

COMPRESSED AIR DRYERS



INSTRUCTION MANUAL

ODRC SERIES (ODRC-10 to ODRC-5000)



WARRANTY NOTICE

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


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Declaration of Conformity

PED 2014/68/EU

(NB No : 0408)

Manufacturer	Mikropor Filters I.OSB Büyük Selçuklu Caddesi, No:4 06935 Ankara/Turkey Phone: 0312 267 0770 Fax: 0312 267 0552
Product Description Serial No of Set (device) Type of Product Module	Air Dryer ODRC 100 (...), ODRC 125 (...), ODRC 140 (...), ODRC 175 (...), ODRC 200 (...), ODRC 250 (...), ODRC 350 (...), ODRC 425 (...), ODRC 550 (...), ODRC 700 (...), ODRC 900 (...), ODRC 1100 (...), ODRC 1350 (...), ODRC 1500 (...), ODRC 2000 (...), ODRC 2350 (...), ODRC 2750 (...), ODRC 3000 (...), ODRC 3600 (...), ODRC 4000 (...), ODRC 5000 (...), 0119MA00001 to 5219MA99999 CAT II Air Dryer Module A2
Assesment Modele Confirmed By TÜV Austria Service GMBH Kind of inspection certification supplied standards Certificate No: Modules for compatibility assesment of pressure in-build elements; Exchanger Receiver Separator Compressor	Module A2 type compatibility Notified Body No 0408 Adres; Deutschstreassee 10 1230 Wien/Österreich PED (2014/68/EU) Certification EN378-2 ZSTS / SWZE / 1790 CAT II MODUL A2 CAT I MODUL A2 CAT I MODUL A2 CAT I MODUL A2
Product Responsibility	Mikropor Filter is responsible for product in conditions it was delivered. Any modifications are forbidden. Product be operated according to its application. In case of breaking above conditions realized manufacturer from responsibility for the product CE mark of the product will be not valid.
Signature	
Local Quality Manager, Pressure Vessel	Ahmet Emin ÇAMLIBEL Date; 29.03.2017

EC DECLARATION OF CONFORMITY



MANUFACTURER

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The undersigned declares that the described products meet the essential requirements of the below mentioned standards as based on Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility Directive 2014/30/EU

The item of equipments which identified below has been subject to internal manufacturing checks with monitoring of the final assesment by Mikropor

MACHINE DESCRIPTION MODELS : Air Dryer

ODRC 100 (...), ODRC 125 (...), ODRC 140 (...), ODRC 175 (...), ODRC 200 (...), ODRC 250 (...), ODRC 350 (...), ODRC 425 (...), ODRC 550 (...), ODRC 700 (...), ODRC 900 (...), ODRC 1100 (...), ODRC 1350 (...), ODRC 1500 (...), ODRC 2000 (...), ODRC 2350 (...), ODRC 2750 (...), ODRC 3000 (...), ODRC 3600 (...), ODRC 4000 (...), ODRC 5000 (...),

Serial No of Set (device): 0118MA00001 to 5218MA99999

APPLICABLE DIRECTIVES :

2006/42/EC MACHINE SAFETY DIRECTIVE
2014/35/EU LOW VOLTAGE DIRECTIVE
2014/30/EU ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

Certificate No: 16-PS-0279-TAT-16-MAD-1059

APPLICABLE REGULATIONS :

EN ISO 12100:2010; EN 60204-1:2006/AC:2010; EN 61000-6-2:2005; EN 61000-6-4:2007+A1:2011
EN 378-2

SIGNED ON BE HALF OF THE MANUFACTURER

NAME : Mustafa Uslu
POSITION : R&D Manager
PLACE/ DATE : ANKARA / 03.04.2017

SIGNATURE

:

I. IMPORTANT SAFETY NOTES



When operating the air dryer the operator must apply safe working methods and observe all local safety instructions and relevant regulations.

- A) Prior to installation, the dryer and the compressed air system are to be depressurized and disconnected from the electrical main supply.
- B) The user is responsible for safe operating conditions. Parts and accessories must be replaced if inspection shows that safe operation cannot be assured.
- C) Installation, operation, maintenance and repair are only to be authorized, trained and skilled engineers.
- D) The minimum and maximum values stated must be observed, as well as all of the safety precautions described in this manual.
- E) If any statement in this manual does not comply with the local legislation, the strongest standard is to be applied.

1.1. Transportation

- A) Use care and caution when transporting the dryer. Avoid dropping and other physical abuse.
- B) A forklift can be used to transport the dryers provided the forks are long enough to support its full width or length and caution is used throughout the move.

1.2. Positioning

- A) The dryer must be installed horizontally. A minimum of 19.6 in. clearance around the dryer is necessary to allow a good ventilation and easy access for servicing.
- B) The ambient temperature in the room should not exceed 113°F and should not be below 39.2°F, taking the heat radiated by the dryer into account.
- C) (40 watt for each liter/sec under ISO 7183-A condition or 18 watts for each SCFM under ISO 7183-B condition).
- D) There should be no chemicals in the atmosphere that will damage the copper source. (Ammonia gas etc.)

1.3. 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 insulation in the dryers never to be dismantled or modified. Each pressure vessel or accessory installed outside the dryer with air above atmospheric pressure must be fitted with the required pressure relief safety valves.

1.4. Before Operating

The following points must be observed before operating the air dryer:

- A) Review all safety precautions.
- B) The dryer connection piping measurements must be selected correctly. (See Technical specifications)
- C) The dryer connection piping must be adapted to the operating pressure. (See Technical specifications)
- D) Never operate the dryer at pressure above the maximum specified on the dryer label (check the technical specs too).
- E) The drains should be opened to atmosphere. If the drains are connected to a pipe / hose, the diameter of the hose / pipe should be large enough to create no back pressure during drain. It is not recommended to reduce the diameter of the hose / pipe less than port that is given at the drain outlet of the unit. The hose / pipe should be at atmospheric pressure at all time. Back pressure in relevant pipe will result in permanent damage on drain system and the affect function of the filters and / or dryers.

1.5. Qualified service personnel

- A) 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.
- B) Use only the appropriate tools for maintenance and repair.
- C) Before dismantling a part under pressure, disconnect the pressure sources and depressurize the system.
- D) Proceed carefully during maintenance and repair. Prevent dirt from entering by covering parts and orifices with a clean cloth, paper or tape. A receiver should never be welded or modified in any way.
- E) Never leave tools, loose parts or cleaning rags in or on the air dryer.
- F) Before returning the dryer into service, check the setting of the control and safety devices as well as the pressure and the temperature of the compressed air circuit.

1.6. Maintenance by the user

- A) Keep the dryer clean.
- B) Regularly check the correct operation of the condensate drain trap.
- C) Every six months, check and clean the drain strainer by undoing the access screw and rinsing the filter with tap water to remove the trapped dirt from the inside.
- D) For aircooled dryers, clean the air condenser as soon as it's dirty or clogged.
- E) For optional water-cooled condensers, use only clean water and install a water filter if needed. Use water counter flow to clean condenser if need.
- F) Check the trouble-shooting list in case of maintenance troubles.
- G) Check operating pressures, temperatures and time settings after maintenance. If operating and safety devices function properly, the air dryer may be used.

2. INTRODUCTION TO THE DRYER

A) Manufacturer:

Ozen Air Technology / www.ozenairtech.com

B) Purpose of this dryer


- 1) This refrigerated compressed air dryer has been designed to remove water vapor from industrial compressed air.
- 2) This dryer has been designed for indoor operation.
- 3) The minimum and maximum values stated must be observed, as well as the safety precautions described in this manual.

C) Dryer label

The following label is affixed on the cabinet of the refrigerant compressed air dryer.

Max. Refrigerant Pressure		Voltage	
Max. Air Pressure		P Rating	
Max. Air Inlet Temp.		Refrigerant R134a	
Min. Ambient Temp.		Weight	
Max. Ambient Temp.		Fan	
Min. Circuit Ampacity		Compressor	
Max. Protective Device Rating			

MODEL NO:
SERIAL NO:



Dryer label descriptions

Model No:	Dryer model no
Serial No:	Dryer serial no
Max Refrigerant Pressure:	Dryer maximum working pressure
Max. Air Pressure:	Maximum air pressure
Max. Air Inlet Temp:	Maximum air inlet temperature
Min. Ambient Temp. :	Minimum ambient temperature
Max. Ambient Temp. :	Maximum ambient temperature
Min. Circuit Ampacity :	Maximum allowed amount of current
Max Protective Device Rating :	Maximum protective device rating
Voltage :	Main supply voltage
IP Rating :	Protection rating
Refrigerant 134a :	Amount of refrigerant gas used
Weight :	Dryer weight
Fan :	Model of fan used
Compressor :	Model of compressor used

D) Working details

1) Refrigerant circuit:

The refrigerant circuit can be divided in **3** parts:

- A) Low pressure section with an evaporator (heat exchanger)
- B) High-pressure section including: Condenser, liquid receiver, (if installed) and the filter dryer.
- C) Control circuit including: Compressor, Expansion valve, by-pass valve (if installed), Fan pressure switch (if installed)

2) For water - cooled dryers:

- A) Water valve
- B) Safety high pressure switch (if installed)

3) The Refrigerant circuit operates as follows:

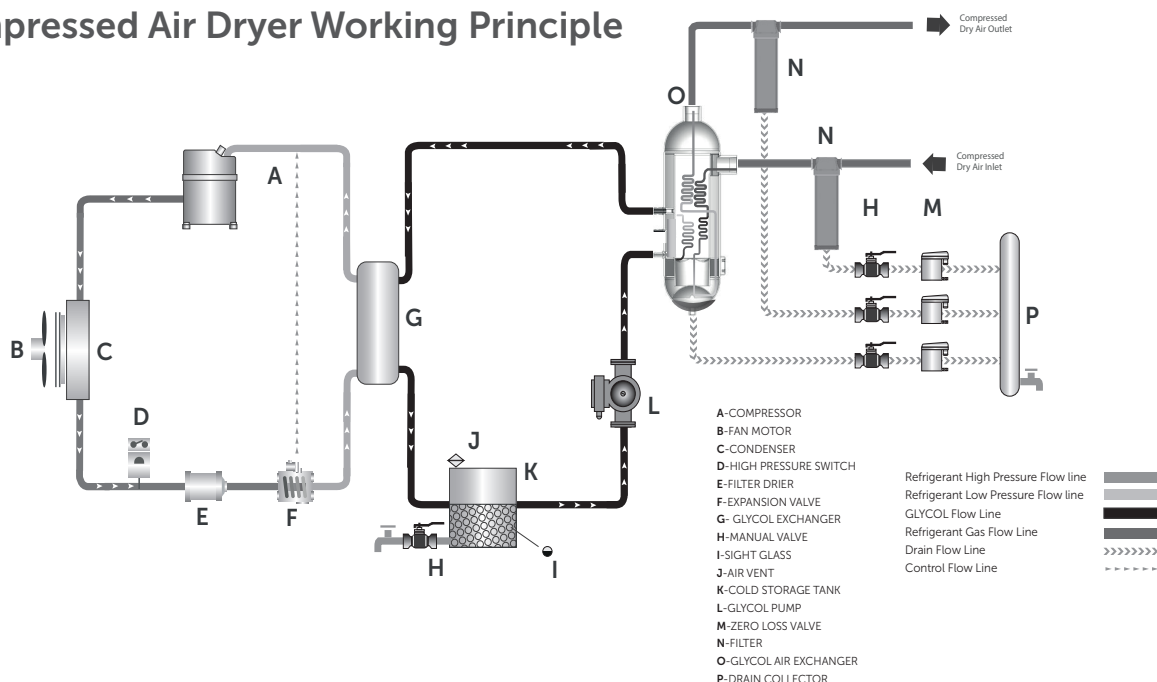
- A) The compressor compresses gaseous refrigerant to a high temperature.
- B) The hot refrigerant condenses in the condenser. Being liquefied it is stored in the liquid receiver (if installed).
- C) The liquid is taken out the storage vessel and injected in the evaporator (heat exchanger) by an expansion valve. This expansion valve is protected by a filter, which removes particles and humidity that could be in the circuit.
- D) The injected liquid fills in the refrigerant section of the air / refrigerant heat exchanger and evaporates by taking out the calories from the compressed air. The gaseous refrigerant is sucked in the compressor and the cycle carries on.
- E) In order to keep the evaporation pressure steady, and thus the refrigerant temperature in the heat exchanger, a by-pass valve is injecting hot gaseous refrigerant in the circuit. On certain dryers, an automatic expansion valve regulates this.

4) Compressed air circuit:

- A) The saturated hot compressed air flows into the Economiser where it is pre-cooled by the out flowing dry chilled air. In the cold zone of the air refrigerant section it continues to cool down to dew point and enters the separator where condensates are collected. The outgoing chilled air is then warmed up in the economizer by the hot incoming air.

- B)** The condensate is collected after centrifugal separation and drained out through the automatic trap.
- C)** As long as the compressed air temperature does not drop below dew point, there will be no condensation in the air circuit.

Compressed Air Dryer Working Principle



5) Refrigerant compressor

Increases the pressure and temperature of refrigerant. There are two type of compressors commonly used according to refrigerant capacity on this application:

- Piston type
- Scroll type

6) Condenser

Dissipates the heat provided by evaporator and compressor.

There are two type of condensers used on the application:

- Air Cooled Type (standard)

These condensers are designed to dissipate the heat to the ambient air.

The fans are used to force the air flow through the fins to enhance the heat transfer.

- Water Cooled Type (optional)

These condensers are designed to dissipate the heat to a water flow.

A shell and tube heat exchanger is used for this purpose.

7) Refrigerant circuit protection

A) Klixon: The single phase compressors are equipped with a klixon, which is a thermal sensitive switch controlling the temperature of the compressor and possible overintensity.

In case of malfunction, the klixon trips but switches on again automatically as soon as the compressor has cooled down.

B) High Pressure Security Switch: Refrigerant line is considered a pressure vessel. That is why it is protected against bursts by the help of manually reset switch. It is set to 362 psi for dryers working with R134a

C) Filter dryer: A refrigerant circuit is a closed circuit and total water removal in the refrigerant circuit is paramount in order to obtain correct function.

D) To avoid problems, the refrigerant circuit must be vacuumed before loading the refrigerant.

It is equipped with a filter dryer, which also traps any solid particles which may have migrated into the circuit during assembly.

E) Water-cooled dryers have a safety high-pressure switch.

In case of cooling water failure, the safety switch stops the dryer. When the safety switch has tripped out, it has to be manually reset before switching on the dryer.

8) Refrigerant circuit controls

A) Liquid refrigerant injection: liquid refrigerant is injected into the evaporator by a control valve. This valve is a thermostatic or pressostatic one maintaining a constant overheat of the refrigerant in the evaporator(s).

B) Constant evaporating pressure: In dryers equipped with a by-pass valve, 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.

9) Condensate drain - trap assembly

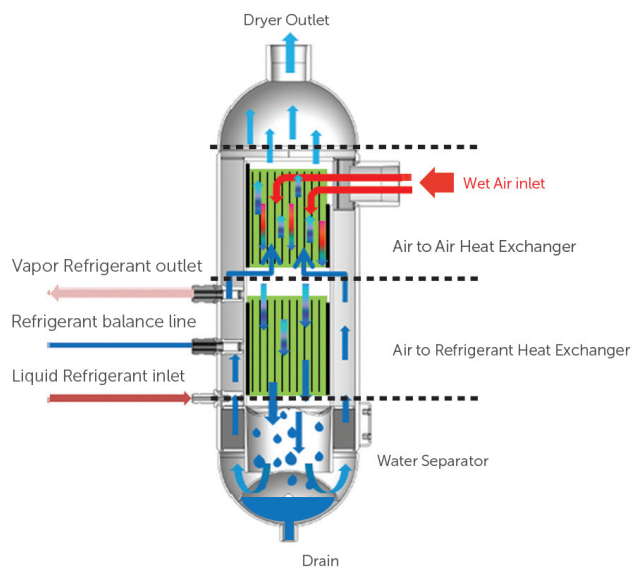
Dismantling the drain is easy because it can be isolated from the air circuit under pressure with a ball valve. The drain has to be depressurized before being dismantled.

10) Heat Exchanger Modular design

A) The dryers are equipped with a compact Mono Bloc Heat Exchanger module.

This assembly has been specially designed to dry compressed air and is made of:

- 1) An Economiser which pre-cools the entering hot air with the out flowing cold air.
- 2) An air/refrigerant exchanger cooling down the compressed air.
- 3) A centrifugal separator concentrating all condensate and requiring no maintenance.



11) Accessories

Temperature switch: Located inside the dryer, this temperature switch is adjustable from 32°F up to 95 °F.

Digital Controller –DigiPro: This device helps dryer save energy when there is not any compressed air flow in the dryer. This information can be reached: Dewpoint value, periodic maintenance interval display, status report, run time meter, temperature unit selection (°F or °C)

Digital Controller – ESD3: Energy Saving Device: (ESD) This device helps dryer save energy when there is not any compressed air flow in the dryer. This information can be reached: Dewpoint value, periodic maintenance interval display, status report, run time meter, temperature unit selection (°F or °C)

3. OPERATION

Control panels for ODRC Series

The control panel of the dryer includes the following elements:



Monophase	Digital Controller
ODRC-100 - ODRC-250	Digi-Pro

NOTE: Monophase Dryers have Digi-pro controller, Triphase Dryers have ESD (Energy Saving Device) Digital Controller. Some models have optional voltages.



Triphase	Digital Controller	Accessories
ODRC-350 - ODRC-5000	ESD3	Emergency Stop



IMPORTANT NOTE

The Dryer has two Compressed Air Filter inside.

It is better to change filter element for the best efficiency when the alarm status is active.

It is recommended to keep replacement filter elements in your stock in order to replace them when needed.



ATTENTION

ODRC range dryers have low pressure drop relative to its competitors.

Do not use ODRC range dryers together with other dryers which have higher pressure drop without getting confirmation from our technical team.

3.1. During Operation

Regularly check the digital temperature controller ESD3 or Digi-Pro on dryer.

3.2 Start up and shut-down

Warning: Avoid leaving the dryer off when compressed air is still flowing through it.

3.3 Starting for the first time or after a long stop

1) Set the rotary switch to "I" This preheats the dryer and turns the drain system on.
It is recommended to leave the dryer power on permanently so the crankcase heater runs continuously.



IMPORTANT NOTE!

2) After a long stop of the dryer it is MANDATORY to allow a preheating period of minimum 4 hours before starting again to avoid any compressed air flow during preheating.

3) Follow the daily starting and shut down procedure.

3.4 Daily starting and shut-down

1) Push on the ON button to start the dryer.

2) The start light or Dryer Active will indicate that the dryer is running.

3) To stop the dryer, first stop the airflow (either shut-down the air compressor or close the inlet/outlet or by-pass valve) When the air flow is stopped, set the rotary switch on " 0 " Set it again on " I " in order to keep the preheating on.



IMPORTANT NOTE !

4) Avoid leaving the dryer stopped when compressed air is still flowing through it.

5) To switch the already preheated dryer on again, simply push the green start button.

4) ELECTRICAL CONTROLLER

4.1 DIGI-PRO

4.1.1 Description

With the Digi-Pro series controllers, air dryers have outstanding technology for both functionality and dynamism, as well as appearance. The multi-functional display provides an accurate digital dew point display as well as coded alarm monitoring of the refrigerant dryer.

DIGITAL CONTROLLER ADVANTAGES;

- Digital dew point monitoring
- Energy-saving mode display
- Periodic maintenance interval display
- Status report
- Run time meter
- Fahrenheit and Centigrade selection

4.1.2 Operation

Using the Digi Pro controller as shown in the picture below:



4.1.3 Menu Buttons



PROGRAM

To modify the parameter, press and release button set. The menu is used by service team. To disable the Key Lock: Press and hold the SET for 4 sec.



POWER

This button is used for starting and stopping the dryer. Press and hold for 4 seconds to start or stop.



MENU

These buttons are used to navigate between screens and adjust values.



MANUAL DRAIN

This button is used for manual control of the drain output. Press and hold for 4 seconds to drain manually.

4.1.4 ALARM DISPLAY



Alarms / warnings are displayed on the digital screen. That means the dryer is not working under normal operating conditions, which are outside the range of set values.

Alarm Code	Alarm Description	Reason for Alarm
tAL	Low Temperature Alarm	Refrigerant line temperature is lower than specified set values
tAH	High Temperature Alarm	Refrigerant line temperature is higher than specified set values
FIL	Filter Change Alarm	Filter element needs to be replaced
HP	High Pressure Alarm	Refrigerant high line pressure is higher than specified set values
tSH	High Suction Line Temperature	Refrigerant suction line temperature is higher than specified set values
hSE	Service Time	General service time of the dryer



Please contact your local Ozen Distributor when an alarm/warning occurs.

4.1.5 MODE DISPLAY



DRYER ACTIVE MODE

This mark indicates that the dryer is performed in active state and drying.



AUTOMATIC DRAIN MODE

Shows if the drain system is activated.



ENERGY SAVING MODE

Shows if the energy saving mode is activated



CELSIUS UNIT MODE

Indicates that Celsius temperature unit is selected.



FAHRENHEIT UNIT MODE

Indicates that Fahrenheit temperature unit is selected.



COMPRESSOR STANDBY MODE

This mode shows that the dryer is ready for drying operation.



SERVICE MODE

This mode shows that the dryer is in the service time.

4.2 ESD 3

4.2.1 DESCRIPTION

E-687 is designed as a controller for refrigerant type compressed air dryers. The controller has 8 temperature sensor inputs.

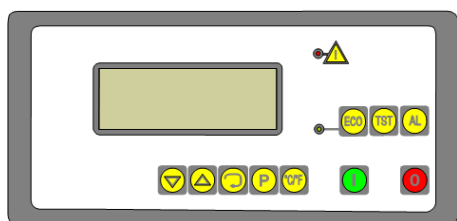
The controller has an RS-485 communication interface that can be used for remotely monitoring channel temperatures, set points, input and output states. Modbus RTU protocol is used for communication.

The front panel of the controller contains a four line 20 character LCD display and buttons that are used in configuration and manual control operations.

The dimensions of the controller are 3.7 x 7.5 in. (front panel) with a depth of 4.3 in. . The panel cutout should be 3.5 x 7.2 in. . The operating voltage of the controller is 20 - 60V AC or 20 - 85V DC.

4.2.2 OPERATION

The front panel view of E-687 controller is given in the below figure. The front panel of the controller contains a four line 20 character LCD display, 10 buttons and 2 indicator leds.



The Front Panel View of E-687 Controller

ECO button is used to enable or disable the ECO (economy) mode. Pressing this button complements the state of ECO, i.e. if it is enabled; disables, if it is disabled; enables the ECO mode. The green led on the left side of the **ECO** button lights if the ECO mode is enabled.

TST button is used for manual control of the drain output.

AL button is used for alarm acknowledge. The dryer is automatically stopped if an anomaly is detected. In that case, the alarm output and the alarm indicator led (red) on the front panel become activated. In order to restart the dryer, alarm should be acknowledged and "restart delay" period should be timed out. Pressing **AL** button acknowledges the alarm and reenergizes the alarm output and alarm led.

The buttons below the LCD display (**↓** , **↑** , **←** and **→**) are used in screen selection and configuration operations.

°C/°F button is used to change the temperature unit from °C to °F or vice versa.

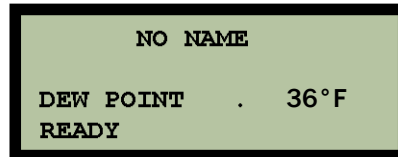
Start and **Stop** buttons are used for starting and stopping the dryer respectively. If the dryer is stopped manually, it can not be started before "restart delay" period is timed out.

°C/°F , **ECO** , **TST** , **AL** , **Start** and **Stop** buttons are disabled during configuration operations.

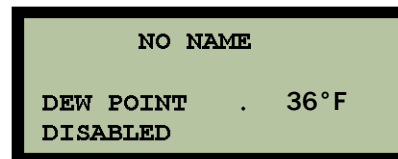
4.2.3 OPERATION SCREENS

4.2.3.1 The Normal Operation Screen

When the controller is powered on, it displays the type and version message, and then the restart delay timer is set to 5 seconds. After 5 seconds, the normal operation screen is displayed as shown in below figure



The exchanger temperature (Dew Point) and operation state of the dryer is displayed in this screen. If there is a situation which will prevent the operation of the dryer then the "READY" message in the last line will become "DISABLED". See below figure



In order to start the dryer, the following conditions must be satisfied.

1. All the temperatures except the exchanger temperature and condenser outlet temperature must be between their low and high limits. The low pressure line temperature can be 'HIGH'.
2. Digital Input 3 (Compressor Fault) is not activated.
3. Digital Input 4 (Compressor Overload) is not activated.
4. Digital Input 5 (Fan Fault) is not activated.
5. Digital Input 6 (Fan Overload) is not activated.
6. Digital Input 7 (Phase Sequence Error) is not activated.
7. Digital Input 8 (Remote Disable) is not activated.
8. Digital Input 11 (High Pressure) is not activated.
9. Digital Input 12 (Low Pressure) is not activated.

If all the above conditions are satisfied, the message in the last line of the normal operation screen will be "READY" and the dryer can be started either pressing button on the front panel or activating Digital Input 1 (Remote Start) or activating Digital Input 13 (Remote Control). When the dryer is started, the normal operation screen is displayed as shown in below figure.

```

NO NAME
DEW POINT . 36°F
RUNNING DRAIN ON
    
```

In the beginning, Digital Output 1 (Compressor Motor), Digital Output 2 (Drain Output) and Digital Output 3 (Dryer is Running) become active. While in normal operation, the drain output is controlled according to the configured "drain on" and "drain off" periods. "DRAIN ON" message is displayed in the end of the last line while the drain output is active.

When the Digital Input 9 (Fan Motor is on) is activated, "FAN MOTOR IS ON" message is displayed in the second line as shown in below figure.

```

NO NAME
FAN MOTOR IS ON
DEW POINT . 36°F
RUNNING
    
```

Digital Input 14 (Water Pump is on) activates "WATER PUMP IS ON" message as shown in below figure.





```

NO NAME
WATER PUMP IS ON
DEW POINT . 36°F
RUNNING
    
```

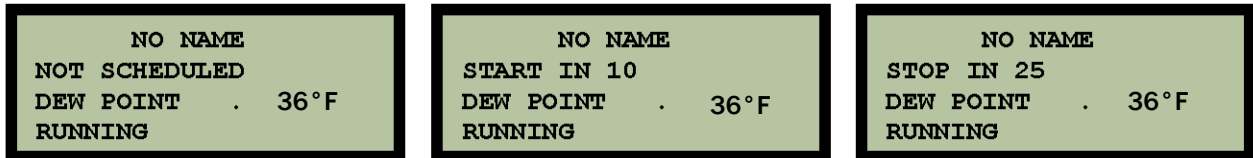
When ECO mode is enabled and the exchanger temperature is less than or equal to "ECO Start Set point" and this condition is prevailed more than "ECO Start Delay", then, the compressor motor is stopped and ECO operation starts. During the ECO operation the appearance of the display is given in below figure. The value at the end of the second row indicates the time in seconds since beginning of the ECO operation.


```

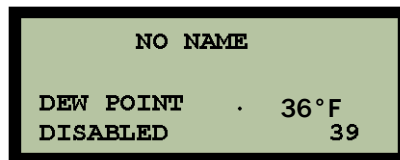
NO NAME
ECO (SEC.) : 324
DEW POINT . 36°F
RUNNING
    
```

Pressing  and  keys simultaneously at this page toggles the controller between automatic and manual mode. In manual mode, the dryer starts and stops manually by using  and  buttons. Unlike the manual mode, automatic mode enables the controller start and stop automatically at pre-programmed times on a daily basis

When running in automatic mode, current scheduling information messages are also activated in the second line of the displays as show in below figure. "NOT SCHEDULED" message is displayed when no schedule exists. "START IN XXX" shows the time to the next scheduled program in minutes and "STOP IN XXX" message shows the time to the end of current running program in minutes.










If the dryer is stopped manually by using  button, or activating Digital Input 2 (Remote Stop) or deactivating Digital Input 13 (Remote Control), the normal operating screen is displayed as shown in below figure. The number at the end of the last line indicates the remaining time in seconds from the restart delay. If this number becomes zero and there is no anomaly, the dryer can be restarted.



The first line in the normal operation screen (NO NAME) is user configurable. If the exchanger temperature sensor is broken, dew point temperature will be displayed as 1000°C.

4.3.3. The Info Screens

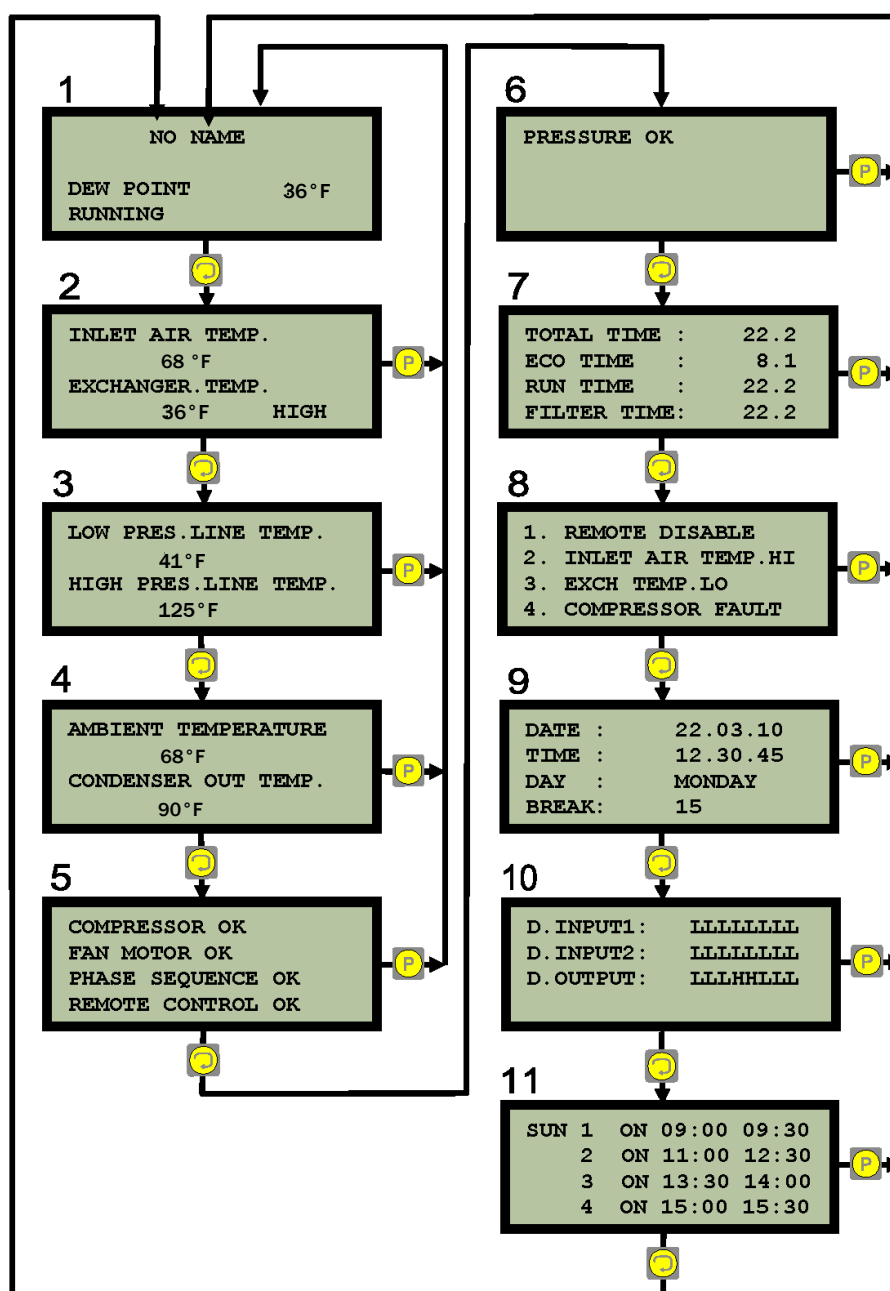
Various data related to the dryer can be monitored by sequentially pressing  button. Pressing  button, changes the display screen. While one screen is displayed, pressing  button reverts to the normal operation screen. The flow chart for monitoring the dryer data is given in Figure 2.13. In this figure, screen numbers are shown on the upper left of the screens.

Screen1 is the normal operation screen. While this screen is displayed, pressing  button selects Screen2. By successively pressing  button, all the screens can be accessed. Screens may also be selected by  and  buttons.

In Screen2, Screen3 and Screen4, the sensor temperatures are displayed. If the measured temperatures are between their low and high limits, only the temperature value is displayed, otherwise **"LOW"** or **"HIGH"** message is added in the end of the line. In case of sensor break, only **"SENSOR BREAK"** message is displayed.

In screen 5 and 6 the states of the compressor motor, fan motor, the phase sequence, remote disable and air pressure are displayed. Actually this data is derived from the digital inputs.

The message in the first line of Screen5 is determined by Digital Input 3 and Digital Input 4 (Compressor Fault and Compressor Overload). in the below table shows the relation between digital inputs and the message.



Screen8 displays the last four events that caused the dryer to be stopped automatically. The possible alternatives for the messages are given below.

INLET AIR TEMP.LO	COMPRESSOR FAULT
INLET AIR TEMP.HI	COMP.OVERLOAD
EXCH.TEMP.LO	FAN MOTOR FAULT
EXCH.TEMP.HI	FAN MOT.OVERLOAD
LO.PRES.L.TEMP.LO	PHASE SEQ.ERROR
LO.PRES.L.TEMP.HI	REMOTE DISABLE
HI.PRES.L.TEMP.LO	PRESSURE HIGH
HI.PRES.L.TEMP.HI	PRESSURE LOW
AMB.TEMP.LO	CONDENSER FAULT
AMB.TEMP.HI	

Screen9 displays the date and time.

Screen10 displays the states of the digital inputs and digital outputs. The letters 'L' and 'H' stands for 'not activated' and 'activated' states respectively.

The data in the first line of Screen10 (D.INPUT1), from right to left corresponds to Digital Input 1 to 8.

The data in the second line of Screen10 (D.INPUT2), from right to left corresponds to Digital Input 9 to 16.

The data in the third line of Screen10 (D.OUTPUT), from right to left corresponds to Digital Output 1 to 8.

Screen11 displays automatic mode scheduling of the day. Please see Section 2.3.3 for scheduling for auto/manual selection.

4.3.4 Operation Principles

In order to start the dryer, the following conditions must be satisfied

1. All the temperatures except the exchanger temperature and condenser outlet temperature must be between their low and high limits. The low pressure line temperature can be 'HIGH'.
2. Digital Input 3 (Compressor Fault) is not activated.
3. Digital Input 4 (Compressor Overload) is not activated.
4. Digital Input 5 (Fan Fault) is not activated.
5. Digital Input 6 (Fan Overload) is not activated.
6. Digital Input 7 (Phase Sequence Error) is not activated.
7. Digital Input 8 (Remote Disable) is not activated.
8. Digital Input 11 (High Pressure) is not activated.
9. Digital Input 12 (Low Pressure) is not activated.

If all the above conditions are satisfied, the dryer can be started.

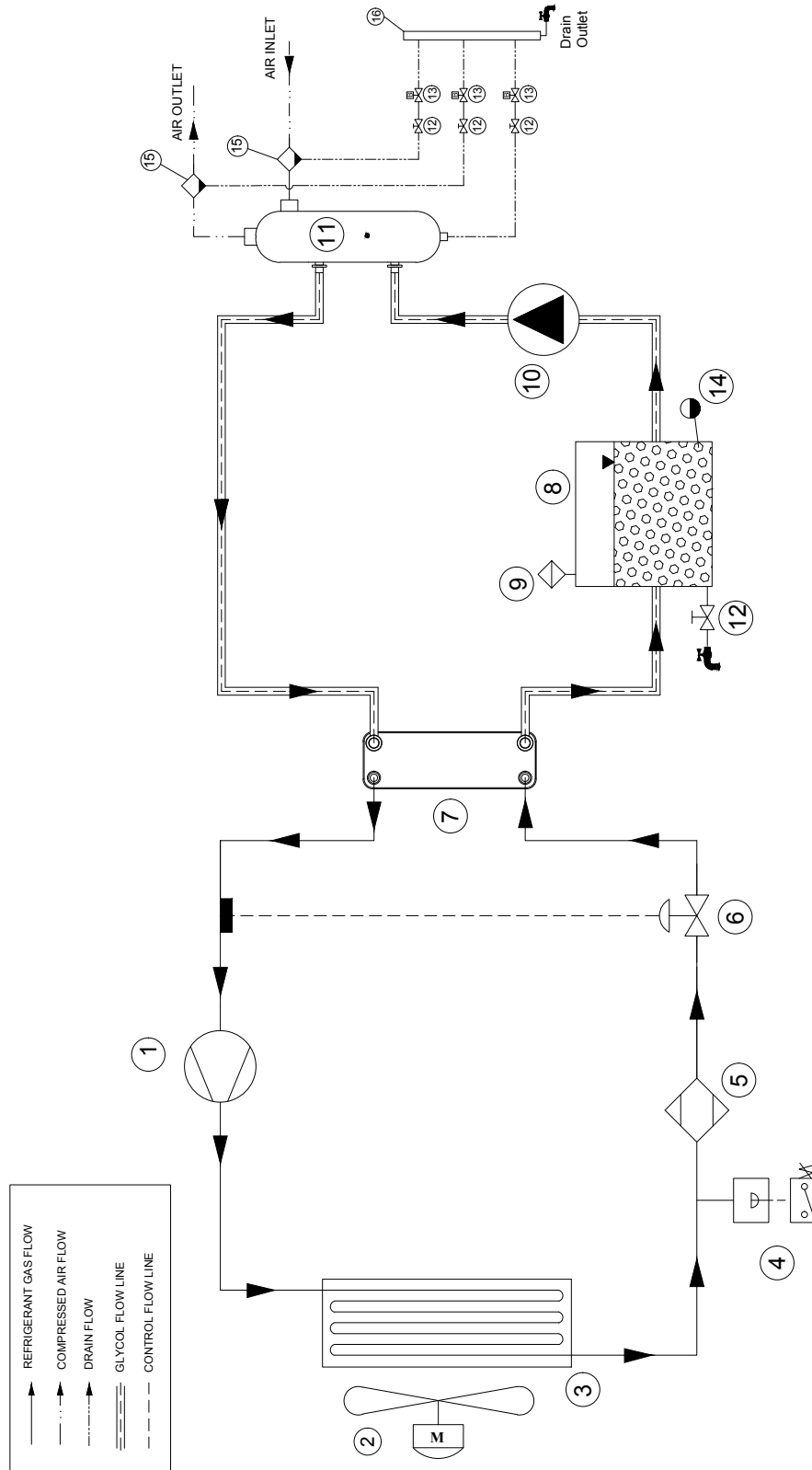
5. TECHNICAL SPECIFICATIONS

Model	Capacity (scfm)	Connection Size	Refrigerant gas	Pressure drop (psig)
ODRC-100	100	1 1/2" NPT	R134a	1.6
ODRC-125	125	1 1/2" NPT	R134a	2.2
ODRC-140	140	1 1/2" NPT	R134a	2.8
ODRC-175	175	2" NPT	R134a	1.6
ODRC-200	200	2" NPT	R134a	1.9
ODRC-250	250	2" NPT	R134a	1.8
ODRC-350	350	2" NPT	R134a	2.6
ODRC-425	425	2" NPT	R134a	2.9
ODRC-550	550	3" NPT	R134a	2.0
ODRC-700	700	3" NPT	R134a	2.5
ODRC-900	900	3" NPT	R134a	1.7
ODRC-1100	1100	3" NPT	R134a	2.2
ODRC-1350	1350	4" FLG	R134a	1.7
ODRC-1500	1500	4" FLG	R134a	1.9
ODRC-2000	2000	4" FLG	R134a	2.7
ODRC-2350	2350	4" FLG	R134a	2.8
ODRC-2750	2750	6" FLG	R134a	2.5
ODRC-3000	3000	6" FLG	R134a	2.5
ODRC-3600	3600	6" FLG	R134a	2.5
ODRC-4000	4000	8" FLG	R134a	2.5
ODRC-5000	5000	8" FLG	R134a	2.5

FOR ALL MODELS	
Nominal Working Pressure	100 psig
Maximum Working Pressure	230 psig
Maximum Ambient Temperature	120°F
Minimum Ambient Temperature	39°F
Maximum Inlet Temperature	150°F

6. DIAGRAMS

6.1 AIR FLOW DIAGRAMS ODRC 100 - ODRC 250

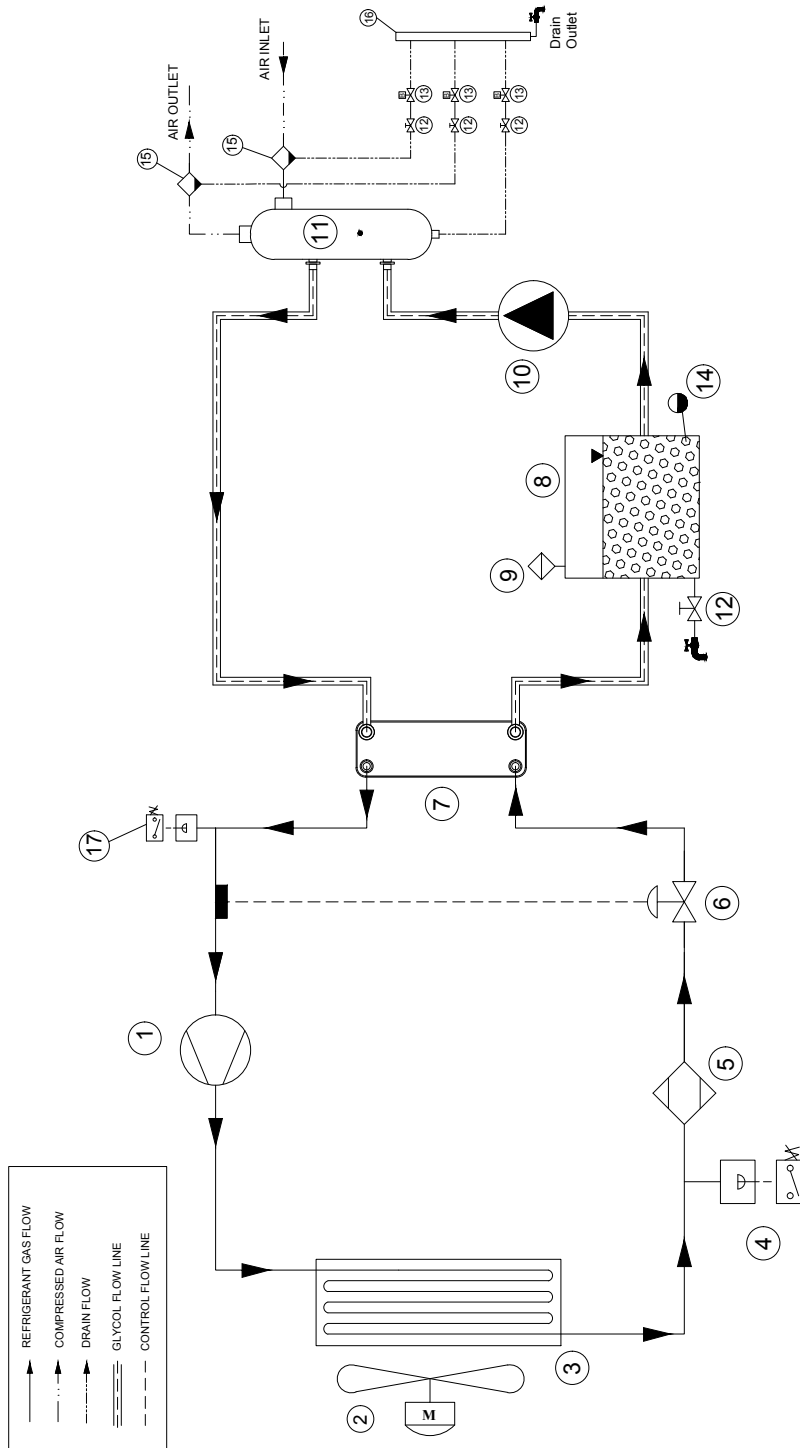


6.1 AIR FLOW DIAGRAMS

ODRC 100 - ODRC 250

16	DRAIN COLLECTOR	1
15	FILTER	2
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	3
12	MANUAL VALVE	4
11	GLYCOL - AIR EXCHANGER	1
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	1
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-350 - ODRC-425

