain plugs and drain the suction and discharge lines. Carefully blow out the pump with compressed air to clear all internal cavities of fluid.

8.1.4 RECOMMENDED SPARE PARTS

FOR ROUTINE MAINTENANCE:

Only a complete set of “O” ring gaskets and a mechanical seal are recommended. Should additional components show wear, they are available from stock at the factory (see the C Series price brochure).

FOR SERVICING A PUMP THAT DOES NOT PRODUCE RATED CAPACITY OR HEAD :

“O” ring gaskets, impeller, mechanical seal, and pump casing.

FOR CRITICAL SERVICES:

A duplex installation, with two identical pumping units in parallel, is the safest, and many times the most cost effective choice where downtime cannot be tolerated.

8.2 SERVICE

PUMP ENDS

1. Preliminary
2. Disassembly
3. Inspection of Components
4. Reassembly
5. Testing and Final Adjustments

8.2.1 PRELIMINARY

Before attempting any service on the pump or motor, disconnect the electrical power to the pump motor. If the pump and motor are to be removed as a unit, note the wiring configuration.

1. Disconnect the inlet and outlet piping before unbolting the pump and motor.
2. Unbolt the motor from the base and remove the unit. All work on the unit should be performed on an elevated workbench whenever possible.

The disassembly and reassembly procedures are broken into two sections:

B — Disassembly

D — Reassembly

An exploded view of the unit, *Figure 8-1*, is provided for referencing the numbers in the following procedures, i.e. (#84), motor bracket.

8.2.2 DISASSEMBLY

The following tools and equipment are needed for disassembly.

1. Soft plastic or wooden mallet.
2. 5/8” wrench or socket.
3. 10 mm socket wrench.
4. 13 mm wrench or socket.
5. 5 mm Allen wrench.
6. Penetrating oil.
7. 3/4” wood dowel (Approx. 6” long).
8. Small O.D. Snap Ring Pliers.
9. Cealube G or similar glycol base lubricant. (DO NOT use petroleum products.)