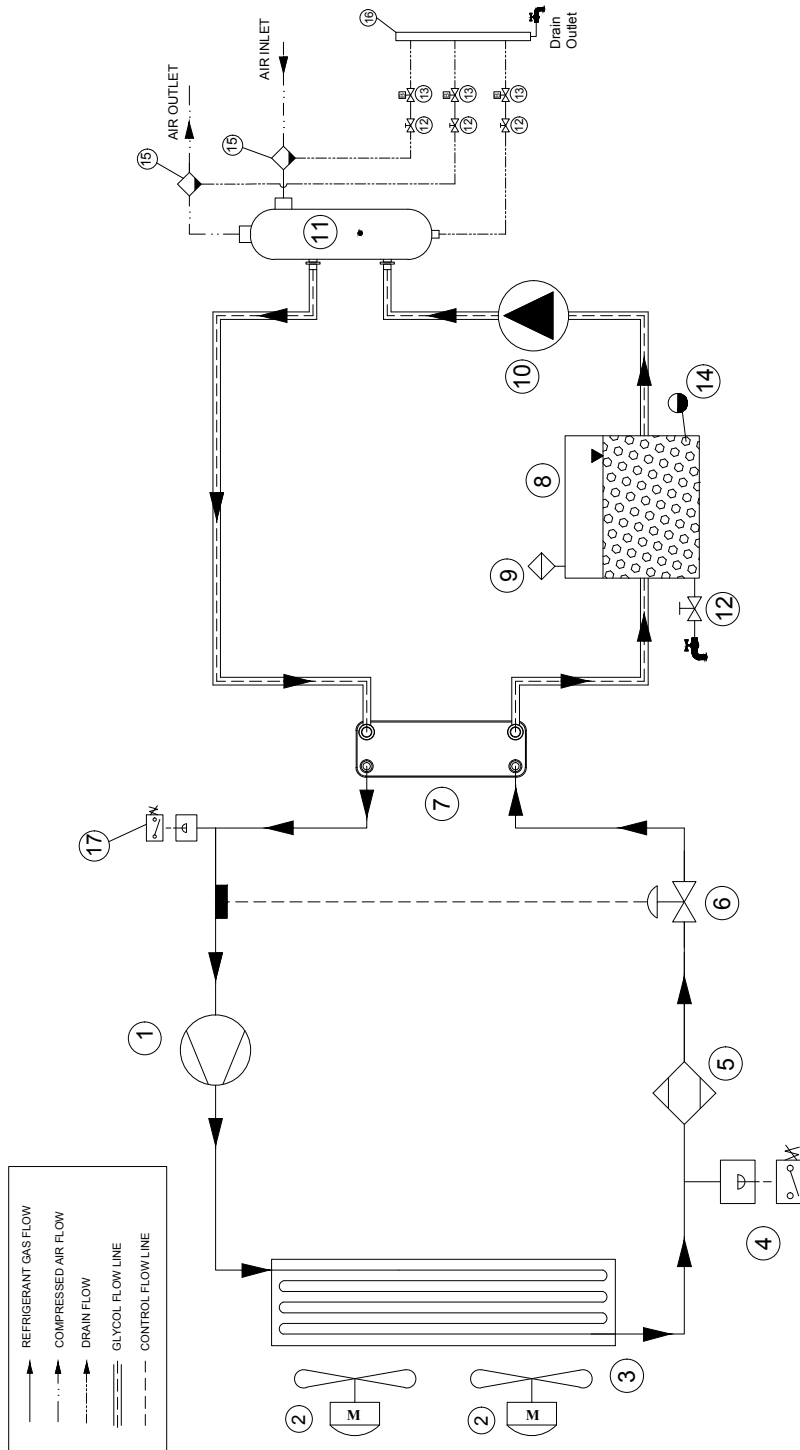


6.1 AIR FLOW DIAGRAMS

ODRC-350 - ODRC-425

17	LOW PRESSURE SWITCH	1
16	DRAIN COLLECTOR	1
15	FILTER	2
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	3
12	MANUAL VALVE	4
11	GLYCOL - AIR EXCHANGER	1
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	1
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-550 - ODRC-700

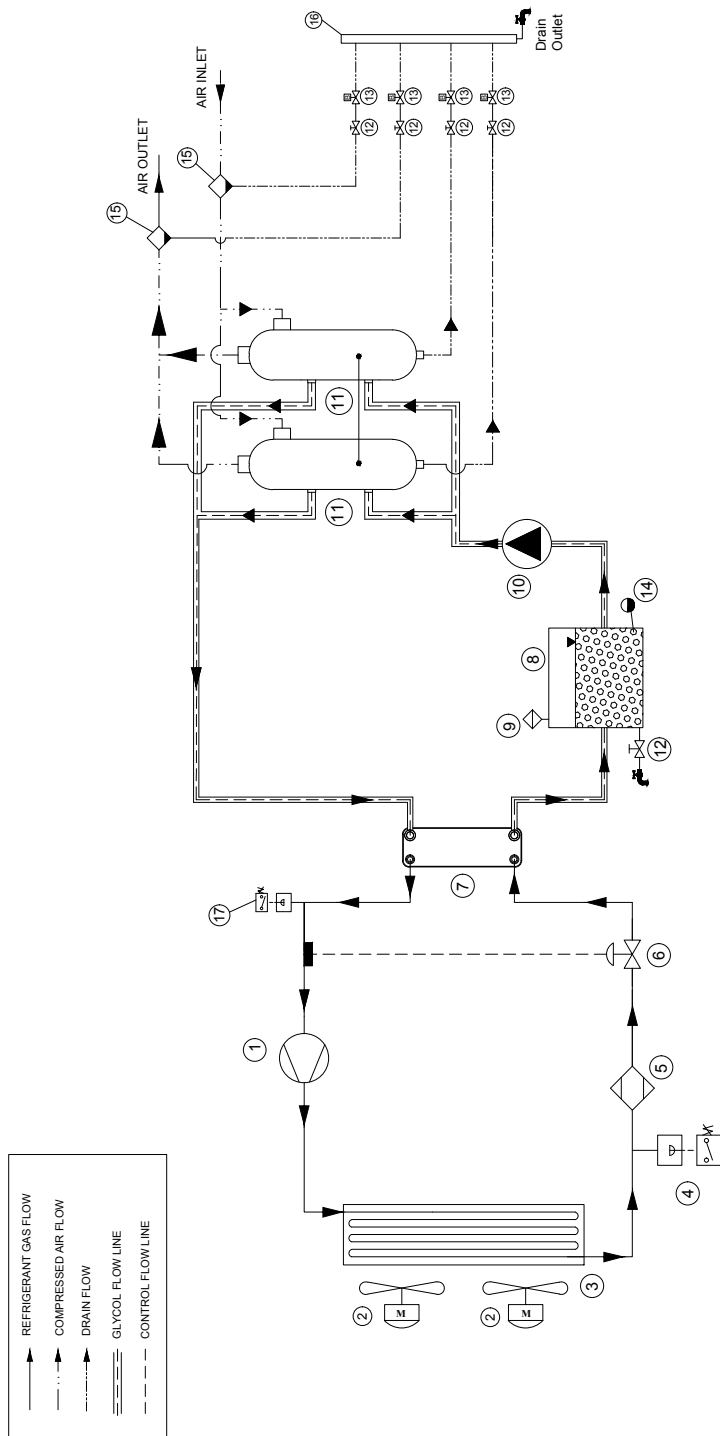


6.1 AIR FLOW DIAGRAMS

ODRC-550 - ODRC-700

17	LOW PRESSURE SWITCH	1
16	DRAIN COLLECTOR	1
15	FILTER	2
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	3
12	MANUAL VALVE	4
11	GLYCOL - AIR EXCHANGER	1
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	1
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-900 - ODRC-1100

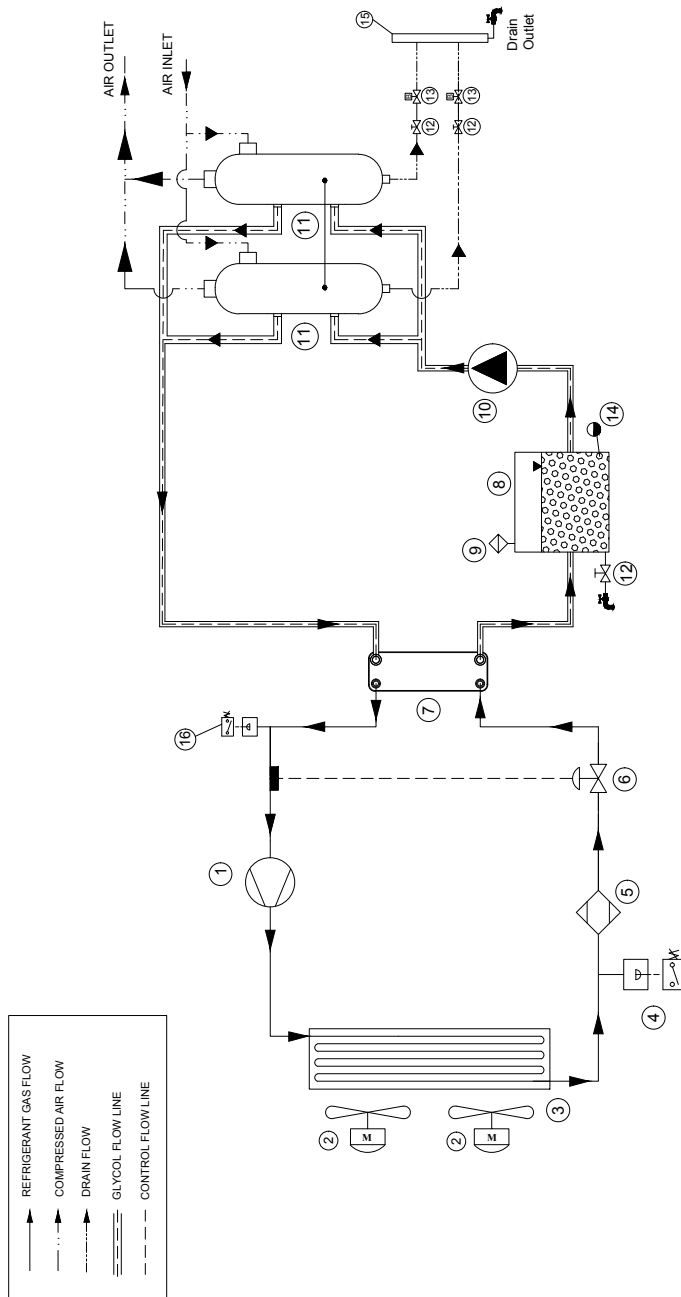


6.1 AIR FLOW DIAGRAMS

ODRC-900 - ODRC-1100

17	LOW PRESSURE SWITCH	1
16	DRAIN COLLECTOR	1
15	FILTER	2
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	4
12	MANUAL VALVE	5
11	GLYCOL - AIR EXCHANGER	2
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	2
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-1350 - ODRC-1500

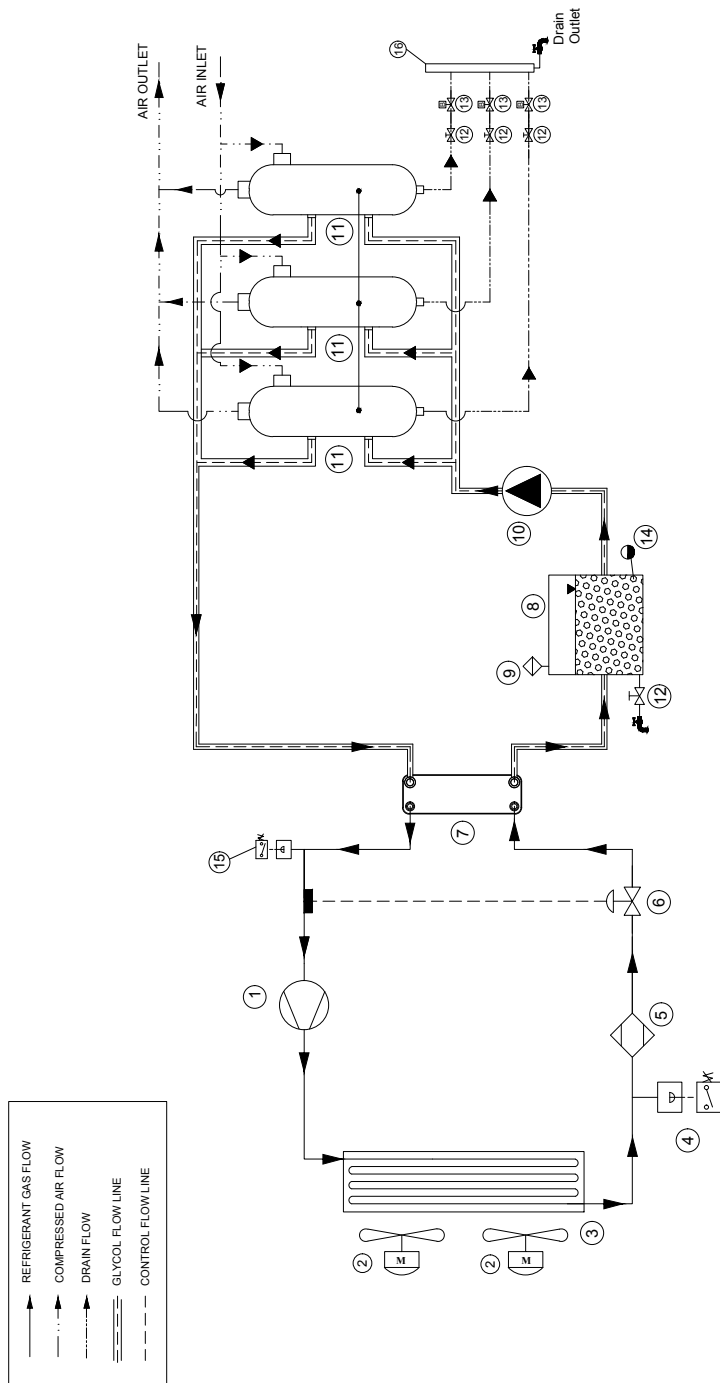


6.1 AIR FLOW DIAGRAMS

ODRC-1350 - ODRC-1500

16	LOW PRESSURE SWITCH	1
15	DRAIN COLLECTOR	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	4
12	MANUAL VALVE	5
11	GLYCOL - AIR EXCHANGER	2
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	2
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-2000 - ODRC-2350

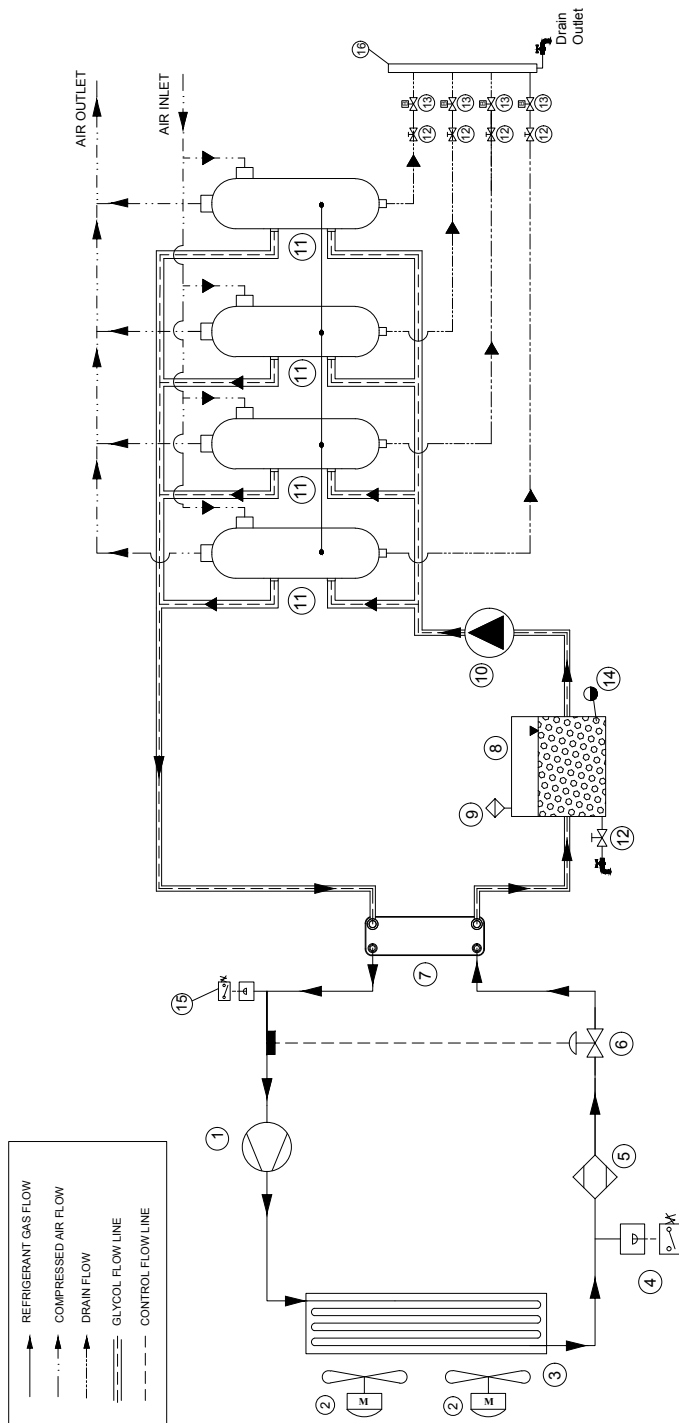


6.1 AIR FLOW DIAGRAMS

ODRC-2000 - ODRC-2350

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	3
12	MANUAL VALVE	4
11	GLYCOL - AIR EXCHANGER	3
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	2
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-2750

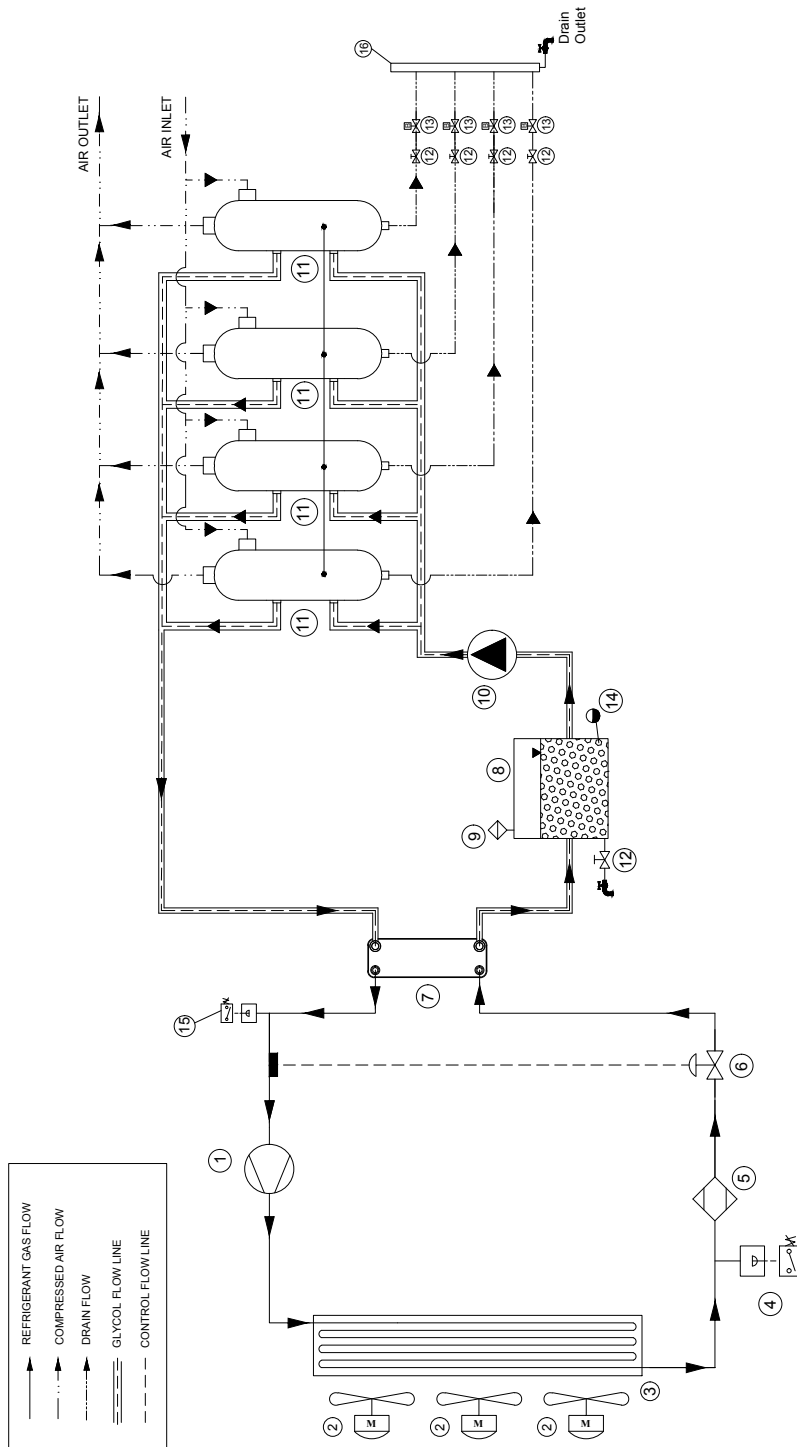


6.1 AIR FLOW DIAGRAMS

ODRC-2750

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	4
12	MANUAL VALVE	5
11	GLYCOL - AIR EXCHANGER	4
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	2
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-3000

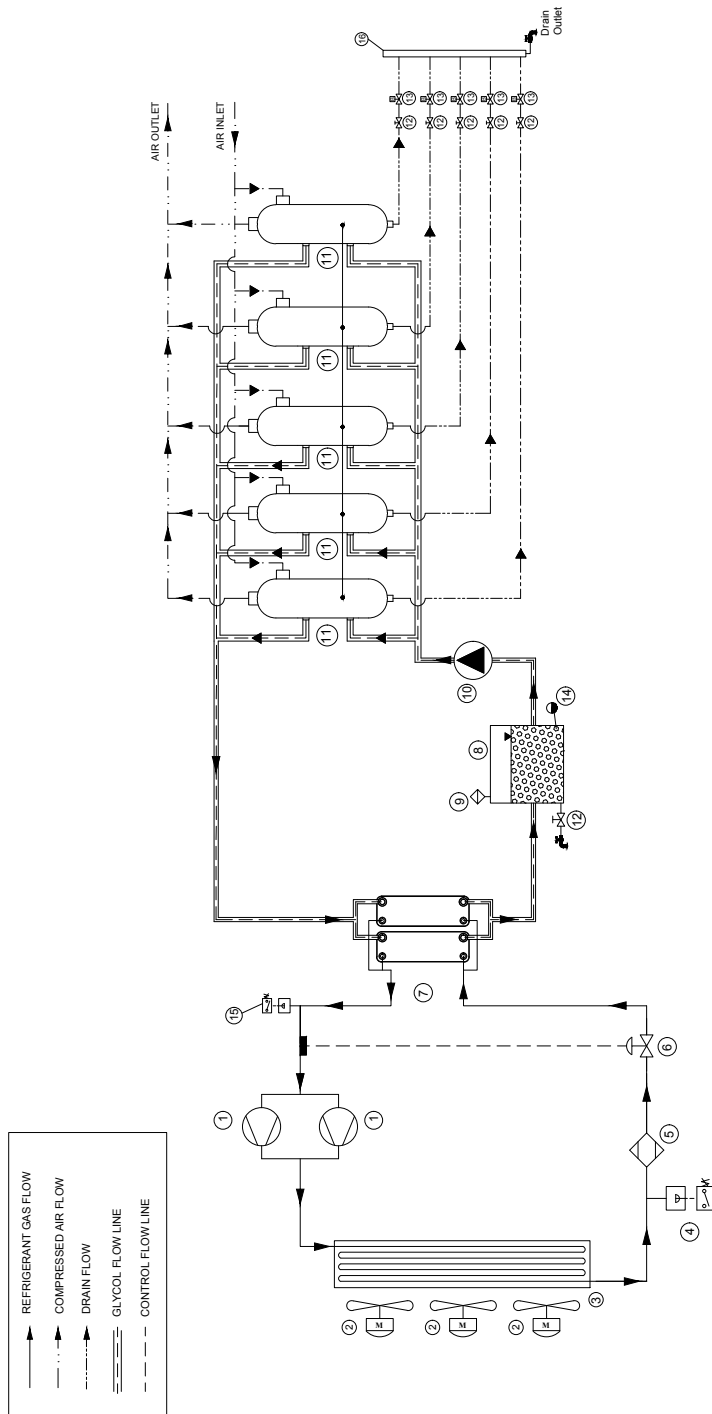


6.1 AIR FLOW DIAGRAMS

ODRC-3000

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	4
12	MANUAL VALVE	5
11	GLYCOL - AIR EXCHANGER	4
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	1
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	3
1	COMPRESSOR	1
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-3600

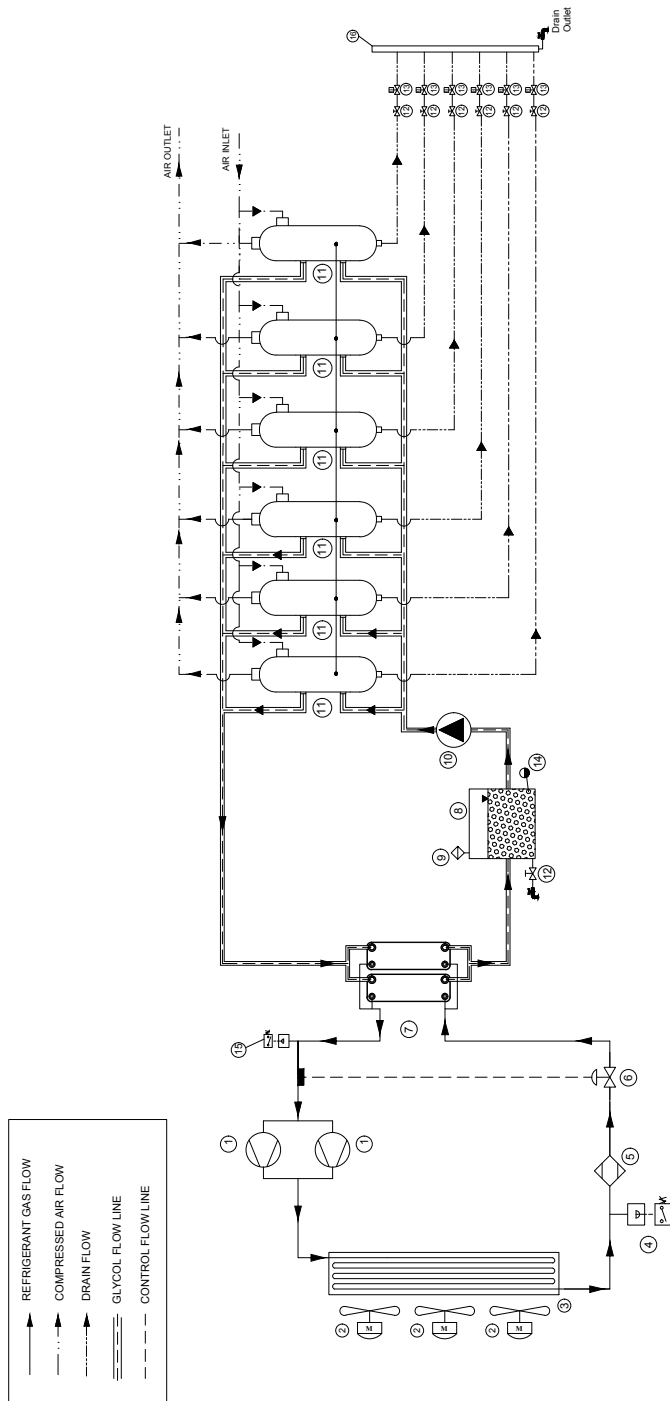


6.1 AIR FLOW DIAGRAMS

ODRC-3600

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	5
12	MANUAL VALVE	6
11	GLYCOL - AIR EXCHANGER	5
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	2
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	3
1	COMPRESSOR	2
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS ODRC-4000



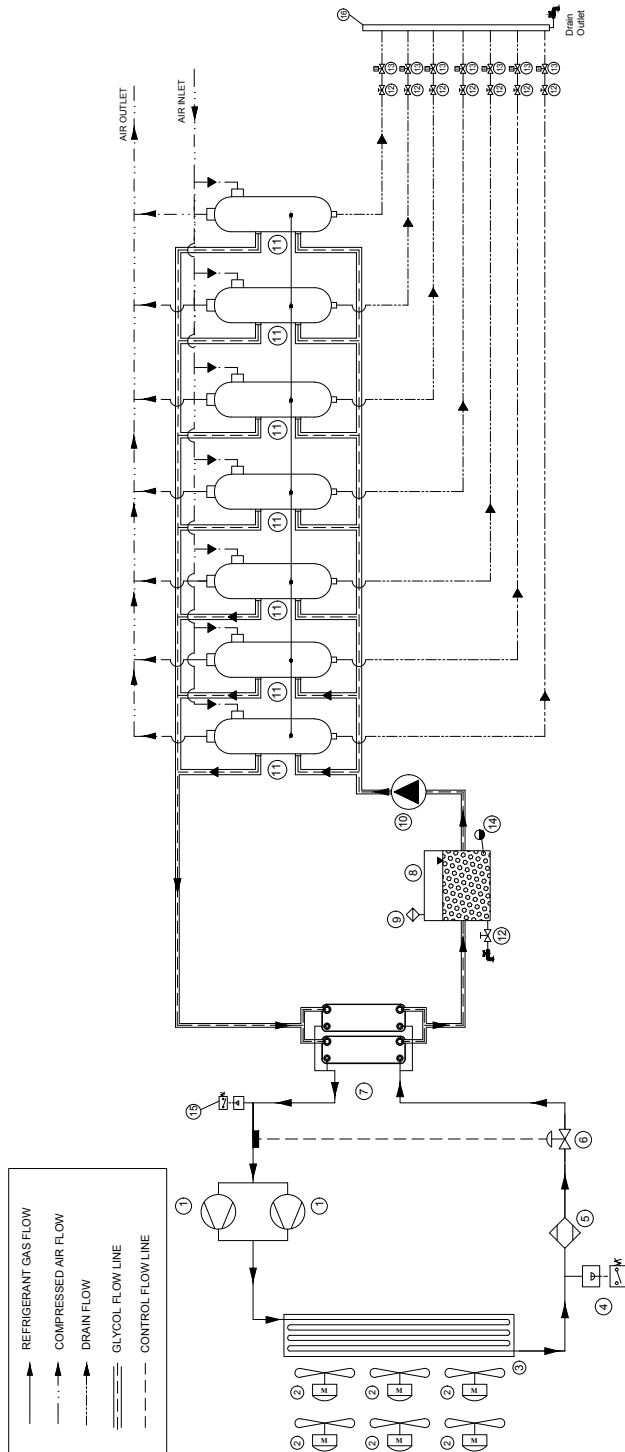
6.1 AIR FLOW DIAGRAMS

ODRC-4000

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	6
12	MANUAL VALVE	7
11	GLYCOL - AIR EXCHANGER	6
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	2
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	3
1	COMPRESSOR	2
POS.	DESCRIPTION	QTY

6.1 AIR FLOW DIAGRAMS

ODRC-5000



6.1 AIR FLOW DIAGRAMS

ODRC-5000

16	DRAIN COLLECTOR	1
15	LOW PRESSURE SWITCH	1
14	SIGHT GLASS	1
13	ZERO LOSS VALVE	7
12	MANUAL VALVE	8
11	GLYCOL - AIR EXCHANGER	7
10	GLYCOL PUMP	1
9	AIR VENT	1
8	COLD STORAGE TANK	1
7	REF. - GLYCOL EXCHANGER	2
6	EXPANSION VALVE	1
5	FILTER DRIER	1
4	HIGH PRESSURE SWITCH	1
3	CONDENSER	1
2	FAN MOTOR	6
1	COMPRESSOR	2
POS.	DESCRIPTION	QTY

6.2

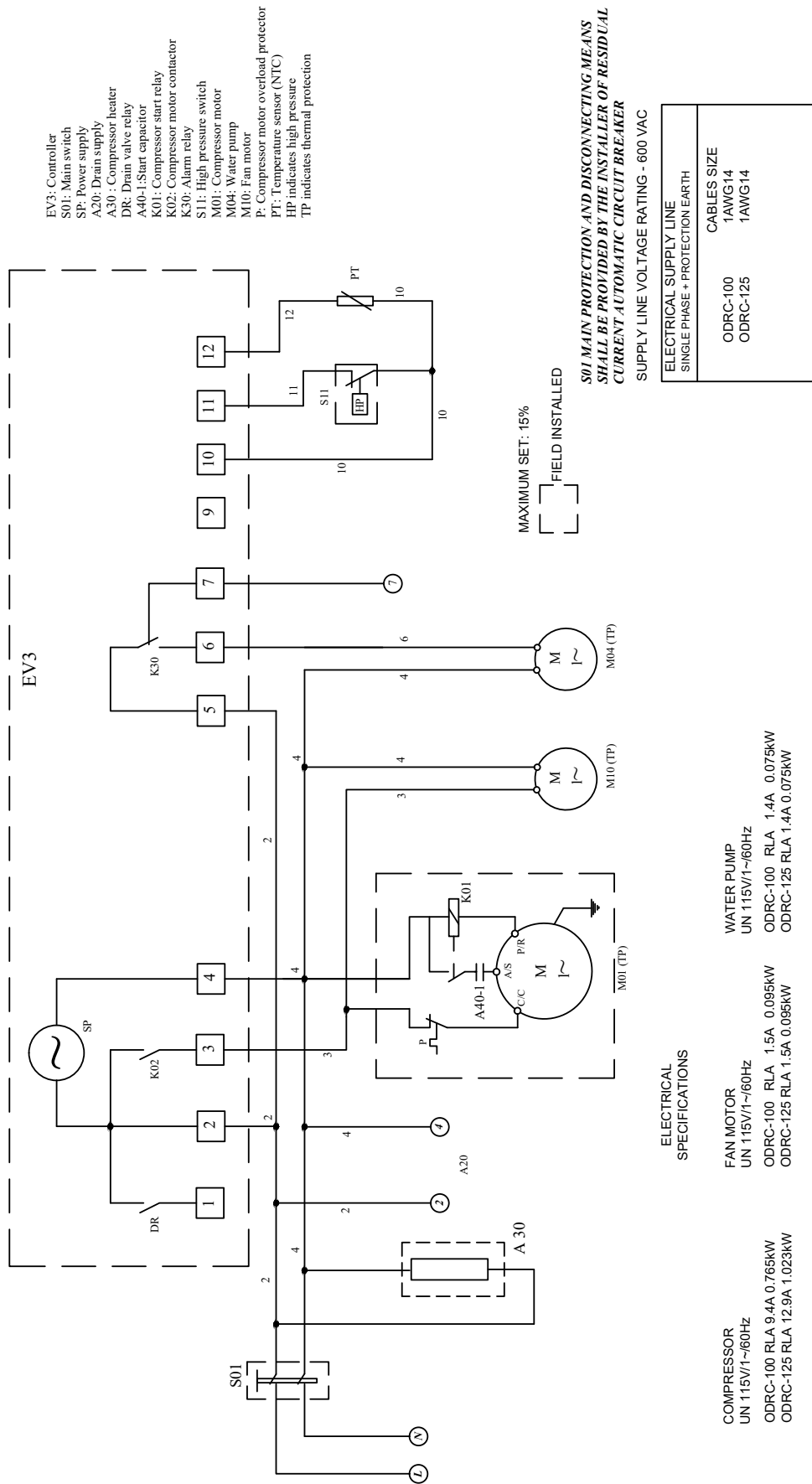
ODRC ELECTRICAL DIAGRAMS With Control & Power

“User must supply the protective earth conductor of the dryer. The conductor is to be connected to the point on the conducting body of the dryer, specified by a sticker with the protective earth symbol next to it. The size of the protective earth conductor should be at least the size of the power conductor, minimum 16 mm² for power conductor size between 16 and 35 mm², minimum half the size of the conductor if it is larger than 35 mm².”

*** Note: Any sizing of electrical components, such as cabling and fuses, should be performed by a Licensed Electrician in accordance with local code. Any sizing mentioned in this manual is for reference only and is intended to be a recommendation.**

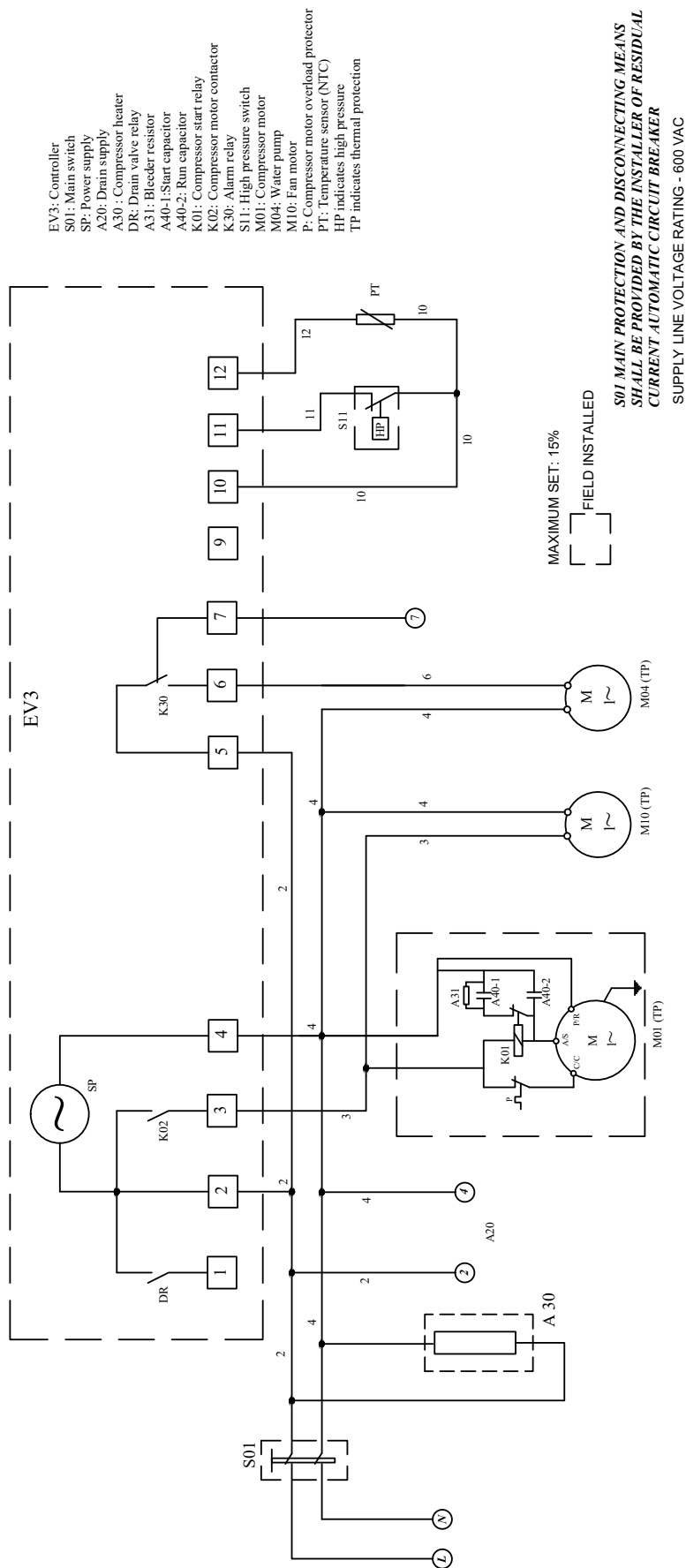
MODEL	Voltage/Phase/ Hertz	INSTALLED POWER (kWatt)	Nominal Current (Amp)	MCA (A)	TOTAL LRA (A)	Fuse (Amp)
ODRC-100	115/1P/60	1.0	12.7	15.3	49.1	16
ODRC-125	115/1P/60	1.3	15.8	19.7	65.1	20
ODRC-140	230/1P/60	1.5	7.8	9.9	33.2	10
ODRC-175	230/1P/60	1.8	8.6	10.5	33.8	10
ODRC-200	230/1P/60	2.3	11.8	15.7	51.8	16
ODRC-250	230/1P/60	2.4	12.2	15.7	51.8	16
ODRC-350	460/3P/60	2.2	5.2	7.8	32.5	8
ODRC-425	460/3P/60	2.4	5.7	8.6	40.5	10
ODRC-550	460/3P/60	3.5	7.5	12.0	52.4	12
ODRC-700	460/3P/60	3.9	8.9	14.3	65.4	16
ODRC-900	460/3P/60	4.2	10.0	15.4	66.2	16
ODRC-1100	460/3P/60	6.0	13.4	18.7	98.4	20
ODRC-1350	460/3P/60	7.3	16.1	24.0	119.4	25
ODRC-1500	460/3P/60	8.3	17.4	28.7	130.4	30
ODRC-2000	460/3P/60	10.6	22.1	36.2	157.2	40
ODRC-2350	460/3P/60	12.2	27.0	41.8	186.2	45
ODRC-2750	460/3P/60	15.2	27.9	45.8	232.2	45
ODRC-3000	460/3P/60	16.4	31.0	48.8	235.2	50
ODRC-3600	460/3P/60	19.8	40.6	63.1	310.8	65
ODRC-4000	460/3P/60	20.0	40.7	63.1	310.8	65
ODRC-5000	460/3P/60	26.6	59.4	82.3	377.9	85

6.2 ELECTRICAL DIAGRAMS ODRC-100 to ODRC-125 (115 V - 1Ph)



6.2 ELECTRICAL DIAGRAMS

ODRC-140 to ODRC-425 (230 V - 1Ph)



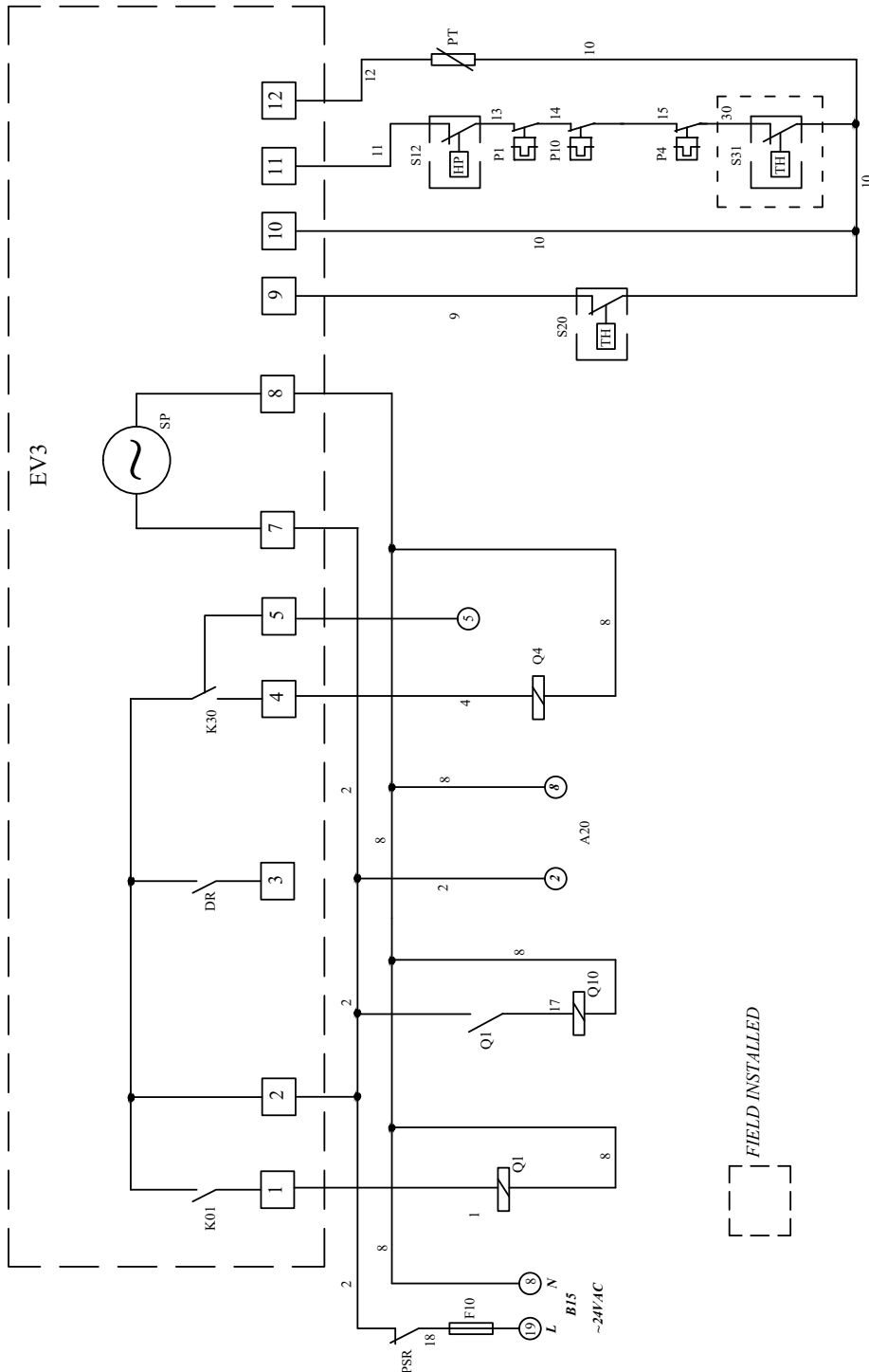
ELECTRICAL SUPPLY LINE SINGLE PHASE + PROTECTION EARTH	CABLES SIZE
ODRC-140	1AWG14
ODRC-175	1AWG14
ODRC-200	1AWG14
ODRC-250	1AWG14
ODRC-350	1AWG14
ODRC-425	1AWG14

ELECTRICAL SPECIFICATIONS

COMPRESSOR	FAN MOTOR	WATER PUMP
UN 230V/1~60Hz	UN 230V/1~60Hz	UN 230V/1~60Hz
ODRC-140 RLA 6.4A 1.289kW	ODRC-140 RLA 0.7A 0.095kW	ODRC-140 RLA 0.7A 0.075kW
ODRC-175 RLA 6.4A 1.337kW	ODRC-175 RLA 0.75A 0.21kW	ODRC-175 RLA 0.7A 0.075kW
ODRC-200 RLA 14.1A 1.320kW	ODRC-200 RLA 0.75A 0.21kW	ODRC-200 RLA 0.7A 0.075kW
ODRC-250 RLA 14.1A 1.350kW	ODRC-250 RLA 0.75A 0.21kW	ODRC-250 RLA 0.7A 0.075kW
ODRC-350 RLA 10.6A 1.857kW	ODRC-350 RLA 0.75A 0.21kW	ODRC-350 RLA 0.7A 0.075kW
ODRC-425 RLA 13.3A 2.470kW	ODRC-425 RLA 0.75A 0.21kW	ODRC-425 RLA 0.7A 0.075kW

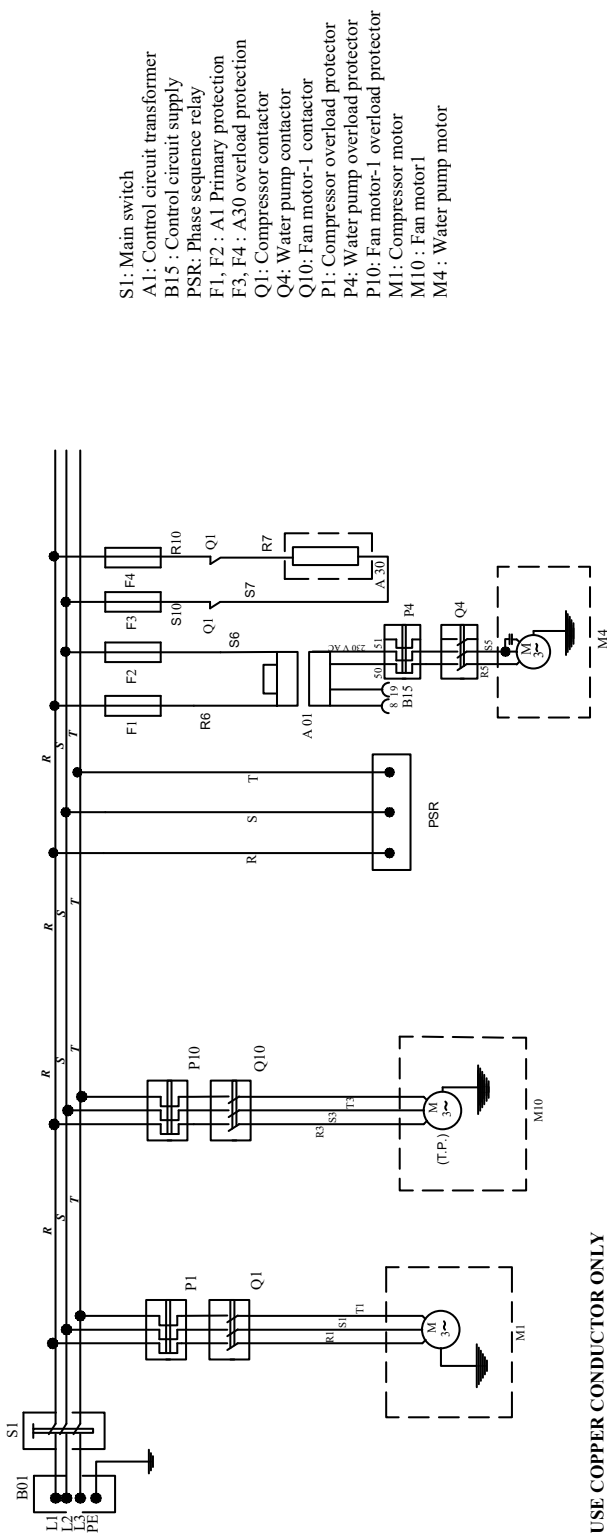
6.2 ELECTRICAL DIAGRAMS ODRC-250 to 425 (460V - 3Ph) Control

- EV3: Controller
- SP: Power supply
- B15 : Control circuit supply
- AL: Alarm contacts
- A20: Drain supply
- DR: Drain valve relay
- PSR: Phase sequence relay
- F10: Control circuit fuse
- Q1: Compressor contactor
- Q4: Water pump contactor
- Q10: Fan motor-1 contactor
- P1: Compressor overload protector
- P4: Water pump overload protector
- P10: Fan motor-1 overload protector
- K01: Compressor relay
- K30: Alarm relay
- S11: High pressure switch
- S12: Low pressure switch
- S20: High temperature switch
- S31: Fan motor thermostat (optional)
- S16: Filter service contact (optional)
- PT: Temperature sensor (NTC)
- HP indicates high pressure
- TH indicates thermal



6.2 ELECTRICAL DIAGRAMS

ODRC-250 to 425 (460V - 3Ph) Power



- S1: Main switch
- A1: Control circuit transformer
- B15: Control circuit supply
- PSR: Phase sequence relay
- F1, F2: A1 Primary protection
- F3, F4: A30 overload protection
- Q1: Compressor contactor
- Q4: Water pump contactor
- Q10: Fan motor-1 contactor
- P1: Compressor overload protector
- P4: Water pump overload protector
- P10: Fan motor-1 overload protector
- M1: Compressor motor
- M10: Fan motor1
- M4: Water pump motor

USE COPPER CONDUCTOR ONLY
AT 167 of

MAXIMUM SET: 15%

FIELD INSTALLED

MAIN PROTECTION AND DISCONNECTING MEANS SHALL BE PROVIDED BY THE INSTALLER OF RESIDUAL CURRENT AUTOMATIC CIRCUIT BREAKER

SUPPLY LINE VOLTAGE RATING - 600 VAC

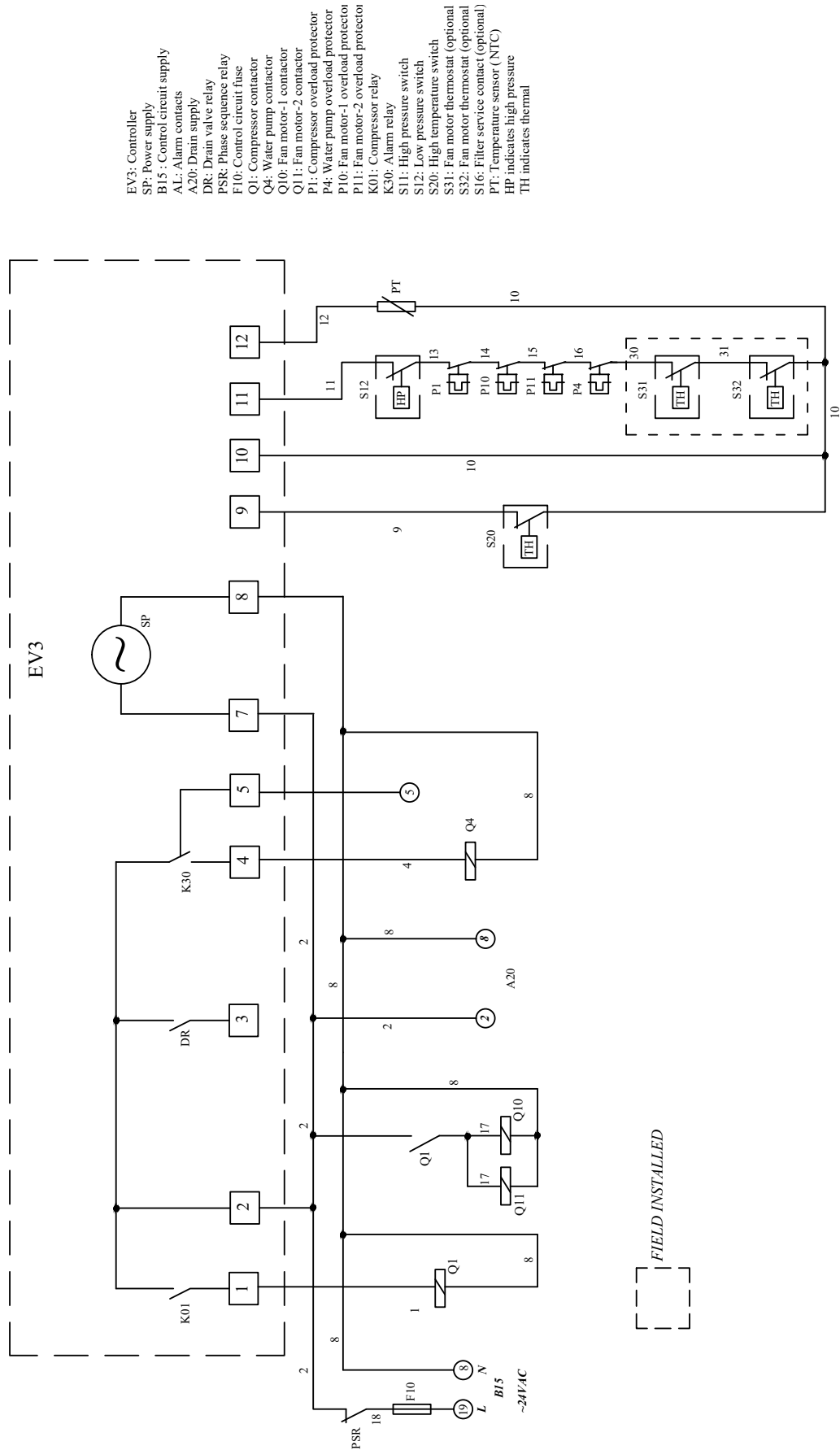
ELECTRICAL SUPPLY LINE 3 PHASE + PROTECTION EARTH	
ODRC-250	CABLES SIZE 4AWG14
ODRC-350	4AWG14
ODRC-425	4AWG14

ELECTRICAL SPECIFICATIONS

COMPRESSOR	UN 460V/3~/60HZ	ODRC-250	RLA	3.5A	1.190KW	ODRC-350	RLA	4.5A	1.550KW	ODRC-425	RLA	5.1A	1.830KW
FAN MOTOR	UN 460V/3~/60HZ	ODRC-250	RLA	0.46A	0.210kW	ODRC-350	RLA	0.46A	0.210kW	ODRC-425	RLA	0.46A	0.210kW
WATER PUMP	UN 230V/1~/60HZ	ODRC-250	RLA	0.7A	0.075kW	ODRC-350	RLA	0.7A	0.075kW	ODRC-425	RLA	0.7A	0.075kW

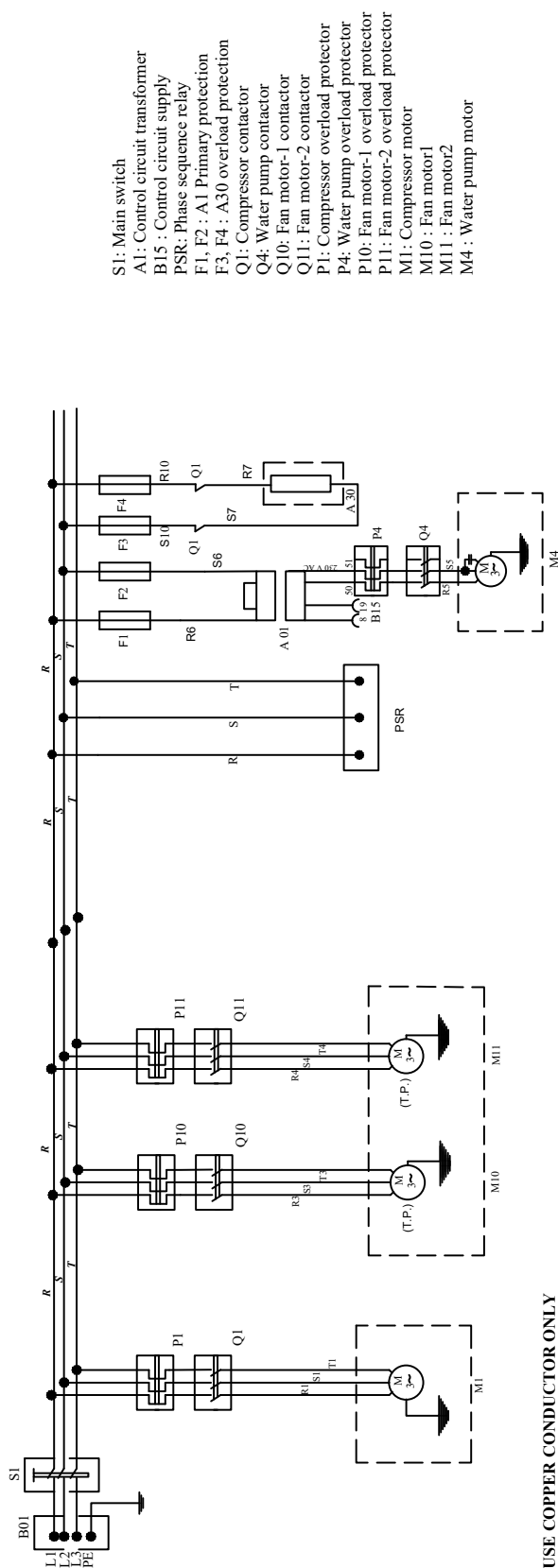
6.2 ELECTRICAL DIAGRAMS

ODRC-550 to ODRC-2750 (460V - 3Ph) Control



6.2 ELECTRICAL DIAGRAMS

ODRC-550 to ODRC-2750 (460V - 3Ph) Power



- SI: Main switch
- A1: Control circuit transformer
- B15 : Control circuit supply
- PSR: Phase sequence relay
- F1, F2 : A1 Primary protection
- F3, F4 : A30 overload protection
- Q1: Compressor contactor
- Q4: Water pump contactor
- Q10: Fan motor-1 contactor
- Q11: Fan motor-2 contactor
- P1: Compressor overload protector
- P4: Water pump overload protector
- P10: Fan motor-1 overload protector
- P11: Fan motor-2 overload protector
- M1: Compressor motor
- M10 : Fan motor1
- M11 : Fan motor2
- M4 : Water pump motor

USE COPPER CONDUCTOR ONLY
AT 167 °F

MAXIMUM SET: 15%

FIELD INSTALLED

MAIN PROTECTION AND DISCONNECTING MEANS SHALL BE PROVIDED BY
THE INSTALLER OF RESIDUAL CURRENT AUTOMATIC CIRCUIT BREAKER

SUPPLY LINE VOLTAGE RATING - 600 VAC

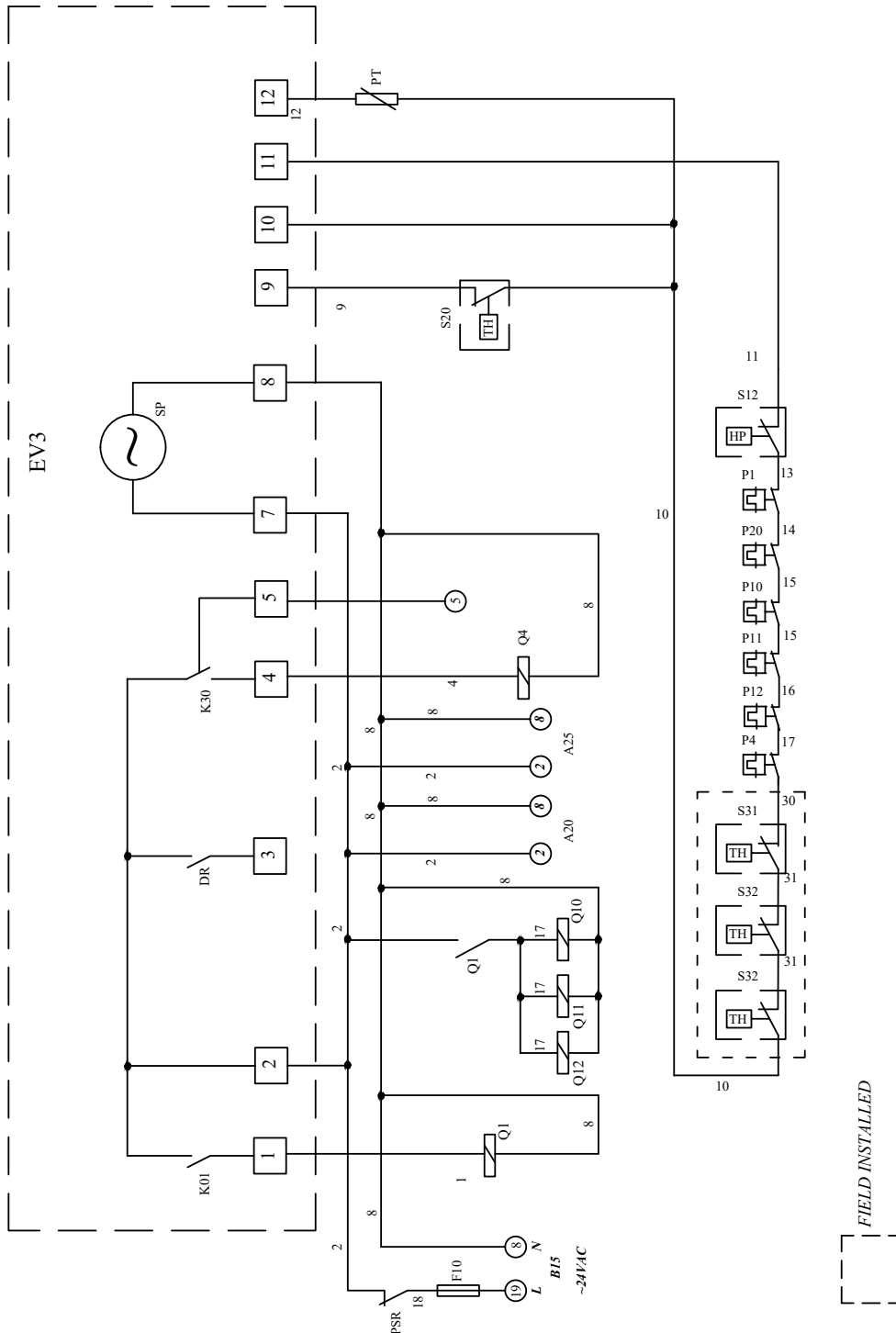
ELECTRICAL SUPPLY LINE 3 PHASE + PROTECTION EARTH	CABLES SIZE
ODRC-550	4AWG14
ODRC 700-900	4AWG14
ODRC-1100	4AWG14
ODRC-1350	4AWG14
ODRC-1500	4AWG14
ODRC-2000	4AWG14
ODRC-2350	4AWG14
ODRC-2750	4AWG14

ELECTRICAL SPECIFICATIONS

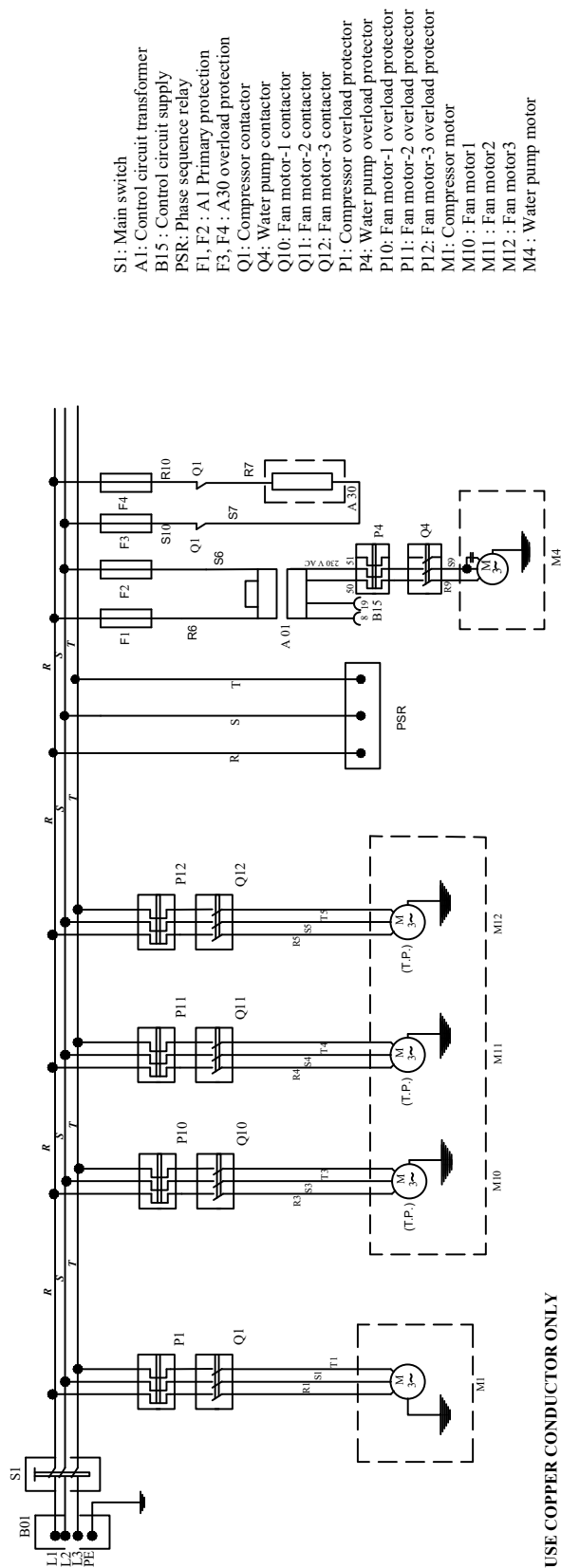
COMPRESSOR	FAN MOTOR	WATER PUMP
UN 460V/3~/60Hz	UN 460V/3~/60Hz	UN 230V/1~/60Hz
ODRC-550 RLA 7.1A 2.450kW	ODRC-550 RLA 0.46A 0.210kW (x2)	ODRC-550 RLA 0.7A 0.075kW
ODRC-700 RLA 9A 2.860kW	ODRC-700 RLA 0.46A 0.210kW (x2)	ODRC-700 RLA 0.7A 0.075kW
ODRC-900 RLA 9A 2.900kW	ODRC-900 RLA 0.74A 0.350kW (x2)	ODRC-900 RLA 0.95A 0.12kW
ODRC-1100 RLA 11.5A 4.670kW	ODRC-1100 RLA 0.74A 0.350kW (x2)	ODRC-1100 RLA 0.95A 0.12kW
ODRC-1350 RLA 14.1A 5.260kW	ODRC-1350 RLA 1.15A 0.660kW (x2)	ODRC-1350 RLA 0.95A 0.12kW
ODRC-1500 RLA 17.9A 6.190kW	ODRC-1500 RLA 1.15A 0.660kW (x2)	ODRC-1500 RLA 0.95A 0.12kW
ODRC-2000 RLA 22.4A 7.810kW	ODRC-2000 RLA 0.95A 0.550kW (x2)	ODRC-2000 RLA 0.95A 0.12kW

6.2 ELECTRICAL DIAGRAMS ODRC-3000 (460V - 3Ph) Control

- EV3: Controller
- SP: Power supply
- B15: Control circuit supply
- AL: Alarm contacts
- A20: Drain supply
- A25: Compressor heat thermal supp
- DR: Drain valve relay
- PSR: Phase sequence relay
- F10: Control circuit fuse
- Q1: Compressor contactor
- Q4: Water pump contactor
- Q10: Fan motor-1 contactor
- Q11: Fan motor-2 contactor
- Q12: Fan motor-3 contactor
- P1: Compressor overload protector
- P20: Compressor thermal protector
- P4: Water pump overload protector
- P10: Fan motor-1 overload protector
- P11: Fan motor-2 overload protector
- P12: Fan motor-3 overload protector
- K01: Compressor relay
- K30: Alarm relay
- S11: High pressure switch
- S20: Low pressure switch
- S20: High temperature switch
- S31: Fan motor thermostat (optional)
- S32: Fan motor thermostat (optional)
- S16: Filter service contact (optional)
- PT: Temperature sensor (NTC)
- HP: indicates high pressure
- TH indicates thermal



6.2 ELECTRICAL DIAGRAMS ODRC-3000 (460V - 3Ph) Power



- S1: Main switch
- A1: Control circuit transformer
- B15: Control circuit supply
- PSR: Phase sequence relay
- F1, F2: A1 Primary protection
- F3, F4: A30 overload protection
- Q1: Compressor contactor
- Q4: Water pump contactor
- Q10: Fan motor-1 contactor
- Q11: Fan motor-2 contactor
- Q12: Fan motor-3 contactor
- P1: Compressor overload protector
- P4: Water pump overload protector
- P10: Fan motor-1 overload protector
- P11: Fan motor-2 overload protector
- P12: Fan motor-3 overload protector
- M1: Compressor motor
- M10: Fan motor1
- M11: Fan motor2
- M12: Fan motor3
- M4: Water pump motor

USE COPPER CONDUCTOR ONLY
AT 167 of

MAXIMUM SET: 15%

FIELD INSTALLED

MAIN PROTECTION AND DISCONNECTING MEANS SHALL BE PROVIDED BY
THE INSTALLER OF RESIDUAL CURRENT AUTOMATIC CIRCUIT BREAKER
SUPPLY LINE VOLTAGE RATING - 600 VAC

ELECTRICAL SUPPLY LINE 3 PHASE + PROTECTION EARTH	CABLES SIZE 4AWG14
ODRC-3000	

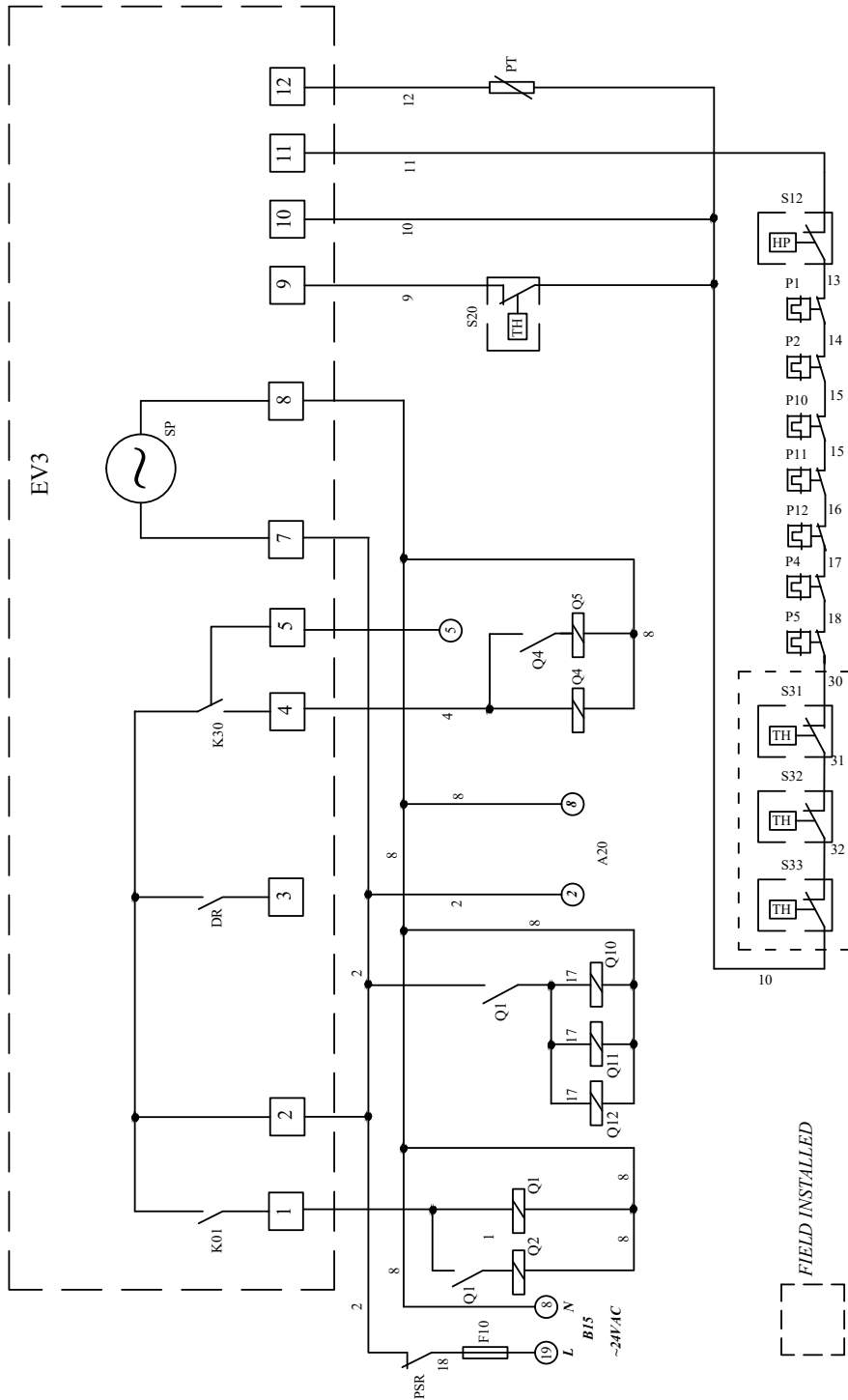
ELECTRICAL SPECIFICATIONS

COMPRESSOR UN 460V/3~/60Hz ODRC-3000 RLA 30.1A 12.450kW	FAN MOTOR UN 460V/3~/60Hz ODRC-3000 RLA 0.95A 0.550kW (x3)	WATER PUMP UN 230V/1~/60Hz ODRC-3000 RLA 0.95A 0.12kW
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6.2 ELECTRICAL DIAGRAMS

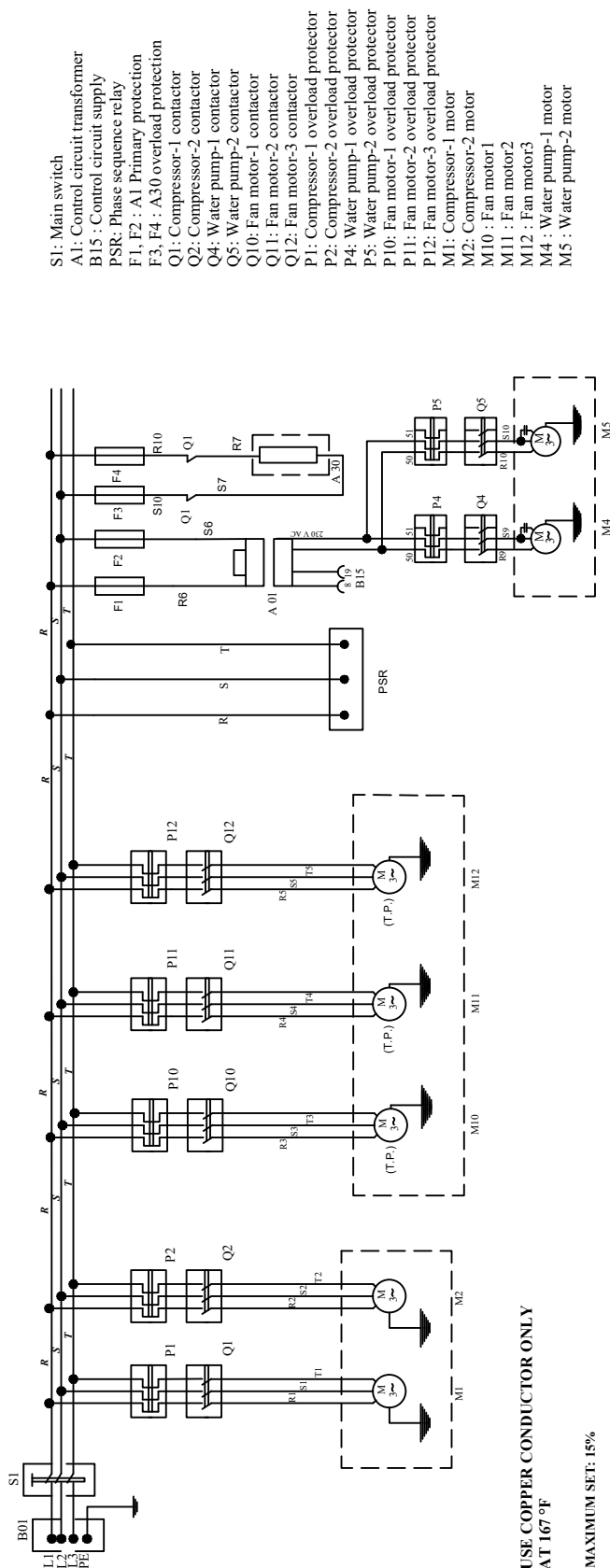
ODRC-3600 to 4000 (460V - 3Ph) Control

- EV3: Controller
- SP: Power supply
- B15 : Control circuit supply
- AL: Alarm contacts
- A20: Drain supply
- DR: Drain valve relay
- PSR: Phase sequence relay
- F10: Control circuit fuse
- Q1: Compressor contactor
- Q4: Water pump-1 contactor
- Q5: Water pump-2 contactor
- Q10: Fan motor-1 contactor
- Q11: Fan motor-2 contactor
- Q12: Fan motor-3 contactor
- P1: Compressor-1 overload protector
- P2: Compressor-2 overload protector
- P4: Water pump-1 overload protector
- P5: Water pump-2 overload protector
- P10: Fan motor-1 overload protector
- P11: Fan motor-2 overload protector
- P12: Fan motor-3 overload protector
- K01: Compressor relay
- K30: Alarm relay
- S11: High pressure switch
- S20: Low pressure switch
- S20: High temperature switch
- S31: Fan motor thermostat (optional)
- S32: Fan motor thermostat (optional)
- S33: Fan motor thermostat (optional)
- S16: Filter service contact (optional)
- PT: Temperature sensor (NTC)
- HP indicates high pressure
- TH indicates thermal



6.2 ELECTRICAL DIAGRAMS

ODRC-3600 to 4000 (460V - 3Ph) Power



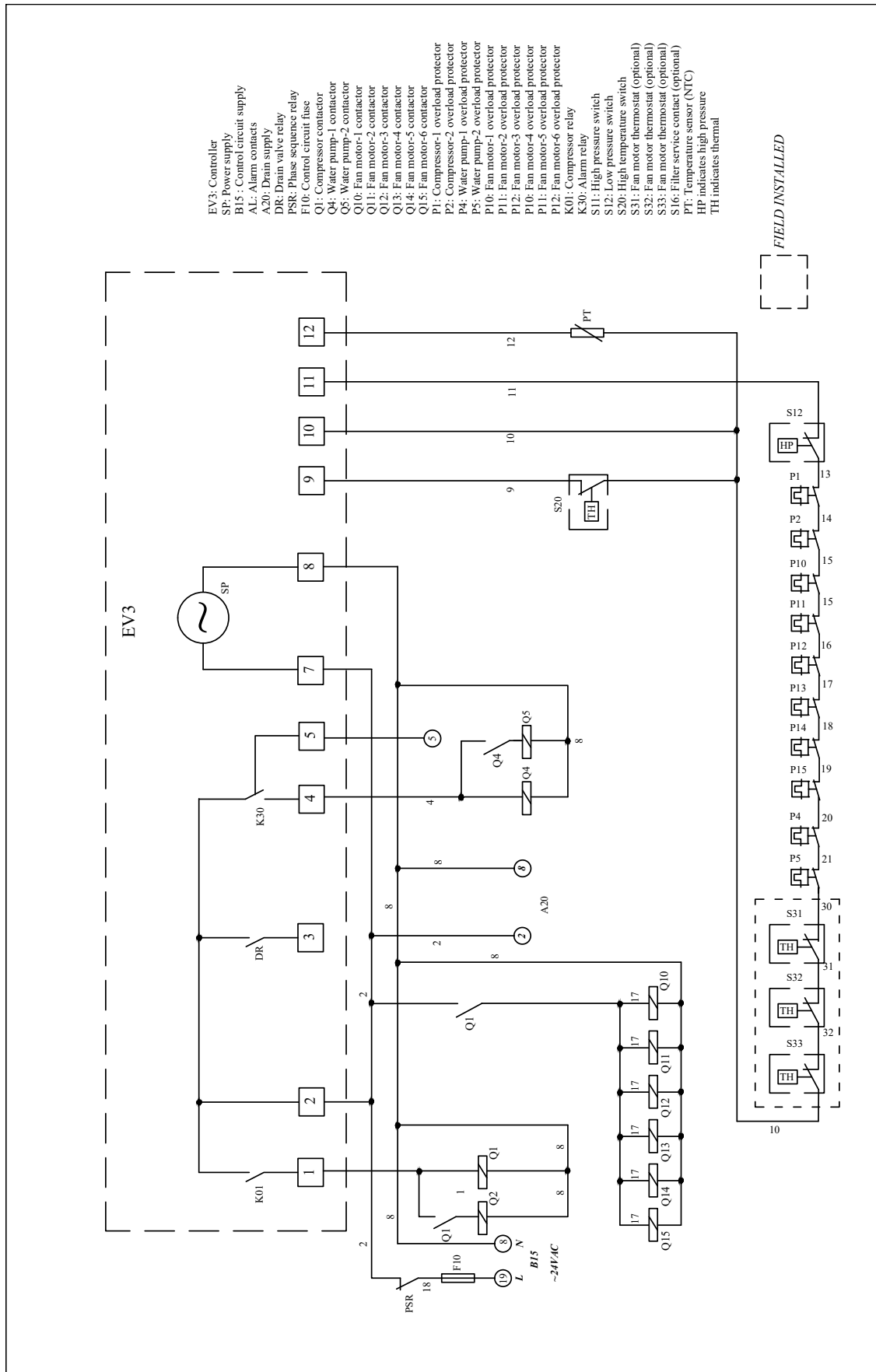
MAIN PROTECTION AND DISCONNECTING MEANS SHALL BE PROVIDED BY THE INSTALLER OF RESIDUAL CURRENT AUTOMATIC CIRCUIT BREAKER
SUPPLY LINE VOLTAGE RATING - 600 VAC

ELECTRICAL SUPPLY LINE 3 PHASE + PROTECTION EARTH	CABLES SIZE 4AWG14 4AWG14
ODRC-3600	
ODRC-4000	

ELECTRICAL SPECIFICATIONS

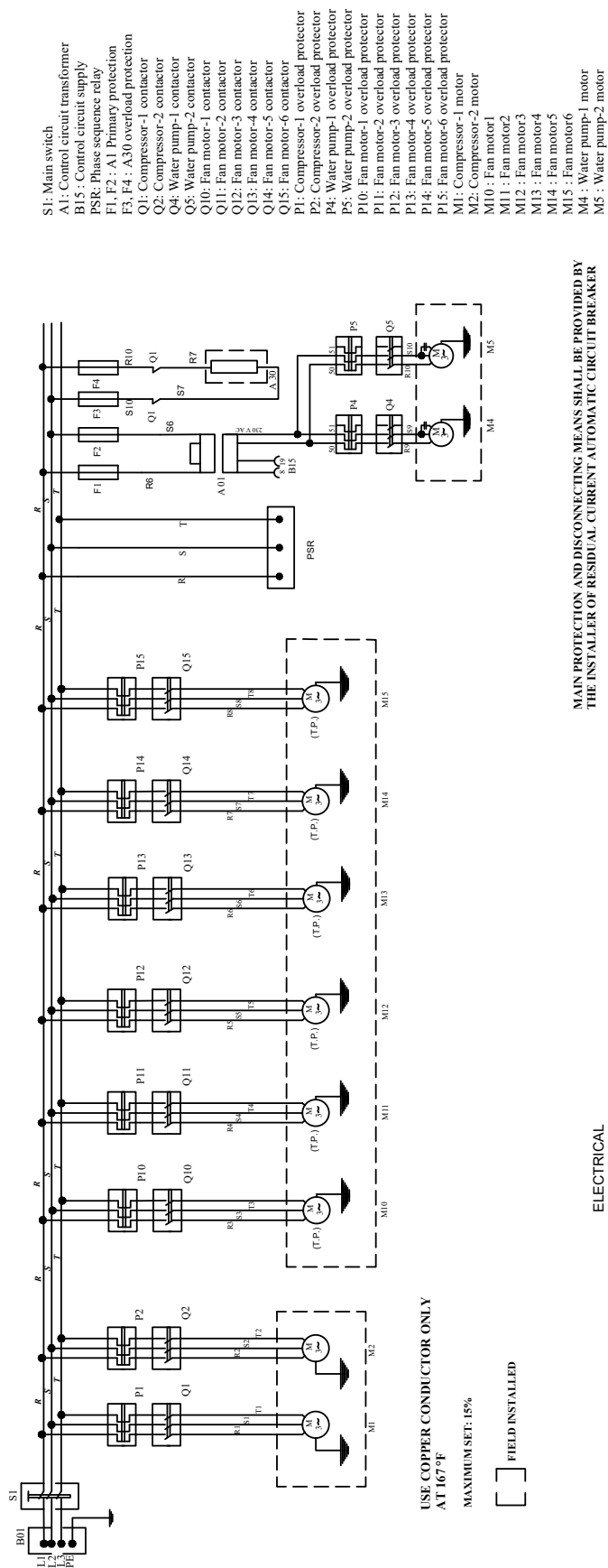
COMPRESSOR	FAN MOTOR	WATER PUMP
UN 460V/3~60Hz	UN 460V/3~60Hz	UN 230V/1~60Hz
ODRC-3600 RLA 22.4A 7.810kW (x2)	ODRC-3600 RLA 0.95A 0.12kW (x3)	ODRC-3600 RLA 0.95A 0.12kW (x2)
ODRC-4000 RLA 22.4A 7.860kW (x2)	ODRC-4000 RLA 0.95A 0.550kW (x3)	ODRC-4000 RLA 0.95A 0.12kW (x2)

6.2 ELECTRICAL DIAGRAMS ODRC-5000 (460V - 3Ph) Control



6.2 ELECTRICAL DIAGRAMS

ODRC-5000 (460V - 3Ph) Power



MAIN PROTECTION AND DISCONNECTING MEANS SHALL BE PROVIDED BY THE INSTALLER OF RESIDUAL CURRENT AUTOMATIC CIRCUIT BREAKER

ELECTRICAL SPECIFICATIONS

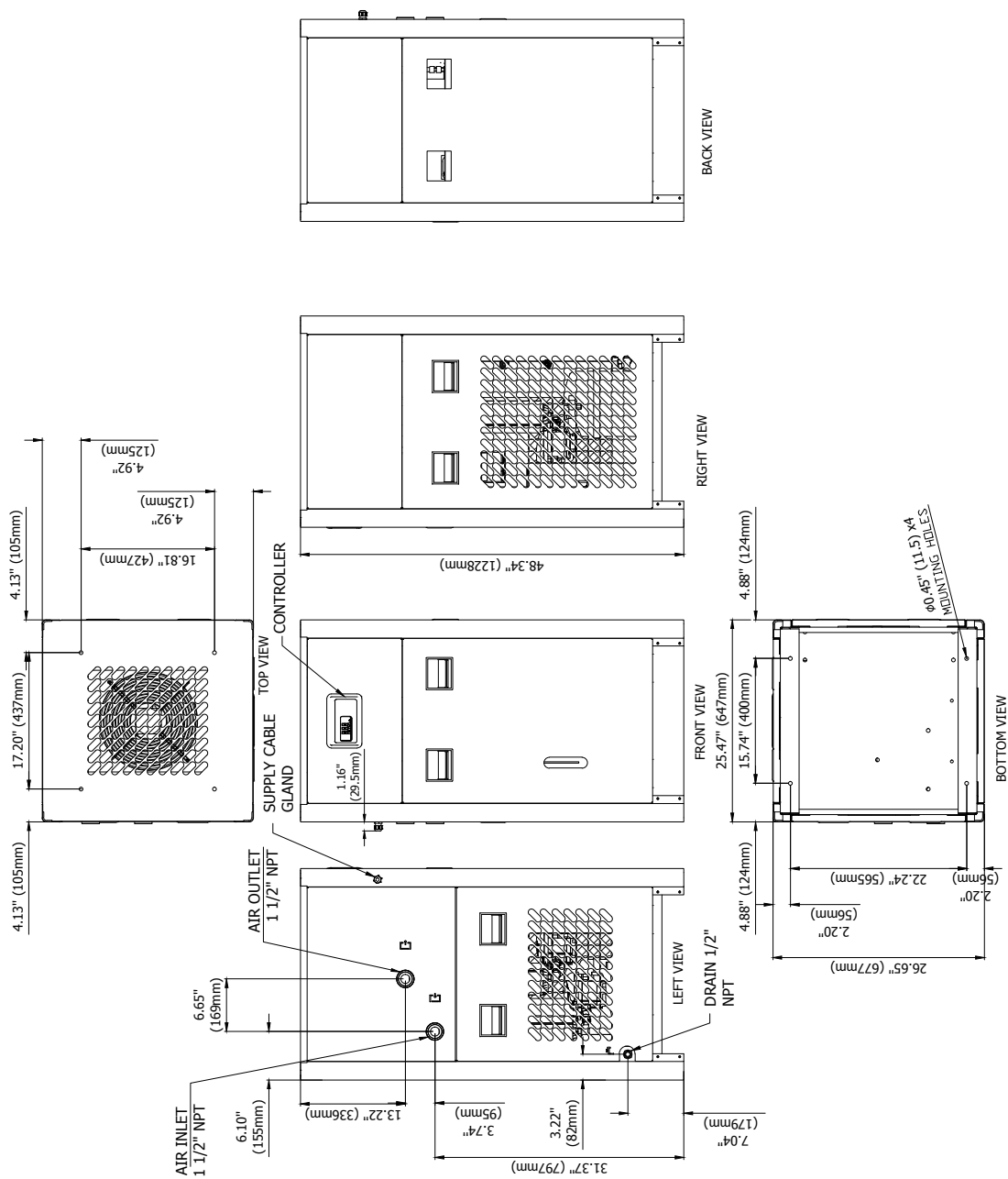
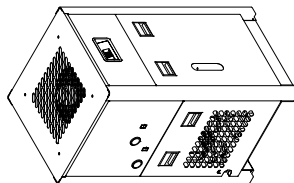
COMPRESSOR UN 460V/3~60Hz ODRC-5000 RLA 26.9A 9.330kW (x2)	FAN MOTOR UN 460V/3~60Hz ODRC-5000 RLA 0.95A 0.550kW (x6)	WATER PUMP UN 230V/1~60Hz ODRC-5000 RLA 0.95A 0.12kW (x2)
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ELECTRICAL SUPPLY LINE 3 PHASE + PROTECTION EARTH	CABLES SIZE 4AWG14
ODRC-5000	