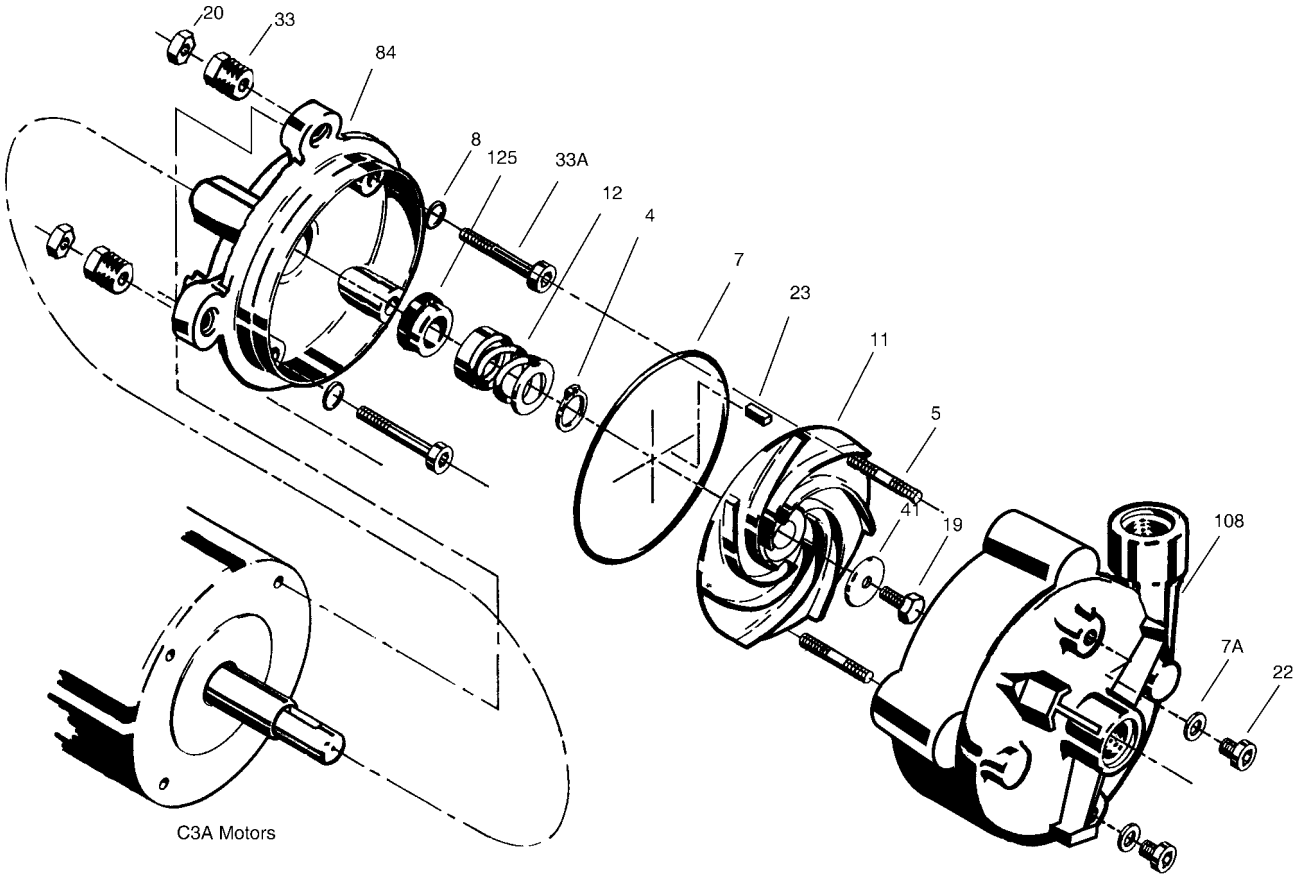


Figure 8-1: Exploded View of Pump

KEY NO.	NAME/DESCRIPTION	QTY
84	Motor Bracket	1
108	Casing	1
7	“O” Ring - Casing**	1
11	Impeller	1
12	Seal - Rotating Element**	1
125	Seal - Stationary Seat**	1
5	Stud - Casing	4
20	Jam Nut	4
33	Adjusting Screw	4

KEY NO.	NAME/DESCRIPTION	QTY
33A	Socket Head Screw	4
8	“O” Ring - Screw**	4
4	Snap Ring**	1
23	Drive Key**	1
19	Impeller Screw	1
41	Washer	1
22	Drain Plug (SAE)	1
7A	“O” Ring - Drain**	1

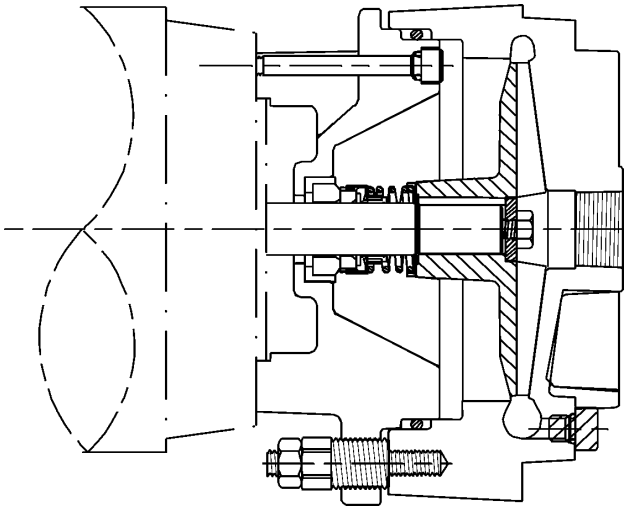
**Includedin SKC4100, SKC5100, SKC6100 Mechanical Seal / O Ring Kits

To disassemble the pump:

1. Remove all liquid from the pump.
2. Remove the casing (#108) by removing the jam nuts (#20) from the casing studs (#5). Slide the casing off and rest it on the studs.
3. Remove the impeller (#11) by removing the 10mm Bolt (#19) and washer (#41), then sliding forward.(may require a gear puller)
4. Remove the snap ring (#4) from the shaft using snap ring pliers.
5. Remove the impeller key (#23) from the shaft.
6. Remove the rotating element from the shaft.

   The element normally adheres tightly to the shaft and some force may be necessary to remove it. This is common and, if care is taken, the element can be reassembled and reused. **It is recommended that a new rotating element be used for reassembly.** DO NOT attempt to remove the seal using a screwdriver or other sharp object. Extensive damage to the shaft or element could occur.
7. 7. Remove the motor bracket. Loosen and remove the four socket head screws (#33A) with a 5 mm Allen wrench.

   Note: The rotating element must be removed before the motor bracket can be removed. It is not necessary to remove the adjusting screws # 33.
8. 8. Remove the seat portion of the seal from the motor bracket.
   - **a.** Place the motor bracket face down on a flat surface.
   - **b.** Look into the opening in the center of the motor bracket, you will see a portion of the seat.
   - **c.** Insert the 3/4” dowel and, very gently, tap the seat until it drops out.
   - **d.** Care must be taken with the seats. They are often a brittle material and are prone to breakage. **It is recommended that a new replacement seat be installed during reassembly.**



8.2.3 INSPECTION OF COMPONENTS

Thoroughly clean all parts. All components should be examined for wear and corrosion. Replace any parts that show visible wear.