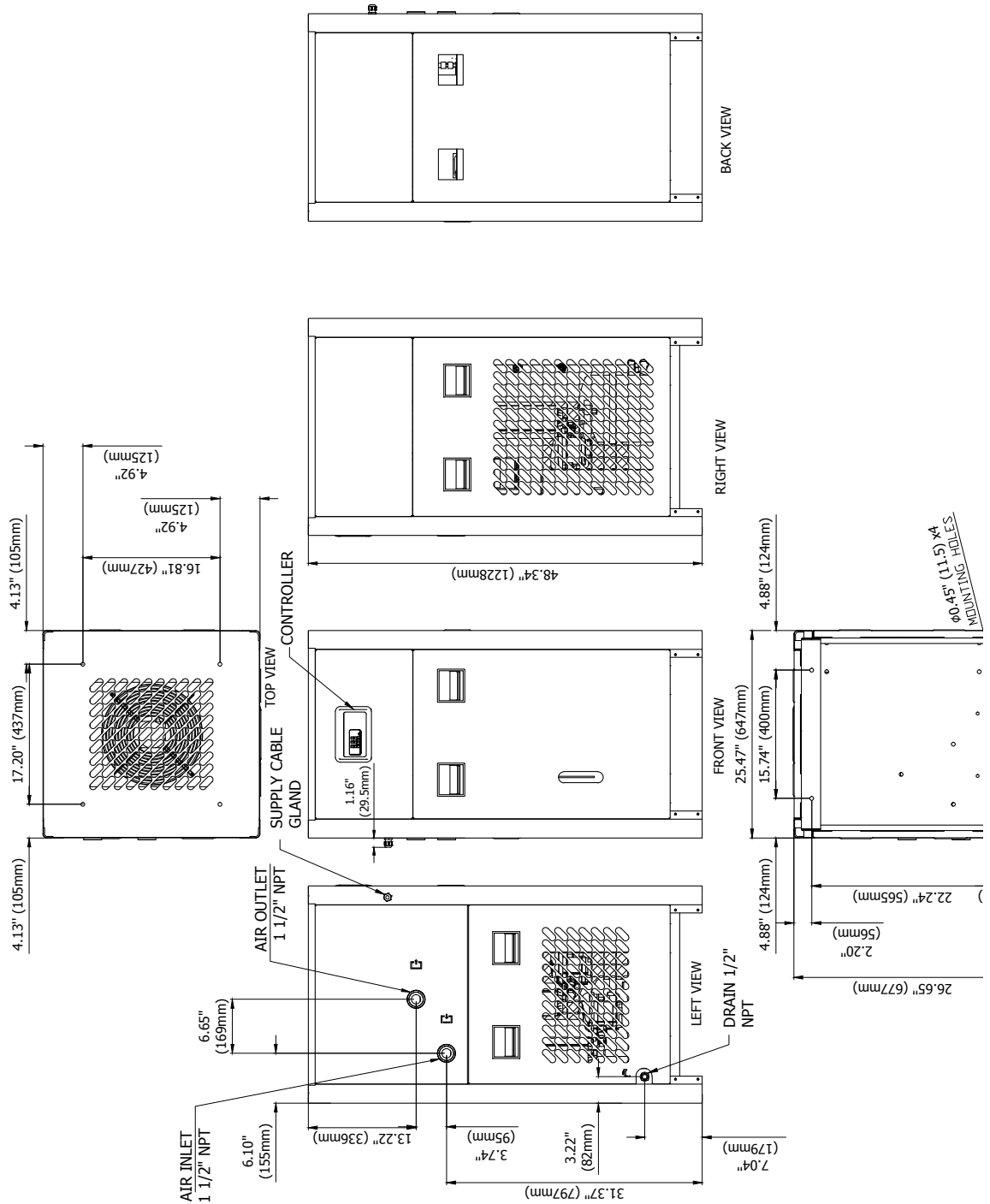
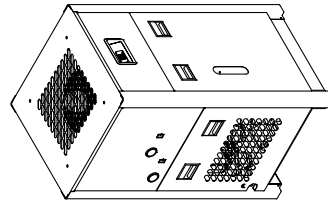
6.3 ODRC

ID DIAGRAM DRAWINGS & GENERAL ARRANGEMENTS

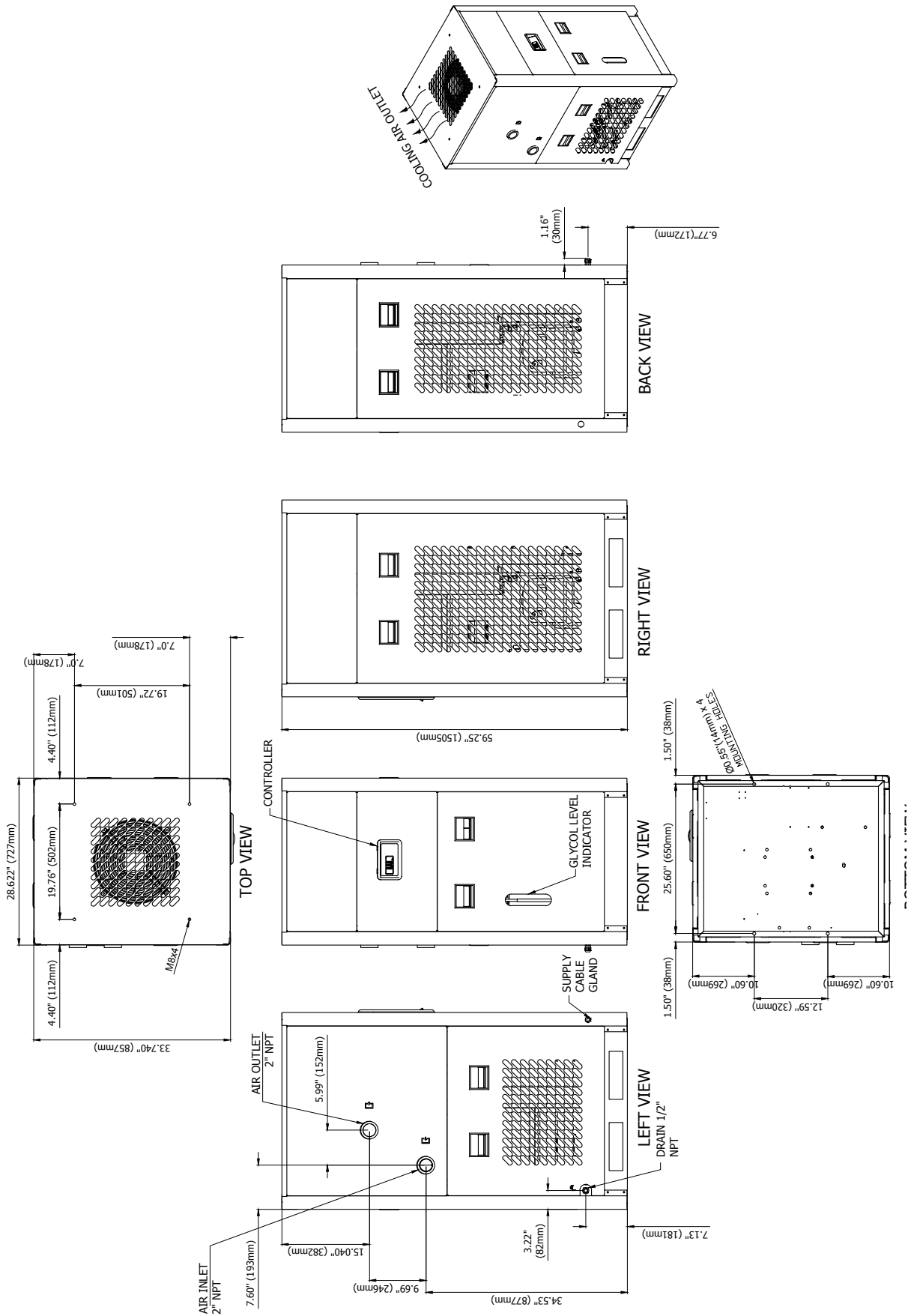
6.3 ID DIAGRAM DRAWINGS ODRC-100



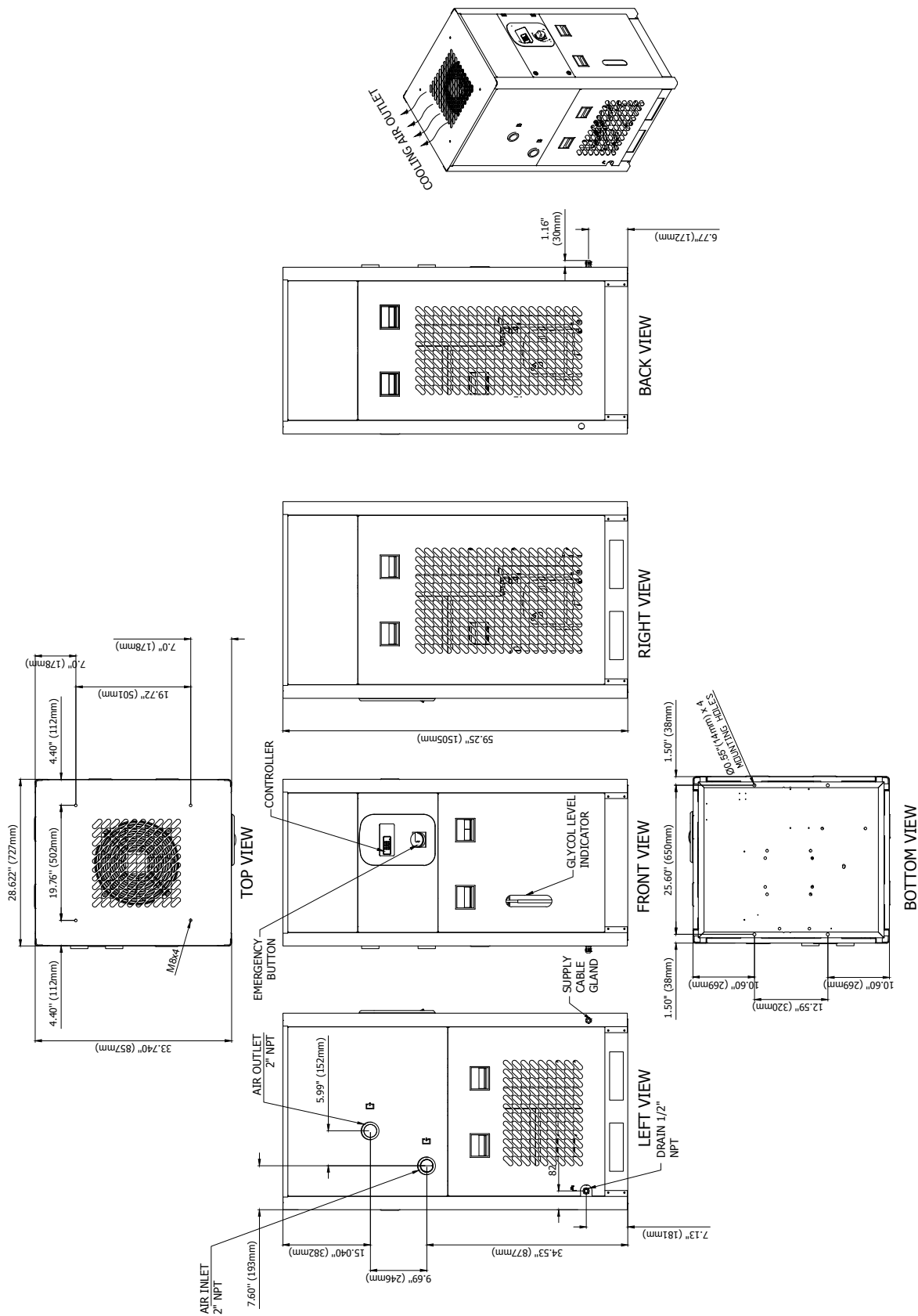
6.3 ID DIAGRAM DRAWINGS ODRC-125



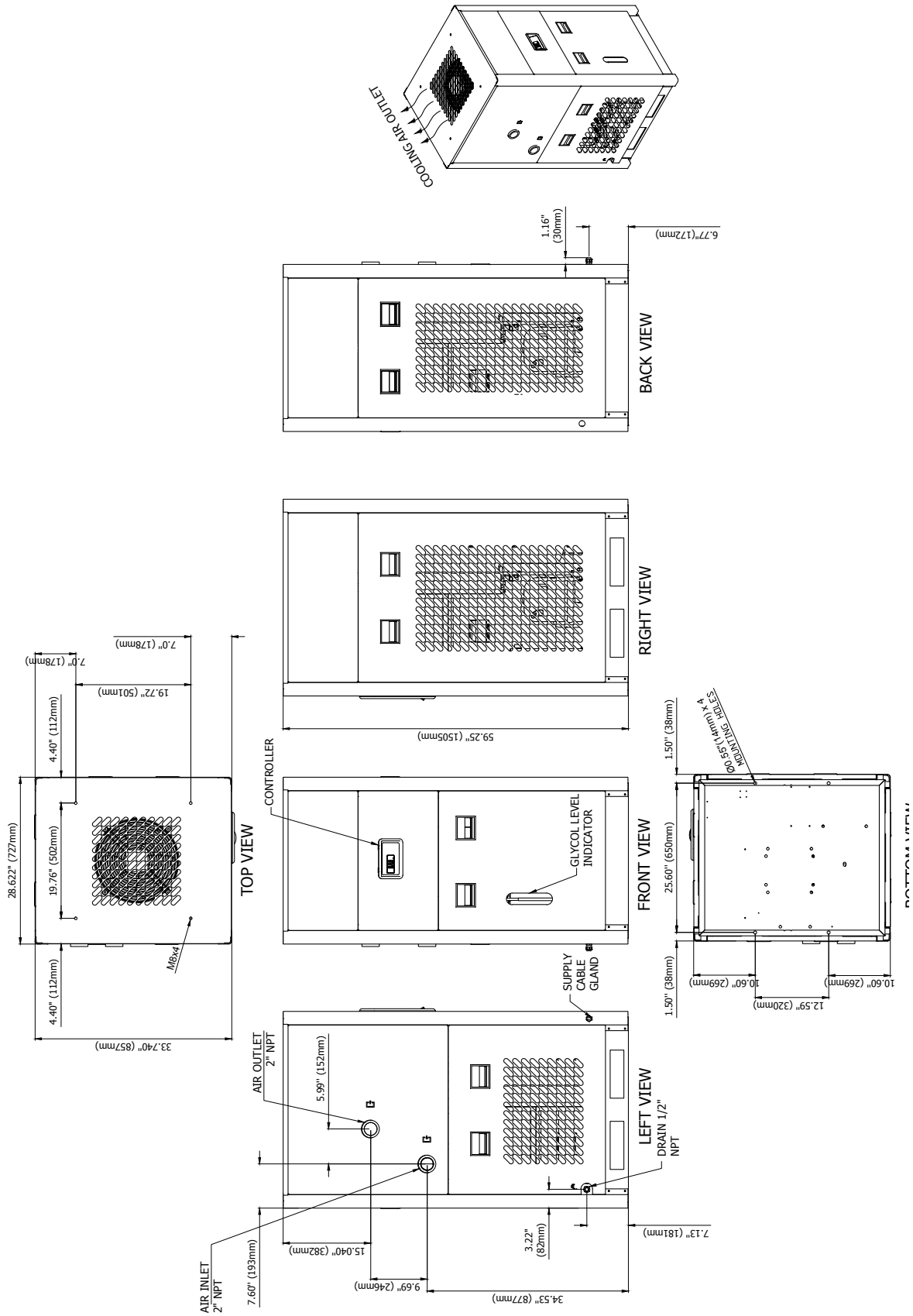
6.3 ID DIAGRAM DRAWINGS ODRC-175 (1Ph)



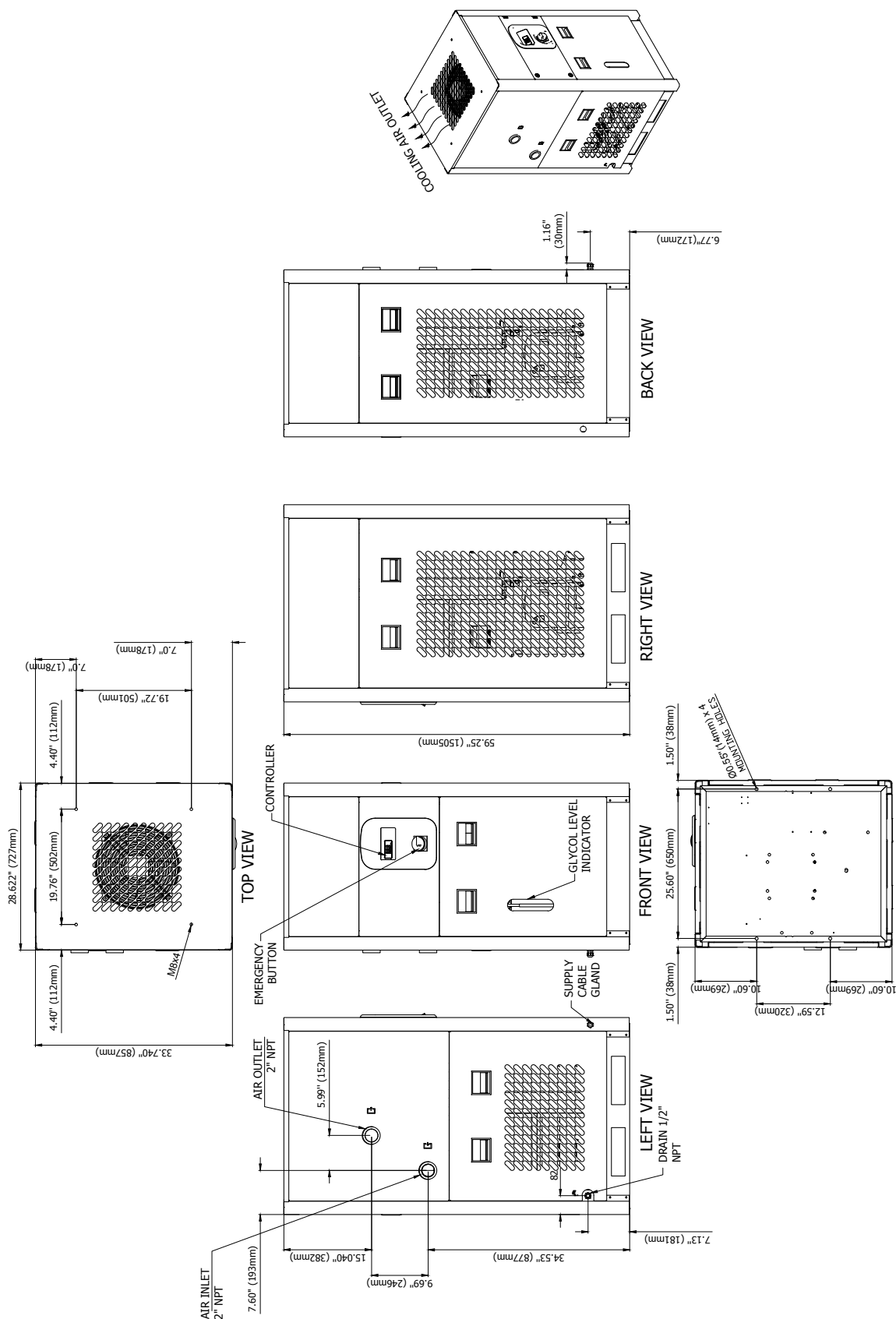
6.3 ID DIAGRAM DRAWINGS ODRC-175 (3Ph)



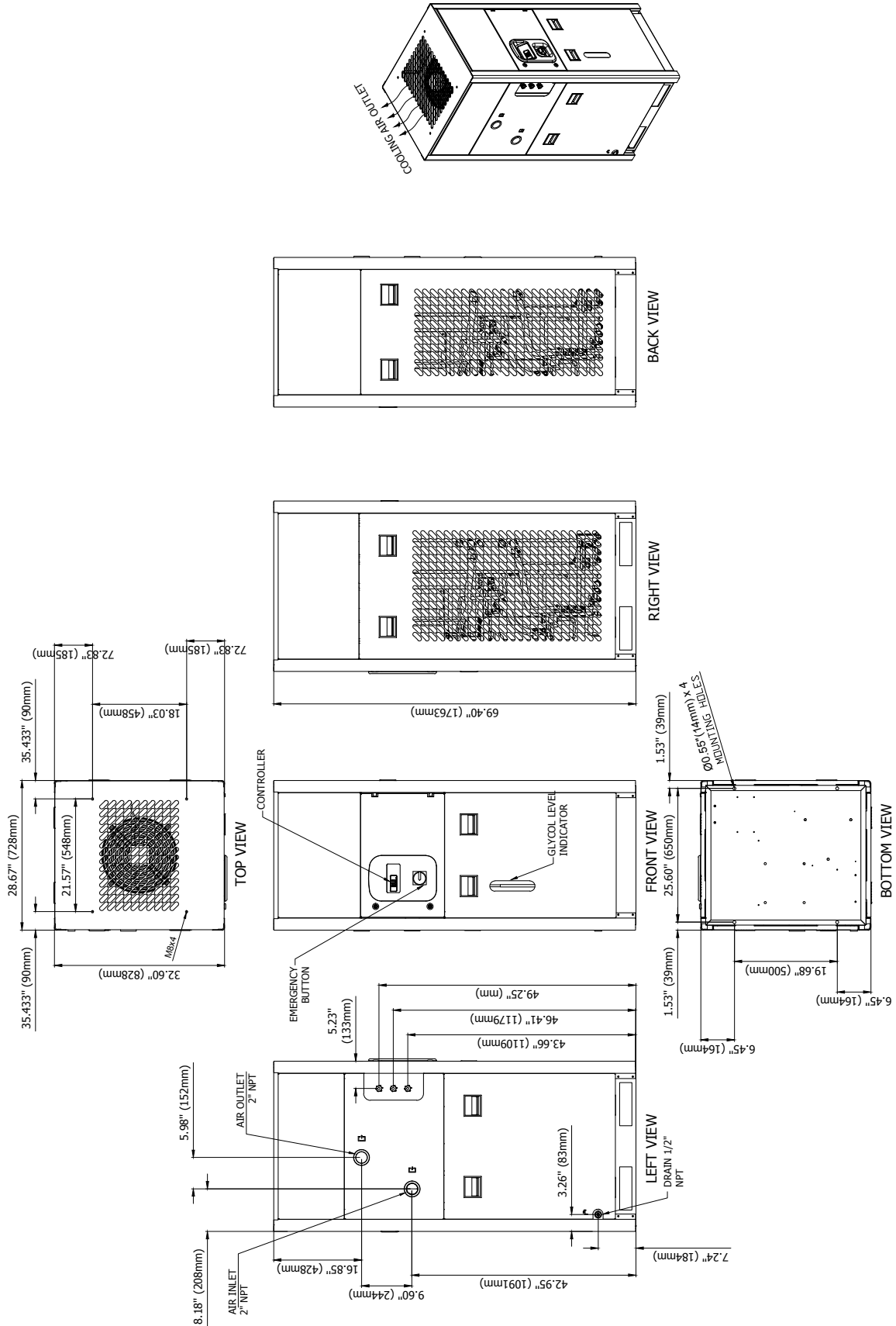
6.3 ID DIAGRAM DRAWINGS ODRC-200 (1Ph)



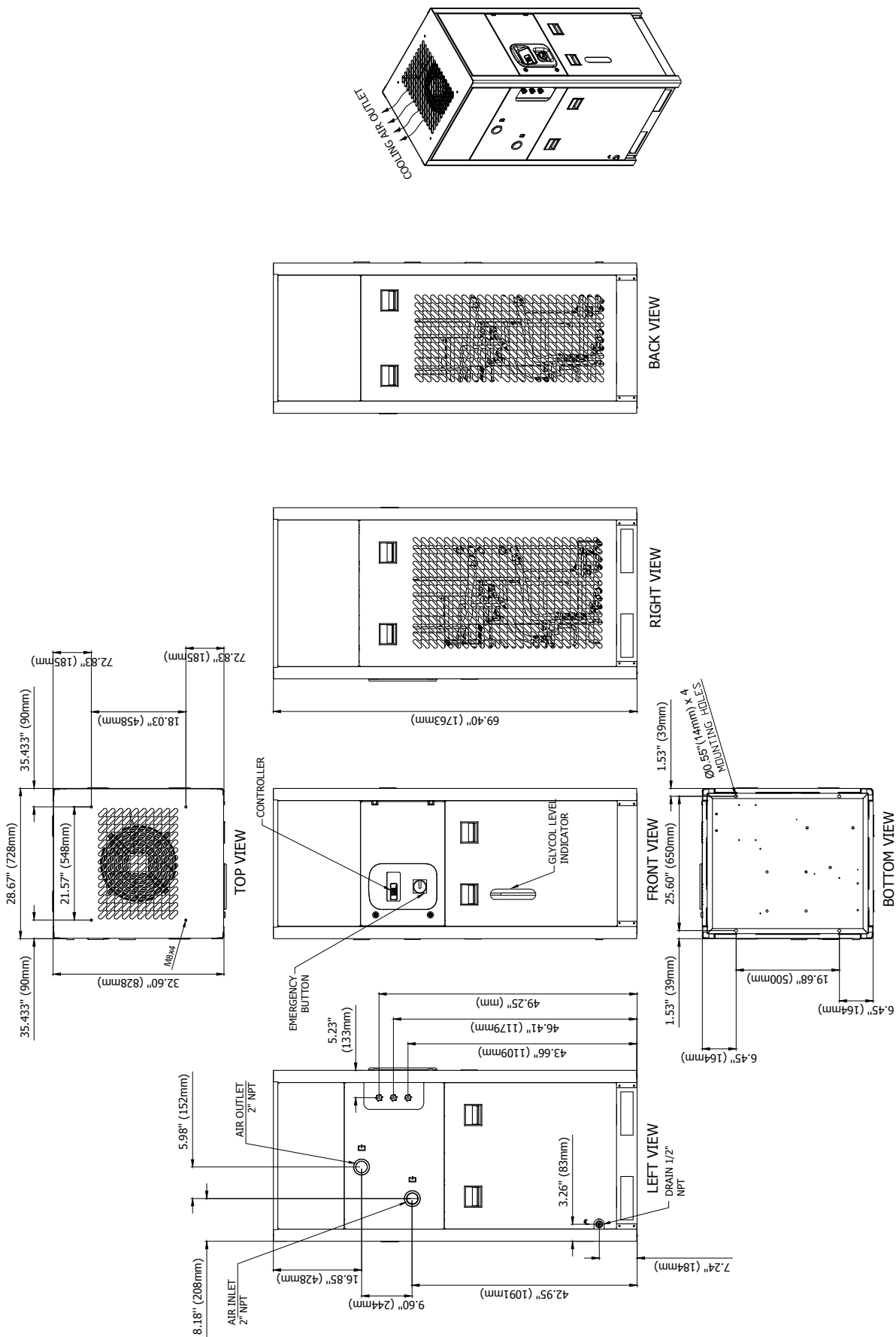
6.3 ID DIAGRAM DRAWINGS ODRC-200 (3Ph)



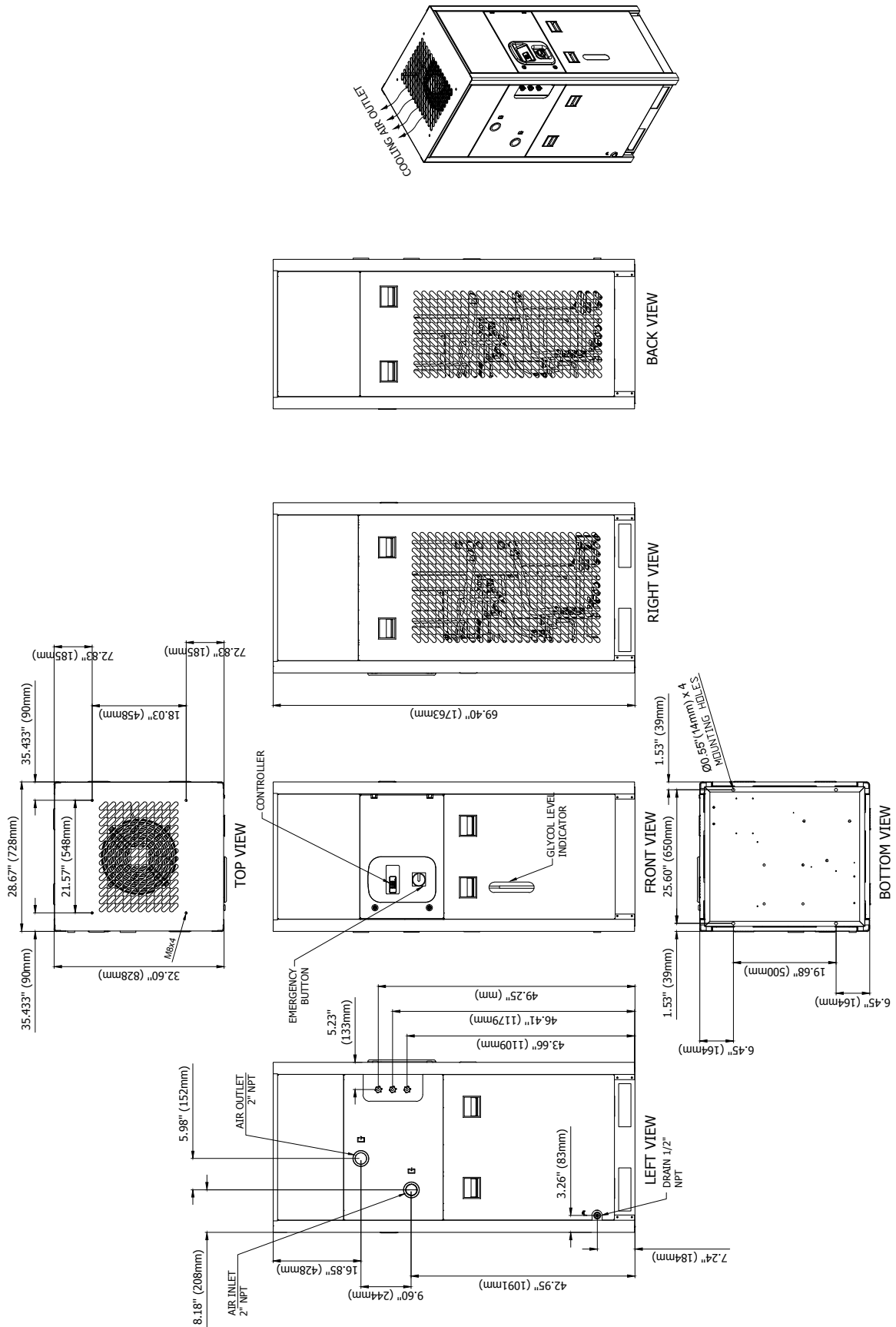
6.3 ID DIAGRAM DRAWINGS ODRC-250



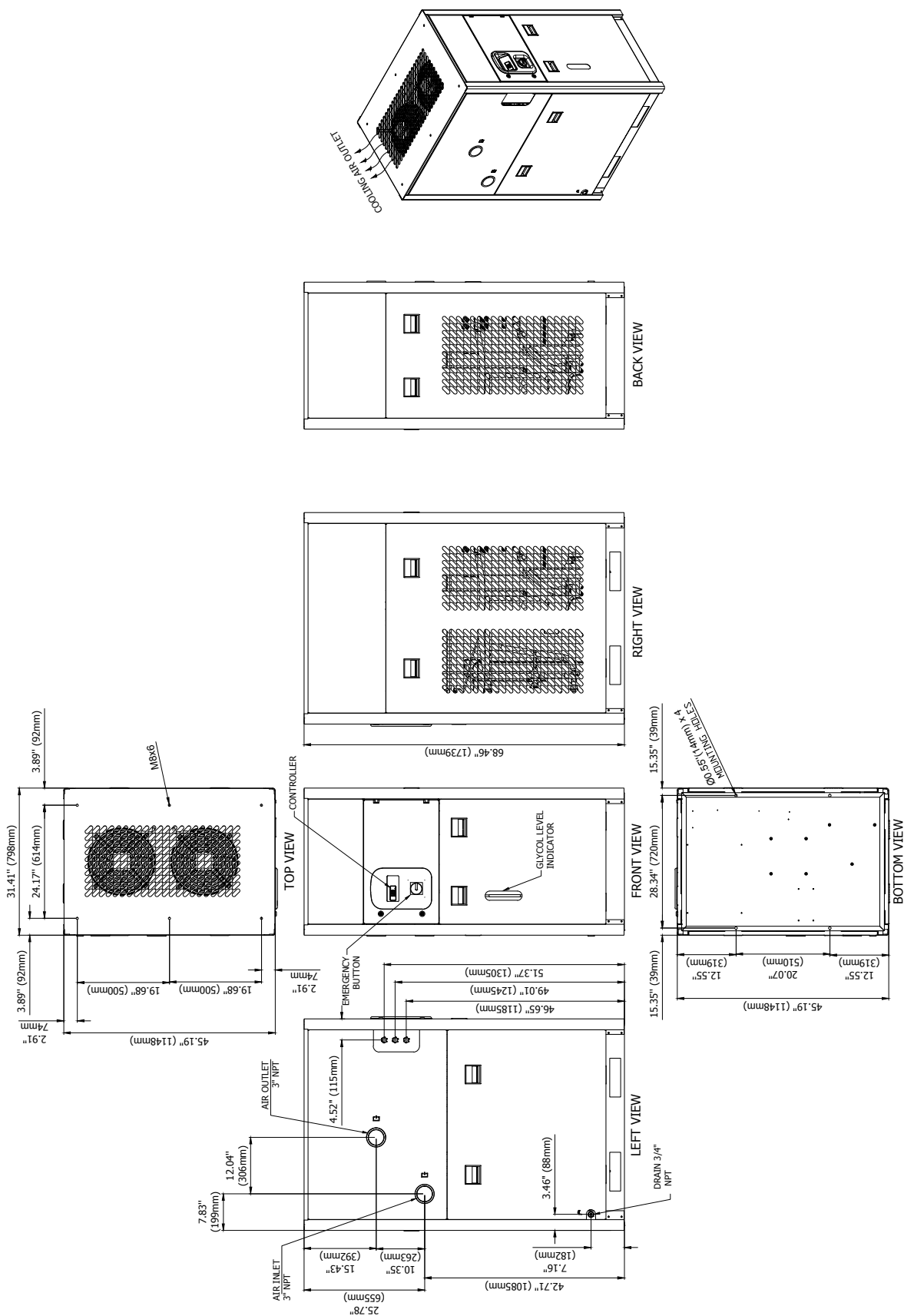
6.3 ID DIAGRAM DRAWINGS ODRC-350



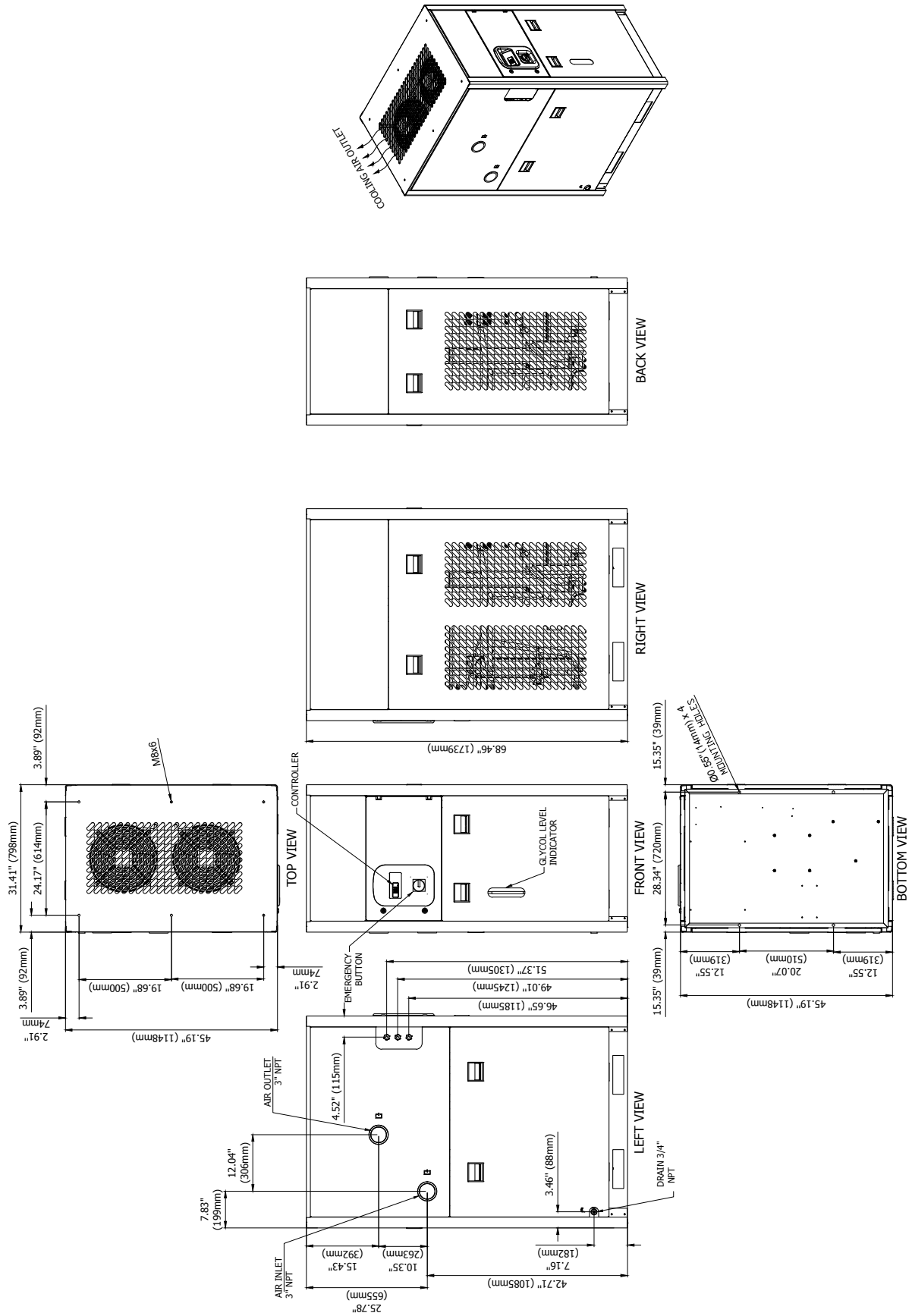
6.3 ID DIAGRAM DRAWINGS ODRC-425



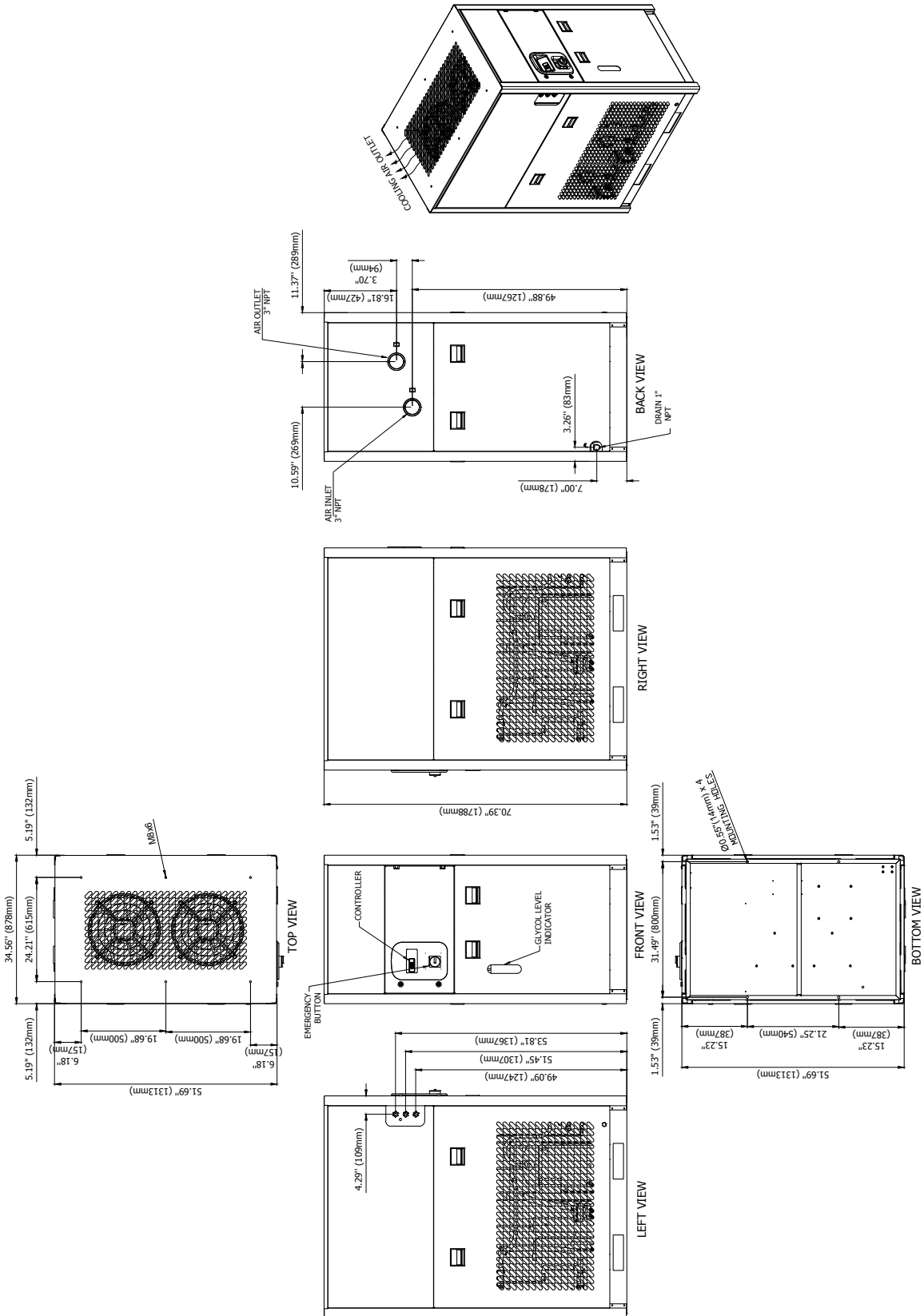
6.3 ID DIAGRAM DRAWINGS ODRC-550



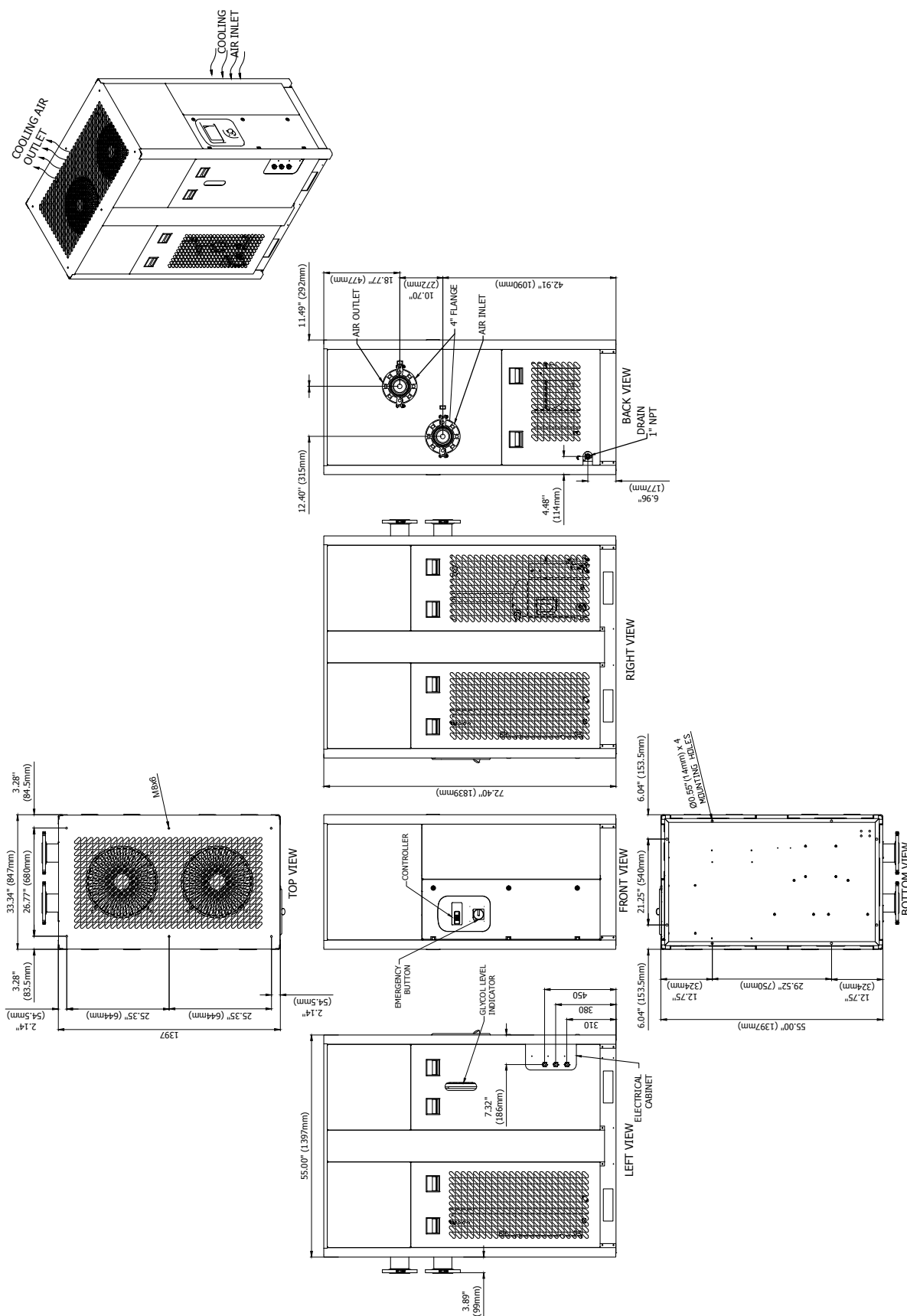
6.3 ID DIAGRAM DRAWINGS ODRC-700



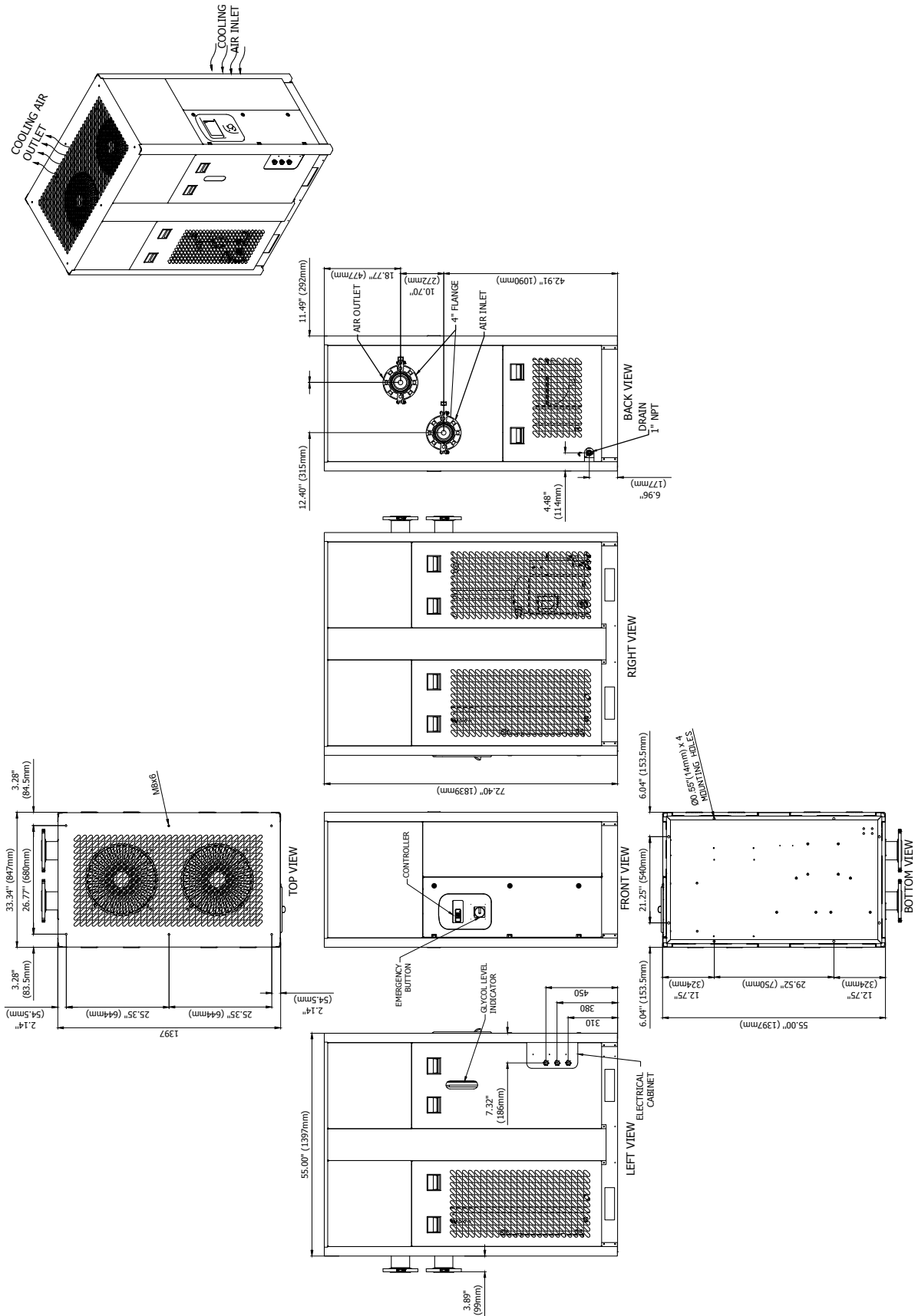
6.3 ID DIAGRAM DRAWINGS ODRC-1100



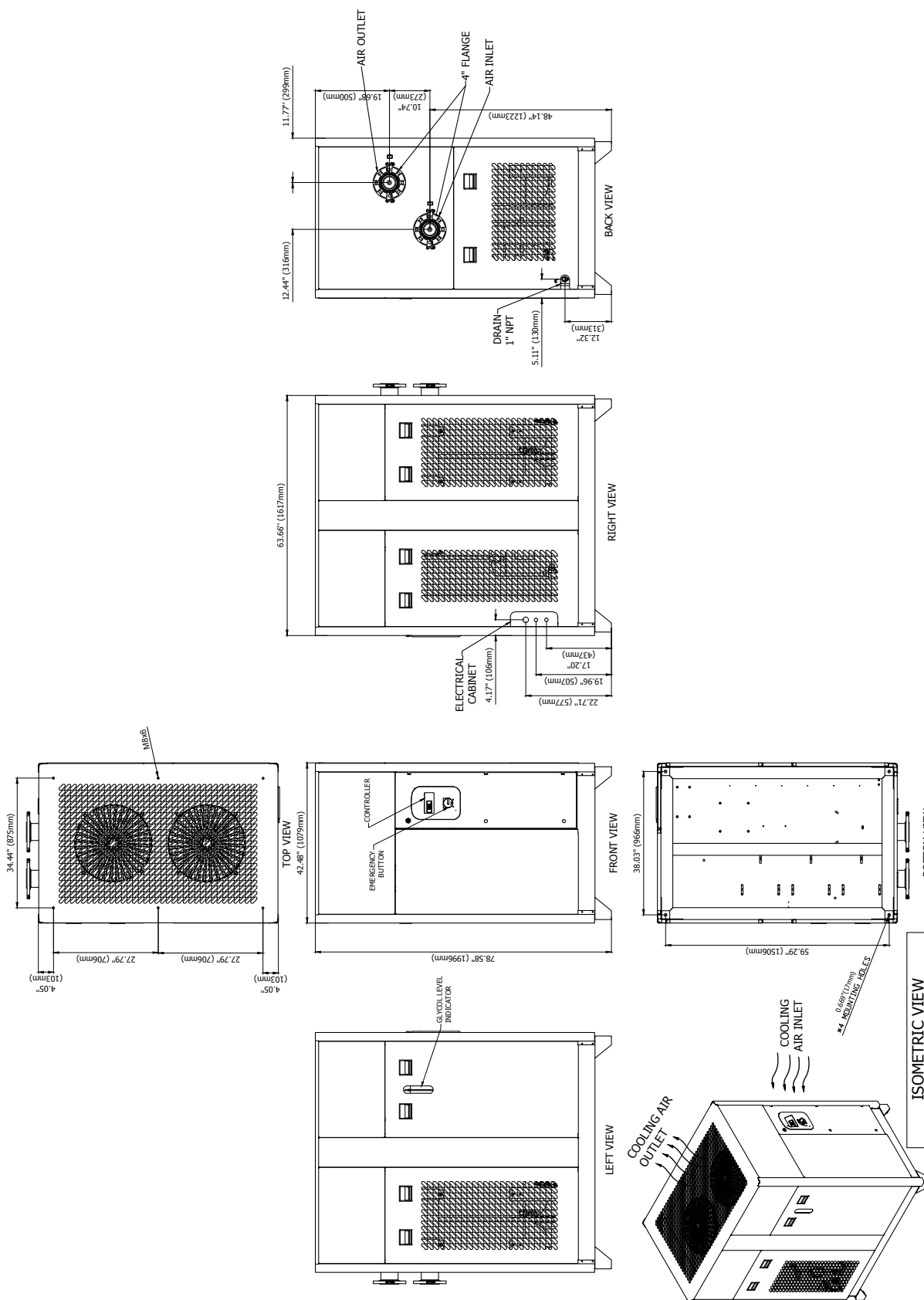
6.3 ID DIAGRAM DRAWINGS ODRC-1350



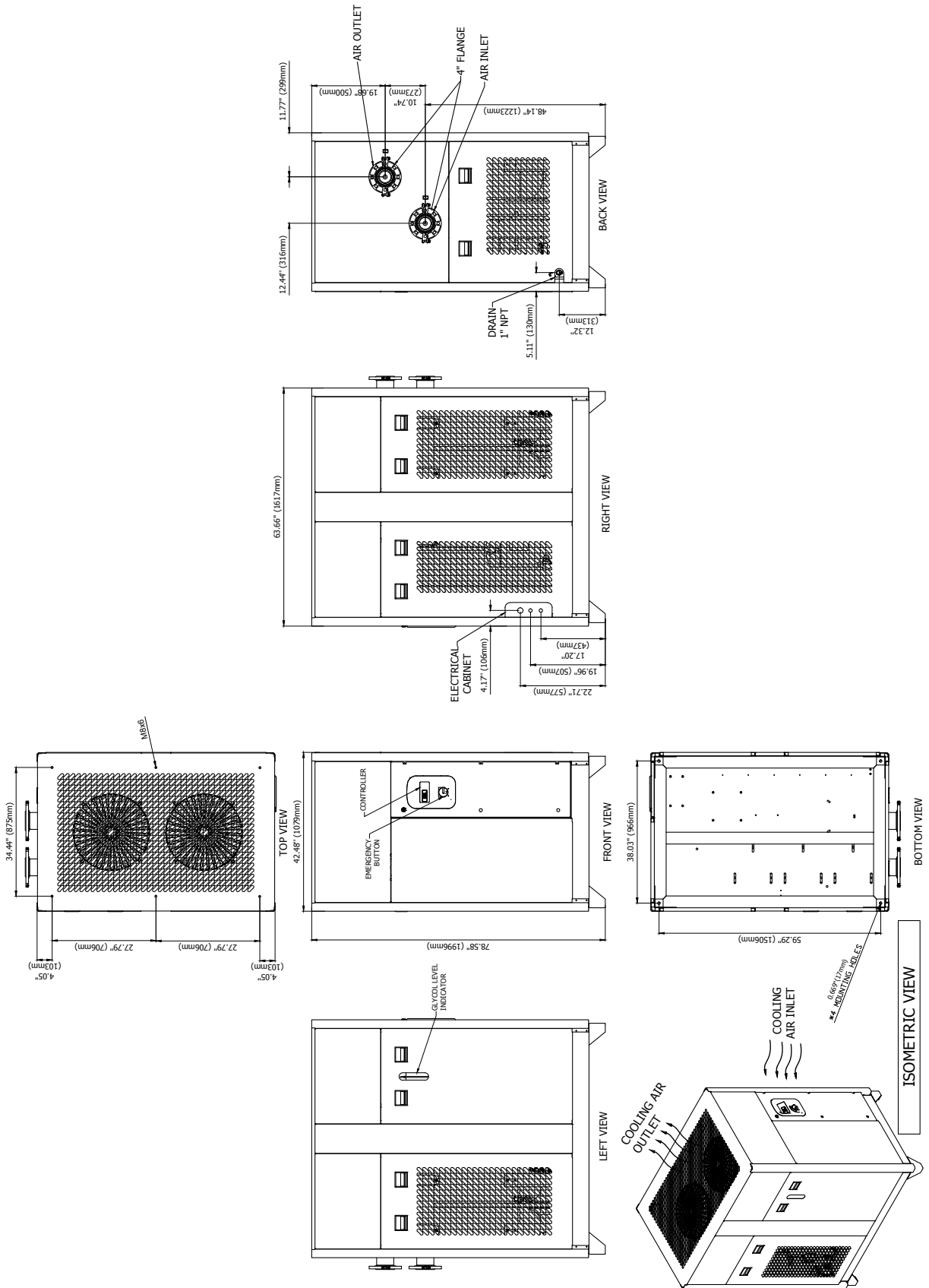
6.3 ID DIAGRAM DRAWINGS ODRC-1500



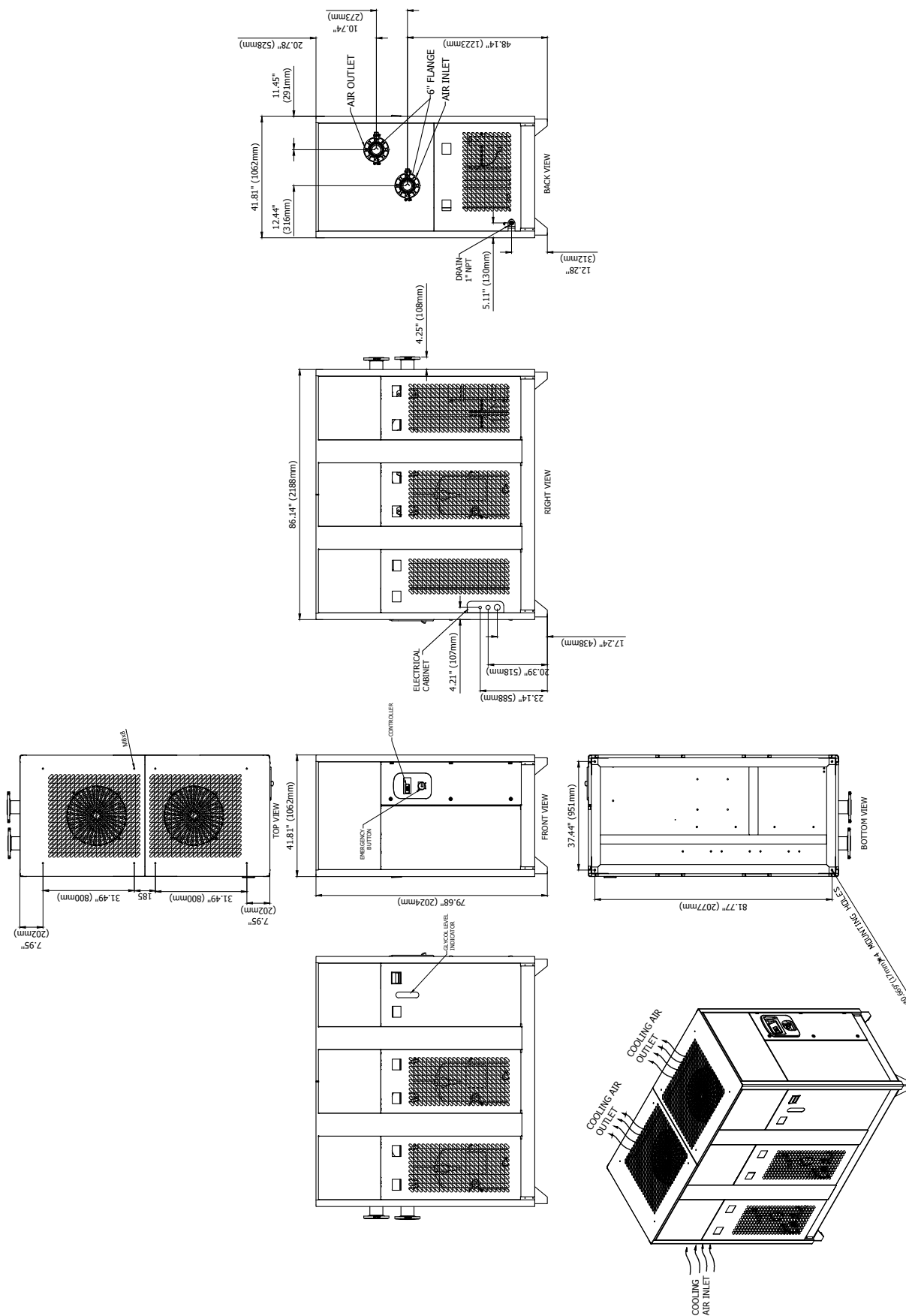
6.3 ID DIAGRAM DRAWINGS ODRC-2000



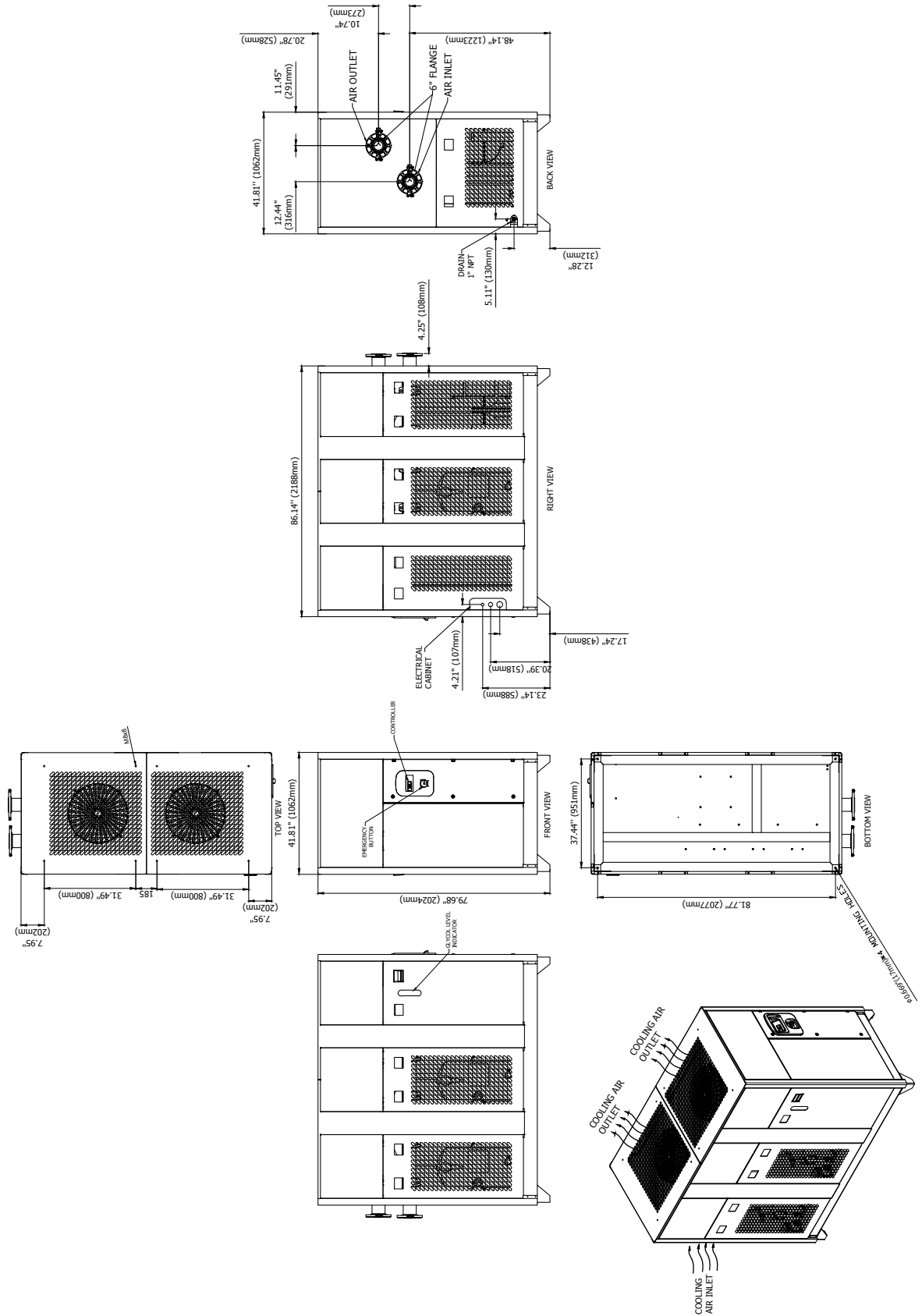
6.3 ID DIAGRAM DRAWINGS ODRC-2350



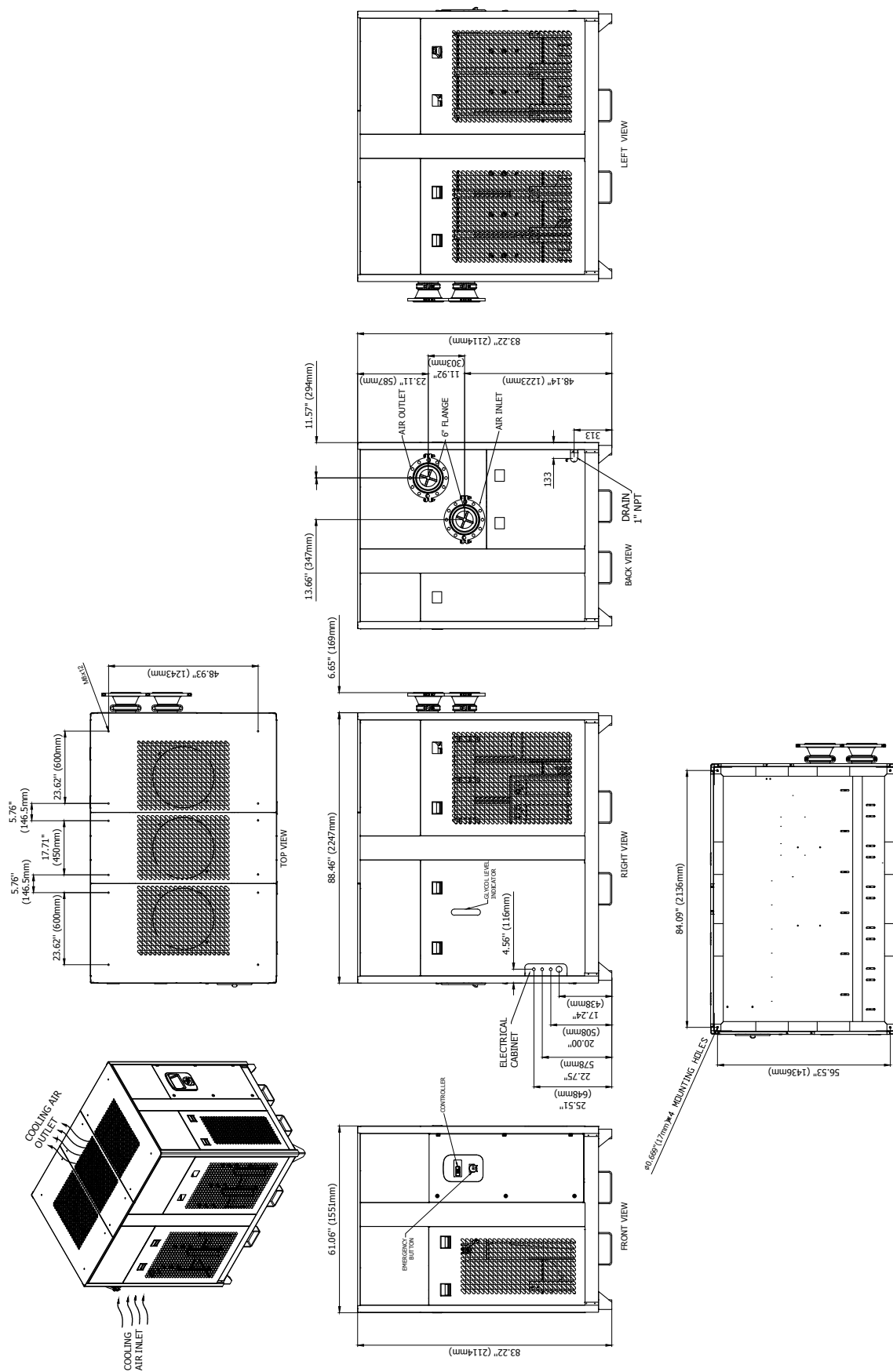
6.3 ID DIAGRAM DRAWINGS ODRC-2750



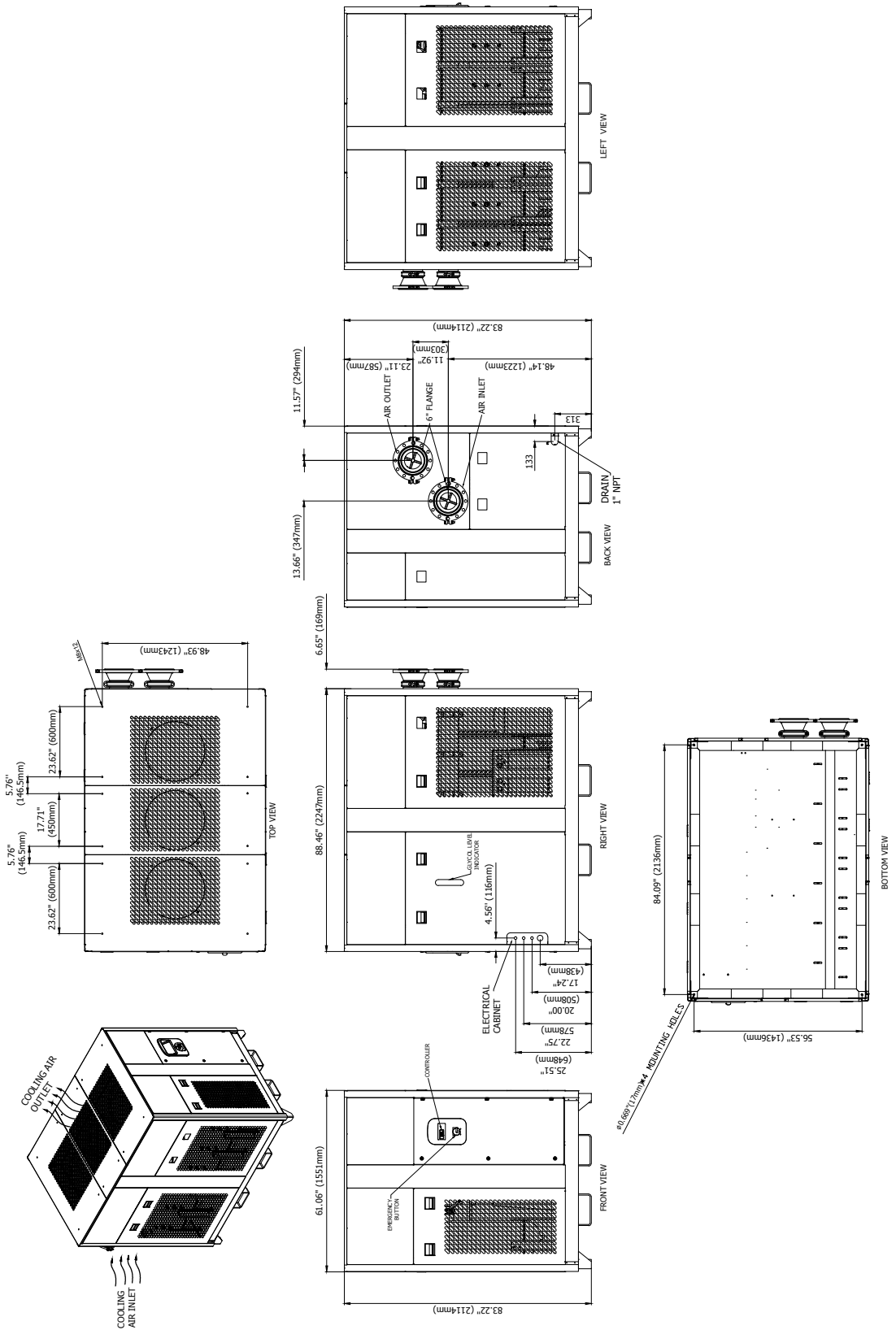
6.3 ID DIAGRAM DRAWINGS ODRC-3000



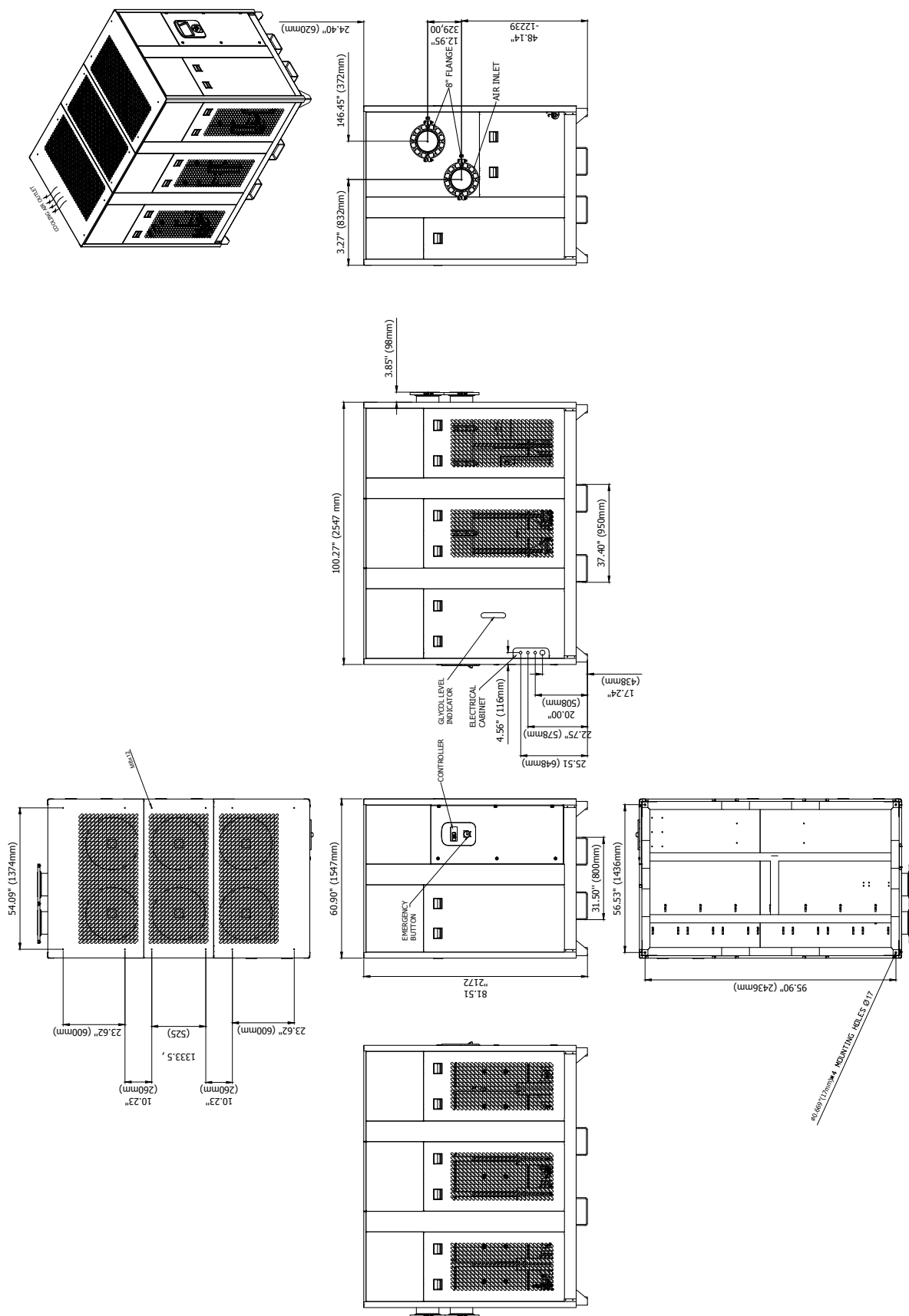
6.3 ID DIAGRAM DRAWINGS ODRC-3600



6.3 ID DIAGRAM DRAWINGS ODRC-4000



6.3 ID DIAGRAM DRAWINGS ODRC-5000



7.GENERAL ARRANGEMENTS

Model	Integrated and Externally Connected (optional) Filter and Type	Element Type	Width (inch)	Length (inch)	Height (inch)
ODRC-100	Integrated OFLG-300M X / Y	ODD-300 KIT	25.47	26.65	48.34
ODRC-125	Integrated OFLG-300M X / Y	ODD-300 KIT	25.47	26.65	48.34
ODRC-140	Integrated OFLG-300M X / Y	ODD-300 KIT	25.47	26.65	48.34
ODRC-175	Integrated OFLG-500M X / Y	ODD-500 KIT	33.74	28.62	59.25
ODRC-200	Integrated OFLG-700M X / Y	ODD-700 KIT	33.74	28.62	59.25
ODRC-250	Integrated OFLG-700M X / Y	ODD-700 KIT	28.67	32.60	69.40
ODRC-350	Integrated OFLG-700M X / Y	ODD-700 KIT	28.67	32.60	69.40
ODRC-425	Integrated OFLG-700M X / Y	ODD-700 KIT	28.67	32.60	69.40
ODRC-550	Integrated OFLG-1100M X / Y	ODD-1100 KIT	45.19	31,41	68.46
ODRC-700	Integrated OFLG-1100M X / Y	ODD-1100 KIT	45.19	31,41	68.46
ODRC-900	Integrated OFLG-1600M X / Y	ODD-1600 KIT	34.56	51.69	70.39
ODRC-1100	Integrated OFLG-1600M X / Y	ODD-1600 KIT	34.56	51.69	70.39
ODRC-1350	Externally Connected OFLF-1900M X/Y	Consult your local Ozen Distributor for replacement elements	33.34	55	72.40
ODRC-1500	Externally Connected OFLF-1900M X/Y		33.34	55	72.40
ODRC-2000	Externally Connected OFLF-2500M X/Y		42.48	63.66	78.58
ODRC-2350	Externally Connected OFLF-2500M X/Y		42.48	63.66	78.58
ODRC-2750	Externally Connected OFLF-3800M X/Y		41.81	86.14	79.68
ODRC-3000	Externally Connected OFLF-3800M X/Y		41.88	86.14	79.68
ODRC-3600	Externally Connected OFLF-3800M X/Y		61.06	88.46	83.22
ODRC-4000	Externally Connected OFLF-6500M X/Y		61.06	88.46	83.22
ODRC-5000	Externally Connected OFLF-6500M X/Y		60.90	100.27	81.51

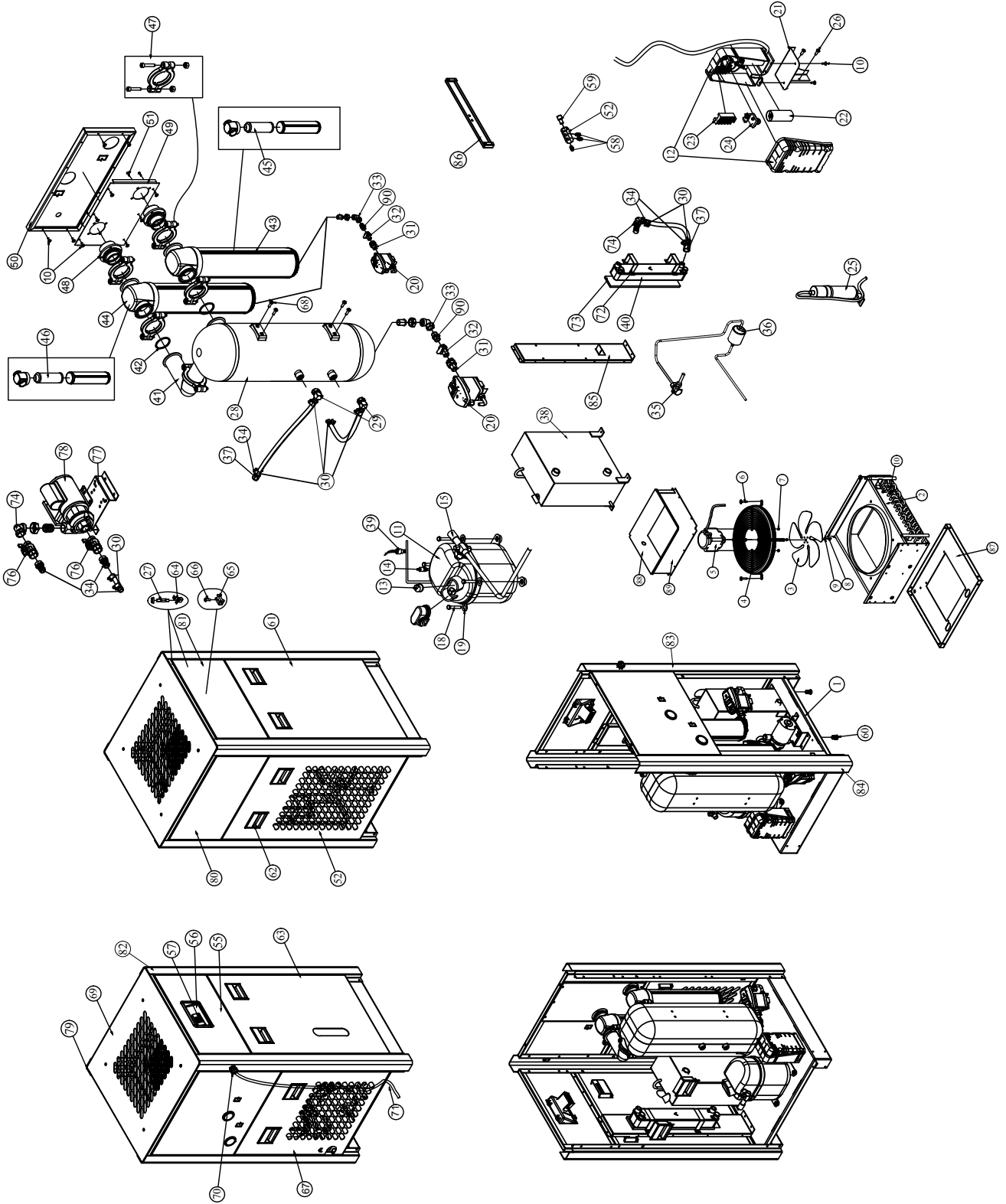
ALL MODELS	Superheat of thermostatic expansion valve	Evaporating pressure	Fan pressure switch	Security high pressure switch	Security low pressure switch	Drain timer	Refrigerant temperature switch	Water flow valve (if water condenser)
	41.0 °F - 50.0 °F	29.7 psi	130.5 - 174 psi	162.5 psi	23.2 psi	5 min. - 5sec.	113 °F	159.5 psi

8. ODRC

EXPLODED DIAGRAMS & SPARE PART LISTS

8.1 - ED & Spare Part List

ODRC-100

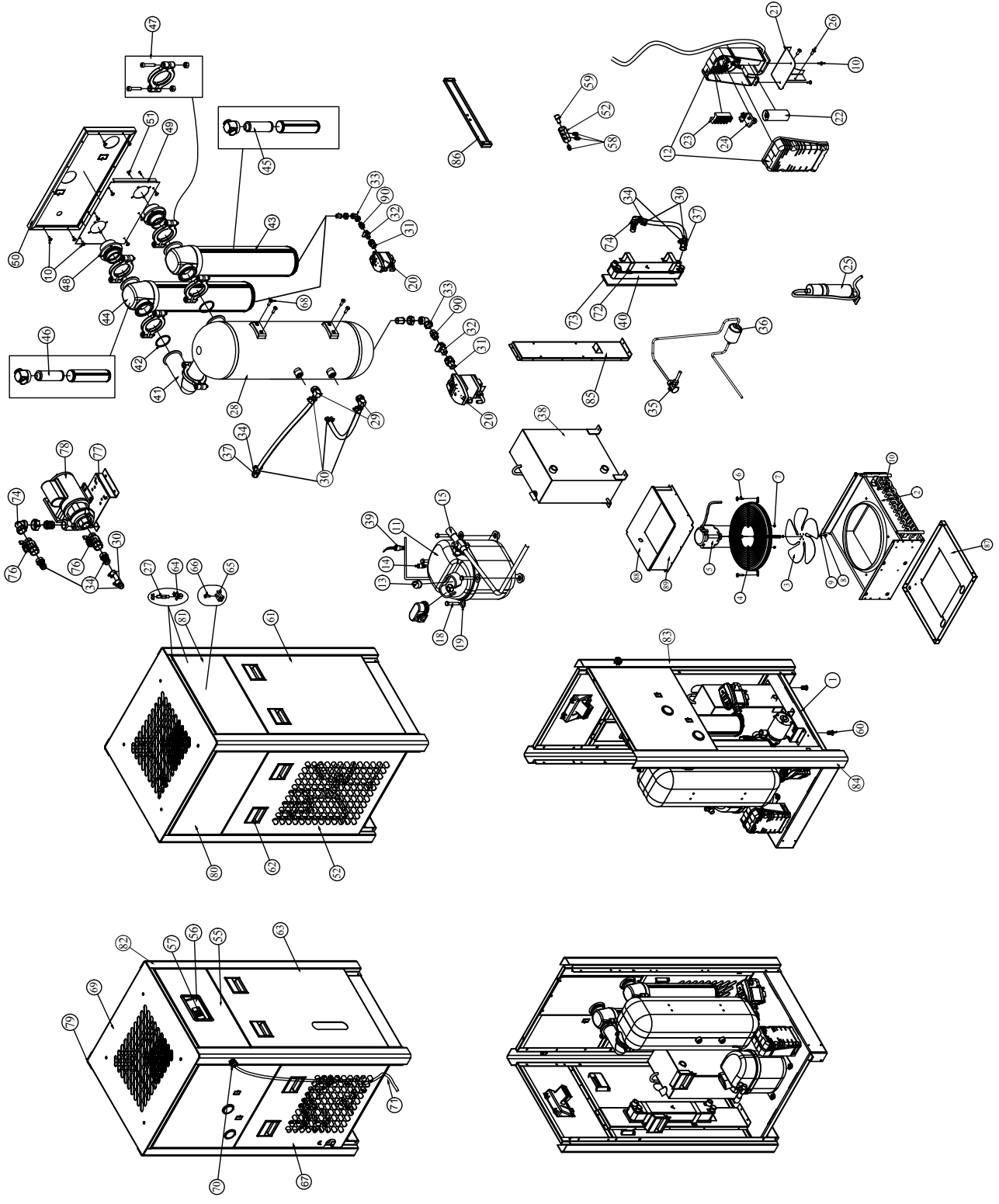


8.1 - ED & Spare Part List
ODRC-100

	90	MK260E-NIP1/2		1/2" NIPPLE		3
	89	MCY-100-125-140-17-B		FAN MOTOR PROTECTION CASE		1
	88	MCY-100-125-140-17-A		FAN MOTOR PROTECTION CASE		1
	87	MCY-100-125-140-16		CONDENSER SUPPORT PLATE		1
	86	MCY-100-125-140-19		HEAT EXCHANGER SUPPORT PLATE		2
	85	MCY-100-125-140-18		WATER EXCHANGER SUPPORT PLATE		1
	84	MCY-100-125-140-05		CABINET LEG1		1
	83	MCY-100-125-140-02		CABINET LEG3		1
	82	MCY-100-125-140-03		CABINET LEG4		1
	81	MCY-100-125-140-11		CABINET RIGHT 2		1
	80	MCY-100-125-140-09		CABINET UPPER RIGHT		1
	79	MCY-100-125-140-04		CABINET LEG2		1
	78	MK150C-PMP-230		WATER PUMP		1
	77	MK260C-WPP		WATER PUMP PLATE		1
	76	MK260C-DBV-3/4		DRAIN BALL VALVE		1
	75	MK170E-EWF		90° 1 / 4" - 6mm ELBOW		1
	74	MK260C-ELW 3/4		ELBOW 3/4		3
	73	MK110C-MDF		MDF		1
	72	M-WHCC-110		WATER HEAT EXCHANGER CLAMP		2
	71	MK90E-PWC		POWER CABLE		1
	70	MK260E-CG11		CABLE GLAND PG11		1
	69	MCY-100-125-140-15		CABINET TOP		1
	68	MK90E-BLT615		BOLT M6x15		4
	67	MCY-100-125-140-12		CABINET LEFT		1
	66	MK90E-RVT3.5		RIVET Ø3.5		6
	65	MK90E-CSP		CABLE STRAP		6
	64	M-FAS-6000		CABINET FASTENER		8
	63	MCY-100-125-140-06		CABINET STRIPPING		2
	62	M-CHN-6000		CABINET HANDLE (NEW)		4
	61	MCY-100-125-140-10		CABINET RIGHT 1		1
	60	MK260E-RNT8		RIVET NUT M8		4
	59	MK130E-DRS-NPT		DRAIN SLEEVE		1
	58	MK260E-FTS		FLAT FITTING		1
	57	MK130C-DPI-115		DIGITAL CONTROLLER		1
	56	MK260E-PCP		PLASTIC CONTROL PANEL		1
	55	MCY-100-125-140-07		CONTROLLER PANEL		1
	54	MK150E-DCL		DRAIN COLLECTOR		-
	53	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
	52	MCY-100-125-140-08		CABINET LOWER RIGHT		1
	51	MK90E-BLT610		BOLT M6x10		8
	50	MCY-100-125-140-11		CABINET REAR TOP		1
	49	MCY-100-125-140-14		CABINET INSIDE		1
	48	MK90E-CNK2-NPT		CONNECTION CIT2		2
	47	MK90E-CPG		COUPLING CLAMP		5
	46	MK90E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	45	MK90E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	44	MK90E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	43	MK90E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	42	MK90E-ORG		ORING		5
	41	MK90E-CNK1		CONNECTION CIT1		1
	40	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	39	M-HPS-0200		HIGH PRESSURE SWITCH		1
	38	M-WTA-90-C		WATER TANK		1
	37	MK260C-SLE-3/4		SLEEVE		1
	36	M-DRI-0200		DRYER-DEHYDRATOR		1
	35	M-EXV-0200		EXPANSION VALVE		1
	34	MK260C-WHR-3/4		WATER HOSE RECORD		1
	33	MK260C-ELW 1/2		ELBOW 1/2		1
	32	M-DBV-6000		DRAIN BALL VALVE		1
	31	MK260C-RKR		1/2" RECORD		1
	30	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	29	M-RTA-3000		ROTA LOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	28	MK90C-EXC		HEAT EXCHANGER		1
	27	M-STU-6000		CABINET STUD AND NUT		8
	26	MK90E-RVT4		RIVET Ø4		2
	25	M-RUN-0200		RUN CAPACITOR		1
	24	M-CSR-0100-115-1-60		COMPRESSOR START RELAY		1
	23	MK110E-TRM		THERMINAL BLOCK		1
	22	M-CSC-0100-15-1-60		COMPRESSOR START CAPACITOR		1
	21	MK90E-ELBS		ELECTRICAL BOX LOWER SUPPORT PLATE		1
	20	MK260C-BKO-230-31		BEKO DRAIN		2
	19	MK260E-WHR22		WASHER Ø22xØ8.5x2.5		4
	18	MK150E-BLT840		BOLT M8x40		4
	17	MK90E-CPT1		CUPPER T1		2
	16	M-BYV-0400		BY-PASS VALVE		1
	15	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	14	MK260E-STC		SETTING THE CONNECTION		1
	13	M-COP-0100-115-1-60		COMPRESSOR OVERLOAD PROTECTOR		1
	12	M-CEB-0100-115-1-60		COMPRESSOR ELECTRICAL BOX		1
	11	M-CMP-0100-115-1-60		COMPRESSOR		1
	10	MK90E-BLT412		BOLT M4x12		30
	9	MK110E-WHR20		WASHER Ø20xØ4.3x1.5		1
	8	MK110E-BLT414		BOLT M4x14mm		1
	7	MK110E-NT4		NUT M4		4
	6	MK260E-BLT630		BOLT M6x30		4
	5	M-FMT-0200		FAN MOTOR		1
	4	M-GRL-0200		FAN GRILL		1
	3	M-FAN-0200		FAN BLADE		1
	2	MCY-140-CON		CONDENSER		1
	1	MCY-100-125-140-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY
PART LIST						