The “O” rings and other elastomeric components should be replaced if they have been deformed or cut.

If seal components must be reused, carefully inspect for microscopic cracks and nicks. Scratches that might be ignored elsewhere can produce leakage if they are on seal carbons and seat wearing surfaces.

Cleanliness is imperative when working with mechanical seals. Microscopic grit and particles between seal faces can be, and often are, the cause of early seal failures.

If the impeller can be rocked or wobbled on the shaft, it is too loose and must be replaced.

Check the shaft for galling, pitting, and corrosion. If the shaft is corroded where the seal elastomer comes in contact with it, the motor must be replaced. Surface corrosion must be removed so that seals can slide freely during assembly. The shaft diameter should be no smaller than .002” below the nominal fractional seal sizes. Remove any nicks or burrs which may have occurred during disassembly. Re-clean parts as necessary.

8.2.4 REASSEMBLY

All parts should be visually inspected and cleaned or replaced as outlined in *Section 8.2.3* above.

1. The seal seat (#125) must be installed in the motor bracket before the bracket is installed on the motor.

   To install the seat:

   a. Place the motor bracket face up on a flat surface.

   b. Carefully press the seat, smooth side up, into the seat cavity of the motor bracket. To make the installation of the seat easier, apply a very thin coating of compatible seal lubricant to the elastomer portion of the seat prior to installation. Care must be taken not to damage the seat face. Thumb pressure is usually sufficient to install the seat. Make sure the seat is installed firmly and squarely and that it is then carefully cleaned.

2. Install the motor bracket (#84).

   a. This is best done with the motor standing on end.

   b. From the motor side: If removed during disassembly, thread the four (4) adjusting screws (#33) into the mounting flanges of the motor bracket until they are flush with the front faces of the flanges.

   c. Slide the four (4) small “O”-rings (#8) fully onto the socket head screws (#33A).

   d. Place the motor bracket (#84) on the motor. Slide the bracket back until the feet are resting against the motor face. The orientation of the motor bracket is not critical unless a flush line is used. In that case, align the flush line to meet system requirements.

   e. Insert the four (4) socket head screws (#33A) into the motor bracket holes and thread into the motor face. Tighten securely using a 5 mm allen wrench. Do not exceed 7 ft-lbs of torque or damage to the motor “C”-face may occur.

3. Install rotating element (#12).

   a. Tip the pump assembly over into a horizontal position on the work area.

   b. Lightly lubricate the motor shaft. Push the rotating element, spring, and then spring holder over the shaft. Prepare the snap ring in thesnap ring pliers and then compress and hold the seal spring slightly below the snap ring groove. Install the snap ring (#4). Make sure the snap ring is locked in the groove.

4. Install the impeller (#11).

   a. Place the key (#23) in the shaft sleeve.

   b. The impeller should slide on firmly, but easily, until it stops. Force should not be required to install the impeller in the correct position.

   c. The impeller hub should be facing toward the motor.

   d. Fasten the impeller using the washer (#41) and screw(#19). Tighten the screw securely (do not exceed 7 ft-lbs of torque), while holding the impeller stationary. **The impeller should not have any play or wobble.**

5. Install the casing (#108).

   a. Hand tighten four (4) studs (#5) into the casing until they are seated.

   b. Lubricate and install the casing “O”-ring (#7) onto the first step in the motor bracket.

   c. Place the casing over the motor bracket being careful not to pinch the “O”-ring. The casing discharge should be oriented to meet system requirements.

   d. Loosely thread four (4) jam nuts (#20) onto the casing studs.

6. Adjusting Impeller/Casing Clearance

   a. Seat the casing down against the impeller with light hand pressure.

   b. Turn the adjusting screws until they just touch the back face of the casing. The casing should not move during this adjustment. This will determine the zero clearance position. Set the minimum free running clearance as follows:

      1. Viewing from the back of the motor bracket, (rear of motor) turn each adjusting screw clockwise exactly 30° (1/12 of a full revolution).

      2. Securely tighten the four (4) jam nuts against the adjusting nuts using a 9/16” wrench and a 5/8” wrench, **being careful to prevent the adjusting nuts from turning.**

   c. Turn the impeller clockwise and listen for any scraping noises or interference. This may be done by turning the impeller screw with a 10 mm socket through the inlet port (Be careful

not to loosen the screw), and listening through the discharge. If any contact is detected between the impeller and casing, perform the following steps:

1. Loosen the jam nuts, being careful not to turn the adjusting nuts.
2. Repeat steps 6.b.1 and 6.b.2.
3. Repeat step 6.c.