8.1 - ED & Spare Part List

ODRC-125



8.1 - ED & Spare Part List

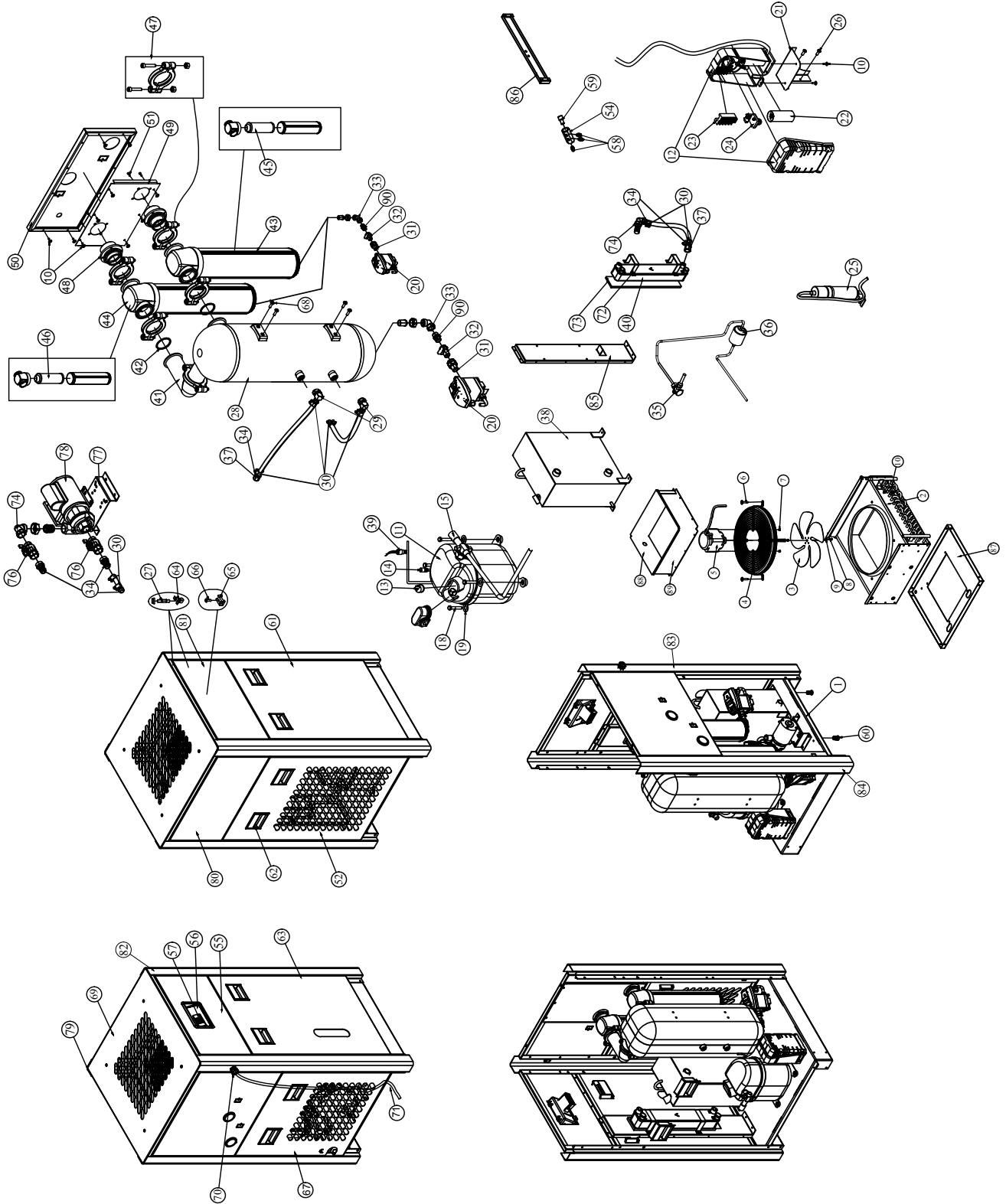
ODRC-125

	90	MK260E-NIP1/2		1/2" NIPPLE		3
	89	MCY-100-125-140-17-B		FAN MOTOR PROTECTION CASE		1
	88	MCY-100-125-140-17-A		FAN MOTOR PROTECTION CASE		1
	87	MCY-100-125-140-16		CONDENSER SUPPORT PLATE		1
	86	MCY-100-125-140-19		HEAT EXCHANGER SUPPORT PLATE		2
	85	MCY-100-125-140-18		WATER EXCHANGER SUPPORT PLATE		1
	84	MCY-100-125-140-05		CABINET LEG1		1
	83	MCY-100-125-140-02		CABINET LEG3		1
	82	MCY-100-125-140-03		CABINET LEG4		1
	81	MCY-100-125-140-11		CABINET RIGHT 2		1
	80	MCY-100-125-140-09		CABINET UPPER RIGHT		1
	79	MCY-100-125-140-04		CABINET LEG2		1
	78	MK150C-PMP-230		WATER PUMP		1
	77	MK260C-WPP		WATER PUMP PLATE		1
	76	MK260C-DBV-3/4		DRAIN BALL VALVE		1
	75	MK170E-EWF		90° 1 / 4" - 6mm ELBOW		1
	74	MK260C-ELW 3/4		ELBOW 3/4		3
	73	MK110C-MDF		MDF		1
	72	M-WHCC-110		WATER HEAT EXCHANGER CLAMP		2
	71	MK90E-PWC		POWER CABLE		1
	70	MK260E-CG11		CABLE GLAND PG11		1
	69	MCY-100-125-140-15		CABINET TOP		1
	68	MK90E-BLT615		BOLT M6x15		4
	67	MCY-100-125-140-12		CABINET LEFT		1
	66	MK90E-RVT3,5		RIVET Ø3.5		6
	65	MK90E-CSP		CABLE STRAP		6
	64	M-FAS-6000		CABINET FASTENER		8
	63	MCY-100-125-140-06		CABINET STRIPPING		2
	62	M-CHN-6000		CABINET HANDLE (NEW)		4
	61	MCY-100-125-140-10		CABINET RIGHT 1		1
	60	MK260E-RNT8		RIVET NUT M8		4
	59	MK130E-DRS-NPT		DRAIN SLEEVE		1
	58	MK260E-FTS		FLAT FITTING		1
	57	MK130C-DPI-115		DIGITAL CONTROLLER		1
	56	MK260E-PCP		PLASTIC CONTROL PANEL		1
	55	MCY-100-125-140-07		CONTROLLER PANEL		1
	54	MK150E-DCL		DRAIN COLLECTOR		-
	53	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
	52	MCY-100-125-140-08		CABINET LOWER RIGHT		1
	51	MK90E-BLT610		BOLT M6x10		8
	50	MCY-100-125-140-13		CABINET REAR TOP		1
	49	MCY-100-125-140-14		CABINET INSIDE		1
	48	MK90E-CNK2-NP1		CONNECTION CIT2		2
	47	MK90E-CPG		COUPLING CLAMP		5
	46	MK90E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	45	MK90E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	44	MK90E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	43	MK90E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	42	MK90E-ORG		ORING		5
	41	MK90E-CNK1		CONNECTION CIT1		1
	40	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	39	M-HPS-0200		HIGH PRESSURE SWITCH		1
	38	M-WTA-90-C		WATER TANK		1
	37	MK260C-SLE-3/4		SLEEVE		1
	36	M-DRI-0200		DRYER-DEHYDRATOR		1
	35	M-EXV-0200		EXPANSION VALVE		1
	34	MK260C-WHR-3/4		WATER HOSE RECORD		1
	33	MK260C-ELW 1/2		ELBOW 1/2		1
	32	M-DBV-6000		DRAIN BALL VALVE		1
	31	MK260C-RKR		1/2" RECORD		1
	30	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	29	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	28	MK90C-EXC		HEAT EXCHANGER		1
	27	M-STU-6000		CABINET STUD AND NUT		8
	26	MK90E-RVT4		RIVET Ø4		2
	25	M-RUN-0200		RUN CAPACITOR		1
	24	M-CSR-0150-115-1-60		COMPRESSOR START RELAY		1
	23	MK110E-TRM		THERMINAL BLOCK		1
	22	M-CSC-0150-15-1-60		COMPRESSOR START CAPACITOR		1
	21	MK90E-ELBS		ELECTRICAL BOX LOWER SUPPORT PLATE		1
	20	MK260C-BKO-230-31		BEKO DRAIN		2
	19	MK260E-WHR22		WASHER Ø22xØ8.5x2.5		4
	18	MK150E-BLT840		BOLT M8x40		4
	17	MK90E-CPT1		CUPPER T1		2
	16	M-BYV-0400		BY-PASS VALVE		1
	15	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	14	MK260E-STC		SETTING THE CONNECTION		1
	13	M-COP-0150-115-1-60		COMPRESSOR OVERLOAD PROTECTOR		1
	12	M-CEB-0150-115-1-60		COMPRESSOR ELECTRICAL BOX		1
	11	M-CMP-0150-115-1-60		COMPRESSOR		1
	10	MK90E-BLT412		BOLT M4x12		30
	9	MK110E-WHR20		WASHER Ø20xØ4.3x1.5		1
	8	MK110E-BLT414		BOLT M4x14mm		1
	7	MK110E-NT4		NUT M4		4
	6	MK260E-BLT630		BOLT M6x30		4
	5	M-FMT-0200		FAN MOTOR		1
	4	M-GRL-0200		FAN GRILL		1
	3	M-FAN-0200		FAN BLADE		1
	2	MCY-140-CON		CONDENSER		1
	1	MCY-100-125-140-0		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-140



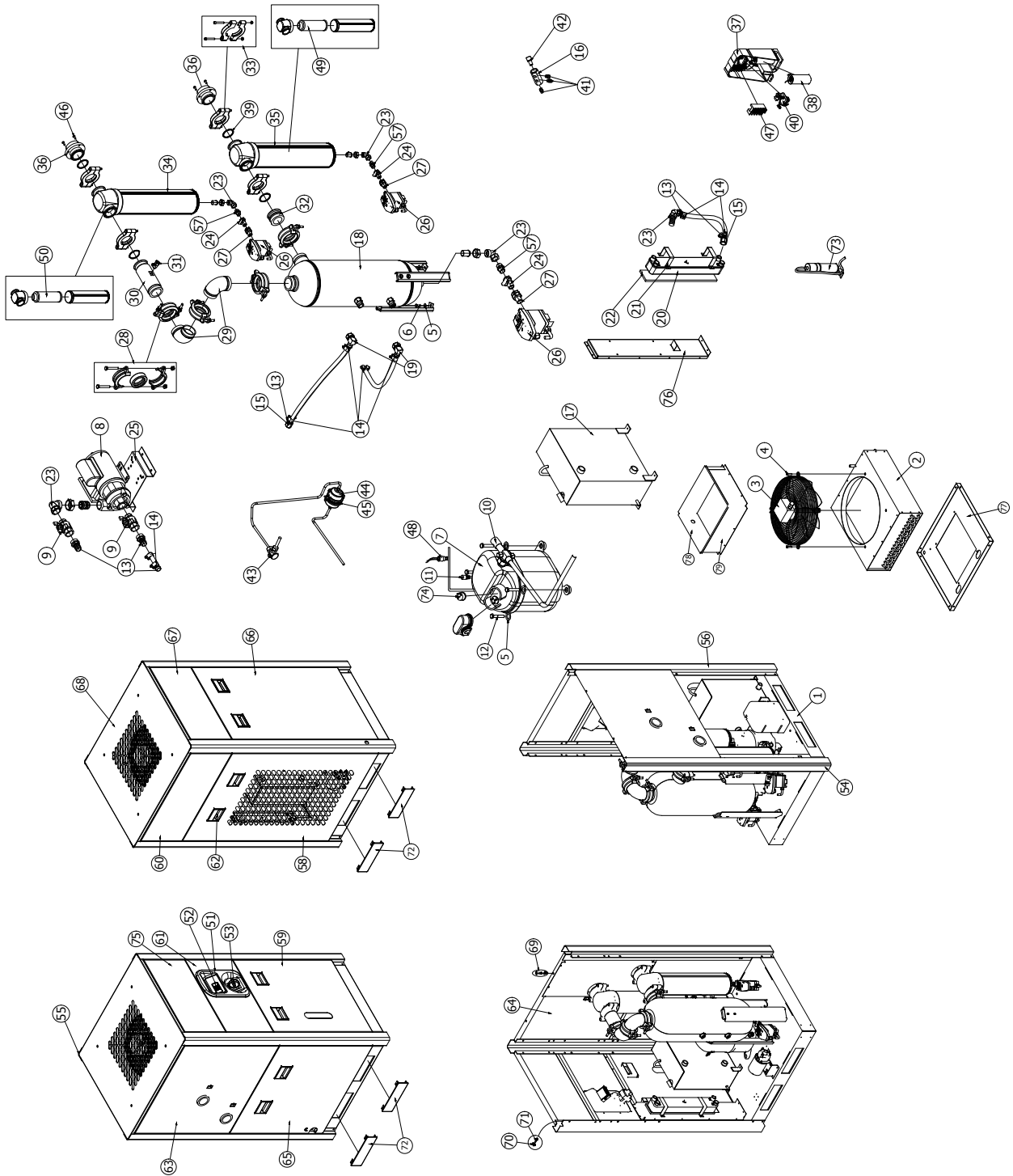
8.1 - ED & Spare Part List
ODRC-140

90	MK260E-NIP1/2		1/2" NIPPLE		3
89	MCY-100-125-140-17-B		FAN MOTOR PROTECTION CASE		1
88	MCY-100-125-140-17-A		FAN MOTOR PROTECTION CASE		1
87	MCY-100-125-140-16		CONDENSER SUPPORT PLATE		1
86	MCY-100-125-140-19		HEAT EXCHANGER SUPPORT PLATE		2
85	MCY-100-125-140-18		WATER EXCHANGER SUPPORT PLATE		1
84	MCY-100-125-140-05		CABINET LEG1		1
83	MCY-100-125-140-02		CABINET LEG3		1
82	MCY-100-125-140-03		CABINET LEG4		1
81	MCY-100-125-140-11		CABINET RIGHT 2		1
80	MCY-100-125-140-09		CABINET UPPER RIGHT		1
79	MCY-100-125-140-04		CABINET LEG2		1
78	MK150C-PMP-230		WATER PUMP		1
77	MK260C-WPP		WATER PUMP PLATE		1
76	MK260C-DBV-3/4		DRAIN BALL VALVE		1
75	MK170E-EWF		90° 1 / 4" - 6mm ELBOW		1
74	MK260C-ELW 3/4		ELBOW 3/4		3
73	MK110C-MDF		MDF		1
72	M-WHCC-110		WATER HEAT EXCHANGER CLAMP		2
71	MK90E-PWC		POWER CABLE		1
70	MK260E-CG11		CABLE GLAND PG11		1
69	MCY-100-125-140-15		CABINET TOP		1
68	MK90E-BLT815		BOLT M6x15		4
67	MCY-100-125-140-12		CABINET LEFT		1
66	MK90E-RVT3,5		RIVET Ø3.5		6
65	MK90E-CSP		CABLE STRAP		6
64	M-FAS-6000		CABINET FASTENER		8
63	MCY-100-125-140-06		CABINET STRIPPING		2
62	M-CHN-6000		CABINET HANDLE (NEW)		4
61	MCY-100-125-140-10		CABINET RIGHT 1		1
60	MK260E-RNT8		RIVET NUT M8		4
59	MK130E-DRS-NPT		DRAIN SLEEVE		1
58	MK260E-FTS		FLAT FITTING		1
57	MK130C-DPI		DIGITAL CONTROLLER		1
56	MK260E-PCP		PLASTIC CONTROL PANEL		1
55	MCY-100-125-140-07		CONTROLLER PANEL		1
54	MK150E-DCL		DRAIN COLLECTOR		-
53	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
52	MCY-100-125-140-08		CABINET LOWER RIGHT		1
51	MK90E-BLT810		BOLT M6x10		8
50	MCY-100-125-140-13		CABINET REAR TOP		1
49	MCY-100-125-140-14		CABINET INSIDE		1
48	MK90E-CNK2-NPT		CONNECTION CIT2		2
47	MK90E-CPG		COUPLING CLAMP		5
46	MK90E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
45	MK90E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
44	MK90E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
43	MK90E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
42	MK90E-ORG		ORING		5
41	MK90E-CNK1		CONNECTION CIT1		1
40	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
39	M-HPS-0200		HIGH PRESSURE SWITCH		1
38	M-WTA-90-C		WATER TANK		1
37	MK260C-SLE-3/4		SLEEVE		1
36	M-DRI-0200		DRYER-DEHYDRATOR		1
35	M-EXV-0200		EXPANSION VALVE		1
34	MK260C-WHR-3/4		WATER HOSE RECORD		1
33	MK260C-ELW 1/2		ELBOW 1/2		1
32	M-DBV-6000		DRAIN BALL VALVE		1
31	MK260C-RKR		1/2" RECORD		1
30	MK260C-WHC-3/4		WATER HOSE CLAMP		1
29	M-RTA-3000		ROTA LOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
28	MK90C-EXC		HEAT EXCHANGER		1
27	M-STU-6000		CABINET STUD AND NUT		8
26	MK90E-RVT4		RIVET Ø4		2
25	M-RUN-0200		RUN CAPACITOR		1
24	M-CSR-0200-230-1-60		COMPRESSOR START RELAY		1
23	MK110E-TRM		THERMINAL BLOCK		1
22	M-CSC-0200-230-1-60		COMPRESSOR START CAPACITOR		1
21	MK90E-ELBS		ELECTRICAL BOX LOWER SUPPORT PLATE		1
20	MK260C-BKO-230-31		BEKO DRAIN		2
19	MK260E-WHR22		WASHER Ø22xØ8.5x2.5		4
18	MK150E-BLT840		BOLT M8x40		4
17	MK90E-CPT1		CUPPER T1		2
16	M-BYV-0400		BY-PASS VALVE		1
15	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
14	MK260E-STC		SETTING THE CONNECTION		1
13	M-COP-0200-230-1-60		COMPRESSOR OVERLOAD PROTECTOR		1
12	M-CEB-0200-230-1-60		COMPRESSOR ELECTRICAL BOX		1
11	M-CMP-0200-230-1-60		COMPRESSOR		1
10	MK90E-BLT412		BOLT M4x12		30
9	MK110E-WHR20		WASHER Ø20xØ4.3x1.5		1
8	MK110E-BLT414		BOLT M4x14mm		1
7	MK110E-NT4		NUT M4		4
6	MK260E-BLT630		BOLT M6x30		4
5	M-FMT-0200		FAN MOTOR		1
4	M-GRL-0200		FAN GRILL		1
3	MK110E-FAN		FAN BLADE		1
2	MCY-140-CON		CONDENSER		1
1	MCY-100-125-140-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.	DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-175



8.1 - ED & Spare Part List

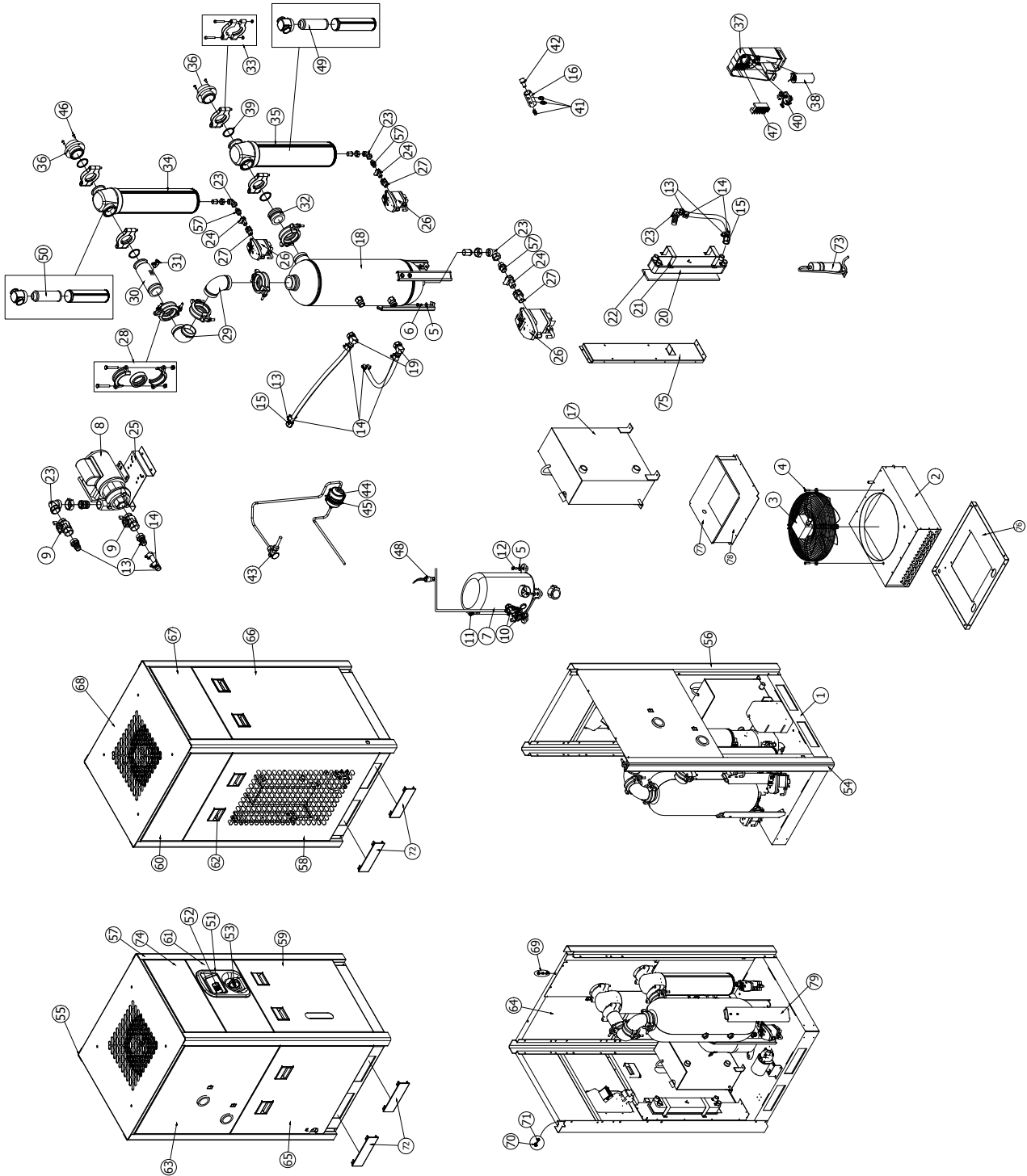
ODRC-175

80	MCY-100-5000-45		HEAT EXCHANGER FOOT		3
79	MCY-175-200-16-B		FAN MOTOR PROTECTION CASE		1
78	MCY-175-200-16-A		FAN MOTOR PROTECTION CASE		1
77	MCY-175-200-15		CONDENSER SUPPORT PLATE		1
76	MCY-175-200-17		WATER EXCHANGER SUPPORT PLATE		1
75	MCY-175-200-07		CABINET FRONT BOTTOM 2		1
74	M-COP-0200-230-1-60		COMPRESSOR OVERLOAD PROTECTOR		1
73	M-RUN-0200		RUN CAPACITOR		1
72	MK190E-RMS		REMOVABLE SHIELD		4
71	MK260E-BLT826		BOLT M8x25		24
70	M-NUT-6000		CAGE NUTS M6		24
69	M-FAS-6000		CABINET FASTENER		14
68	MCY-175-200-14		CABINET TOP		1
67	MCY-175-200-07		CABINET REAR TOP		1
66	MCY-175-200-10		CABINET REAR BOTTOM		1
65	MCY-175-200-11		CABINET BOTTOM LEFT		1
64	MCY-175-200-13		CABINET INSIDE		1
63	MCY-175-200-12		CABINET UPPER LEFT		1
62	M-CHN-6000		CABINET HANDLE		8
61	MCY-175-200-06		CONTROLLER PANEL		1
60	MCY-175-200-09		CABINET UPPER RIGHT		1
59	MCY-175-200-05		CABINET FRONT BOTTOM 1		1
58	MCY-175-200-08		CABINET LOWER RIGHT		1
57	MK260E-NIP1/2		1/2" NIPPLE		3
56	MCY-175-200-04		CABINET LEG3		1
55	MCY-175-200-02		CABINET LEG2		1
54	MCY-175-200-03		CABINET LEG1		1
53	MK130E-MSW		MAIN SWITCH		1
52	MK130C-DPI		DIGITAL CONTROLLER		1
51	MK260C-PCP		PLASTIC CONTROL PANEL		1
50	MK100E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
49	MK100E-FIE-X		COMPRESSED AIR FILTER (X)		1
48	M-HPS-0200		HIGH PRESSURE SWICH		1
47	MK110E-TRM		THERMINAL BLOCK		1
46	MK170E-BLT815		BOLT M8x15		8
45	MK120E-FDC		FILTER DRIER CLAMP		1
44	M-DRI-0400		DRYER-DEHYDRATOR		1
43	M-EXV-0200		EXPANSION VALVE		1
42	MK130E-DRS-NPT		DRAIN SLEEVE		1
41	MK260E-FTS		FLAT FITTING		3
40	M-CSR-0200-230-1-60		COMPRESSOR START RELAY		1
39	MK170E-ORG		ORING		4
38	M-CSC-0200-230-1-60		COMPRESSOR START CAPACITOR		1
37	M-CEB-0200-230-1-60		COMPRESSOR ELECTRICAL BOX		1
36	MK110E-CNK3-US		CONNECTION CIT3		2
35	MK100E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
34	MK100E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
33	MK170E-CPG2		COUPLING CLAMP2		4
32	MK110E-CNK2		CONNECTION CIT2		1
31	MK260E-BLV		BALL VALVE		1
30	MK110E-CNK1		CONNECTION CIT1		1
29	MK170E-ELW2		ELBOW2		2
28	MK260E-CPG1		COUPLING CLAMP1		4
27	MK260C-RKR		1/2" RECORD		3
26	MK260C-BKO-230-31		BEKO DRAIN		3
25	MK260C-WPP		WATER PUMP PLATE		1
24	M-DBV-6000		DRAIN BALL VALVE		3
23	MK260C-ELW 3/4		ELBOW 3/4		4
22	MK110C-MDF		MDF		1
21	MCY-175-200-18		WATER HEAT EXCHANGER CLAMP		2
20	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
19	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		2
18	MK110C-EXC		HEAT EXCHANGER		1
17	M-WTA-110-C		WATER TANK		1
16	MK150E-DCL		DRAIN COLLECTOR		1
15	MK260C-SLE-3/4		SLEEVE		2
14	MK260C-WHC-3/4		WATER HOSE CLAMP		8
13	MK260C-WHR-3/4		WATER HOSE RECORD		4
12	MK260E-BLT850		BOLT M8x50		4
11	MK150E-STC		SETTING THE CONNECTION		1
10	MK260E-RTA1		ROTOLOCK ADAPTOR1		2
09	MK260C-DBV-3/4		DRAIN BALL VALVE		2
08	MK150C-PMP-230		WATER PUMP		1
07	M-CMP-0200-230-1-60		COMPRESSOR		1
06	MK260E-BLT825		BOLT M8x25		10
05	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
04	MK260E-BLT630		BOLT M6x30		4
03	M-FMT-0325		FAN MOTOR		1
02	M-CON-0325		CONDENSER		1
01	MCY-175-200-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-200



8.1 - ED & Spare Part List

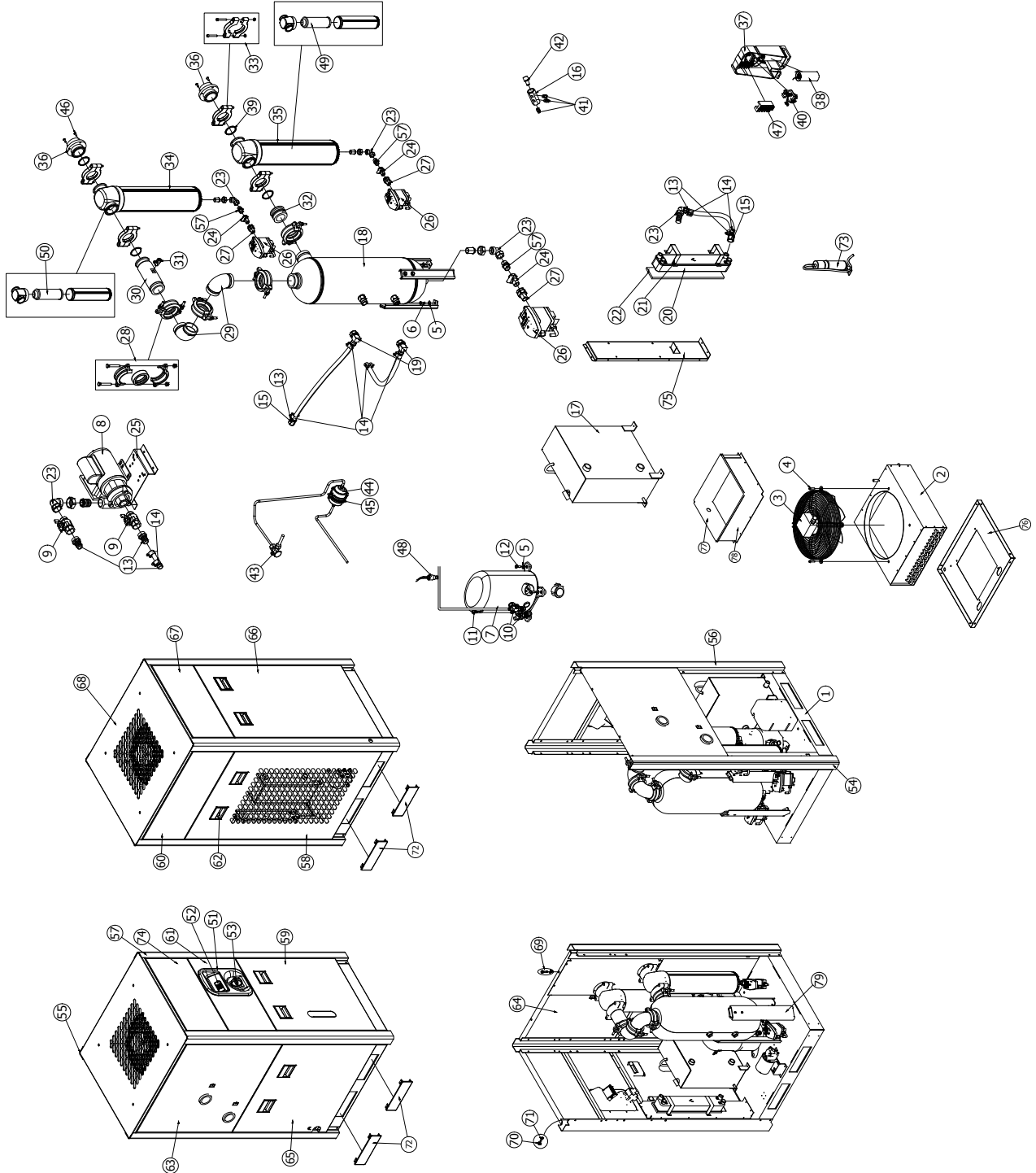
ODRC-200

79	MCY-100-5000-45		HEAT EXCHANGER FOOT		3
78	MCY-175-200-16-B		FAN MOTOR PROTECTION CASE		1
77	MCY-175-200-16-A		FAN MOTOR PROTECTION CASE		1
76	MCY-175-200-15		CONDENSER SUPPORT PLATE		1
75	MCY-175-200-17		WATER EXCHANGER SUPPORT PLATE		1
74	MCY-175-200-07		CABINET FRONT BOTTOM 2		1
73	M-RUN-0250		RUN CAPACITOR		1
72	MK190E-RMS		REMOVABLE SHIELD		4
71	MK260E-BLT826		BOLT M8x25		24
70	M-NUT-6000		CAGE NUTS M6		24
69	M-FAS-6000		CABINET FASTENER		14
68	MCY-175-200-14		CABINET TOP		1
67	MCY-175-200-07		CABINET REAR TOP		1
66	MCY-175-200-10		CABINET REAR BOTTOM		1
65	MCY-175-200-11		CABINET BOTTOM LEFT		1
64	MCY-175-200-13		CABINET INSIDE		1
63	MCY-175-200-12		CABINET UPPER LEFT		1
62	M-CHN-6000		CABINET HANDLE		8
61	MCY-175-200-06		CONTROLLER PANEL		1
60	MCY-175-200-09		CABINET UPPER RIGHT		1
59	MCY-175-200-05		CABINET FRONT BOTTOM 1		1
58	MCY-175-200-08		CABINET LOWER RIGHT		1
57	MK260E-NIP1/2		1/2" NIPPLE		3
56	MCY-175-200-04		CABINET LEG3		1
55	MCY-175-200-02		CABINET LEG2		1
54	MCY-175-200-03		CABINET LEG1		1
53	MK130E-MSW		MAIN SWITCH		1
52	MK130C-DPI		DIGITAL CONTROLLER		1
51	MK260C-PCP		PLASTIC CONTROL PANEL		1
50	MK100E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
49	MK100E-FIE-X		COMPRESSED AIR FILTER (X)		1
48	M-HPS-0200		HIGH PRESSURE SWICH		1
47	MK110E-TRM		THERMINAL BLOCK		1
46	MK170E-BLT815		BOLT M8x15		8
45	MK120E-FDC		FILTER DRIER CLAMP		1
44	M-DRI-0400		DRYER-DEHYDRATOR		1
43	M-EXV-0200		EXPANSION VALVE		1
42	MK130E-DRS-NPT		DRAIN SLEEVE		1
41	MK260E-FTS		FLAT FITTING		3
40	M-CSR-0200-230-1-60		COMPRESSOR START RELAY		1
39	MK170E-ORG		ORING		4
38	M-CSC-0200-230-1-60		COMPRESSOR START CAPACITOR		1
37	M-CEB-0200-230-1-60		COMPRESSOR ELECTRICAL BOX		1
36	MK110E-CNK3-US		CONNECTION CIT3		2
35	MK100E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
34	MK100E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
33	MK170E-CPG2		COUPLING CLAMP2		4
32	MK110E-CNK2		CONNECTION CIT2		1
31	MK260E-BLV		BALL VALVE		1
30	MK110E-CNK1		CONNECTION CIT1		1
29	MK170E-ELW2		ELBOW2		2
28	MK260E-CPG1		COUPLING CLAMP1		4
27	MK260C-RKR		1/2" RECORD		3
26	MK260C-BKO-230-31		BEKO DRAIN		3
25	MK260C-WPP		WATER PUMP PLATE		1
24	M-DBV-6000		DRAIN BALL VALVE		3
23	MK260C-ELW 3/4		ELBOW 3/4		4
22	MK110C-MDF		MDF		1
21	MCY-175-200-18		WATER HEAT EXCHANGER CLAMP		2
20	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
19	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		2
18	MK110C-EXC		HEAT EXCHANGER		1
17	M-WTA-110-C		WATER TANK		1
16	MK150E-DCL		DRAIN COLLECTOR		1
15	MK260C-SLE-3/4		SLEEVE		2
14	MK260C-WHC-3/4		WATER HOSE CLAMP		8
13	MK260C-WHR-3/4		WATER HOSE RECORD		4
12	MK260E-BLT850		BOLT M8x50		4
11	MK150E-STC		SETTING THE CONNECTION		1
10	MK260E-RTA1		ROTOLOCK ADAPTOR1		2
09	MK260C-DBV-3/4		DRAIN BALL VALVE		2
08	MK150C-PMP-230		WATER PUMP		1
07	M-CMP-0200-230-1-60		COMPRESSOR		1
06	MK260E-BLT825		BOLT M8x25		10
05	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
04	MK260E-BLT630		BOLT M6x30		4
03	M-FMT-0325		FAN MOTOR		1
02	M-CON-0325		CONDENSER		1
01	MCY-175-200-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-200



8.1 - ED & Spare Part List

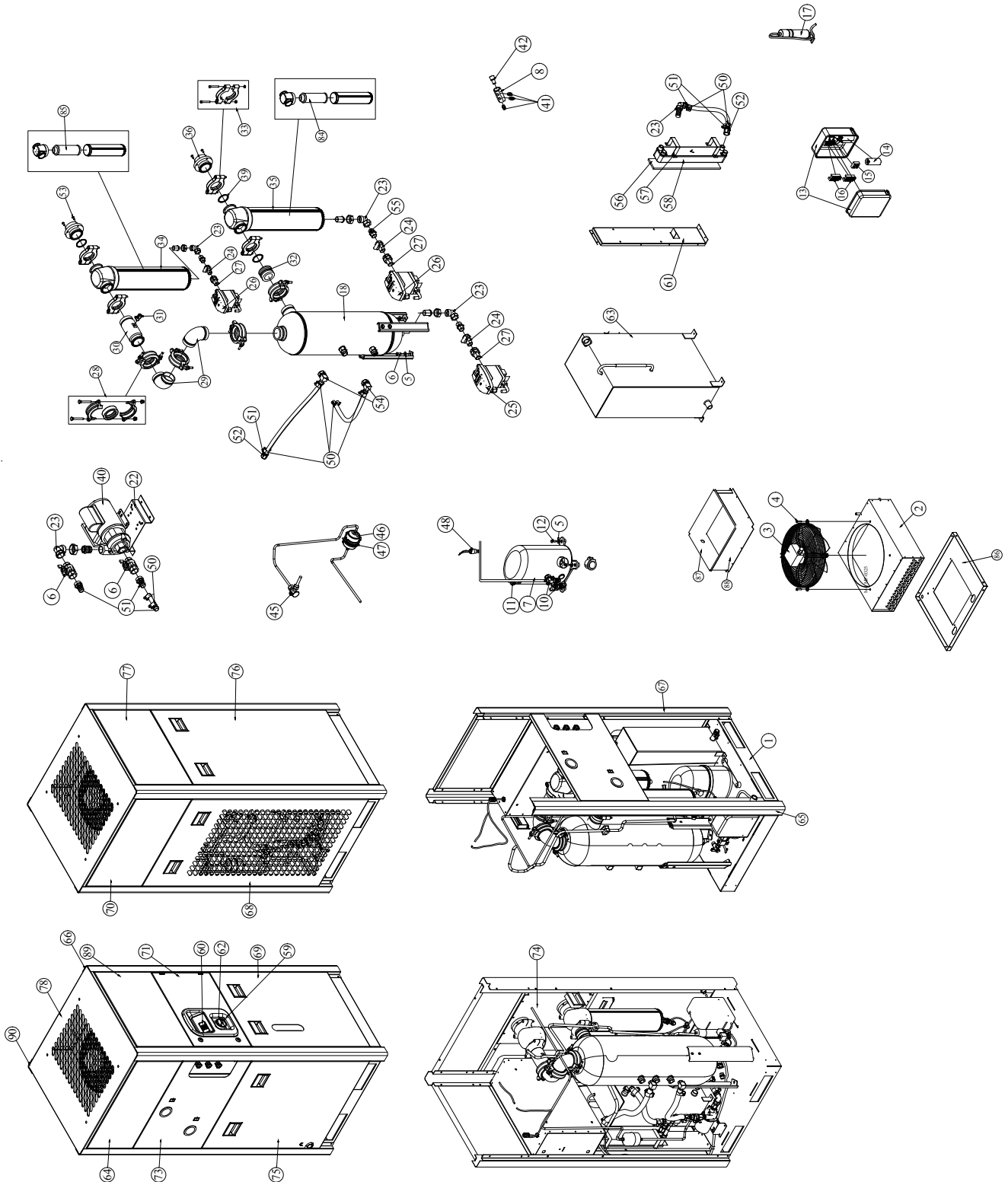
ODRC 200

	79	MCY-100-5000-45		HEAT EXCHANGER FOOT		3
	78	MCY-175-200-16-B		FAN MOTOR PROTECTION CASE		1
	77	MCY-175-200-16-A		FAN MOTOR PROTECTION CASE		1
	76	MCY-175-200-15		CONDENSER SUPPORT PLATE		1
	75	MCY-175-200-17		WATER EXCHANGER SUPPORT PLATE		1
	74	MCY-175-200-07		CABINET FRONT BOTTOM 2		1
	73	M-RUN-0250		RUN CAPACITOR		1
	72	MK190E-RMS		REMOVABLE SHIELD		4
	71	MK260E-BLT826		BOLT M8x25		24
	70	M-NUT-6000		CAGE NUTS M6		24
	69	M-FAS-6000		CABINET FASTENER		14
	68	MCY-175-200-14		CABINET TOP		1
	67	MCY-175-200-07		CABINET REAR TOP		1
	66	MCY-175-200-10		CABINET REAR BOTTOM		1
	65	MCY-175-200-11		CABINET BOTTOM LEFT		1
	64	MCY-175-200-13		CABINET INSIDE		1
	63	MCY-175-200-12		CABINET UPPER LEFT		1
	62	M-CHN-6000		CABINET HANDLE		8
	61	MCY-175-200-06		CONTROLLER PANEL		1
	60	MCY-175-200-09		CABINET UPPER RIGHT		1
	59	MCY-175-200-05		CABINET FRONT BOTTOM 1		1
	58	MCY-175-200-08		CABINET LOWER RIGHT		1
	57	MK260E-NIP1/2		1/2" NIPPLE		3
	56	MCY-175-200-04		CABINET LEG3		1
	55	MCY-175-200-02		CABINET LEG2		1
	54	MCY-175-200-03		CABINET LEG1		1
	53	MK130E-MSW		MAIN SWITCH		1
	52	MK130C-DPI		DIGITAL CONTROLLER		1
	51	MK260C-PCP		PLASTIC CONTROL PANEL		1
	50	MK100E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
	49	MK100E-FIE-X		COMPRESSED AIR FILTER (X)		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	MK110E-TRM		THERMINAL BLOCK		1
	46	MK170E-BLT815		BOLT M8x15		8
	45	MK120E-FDC		FILTER DRIER CLAMP		1
	44	M-DRI-0400		DRYER-DEHYDRATOR		1
	43	M-EXV-0200		EXPANSION VALVE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		1
	41	MK260E-FTS		FLAT FITTING		3
	40	M-CSR-0200-230-1-60		COMPRESSOR START RELAY		1
	39	MK170E-ORG		ORING		4
	38	M-CSC-0200-230-1-60		COMPRESSOR START CAPACITOR		1
	37	M-CEB-0200-230-1-60		COMPRESSOR ELECTRICAL BOX		1
	36	MK110E-CNK3-US		CONNECTION CIT3		2
	35	MK100E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK100E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK110E-CNK2		CONNECTION CIT2		1
	31	MK260E-BLV		BALL VALVE		1
	30	MK110E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-230-31		BEKO DRAIN		3
	25	MK260C-WPP		WATER PUMP PLATE		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		4
	22	MK110C-MDF		MDF		1
	21	MCY-175-200-18		WATER HEAT EXCHANGER CLAMP		2
	20	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	19	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		2
	18	MK110C-EXC		HEAT EXCHANGER		1
	17	M-WTA-110-C		WATER TANK		1
	16	MK150E-DCL		DRAIN COLLECTOR		1
	15	MK260C-SLE-3/4		SLEEVE		2
	14	MK260C-WHC-3/4		WATER HOSE CLAMP		8
	13	MK260C-WHR-3/4		WATER HOSE RECORD		4
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK150E-STC		SETTING THE CONNECTION		1
	10	MK260E-RTA1		ROTOLOCK ADAPTOR1		2
	09	MK260C-DBV-3/4		DRAIN BALL VALVE		2
	08	MK150C-PMP-230		WATER PUMP		1
	07	M-CMP-0200-230-1-60		COMPRESSOR		1
	06	MK260E-BLT825		BOLT M8x25		10
	05	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	04	MK260E-BLT630		BOLT M6x30		4
	03	M-FMT-0325		FAN MOTOR		1
	02	M-CON-0325		CONDENSER		1
	01	MCY-175-200-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-250 (230V/1Ph/60Hz)



ODRC 250

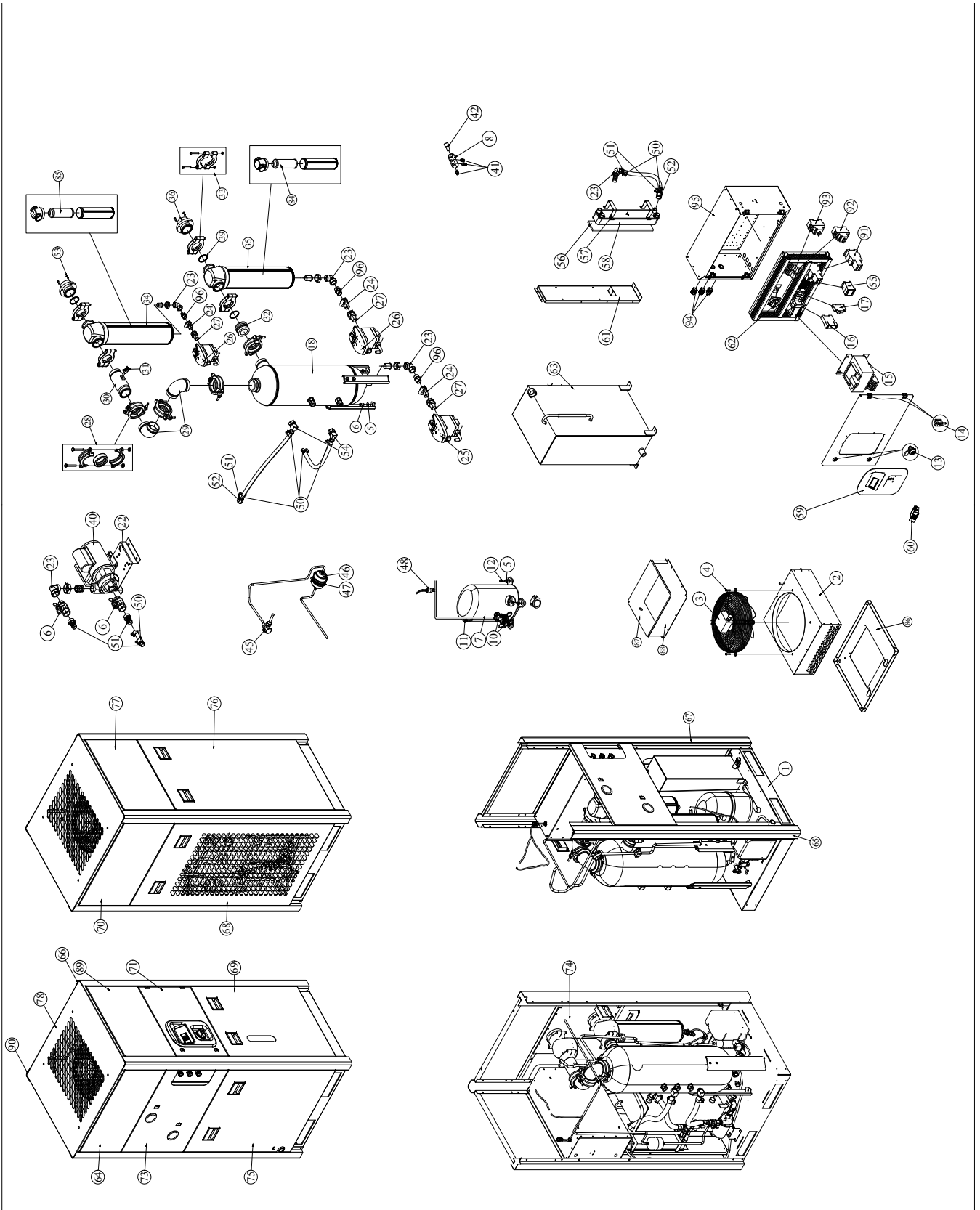
(230V/1Ph/60Hz)