8.2.5 TESTING AND FINAL ADJUSTMENT

The pump is now ready for installation.

1. 1. Reconnect the electrical connections referring to the colored or numbered tape used to mark the wires during disassembly.
2. Connect all piping and fill the pump with fluid.
3. Make sure all suction valves are opened and fluid will flow through the system. Discharge valve should be partially opened.
4. Start the pump and check for leaks on the pump and piping. Special attention should be given to the seal area at the rear opening in the motor bracket.
5. Using an amprobe or similar device, check for motor overload. If motor is overloading it is possible that the impeller clearence was not properly set as outlined in Step 6 outlined in “D” Reassembly.

8.3 PARTS AND REPAIR SERVICES

A. Parts

B. Repair Service

C. Warranty Service

8.3.1 PARTS

Repair parts may be obtained through your local Authorized MTH Pumps Distributor who may be found in the yellow pages or by contacting:

MTH Pumps
401 W. Main St.
Plano, IL 60545
Phone: 630-552-4115
Fax: 630-552-3688
Email: Sales@MTHPumps.com
Web: WWW.MTHPumps.com

8.3.2 REPAIR SERVICES

Repair service for an MTH pump should be obtained from the company through which it was purchased.

In the event this is not possible, the name and phone number of a nearby MTH representative or distributor may be obtained by contacting MTH Pumps. In the event that it is necessary to return the pump to the factory for repairs, remove all accessories attached to the pump. We cannot accept responsibility for their safe removal, storage, and return.

8.3.3 WARRANTY SERVICE

All requests for warranty claims should be made through the company from which the pump was purchased or supplied. Complete details on what is wrong with the pump must be provided along with information on the system in which it is installed. Refer to the MTH Pumps Limited Warranty statement. **Return authorization must be obtained prior to returning any equipment.**

8.4 LIMITED WARRANTY

All requests for warranty claims should be made through the company from which the product was purchased or supplied. Complete details on what is wrong with the product must be provided along with information on the system in which it is installed. Refer to the MTH Pumps Limited Warranty statement below for more information. Return authorization must be obtained prior to returning any equipment.

MTH Tool Company, Inc. / MTH Pumps, hereinafter referred to as “MTH”, warrants for a period of twelve (12) months from the date of shipment (“The Warranty Period”), that the products manufactured by it will be free from defects in material and workmanship. MTH will correct defects in material or workmanship which may develop in its products under proper or normal use during the Warranty Period and under the conditions of this Warranty. This Warranty does not extend to anyone except the original consumer-purchaser. Damage to the product due to improper handling, improper storage, improper maintenance, or improper application is not covered by this Warranty. Warranty claims for special order items or accessories not manufactured by MTH (such as motors, valves, or mechanical seals) should be directed to those who manufactured the item. MTH will repair or replace, at its option and expense, its products proved to be defective after examination by an authorized representative of MTH. The defective Product must be returned,

transportation prepaid, to the factory at Plano, Illinois, USA. Disassembly of the product (especially pumps) impairs determination of reasons for failure and shall be cause for voiding this Warranty. The Product, repaired or replaced, will be shipped F.O.B. MTH's factory. **This is MTH's sole warranty. MTH makes no other warranty of any kind, express or implied, and all implied warranties of merchantability and fitness for a particular purpose which exceed MTH's aforestated obligations are hereby disclaimed by MTH and excluded from this warranty.** MTH neither assumes nor authorizes any person to assume for it, any other obligation in connection with the sale of the Product and any enlargement of this Warranty by a purchaser shall be for its own account and its exclusive responsibility. This Warranty shall not apply to any Product or parts of Products which: (a) have been repaired, assembled, or altered outside of MTH's factory, in any manner; or (b) have been subjected to misuse, negligence or accident; or (c) have been used in a manner inconsistent with MTH's printed instructions, specifications, or the customer supplied application specification; or (d) have been damaged due to defective power supply or faulty installation. **MTH shall not be liable for incidental and consequential losses and damages under this express warranty, any applicable implied warranty, or claims for negligence, except to the extent that this limitation is found to be unenforceable under the applicable State law. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from State to State.**

8.5 INSTALLATION NOTES

Serial #:

Install Date:

Distributor Name:

Maintenance & Service Record :

Date	Procedure	Result
	New pump installation into system	Flow= / Pressure=

NOTES

SULLAIR®

Always air. Always there.

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SULLAIR CORPORATION

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