	90	MCY-250-350-425-04		CABINET LEG4		1
	89	MCY-250-350-425-12		CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B		FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A		FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16		CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS		REMOVABLE SHIELD		4
	82	M-CCP-6000		CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630		BOLT M6x30		24
	80	M-NUT-6000		CAGE NUTS		24
	79	M-FAS-6000		CABINET FASTENER		14
	78	MCY-250-350-425-17		CABINET TOP		1
	77	MCY-250-350-425-12		CABINET REAR TOP		1
	76	MCY-250-350-425-15		CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06		CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09		CABINET INSIDE		1
	73	MCY-250-350-425-07		CABINET UPPER LEFT1		1
	72	M-CHN-6000		CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B		CONTROLLER PANEL		1
	70	MCY-250-350-425-14		CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10		CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13		CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02		CABINET LEG3		1
	66	MCY-250-350-425-03		CABINET LEG2		2
	65	MCY-250-350-425-05		CABINET LEG1		1
	64	MCY-250-350-425-8		CABINET UPPER LEFT2		-
	63	M-WTA-130-C		WATER TANK		-
	62	M-MNS-1200		MAIN SWITCH		1
	61	MCY-250-350-425-18		WATER EXCHANGER SUPPORT PLATE		1
	60	MK130C-DPI		DIGITAL CONTROLLER		1
	59	MK260C-PCP		PLASTIC CONTROL PANEL		1
	58	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24		WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF		MDF		1
	55	MK260E-NIP1/2		1/2" NIPPLE		3
	54	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815		BOLT M8x15		8
	52	MK260C-SLE-3/4		SLEEVE		1
	51	MK260C-WHR-3/4		WATER HOSE RECORD		1
	50	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	49	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	M-CLP-1200		CLAMP		1
	46	M-DRI-0400		DRYER-DEHYDRATOR		1
	45	M-EXV-0250		EXPANSION VALVE		1
	44	MK130E-DRS-NPT		DRAIN SLEEVE		1
	43	M-DFD-1200		DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		4
	41	MK260E-FTS		FLAT FITTING		1
	40	MK150C-PMP-230		WATER POMP		2
	39	MK170E-ORG		ORING		4
	38	M-STU-6000		CABINET STUD AND NUT		14
	37	MK130E-PBX		POWER BOX		1
	36	MK130E-CNK3-NPT		CONNECTION CIT3		2
	35	MK130E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK130E-CNK2		CONNECTION CIT2		2
	31	MK260E-BVL		BALL VALVE		1
	30	MK130E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-230-31		BEKO DRAIN		2
	25	MK260C-BKO-230-32		BEKO DRAIN		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		3
	22	MK260C-WPP		WATER PUMP PLATE		1
	21	MK130E-CPT1		CUPPER T1		1
	20	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC		HEAT EXCHANGER		1
	17	M-RUN-0250		RUN CAPACITOR		1
	16	MK130E-TRM1		THERMINAL BLOCK1		1
	15	M-CSR-0250-230-1-60		START RELAY		1
	14	M-CSC-0250-230-1-60		START CAPACITOR		1
	13	M-CEB-0250-230-1-60		COMPRESSOR ELECTRICAL BOX		1
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK260E-STC		SETTING THE CONNECTION		1
	10	MK130E-RTA2		ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	8	MK150E-DCCL		DRAIN COLLECTOR		-
	7	M-CMP-0250-230-1-60		COMPRESSOR		1
	6	MK260C-DBV-3/4		DRAIN BALL VALVE		34
	5	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630		BOLT M6x30		4
	3	M-FMT-0325		FAN MOTOR		1
	2	M-CON-0400		CONDENSER		1
	1	MCY-250-350-425-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC-250 (460V/3Ph/60Hz)



8.1 - ED & Spare Part List

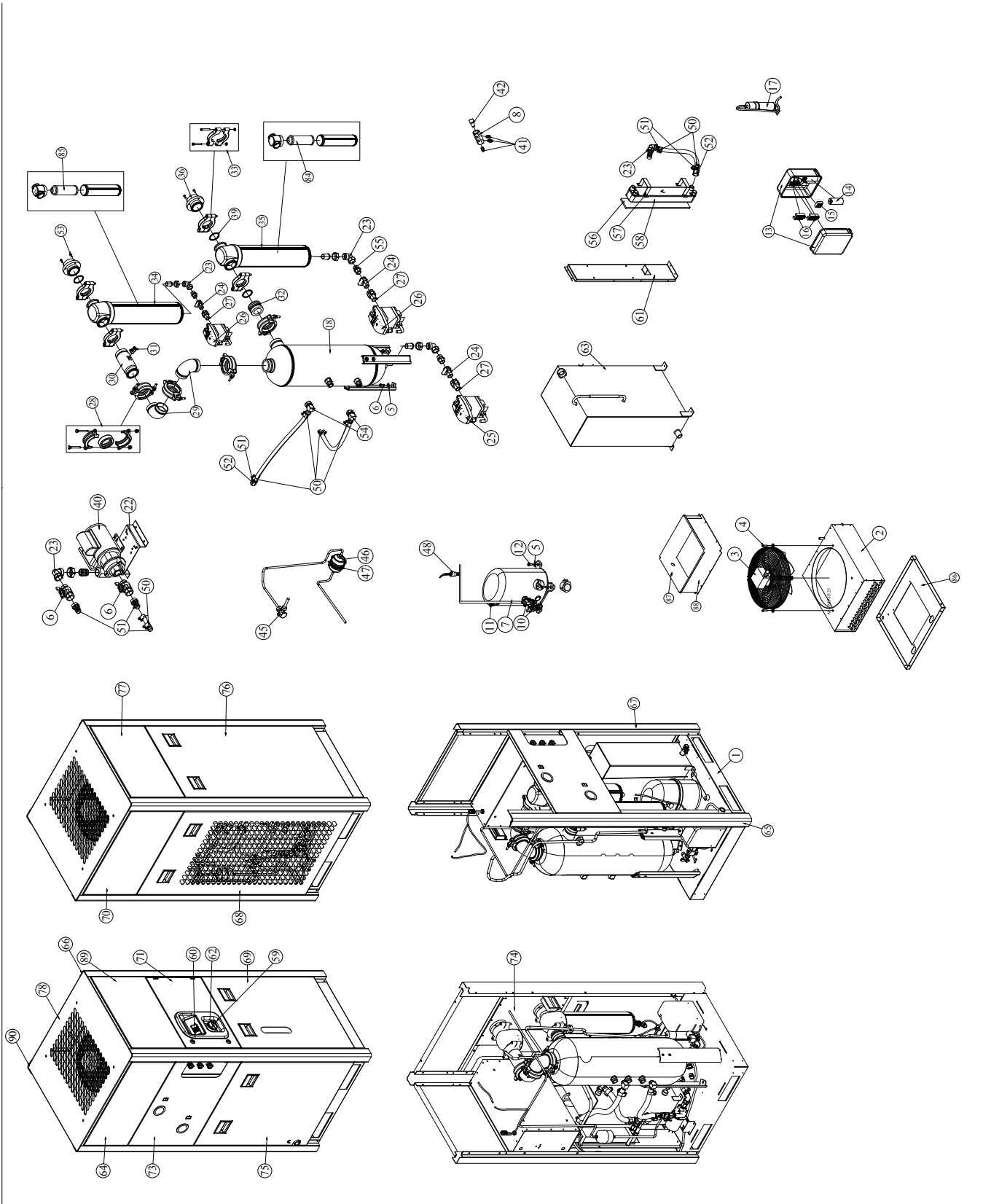
ODRC 250
(460V/3Ph/60Hz)

	96	MK260E-NIP1/2		1/2" NIPPLE		3
	95	MK130C-ELB-US		ELECTRICAL BOX		
	94	MK260E-CG16		CABLE GLAND PG16		
	93	M-FOP-0700		FAN OVERLOAD PROTECTOR		
	92	M-COP-0325		COMPRESSOR OVERLOAD PROTECTOR		
	91	M-CNT-MP		COMPRESSOR CONTACTOR		
	90	MCY-250-350-425-04		CABINET LEG4		1
	89	MCY-250-350-425-12		CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B		FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A		FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16		CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS		REMOVABLE SHIELD		4
	82	M-CCP-6000		CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630		BOLT M6x30		24
	80	M-NUT-6000		CAGE NUTS		24
	79	M-FAS-6000		CABINET FASTENER		14
	78	MCY-250-350-425-17		CABINET TOP		1
	77	MCY-250-350-425-12		CABINET REAR TOP		1
	76	MCY-250-350-425-15		CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06		CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09		CABINET INSIDE		1
	73	MCY-250-350-425-07		CABINET UPPER LEFT1		1
	72	M-CHN-6000		CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B		CONTROLLER PANEL		1
	70	MCY-250-350-425-14		CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10		CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13		CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02		CABINET LEG3		1
	66	MCY-250-350-425-03		CABINET LEG2		2
	65	MCY-250-350-425-05		CABINET LEG1		1
	64	MCY-250-350-425-8		CABINET UPPER LEFT2		-
	63	M-WTA-130-C		WATER TANK		-
	62	MK130E-MSW		MAIN SWITCH		1
	61	MCY-250-350-425-18		WATER EXCHANGER SUPPORT PLATE		1
	60	MK260C-DPI-24		DIGITAL CONTROLLER		1
	59	MK260C-PCP		PLASTIC CONTROL PANEL		1
	58	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24		WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF		MDF		1
	55	M-FCN-1200		FAN CONTACTOR		1
	54	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815		BOLT M8x15		8
	52	MK260C-SLE-3/4		SLEEVE		1
	51	MK260C-WHR-3/4		WATER HOSE RECORD		1
	50	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	49	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	M-CLP-1200		CLAMP		1
	46	M-DRI-0400		DRYER-DEHYDRATOR		1
	45	M-EXV-0250		EXPANSION VALVE		1
	44	MK130E-DRS-NPT		DRAIN SLEEVE		1
	43	M-DFD-1200		DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		4
	41	MK260E-FTS		FLAT FITTING		1
	40	MK150C-PMP-230		WATER PUMP		2
	39	MK170E-ORG		ORING		4
	38	M-STU-6000		CABINET STUD AND NUT		14
	37	MK130E-PBX		POWER BOX		1
	36	MK130E-CNK3-NPT		CONNECTION CIT3		2
	35	MK130E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK130E-CNK2		CONNECTION CIT2		2
	31	MK260E-BVL		BALL VALVE		1
	30	MK130E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-24-31		BEKO DRAIN		2
	25	MK260C-BKO-24-32		BEKO DRAIN		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		3
	22	MK260C-WPP		WATER PUMP PLATE		1
	21	MK130E-CPT1		CUPPER T1		1
	20	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC		HEAT EXCHANGER		1
	17	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		1
	16	M-PPR-6000		PHASE PROTECTION RELAY		1
	15	M-TRF-3000		TRANSFORMER		1
	14	MK260E-HNG		HINGE		1
	13	MK260E-DLK		DOOR LOCK		1
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK260E-STC		SETTING THE CONNECTION		1
	10	MK130E-RTA2		ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	8	MK150E-DCL		DRAIN COLLECTOR		-
	7	M-CMP-0250-460-3-60		COMPRESSOR		1
	6	MK260C-DBV-3/4		DRAIN BALL VALVE		34
	5	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630		BOLT M6x30		4
	3	M-FMT-0700-400-460-3-50/60		FAN MOTOR		1
	2	M-CON-0400		CONDENSER		1
	1	MCY-250-350-425-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 350 (230V/1Ph/60Hz)



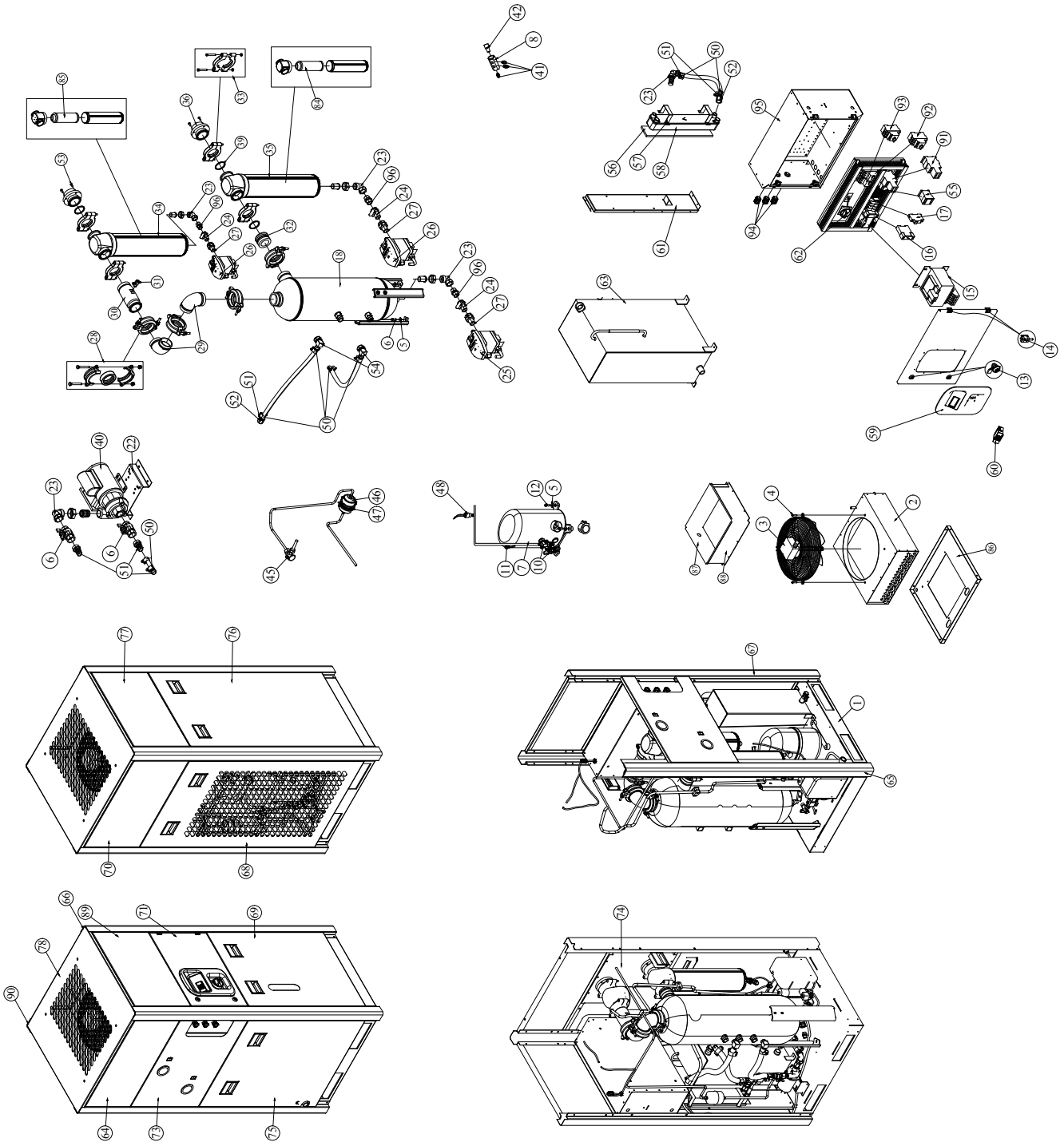
8.1 - ED & Spare Part List
ODRC 350 (230V/1P-
h/60Hz)

	90	MCY-250-350-425-04		CABINET LEG4		1
	89	MCY-250-350-425-12		CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B		FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A		FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16		CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS		REMOVABLE SHIELD		4
	82	M-CCP-6000		CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630		BOLT M6x30		24
	80	M-NUT-6000		CAGE NUTS		24
	79	M-FAS-6000		CABINET FASTENER		14
	78	MCY-250-350-425-17		CABINET TOP		1
	77	MCY-250-350-425-12		CABINET REAR TOP		1
	76	MCY-250-350-425-15		CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06		CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09		CABINET INSIDE		1
	73	MCY-250-350-425-07		CABINET UPPER LEFT1		1
	72	M-CHN-6000		CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B		CONTROLLER PANEL		1
	70	MCY-250-350-425-14		CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10		CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13		CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02		CABINET LEG3		1
	66	MCY-250-350-425-03		CABINET LEG2		2
	65	MCY-250-350-425-05		CABINET LEG1		1
	64	MCY-250-350-425-8		CABINET UPPER LEFT2		-
	63	M-WTA-130-C		WATER TANK		-
	62	M-MNS-1200		MAIN SWITCH		1
	61	MCY-250-350-425-18		WATER EXCHANGER SUPPORT PLATE		1
	60	MK130C-DPI		DIGITAL CONTROLLER		1
	59	MK260C-PCP		PLASTIC CONTROL PANEL		1
	58	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24		WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF		MDF		1
	55	MK260E-NIP1/2		1/2" NIPPLE		3
	54	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815		BOLT M8x15		8
	52	MK260C-SLE-3/4		SLEEVE		1
	51	MK260C-WHR-3/4		WATER HOSE RECORD		1
	50	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	49	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	M-CLP-1200		CLAMP		1
	46	M-DRI-0400		DRYER-DEHYDRATOR		1
	45	M-EXV-0250		EXPANSION VALVE		1
	44	MK130E-DRS-NPT		DRAIN SLEEVE		1
	43	M-DFD-1200		DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		4
	41	MK260E-FTS		FLAT FITTING		1
	40	MK150C-PMP-230		WATER PUMP		2
	39	MK170E-ORG		ORING		4
	38	M-STU-6000		CABINET STUD AND NUT		14
	37	MK130E-PBX		POWER BOX		1
	36	MK130E-CNK3-NPT		CONNECTION CIT3		2
	35	MK130E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK130E-CNK2		CONNECTION CIT2		2
	31	MK260E-BVL		BALL VALVE		1
	30	MK130E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-230-31		BEKO DRAIN		2
	25	MK260C-BKO-230-32		BEKO DRAIN		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		3
	22	MK260C-WPP		WATER PUMP PLATE		1
	21	MK130E-CPT1		CUPPER T1		1
	20	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC		HEAT EXCHANGER		1
	17	M-RUN-0250		RUN CAPACITOR		1
	16	MK130E-TRM1		THERMINAL BLOCK1		1
	15	M-CSR-0250-230-1-60		START RELAY		1
	14	M-CSC-0250-230-1-60		START CAPACITOR		1
	13	M-CEB-0250-230-1-60		COMPRESSOR ELECTRICAL BOX		1
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK260E-STC		SETTING THE CONNECTION		1
	10	MK130E-RTA2		ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	8	MK150E-DCCL		DRAIN COLLECTOR		-
	7	M-CMP-0250-230-1-60		COMPRESSOR		1
	6	MK260C-DBV-3/4		DRAIN BALL VALVE		34
	5	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630		BOLT M6x30		4
	3	M-FMT-0325		FAN MOTOR		1
	2	M-CON-0400		CONDENSER		1
	1	MCY-250-350-425-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 350 (460V/3Ph/60Hz)



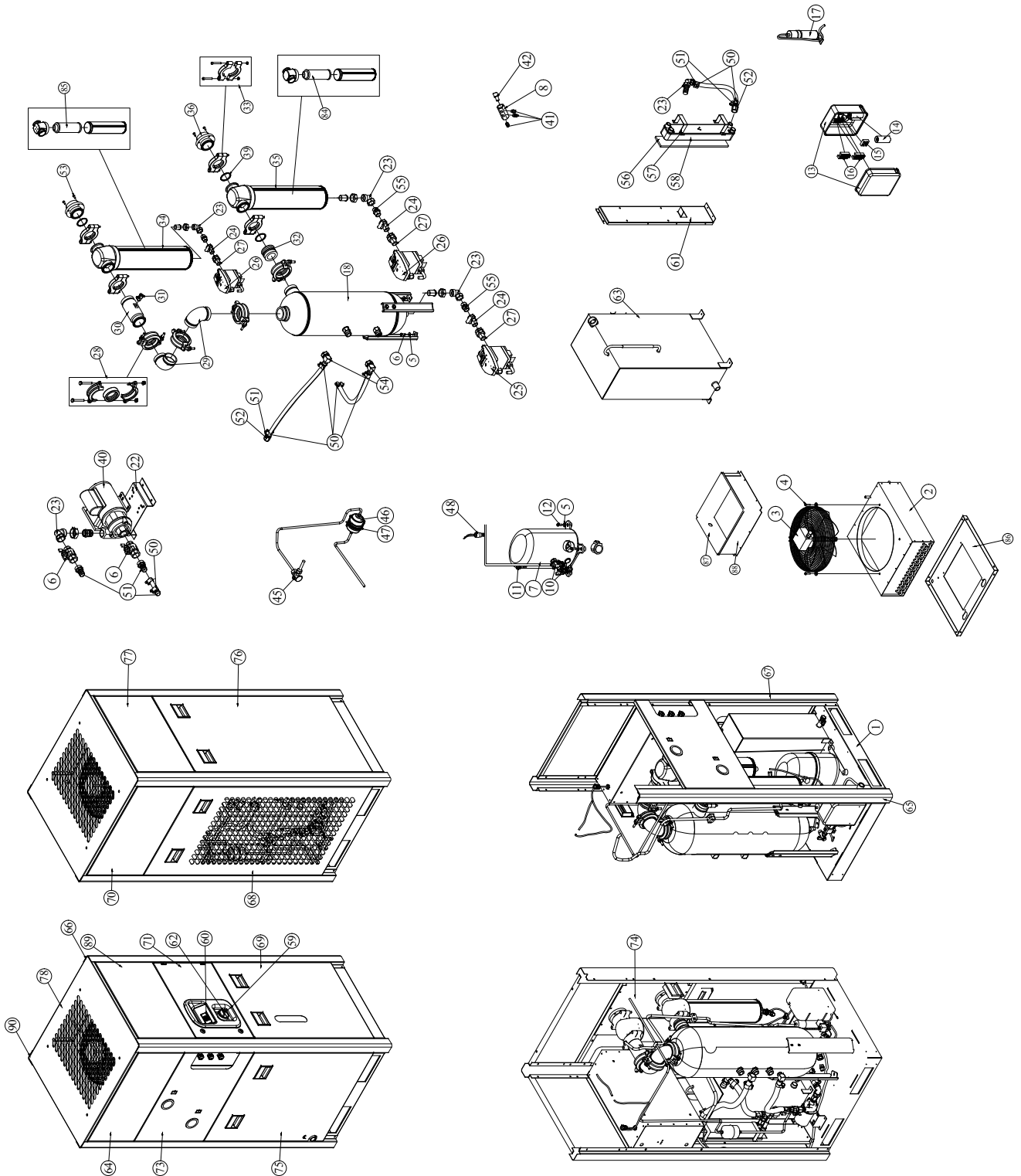
8.1 - ED & Spare Part List
ODRC 425
(460V/3Ph/60Hz)

	96	MK260E-NIP1/2		1/2" NIPPLE		3
	95	MK130C-ELB-US		ELECTRICAL BOX		
	94	MK260E-CG16		CABLE GLAND PG16		
	93	M-FOP-0700		FAN OVERLOAD PROTECTOR		
	92	M-COP-0325		COMPRESSOR OVERLOAD PROTECTOR		
	91	M-CNT-MP		COMPRESSOR CONTACTOR		
	90	MCY-250-350-425-04		CABINET LEG4		1
	89	MCY-250-350-425-12		CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B		FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A		FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16		CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS		REMOVABLE SHIELD		4
	82	M-CCP-6000		CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630		BOLT M6x30		24
	80	M-NUT-6000		CAGE NUTS		24
	79	M-FAS-6000		CABINET FASTENER		14
	78	MCY-250-350-425-17		CABINET TOP		1
	77	MCY-250-350-425-12		CABINET REAR TOP		1
	76	MCY-250-350-425-15		CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06		CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09		CABINET INSIDE		1
	73	MCY-250-350-425-07		CABINET UPPER LEFT1		1
	72	M-CHN-6000		CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B		CONTROLLER PANEL		1
	70	MCY-250-350-425-14		CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10		CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13		CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02		CABINET LEG3		1
	66	MCY-250-350-425-03		CABINET LEG2		2
	65	MCY-250-350-425-05		CABINET LEG1		1
	64	MCY-250-350-425-8		CABINET UPPER LEFT2		-
	63	M-WTA-130-C		WATER TANK		-
	62	MK130E-MSW		MAIN SWITCH		1
	61	MCY-250-350-425-18		WATER EXCHANGER SUPPORT PLATE		1
	60	MK260C-DPI-24		DIGITAL CONTROLLER		1
	59	MK260C-PCP		PLASTIC CONTROL PANEL		1
	58	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24		WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF		MDF		1
	55	M-FCN-1200		FAN CONTACTOR		1
	54	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815		BOLT M8x15		8
	52	MK260C-SLE-3/4		SLEEVE		1
	51	MK260C-WHR-3/4		WATER HOSE RECORD		1
	50	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	49	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	M-CLP-1200		CLAMP		1
	46	M-DRI-0400		DRYER-DEHYDRATOR		1
	45	M-EXV-0250		EXPANSION VALVE		1
	44	MK130E-DRS-NPT		DRAIN SLEEVE		1
	43	M-DFD-1200		DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		4
	41	MK260E-FTS		FLAT FITTING		1
	40	MK150C-PMP-230		WATER PUMP		2
	39	MK170E-ORG		ORING		4
	38	M-STU-6000		CABINET STUD AND NUT		14
	37	MK130E-PBX		POWER BOX		1
	36	MK130E-CNK3-NPT		CONNECTION CIT3		2
	35	MK130E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK130E-CNK2		CONNECTION CIT2		2
	31	MK260E-BVL		BALL VALVE		1
	30	MK130E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-24-31		BEKO DRAIN		2
	25	MK260C-BKO-24-32		BEKO DRAIN		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		3
	22	MK260C-WPP		WATER PUMP PLATE		1
	21	MK130E-CPT1		CUPPER T1		1
	20	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC		HEAT EXCHANGER		1
	17	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		1
	16	M-PPR-6000		PHASE PROTECTION RELAY		1
	15	M-TRF-3000		TRANSFORMER		1
	14	MK260E-HNG		HINGE		1
	13	MK260E-DLK		DOOR LOCK		1
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK260E-STC		SETTING THE CONNECTION		1
	10	MK130E-RTA2		ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	8	MK150E-DCL		DRAIN COLLECTOR		-
	7	M-CMP-0250-460-3-60		COMPRESSOR		1
	6	MK260C-DBV-3/4		DRAIN BALL VALVE		34
	5	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630		BOLT M6x30		4
	3	M-FMT-0700-400-460-3-50-60		FAN MOTOR		1
	2	M-CON-0400		CONDENSER		1
	1	MCY-250-350-425-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 425 (230V/1Ph/60Hz)



8.1 - ED & Spare Part List

ODRC 425

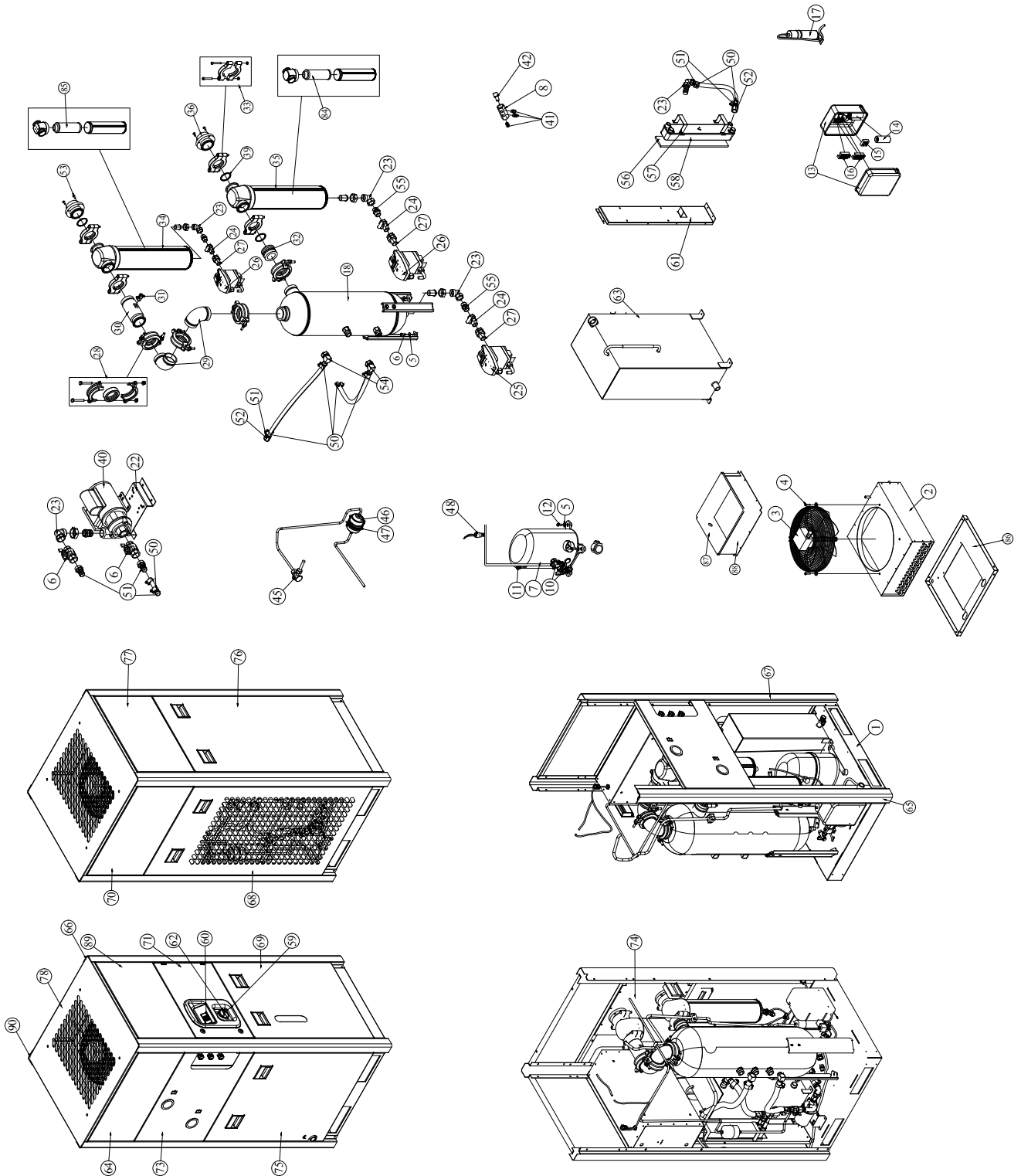
(230V/1Ph/60Hz)

	90	MCY-250-350-425-04	CABINET LEG4		1
	89	MCY-250-350-425-12	CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B	FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A	FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16	CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y	COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X	COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS	REMOVABLE SHIELD		4
	82	M-CCP-6000	CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630	BOLT M6x30		24
	80	M-NUT-6000	CAGE NUTS		24
	79	M-FAS-6000	CABINET FASTENER		14
	78	MCY-250-350-425-17	CABINET TOP		1
	77	MCY-250-350-425-12	CABINET REAR TOP		1
	76	MCY-250-350-425-15	CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06	CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09	CABINET INSIDE		1
	73	MCY-250-350-425-07	CABINET UPPER LEFT1		1
	72	M-CHN-6000	CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B	CONTROLLER PANEL		1
	70	MCY-250-350-425-14	CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10	CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13	CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02	CABINET LEG3		1
	66	MCY-250-350-425-03	CABINET LEG2		2
	65	MCY-250-350-425-05	CABINET LEG1		1
	64	MCY-250-350-425-8	CABINET UPPER LEFT2		-
	63	M-WTA-130-C	WATER TANK		-
	62	M-MNS-1200	MAIN SWITCH		1
	61	MCY-250-350-425-18	WATER EXCHANGER SUPPORT PLATE		1
	60	MK130C-DPI	DIGITAL CONTROLLER		1
	59	MK260C-PCP	PLASTIC CONTROL PANEL		1
	58	M-WHC-0400	EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24	WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF	MDF		1
	55	MK260E-NIP1/2	1/2" NIPPLE		3
	54	M-RTA-3000	ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815	BOLT M8x15		8
	52	MK260C-SLE-3/4	SLEEVE		1
	51	MK260C-WHR-3/4	WATER HOSE RECORD		1
	50	MK260C-WHC-3/4	WATER HOSE CLAMP		1
	49	M-TSC-6000	T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200	HIGH PRESSURE SWICH		1
	47	M-CLP-1200	CLAMP		1
	46	M-DRI-0400	DRYER-DEHYDRATOR		1
	45	M-EXV-0500	EXPANSION VALVE		1
	44	MK130E-DRS-NPT	DRAIN SLEEVE		1
	43	M-DFD-1200	DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT	DRAIN SLEEVE		4
	41	MK260E-FTS	FLAT FITTING		1
	40	MK150C-PMP-230	WATER PUMP		2
	39	MK170E-ORG	ORING		4
	38	M-STU-6000	CABINET STUD AND NUT		14
	37	MK130E-PBX	POWER BOX		1
	36	MK130E-CNK3-NPT	CONNECTION CIT3		2
	35	MK130E-ELK-X	COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y	COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2	COUPLING CLAMP2		4
	32	MK130E-CNK2	CONNECTION CIT2		2
	31	MK260E-BVL	BALL VALVE		1
	30	MK130E-CNK1	CONNECTION CIT1		1
	29	MK170E-ELW2	ELBOW2		2
	28	MK260E-CPG1	COUPLING CLAMP1		4
	27	MK260C-RKR	1/2" RECORD		3
	26	MK260C-BKO-230-31	BEKO DRAIN		2
	25	MK260C-BKO-230-32	BEKO DRAIN		1
	24	M-DBV-6000	DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4	ELBOW 3/4		3
	22	MK260C-WPP	WATER PUMP PLATE		1
	21	MK130E-CPT1	CUPPER T1		1
	20	M-RTA-5000-2	ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3	ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC	HEAT EXCHANGER		1
	17	M-RUN-0325	RUN CAPACITOR		1
	16	MK130E-TRM1	TERMINAL BLOCK1		1
	15	MK130E-CSR	START RELAY		1
	14	MK130E-CSC	START CAPACITOR		1
	13	MK130E-CEB	COMPRESSOR ELECTRICAL BOX		1
	12	MK260E-BLT850	BOLT M8x50		4
	11	MK260E-STC	SETTING THE CONNECTION		1
	10	MK130E-RTA2	ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1	ROTOLOCK ADAPTOR1		1
	8	MK150E-DCL	DRAIN COLLECTOR		-
	7	M-CMP-0325-230-1-60	COMPRESSOR		1
	6	MK260C-DBV-3/4	DRAIN BALL VALVE		34
	5	MK260E-WHR22	WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630	BOLT M6x30		4
	3	M-FMT-0325	FAN MOTOR		1
	2	M-CON-0400	CONDENSER		1
	1	MCY-250-350-425-01	CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.	DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 425 (460V/3Ph/60Hz)



8.1 - ED & Spare Part List

ODRC 425

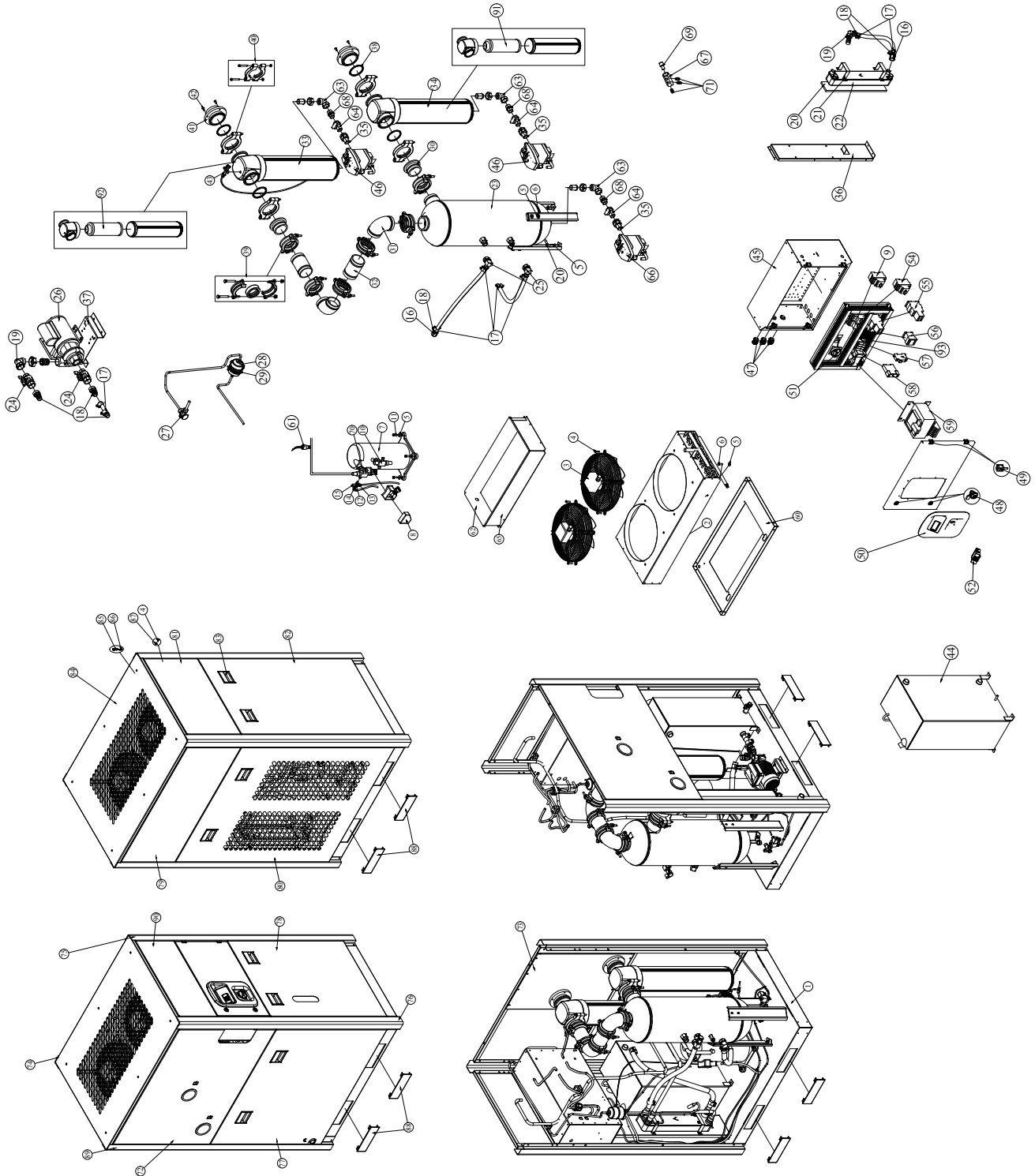
(460V/3Ph/60Hz)

	96	MK260E-NIP1/2		1/2" NIPPLE		3
	95	MK130C-ELB-US		ELECTRICAL BOX		1
	94	MK260E-CG16		CABLE GLAND PG16		1
	93	M-FOP-0700		FAN OVERLOAD PROTECTOR		1
	92	M-COP-0325		COMPRESSOR OVERLOAD PROTECTOR		1
	91	M-CNT-MP		COMPRESSOR CONTACTOR		1
	90	MCY-250-350-425-04		CABINET LEG4		1
	89	MCY-250-350-425-12		CABINET FRONT BOTTOM 2		1
	88	MCY-250-350-425-19-B		FAN MOTOR PROTECTION CASE		1
	87	MCY-250-350-425-19-A		FAN MOTOR PROTECTION CASE		1
	86	MCY-250-350-425-16		CONDENSER SUPPORT PLATE		1
	85	MK130E-FIE-Y		COMPRESSED AIR FILTER ELEMENT (Y)		1
	84	MK130E-FIE-X		COMPRESSED AIR FILTER ELEMENT (X)		1
	83	MK190E-CFS		REMOVABLE SHIELD		4
	82	M-CCP-6000		CONDUIT FOR CONTROL PANEL		1
	81	MK260E-BLT630		BOLT M6x30		24
	80	M-NUT-6000		CAGE NUTS		24
	79	M-FAS-6000		CABINET FASTENER		14
	78	MCY-250-350-425-17		CABINET TOP		1
	77	MCY-250-350-425-12		CABINET REAR TOP		1
	76	MCY-250-350-425-15		CABINET REAR BOTTOM		1
	75	MCY-250-350-425-06		CABINET BOTTOM LEFT		1
	74	MCY-250-350-425-09		CABINET INSIDE		1
	73	MCY-250-350-425-07		CABINET UPPER LEFT1		1
	72	M-CHN-6000		CABINET HANDLE (NEW)		6
	71	MCY-250-350-425-11B		CONTROLLER PANEL		1
	70	MCY-250-350-425-14		CABINET UPPER RIGHT		1
	69	MCY-250-350-425-10		CABINET FRONT BOTTOM 1		1
	68	MCY-250-350-425-13		CABINET LOWER RIGHT		1
	67	MCY-250-350-425-02		CABINET LEG3		1
	66	MCY-250-350-425-03		CABINET LEG2		2
	65	MCY-250-350-425-05		CABINET LEG1		1
	64	MCY-250-350-425-8		CABINET UPPER LEFT2		-
	63	M-WTA-130-C		WATER TANK		-
	62	MK130E-MSW		MAIN SWITCH		1
	61	MCY-250-350-425-18		WATER EXCHANGER SUPPORT PLATE		1
	60	MK260C-DPI-24		DIGITAL CONTROLLER		1
	59	MK260C-PCP		PLASTIC CONTROL PANEL		1
	58	M-WHC-0400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	57	MCY-250-350-425-24		WATER HEAT EXCHANGER CLAMP		2
	56	MK110C-MDF		MDF		1
	55	M-FCN-1200		FAN CONTACTOR		1
	54	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	53	MK170E-BLT815		BOLT M8x15		8
	52	MK260C-SLE-3/4		SLEEVE		1
	51	MK260C-WHR-3/4		WATER HOSE RECORD		1
	50	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	49	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	48	M-HPS-0200		HIGH PRESSURE SWICH		1
	47	M-CLP-1200		CLAMP		1
	46	M-DRI-0400		DRYER-DEHYDRATOR		1
	45	M-EXV-0500		EXPANSION VALVE		1
	44	MK130E-DRS-NPT		DRAIN SLEEVE		1
	43	M-DFD-1200		DRAIN FIXING DEVICE		1
	42	MK130E-DRS-NPT		DRAIN SLEEVE		4
	41	MK260E-FTS		FLAT FITTING		1
	40	MK150C-PMP-230		WATER PUMP		2
	39	MK170E-ORG		ORING		4
	38	M-STU-6000		CABINET STUD AND NUT		14
	37	MK130E-PBX		POWER BOX		1
	36	MK130E-CNK3-NPT		CONNECTION CIT3		2
	35	MK130E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	34	MK130E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	33	MK170E-CPG2		COUPLING CLAMP2		4
	32	MK130E-CNK2		CONNECTION CIT2		2
	31	MK260E-BVL		BALL VALVE		1
	30	MK130E-CNK1		CONNECTION CIT1		1
	29	MK170E-ELW2		ELBOW2		2
	28	MK260E-CPG1		COUPLING CLAMP1		4
	27	MK260C-RKR		1/2" RECORD		3
	26	MK260C-BKO-24-31		BEKO DRAIN		2
	25	MK260C-BKO-24-32		BEKO DRAIN		1
	24	M-DBV-6000		DRAIN BALL VALVE		3
	23	MK260C-ELW 3/4		ELBOW 3/4		3
	22	MK260C-WPP		WATER PUMP PLATE		1
	21	MK130E-CPT1		CUPPER T1		1
	20	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	19	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	18	MK170C-EXC		HEAT EXCHANGER		1
	17	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		1
	16	M-PPR-6000		PHASE PROTECTION RELAY		1
	15	M-TRF-3000		TRANSFORMER		1
	14	MK260E-HNG		HINGE		1
	13	MK260E-DLK		DOOR LOCK		1
	12	MK260E-BLT850		BOLT M8x50		4
	11	MK260E-STC		SETTING THE CONNECTION		1
	10	MK130E-RTA2		ROTOLOCK ADAPTOR2		1
	9	MK130E-RTA1		ROTOLOCK ADAPTOR1		1
	8	MK150E-DCL		DRAIN COLLECTOR		-
	7	M-CMP-0325-460-3-60		COMPRESSOR		1
	6	MK260C-DBV-3/4		DRAIN BALL VALVE		34
	5	MK260E-WHR22		WASHER Ø22x8.2x2.4		14
	4	MK260E-BLT630		BOLT M6x30		4
	3	M-FMT-0700-400-460-3-50-60		FAN MOTOR		1
	2	M-CON-0400		CONDENSER		1
	1	MCY-250-350-425-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO.		DESCRIPTION	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 550



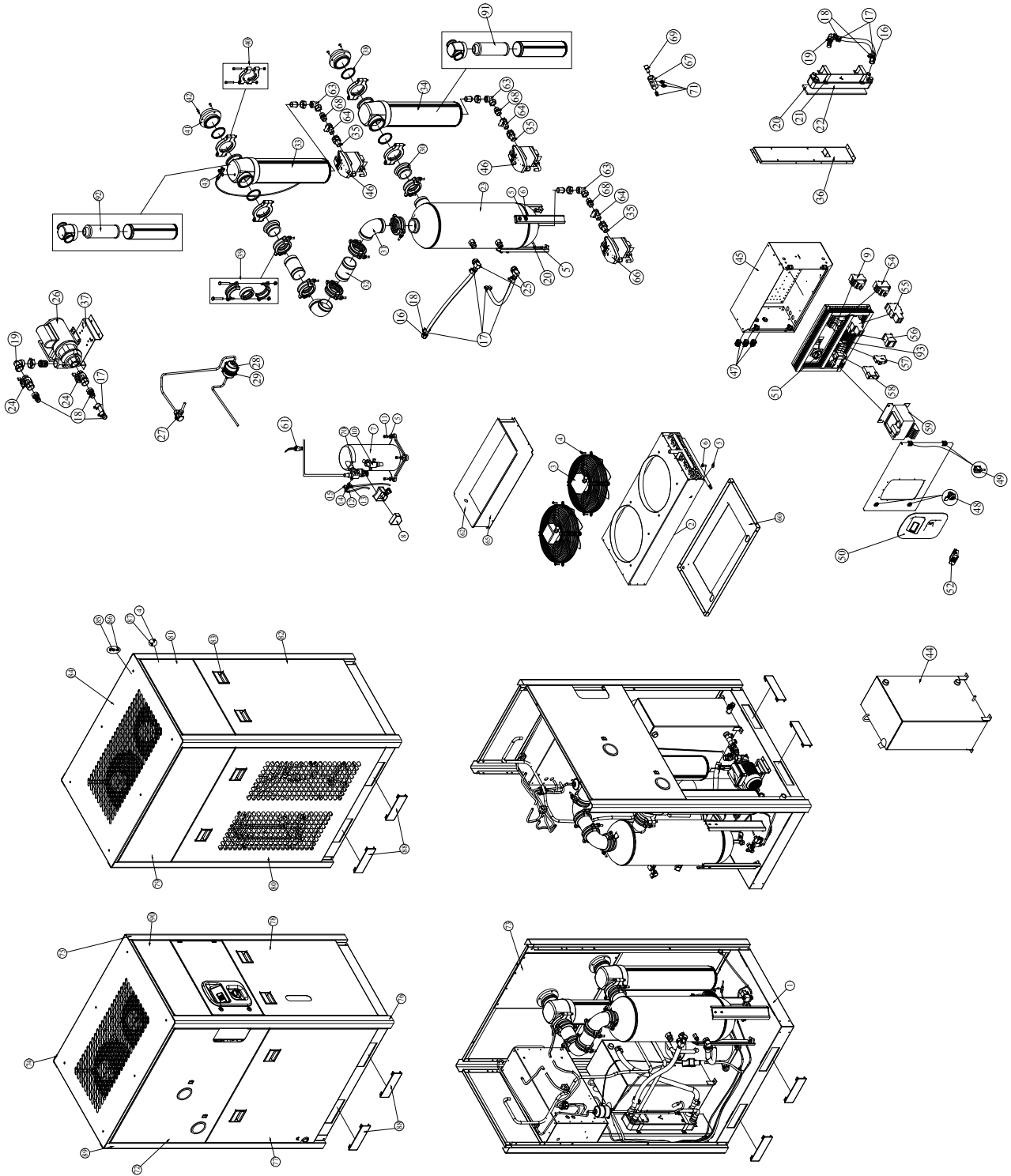
8.1 - ED & Spare Part List
ODRC 550

92	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
92	MK150E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
91	MK150E-FIE-X		COMPRESSED AIR FILTER (X)		1
90	MCY550-700-07		CABINET FRONT BOTTOM2		1
89	MCY550-700-05		CABINET LEG4		1
88	MK190E-RMS		REMOVABLE SHIELD		4
87	M-NUT-6000		CAGE NUT		26
86	M-FAS-6000		CABINET FASTENER		14
85	M-STU-6000		CABINET STUD AND NUT		14
84	MCY550-700-19		CABINET TOP		1
83	M-CHN-6000		CABINET HANDLE		1
82	MCY550-700-10		CABINET REAR BOTTOM		1
81	MCY550-700-11		CABINET REAR TOP		1
80	MCY550-700-08		CABINET LOWER RIGHT		1
79	MCY550-700-09		CABINET UPPER RIGHT		1
78	MCY550-700-06		CABINET FRONT BOTTOM1		1
77	MCY550-700-12		CABINET BOTTOM LEFT		1
76	MCY550-700-02		CABINET LEG3		1
75	MCY550-700-03		CABINET LEG2		2
74	MRC550-700-04		CABINET LEG1		1
73	MCY550-700-14		CABINET INSIDE		1
72	MCY550-700-13		CABINET UPPER LEFT		1
71	MK260E-FTS		FLAT FITTING		2
70	MK150E-RTA2		ROTOLOCK ADAPTOR2		1
69	MK150E-DRS-NPT		DRAIN SLEEVE		1
68	MK260E-NIP1/2		1/2" NIPPLE		3
67	MK150E-DCL		DRAIN COLLECTOR		2
66	MK260C-BKO-24-32		BEKO DRAIN		1
65	MCY550-700-18B		FAN MOTOR PROTECTION CASE		1
64	M-DBV-6000		DRAIN BALL VALVE		1
63	MK260E-ELW1		ELBOW1		1
62	MCY550-700-18A		FAN MOTOR PROTECTION CASE		1
61	M-HPS-0200		HIGH PRESSURE SWITCH		1
60	MCY550-700-15		CONDENSER SUPPORT PLATE		1
59	M-TRF-3000		TRANSFORMER		1
58	M-PPR-6000		PHASE PROTECTION RELAY		1
57	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
56	M-FCN-1200		FAN CONTACTOR		2
55	M-CNT-1200		COMPRESSOR CONTACTOR		1
54	MK150E-COP		COMPRESSOR OVERLOAD PROTECTOR		1
53	MK150E-ELP		ELECTRICAL PANEL		1
52	MK260C-DPI-24		DIGITAL CONTROLLER		1
51	MK130E-MSW		MAIN SWITCH		1
50	MK260C-PCP		PLASTIC CONTROL PANEL		1
49	MK260E-HNG		HINGE		2
48	MK260E-DLK		DOOR LOCK		2
47	MK260E-CG16		CABLE GLAND PG16		8
46	MK260C-BKO-24-31		BEKO DRAIN		2
45	MK150C-ELB-US		ELECTRICAL BOX		1
44	M-WTA-150-C		WATER TANK		4
43	MK260E-BLV		BALL VALVE		1
42	MK170E-BLT815		BOLT M8x15		8
41	MK170E-CNK2-NPT		CONNECTION CIT2		2
40	MK170E-CPG2		COUPLING CLAMP 2		4
39	MK260E-CPG1		COUPLING CLAMP 1		6
38	MK170E-ORG		ORING		1
37	MK260C-WPP		WATER PUMP PLATE		1
36	MCY550-700-16		WATER EXCHANGER SUPPORT PLATE		2
35	MK260C-RKR		1/2" RECORD		1
34	MK150E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
33	MK150E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
32	MK150E-CPP		COUPLING PIPE		2
31	MK170E-ELW1		ELBOW1		2
30	MK150E-CNK1		CONNECTION CIT1		2
29	M-CLP-1200		CLAMP		1
28	M-DRI-0400		DRYER-DEHYDRATOR		1
27	M-EXV-1000		EXPANSION VALVE		1
26	MK150C-PMP-230		WATER PUMP		1
25	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
24	MK260C-DBV-3/4		DRAIN BALL VALVE		1
23	MK260C-EXC		HEAT EXCHANGER		1
22	M-WHC-0500		EVAPORATOR (WATER HEAT EXCHANGER)		1
21	MCY550-700-17		WATER HEAT EXCHANGER CLAMP		1
20	MK110C-MDF		MDF		6
19	MK260C-ELW 3/4		ELBOW 3/4		1
18	MK260C-WHR-3/4		WATER HOSE RECORD		1
17	MK260C-WHC-3/4		WATER HOSE CLAMP		1
16	MK260C-SLE-3/4		SLEEVE		2
15	MK260E-STC		SETTING THE CONNECTION		1
14	MK260E-CTC2		CAPPILARY TUBE CONNECTION2		2
13	MK260E-CTC1		CAPPILARY TUBE CONNECTION1		1
12	M-TSC-6000		T CONNECTION FOR SWITCH CAPILARY		1
11	MK260E-BLT850		BOLT M8x50		4
10	MK160E-RTA1		ROTOLOCK ADAPTOR1		1
09	M-FOP-0700		FAN OVERLOAD PROTECTOR		2
08	MK150E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
07	MK140E-CMP		COMPRESSOR		1
06	MK150E-BLT825		BOLT M8x25		13
05	MK260E-WHR22		WASHER 22x8.2x2.4		20
04	MK260E-BLT630		BOLT M6x30		30
03	M-FMT-0700-400/460-3-50/60		FAN MOTOR		2
02	M-0700-CON		CONDENSER		1
01	MCY550-700-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 700



8.1 - ED & Spare Part List

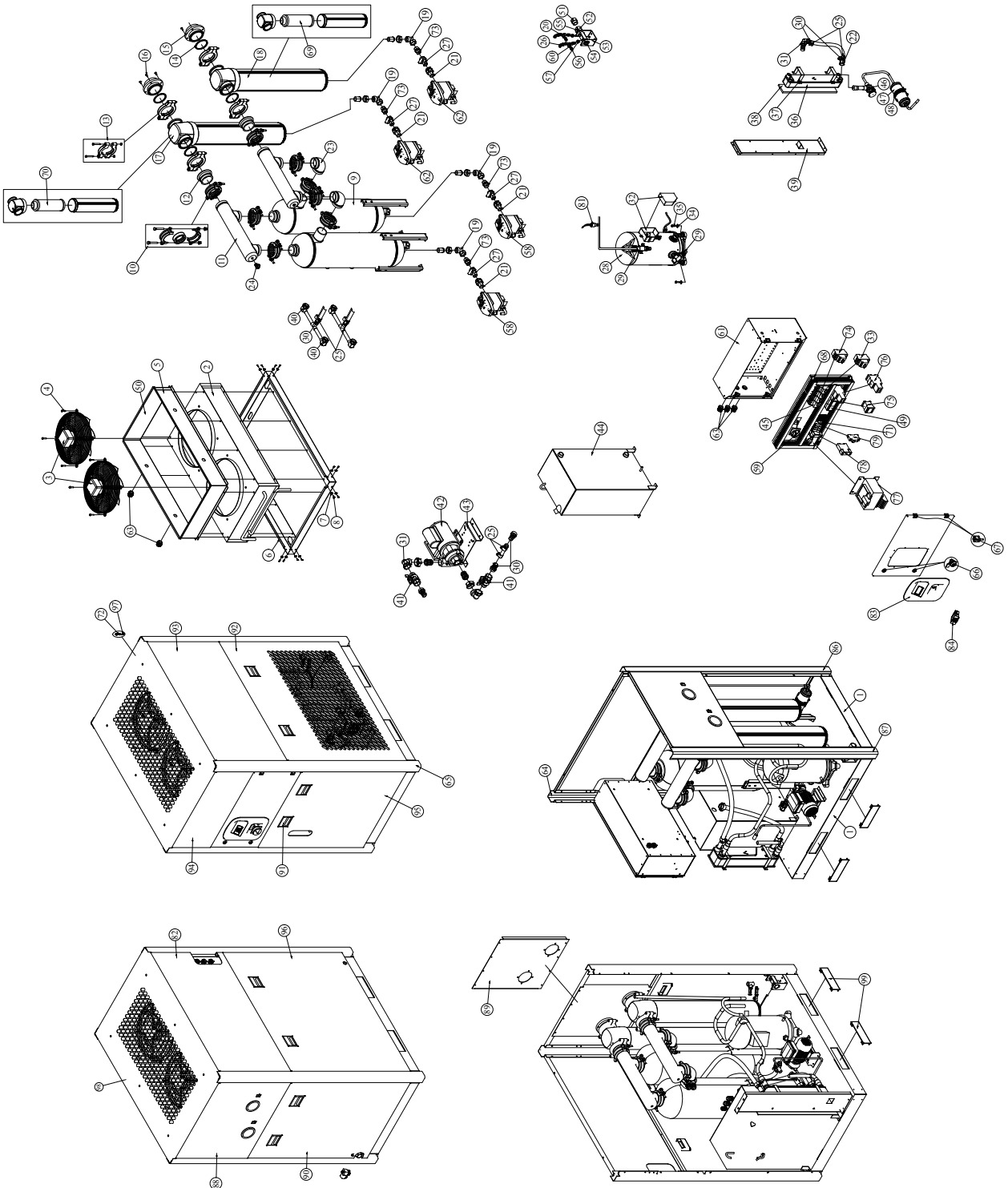
ODRC 700

	92	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	92	MK150E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
	91	MK150E-FIE-X		COMPRESSED AIR FILTER (X)		1
	90	MCY550-700-07		CABINET FRONT BOTTOM2		1
	89	MCY550-700-05		CABINET LEG4		1
	88	MK190E-RMS		REMOVABLE SHIELD		4
	87	M-NUT-6000		CAGE NUT		26
	86	M-FAS-6000		CABINET FASTENER		14
	85	M-STU-6000		CABINET STUD AND NUT		14
	84	MCY550-700-19		CABINET TOP		1
	83	M-CHN-6000		CABINET HANDLE		1
	82	MCY550-700-10		CABINET REAR BOTTOM		1
	81	MCY550-700-11		CABINET REAR TOP		1
	80	MCY550-700-08		CABINET LOWER RIGHT		1
	79	MCY550-700-09		CABINET UPPER RIGHT		1
	78	MCY550-700-06		CABINET FRONT BOTTOM1		1
	77	MCY550-700-12		CABINET BOTTOM LEFT		1
	76	MCY550-700-02		CABINET LEG3		1
	75	MCY550-700-03		CABINET LEG2		2
	74	MRC550-700-04		CABINET LEG1		1
	73	MCY550-700-14		CABINET INSIDE		1
	72	MCY550-700-13		CABINET UPPER LEFT		1
	71	MK260E-FTS		FLAT FITTING		2
	70	MK150E-RTA2		ROTOLOCK ADAPTOR2		1
	69	MK150E-DRS-NPT		DRAIN SLEEVE		1
	68	MK260E-NIP1/2		1/2" NIPPLE		3
	67	MK150E-DCL		DRAIN COLLECTOR		2
	66	MK260C-BKO-24-32		BEKO DRAIN		1
	65	MCY550-700-18B		FAN MOTOR PROTECTION CASE		1
	64	M-DBV-6000		DRAIN BALL VALVE		1
	63	MK260E-ELW1		ELBOW1		1
	62	MCY550-700-18A		FAN MOTOR PROTECTION CASE		1
	61	M-HPS-0200		HIGH PRESSURE SWITCH		1
	60	MCY550-700-15		CONDENSER SUPPORT PLATE		1
	59	M-TRF-3000		TRANSFORMER		1
	58	M-PPR-6000		PHASE PROTECTION RELAY		1
	57	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	56	M-FCN-1200		FAN CONTACTOR		2
	55	M-CNT-1200		COMPRESSOR CONTACTOR		1
	54	MK150E-COP		COMPRESSOR OVERLOAD PROTECTOR		1
	53	MK150E-ELP		ELECTRICAL PANEL		1
	52	MK260C-DPI-24		DIGITAL CONTROLLER		1
	51	MK130E-MSW		MAIN SWITCH		1
	50	MK260C-PCP		PLASTIC CONTROL PANEL		1
	49	MK260E-HNG		HINGE		2
	48	MK260E-DLK		DOOR LOCK		2
	47	MK260E-CG16		CABLE GLAND PG16		8
	46	MK260C-BKO-24-31		BEKO DRAIN		2
	45	MK150C-ELB-US		ELECTRICAL BOX		1
	44	M-WTA-150-C		WATER TANK		4
	43	MK260E-BLV		BALL VALVE		1
	42	MK170E-BLT815		BOLT M8x15		8
	41	MK170E-CNK2-NPT		CONNECTION CIT2		2
	40	MK170E-CPG2		COUPLING CLAMP 2		4
	39	MK260E-CPG1		COUPLING CLAMP 1		6
	38	MK170E-ORG		ORING		1
	37	MK260C-WPP		WATER PUMP PLATE		1
	36	MCY550-700-16		WATER EXCHANGER SUPPORT PLATE		2
	35	MK260C-RKR		1/2" RECORD		1
	34	MK150E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	33	MK150E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	32	MK150E-CPP		COUPLING PIPE		2
	31	MK170E-ELW1		ELBOW1		2
	30	MK150E-CNK1		CONNECTION CIT1		2
	29	M-CLP-1200		CLAMP		1
	28	M-DRI-0400		DRYER-DEHYDRATOR		1
	27	M-EXV-1000		EXPANSION VALVE		1
	26	MK150C-PMP-230		WATER PUMP		1
	25	M-RTA-3000		ROTOLOCK VALVE HOSE ADAPTOR FOR HEAT EXCHANGER		1
	24	MK260C-DBV-3/4		DRAIN BALL VALVE		1
	23	MK260C-EXC		HEAT EXCHANGER		1
	22	M-WHC-0500		EVAPORATOR (WATER HEAT EXCHANGER)		1
	21	MCY550-700-17		WATER HEAT EXCHANGER CLAMP		1
	20	MK110C-MDF		MDF		6
	19	MK260C-ELW 3/4		ELBOW 3/4		1
	18	MK260C-WHR-3/4		WATER HOSE RECORD		1
	17	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	16	MK260C-SLE-3/4		SLEEVE		2
	15	MK260E-STC		SETTING THE CONNECTION		1
	14	MK260E-CTC2		CAPPILARY TUBE CONNECTION2		2
	13	MK260E-CTC1		CAPPILARY TUBE CONNECTION1		1
	12	M-TSC-6000		T CONNECTION FOR SWITCH CAPILLARY		1
	11	MK260E-BLT850		BOLT M8x50		4
	10	MK160E-RTA1		ROTOLOCK ADAPTOR1		1
	09	M-FOP-0700		FAN OVERLOAD PROTECTOR		2
	08	MK150E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	07	M-CMP-0500-460-3-60		COMPRESSOR		1
	06	MK150E-BLT825		BOLT M8x25		13
	05	MK260E-WHR22		WASHER 22x8.2x2.4		20
	04	MK260E-BLT630		BOLT M6x30		30
	03	M-FMT-0700-400/460-3-50/60		FAN MOTOR		2
	02	M-0700-CON		CONDENSER		1
	01	MCY550-700-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 900



8.1 - ED & Spare Part List

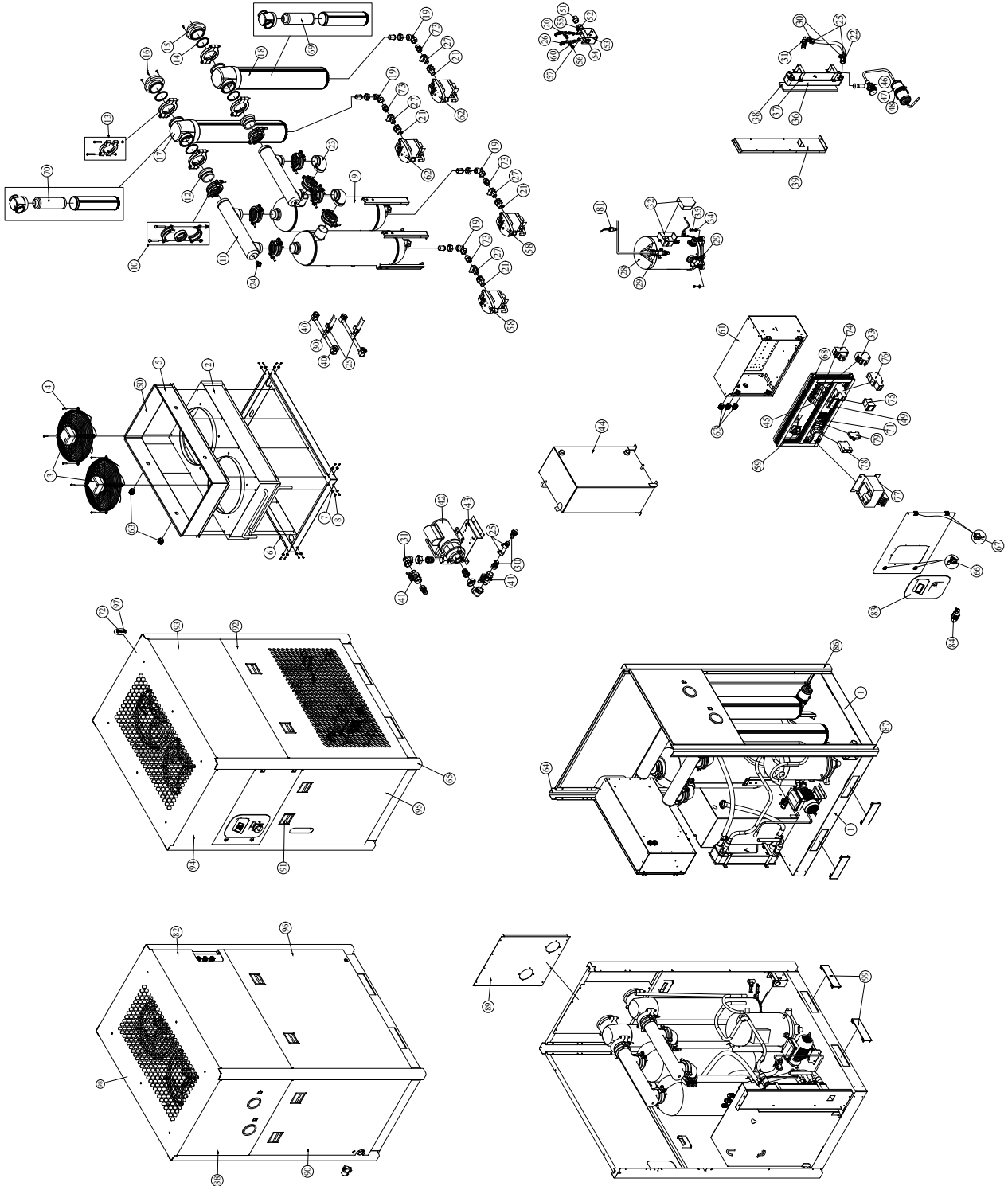
ODRC 900

	101	N/A		N/A		-
	100	N/A		N/A		-
	99	MK190E-RMS		REMOVABLE SHIELD		4
	98	MCY900-1100-11		CABINET TOP		1
	97	M-FAS-6000		CABINET FASTENER		14
	96	MCY900-1100-15		CABINET SIDE BOTTOM2		1
	95	MCY900-1100-07		CABINET FRONT BOTTOM		1
	94	MCY900-1100-08		CABINET FRONT TOP		1
	93	MCY900-1100-10		CABINET SIDE TOP		2
	92	MCY900-1100-09		CABINET SIDE BOTTOM1		1
	91	M-GHN-6000		CABINET HANDLE		6
	90	MCY900-1100-12		CABINET REAR BOTTOM		1
	89	MCY900-1100-14		CABINET INSIDE		1
	88	MCY900-1100-13		CABINET REAR TOP		1
	87	MCY900-1100-05		CABINET LEG4		1
	86	MCY900-1100-06		CABINET LEG3		1
	85	N/A		N/A		-
	84	MK260C-DPI-24		DIGITAL CONTROLLER		1
	83	MK260C-PCP		PLASTIC CONTROL PANEL		1
	82	MCY900-1100-16		CABINET SIDE TOP		1
	81	M-HPS-0200		HIGH PRESSURE SWITCH		1
	80	N/A		N/A		-
	79	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	78	M-PPR-6000		PHASE PROTECTION RELAY		1
	77	M-TRF-3000		TRANSFORMER		1
	76	M-CNT-1200		COMPRESSOR CONTACTOR		1
	75	M-FCN-1200		FAN CONTACTOR		2
	74	M-FOP-1200		FAN OVERLOAD PROTECTION		2
	73	MK260E-NIP1/2		1/2" NIPPLE		4
	72	M-STU-6000		CABINET STUD AND NUT		14
	71	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	70	MK170E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
	69	MK170E-FIE-X		COMPRESSED AIR FILTER (X)		1
	68	MCY900-1100-ELP		ELECTRICAL PANEL		1
	67	MK260E-HNG		HINGE		3
	66	MK260E-DLK		DOOR LOCK		3
	65	MCY900-1100-04		CABINET LEG2		1
	64	MCY900-1100-03		CABINET LEG1		1
	63	M-CCP-6000		CONDUIT FOR CONTROL PANEL		10
	62	MK260C-BKO-24-31		BEKO DRAIN		2
	61	MK170E-ELB-US		ELECTRICAL BOX		1
	60	MK170E-NIP1/4		1 / 4" NIPPLE		2
	59	MK130E-MSW		MAIN SWITCH		1
	58	MK260C-BKO-24-32		BEKO DRAIN		2
	57	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
	56	MK260E-FTT		FLAT FITTINGS		2
	55	MK260E-MBC2		MANIFOLD BLIND CAP2		1
	54	MK260E-MBC1		MANIFOLD BLIND CAP1		1
	53	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		1
	52	MK190E-DRM		DRAIN MANIFOLD		1
	51	MK260E-DRS-NPT		DRAIN SLEEVE		1
	50	MCY900-1100-16		FAN PROTECTOR		2
	49	M-CNT-MP		WATER PUMP CONTACTOR		2
	48	M-CLP-1200		CLAMP		1
	47	M-DRI-0700		DRYER-DEHYDRATOR		1
	46	M-EXV-1200		EXPANSION VALVE		1
	45	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		1
	44	M-WTA-170-C		WATER TANK		2
	43	MK260C-WPP		WATER PUMP PLATE		3
	42	M-PMP-1200-230		WATER PUMP		1
	41	MK260C-DBV-3/4		DRAIN BALL VALVE		2
	40	M-RTA-5000-1		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	39	MCY900-1100-18		WATER EXCHANGER SUPPORT PLATE		1
	38	MK1200C-MDF		MDF		1
	37	MCY900-1100-19		WATER HEAT EXCHANGER CLAMP		2
	36	M-WHC-1200		EVAPORATOR (WATER HEAT EXCHANGER)		2
	35	MK260E-BLT850		BOLT M8x50		10
	34	MK260E-WHR22		WASHER 22x8 2x2.4		10
	33	M-COP-1600		COMPRESSOR OVERLOAD PROTECTION		1
	32	MK160E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	31	MK260C-ELW 3/4		ELBOW 3/4		2
	30	MK260C-WHR-3/4		WATER HOSE RECORD		6
	29	MK260E-RTA1		ROTOLOCK ADAPTOR1		3
	28	MK160E-CMP		COMPRESSOR		1
	27	M-DBV-6000		DRAIN VALVE		2
	26	MK260E-EWF		ELBOW FITTINGS		2
	25	MK260C-WHC-3/4		WATER HOSE CLAMP		6
	24	MK260E-BLV		BALL VALVE		1
	23	MK170E-ELW		ELBOW		2
	22	MK260C-SLE-3/4		SLEEVE		1
	21	MK260C-RKR		1/2" RECORD		1
	20	MK170E-T1/4		1 / 4" T CONNECTOR		3
	19	MK260E-ELW1		ELBOW1		2
	18	MK170E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	17	MK170E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	16	MK170E-BLT815		BOLT M8x15		8
	15	MK170E-CNK2-NPT		CONNECTION KIT 2		2
	14	MK170E-ORG		ORING		4
	13	MK170E-CPG2		COUPLING CLAMP 2		4
	12	MK170E-CNK1		CONNECTION KIT 1		2
	11	MK170E-CLL		COLLECTOR		2
	10	MK260E-CPG1		COUPLING CLAMP 1		8
	09	MK170C-EXC		HEAT EXCHANGER		2
	08	MK260E-BLT630		BOLT M6x30		48
	07	M-NUT-6000		CAGE NUT M6		48
	06	MCY900-1100-17		CONDENSER REINFORCEMENT PLATE		1
	05	MCY900-1100-15		FAN PROTECTOR		1
	04	MK260E-BLT630		BOLT M6x30		8
	03	M-FMT-1200-400/460-3-50/60		FAN MOTOR		2
	02	MK170E-CON		CONDENSER		1
	01	MCY900-1100-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 1100



8.1 - ED & Spare Part List

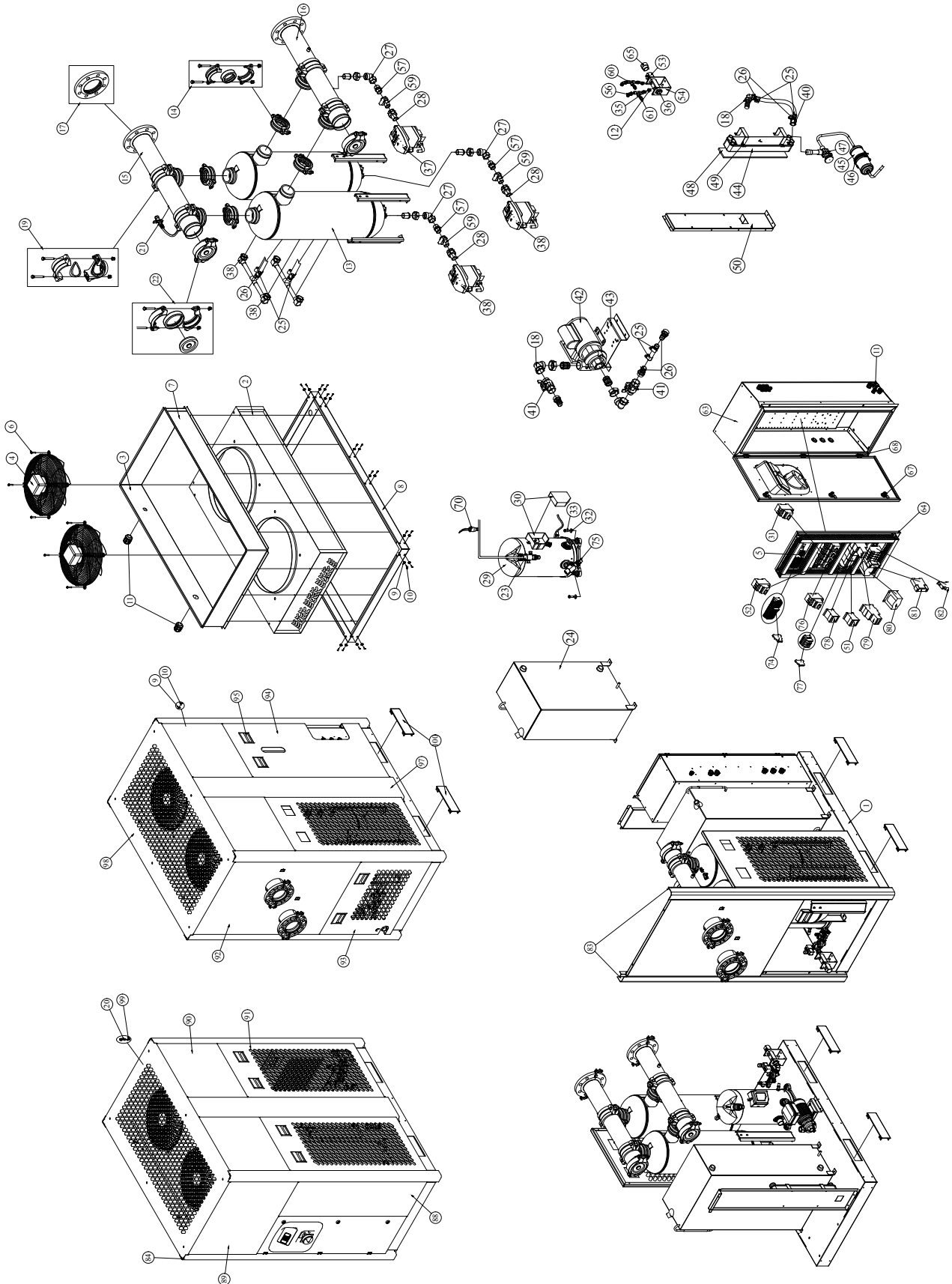
ODRC 1100

	101	N/A		N/A		-
	100	N/A		N/A		-
	99	MK190E-RMS		REMOVABLE SHIELD		4
	98	MCY900-1100-11		CABINET TOP		1
	97	M-FAS-6000		CABINET FASTENER		14
	96	MCY900-1100-15		CABINET SIDE BOTTOM2		1
	95	MCY900-1100-07		CABINET FRONT BOTTOM		1
	94	MCY900-1100-08		CABINET FRONT TOP		1
	93	MCY900-1100-10		CABINET SIDE TOP		2
	92	MCY900-1100-09		CABINET SIDE BOTTOM1		1
	91	M-CHN-6000		CABINET HANDLE		6
	90	MCY900-1100-12		CABINET REAR BOTTOM		1
	89	MCY900-1100-14		CABINET INSIDE		1
	88	MCY900-1100-13		CABINET REAR TOP		1
	87	MCY900-1100-05		CABINET LEG4		1
	86	MCY900-1100-06		CABINET LEG3		1
	85	N/A		N/A		-
	84	MK260C-DPI-24		DIGITAL CONTROLLER		1
	83	MK260C-PCP		PLASTIC CONTROL PANEL		1
	82	MCY900-1100-16		CABINET SIDE TOP		1
	81	M-HPS-0200		HIGH PRESSURE SWITCH		1
	80	N/A		N/A		-
	79	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	78	M-PPR-6000		PHASE PROTECTION RELAY		1
	77	M-TRF-3000		TRANSFORMER		1
	76	M-CNT-1200		COMPRESSOR CONTACTOR		1
	75	M-FCN-1200		FAN CONTACTOR		2
	74	M-FOP-1200		FAN OVERLOAD PROTECTION		2
	73	MK260E-NIP1/2		1/2" NIPPLE		4
	72	M-STU-6000		CABINET STUD AND NUT		14
	71	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	70	MK170E-FIE-Y		COMPRESSED AIR FILTER (Y)		1
	69	MK170E-FIE-X		COMPRESSED AIR FILTER (X)		1
	68	MCY900-1100-ELP		ELECTRICAL PANEL		1
	67	MK260E-HNG		HINGE		3
	66	MK260E-DLK		DOOR LOCK		3
	65	MCY900-1100-04		CABINET LEG2		1
	64	MCY900-1100-03		CABINET LEG1		1
	63	M-CCP-6000		CONDUIT FOR CONTROL PANEL		10
	62	MK260C-BKO-24-31		BEKO DRAIN		2
	61	MK170E-ELB-US		ELECTRICAL BOX		1
	60	MK170E-NIP1/4		1 / 4" NIPPLE		2
	59	MK130E-MSW		MAIN SWITCH		1
	58	MK260C-BKO-24-32		BEKO DRAIN		2
	57	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
	56	MK260E-FTT		FLAT FITTINGS		2
	55	MK260E-MBC2		MANIFOLD BLIND CAP2		1
	54	MK260E-MBC1		MANIFOLD BLIND CAP1		1
	53	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		1
	52	MK190E-DRM		DRAIN MANIFOLD		1
	51	MK260E-DRS-NPT		DRAIN SLEEVE		1
	50	MCY900-1100-16		FAN PROTECTOR		2
	49	M-CNT-MP		WATER PUMP CONTACTOR		2
	48	M-CLP-1200		CLAMP		1
	47	M-DRI-0700		DRYER-DEHYDRATOR		1
	46	M-EXV-1200		EXPANSION VALVE		1
	45	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		1
	44	M-WTA-170-C		WATER TANK		2
	43	MK260C-WPP		WATER PUMP PLATE		3
	42	N/A		N/A		-
	41	MK260C-DBV-3/4		DRAIN BALL VALVE		2
	40	M-RTA-5000-1		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		1
	39	MCY900-1100-18		WATER EXCHANGER SUPPORT PLATE		1
	38	MK1200C-MDF		MDF		1
	37	MCY900-1100-19		WATER HEAT EXCHANGER CLAMP		2
	36	M-WHC-1200		EVAPORATOR (WATER HEAT EXCHANGER)		2
	35	MK260E-BLT850		BOLT M8x50		10
	34	MK260E-WHR22		WASHER 22x8 2x2.4		10
	33	M-COP-1600		COMPRESSOR OVERLOAD PROTECTION		1
	32	MK160E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	31	MK260C-ELW 3/4		ELBOW 3/4		2
	30	MK260C-WHR-3/4		WATER HOSE RECORD		6
	29	MK260E-RTA1		ROTOLOCK ADAPTOR1		3
	28	M-CMP-1000-460-3-60		COMPRESSOR		1
	27	M-DBV-6000		DRAIN VALVE		2
	26	MK260E-EWF		ELBOW FITTINGS		2
	25	MK260C-WHC-3/4		WATER HOSE CLAMP		6
	24	MK260E-BLV		BALL VALVE		1
	23	MK170E-ELW		ELBOW		2
	22	MK260C-SLE-3/4		SLEEVE		1
	21	MK260C-RKR		1/2" RECORD		1
	20	MK170E-T1/4		1/4" T CONNECTOR		3
	19	MK260E-ELW1		ELBOW1		2
	18	MK170E-ELK-X		COMPRESSED AIR FILTER KIT (X)		1
	17	MK170E-ELK-Y		COMPRESSED AIR FILTER KIT (Y)		1
	16	MK170E-BLT815		BOLT M8x15		8
	15	MK170E-CNK2-NPT		CONNECTION KIT 2		2
	14	MK170E-ORG		ORING		4
	13	MK170E-CPG2		COUPLING CLAMP 2		4
	12	MK170E-CNK1		CONNECTION KIT 1		2
	11	MK170E-CLL		COLLECTOR		2
	10	MK260E-CPG1		COUPLING CLAMP 1		8
	09	MK170C-EXC		HEAT EXCHANGER		2
	08	MK260E-BLT630		BOLT M6x30		48
	07	M-NUT-6000		CAGE NUT M6		48
	06	MCY900-1100-17		CONDENSER REINFORCEMENT PLATE		1
	05	MCY900-1100-15		FAN PROTECTOR		1
	04	MK260E-BLT630		BOLT M6x30		8
	03	M-FMT-1200-400/460-3-50/60		FAN MOTOR		2
	02	MK170E-CON		CONDENSER		1
	01	MCY900-1100-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 1350



8.1 - ED & Spare Part List

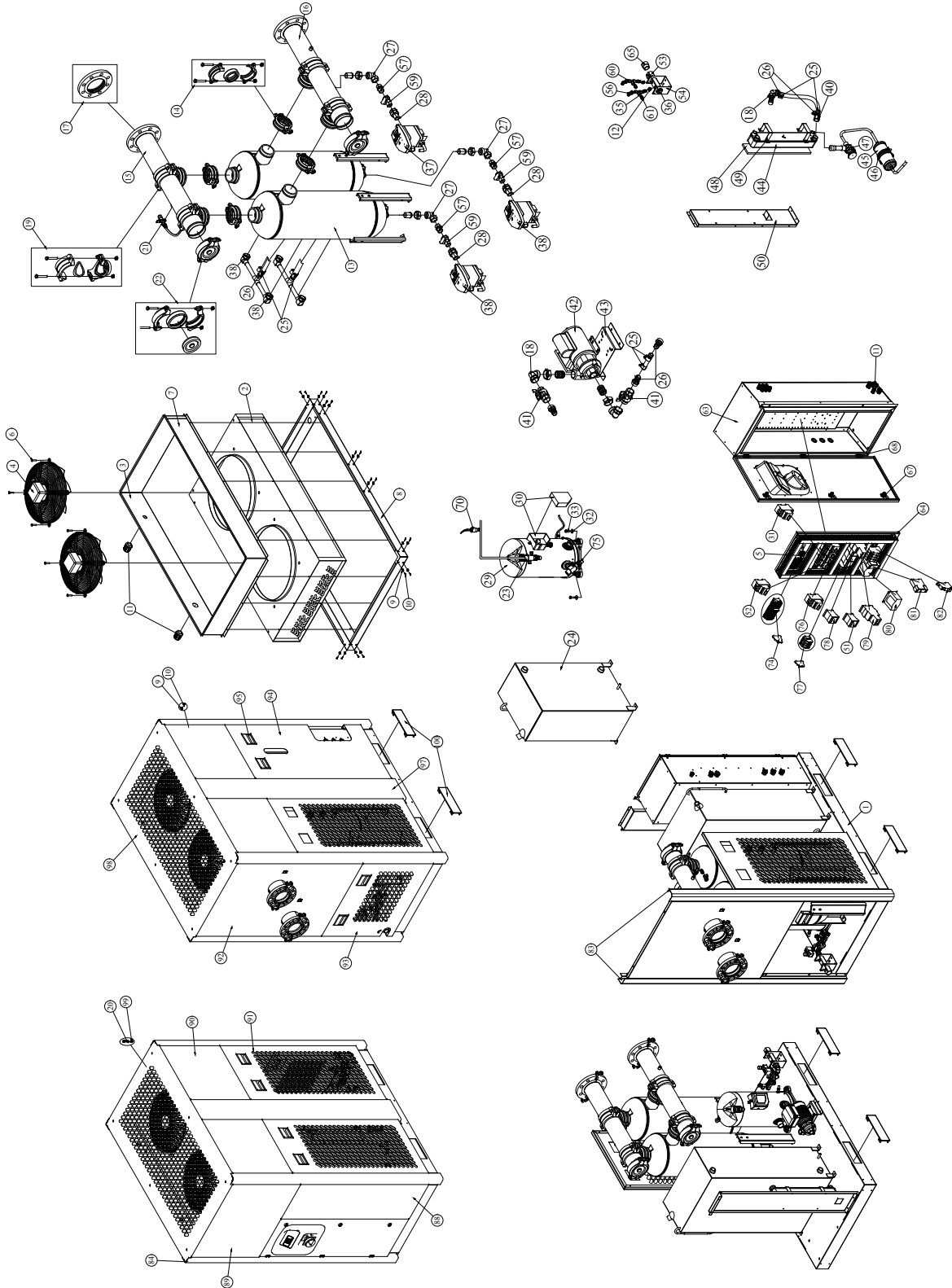
ODRC 1350

	100	MK190E-RMS		REMOVABLE SHIELD		4
	99	M-FAS-6000		CABINET FASTENER		14
	98	MCY1350-1500-13		CABINET TOP		1
	97	MCY1350-1500-08		CABINET POST SECONDARY SIDE		2
	96	N/A		N/A		-
	95	M-CHN-6000		CABINET HANDLE (NEW)		10
	94	MCY1350-1500-12		CABINET SIDE BOTTOM2		1
	93	MCY1350-1500-09		CABINET REAR BOTTOM1		1
	92	MCY1350-1500-10		CABINET REAR TOP		1
	91	MCY1350-1500-06		CABINET SIDE BOTTOM		3
	90	MCY1350-1500-07		CABINET SIDE TOP		4
	89	MCY1350-1500-05		CABINET FRONT TOP		1
	88	MCY1350-1500-04		CABINET FRONT BOTTOM		1
	87	MK260E-MSW		MAIN SWITCH		1
	86	MK260E-DCC-24		ADVANCED DIGITAL CONTROLLER		1
	85	MK260E-PCP-ESD3		PLASTIC CONTROL PANEL		1
	84	MCY1350-1500-02		CABINET LEG2		1
	83	MCY1350-1500-03		CABINET LEG1		3
	82	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	81	M-PPR-6000		PHASE PROTECTION RELAY		1
	80	M-TRF-3000		TRANSFORMER		1
	79	M-CNT-1600		COMPRESSOR CONTACTOR		1
	78	M-CNT-MP		FAN CONTACTOR		1
	77	M-PWC-2400		POWER CONNECTOR		3
	76	M-COP-1600		COMPRESSOR OVERLOAD PROTECTION		1
	75	MK210E-RTA1		ROTOLOCK ADAPTOR1		1
	74	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	73	N/A		N/A		-
	72	N/A		N/A		-
	71	N/A		N/A		-
	70	M-HPS-0200		HIGH PRESSURE SWITCH		1
	69	N/A		N/A		-
	68	MK260E-HNG		HINGE		3
	67	MK260E-DLK		DOOR LOCK		3
	66	N/A		N/A		-
	65	MK260E-DRS-NPT		DRAIN SLEEVE		1
	64	MK190E-ELP		ELECTRICAL PANEL		1
	63	MK190E-ELB-US		ELECTRICAL BOX		1
	62	N/A		N/A		-
	61	MK260E-FTT		FLAT FITTINGS		1
	60	MK170E-T1/4		T 1/4"		1
	59	M-DBV-6000		DRAIN BALL VALVE		3
	58	N/A		N/A		-
	57	MK260E-NIP1/2		1/2" NIPPLE		3
	56	MK260E-EWF		ELBOW FITTINGS		2
	55	MK260E-MBC2		MANIFOLD BLIND CAP2		3
	54	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		1
	53	MK190E-DRM		DRAIN MANIFOLD		1
	52	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		1
	51	M-CNT-MP		WATER PUMP CONTACTOR		1
	50	MCY1350-1500-20		WATER EXCHANGER SUPPORT PLATE		1
	49	MCY1350-1500-27		WATER HEAT EXCHANGER CLAMP		1
	48	MK2000C-MDF		MDF		1
	47	M-EXV-1200		EXPANSION VALVE		1
	46	M-CLP-1200		CLAMP		1
	45	MK190E-DRI		DRYER-DEHYDRATOR		1
	44	M-WHC-2000		EVAPORATOR (WATER HEAT EXCHANGER)		2
	43	MCY1350-1500-16		WATER PUMP PLATE		2
	42	M-PMP-1200-230		WATER PUMP		1
	41	MK260C-DBV-3/4		DRAIN BALL VALVE		1
	40	MK260C-SLE-3/4		SLEEVE		1
	39	MK260C-DBV-3/4		DRAIN BALL VALVE		8
	38	MK260C-BKO-24-32		BEKO DRAIN		2
	37	MK260C-BKO-24-31		BEKO DRAIN		1
	36	MK260E-MBC1		MANIFOLD BLIND CAP1		1
	35	MK170E-NIP1/4		1 / 4" NIPPLE		1
	34	MK190E-SGL1		SIGHT GLASS1		1
	33	MK260E-BLT850		BOLT M8x50		10
	32	MK260E-WHR22		WASHER 22x8,2x2.4		10
	31	M-FOP-1600		FAN OVERLOAD PROTECTOR		2
	30	MK190E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	29	M-CMP-1200-460-3-60		COMPRESSOR		1
	28	MK260C-RKR		1/2" RECORD		3
	27	MK260E-ELW1		ELBOW1		4
	26	MK260C-WHR-3/4		WATER HOSE RECORD		2
	25	MK260C-WHC-3/4		WATER HOSE CLAMP		2
	24	M-WTA-190-C		WATER TANK		1
	23	MK160E-RTA2		ROTOLOCK ADAPTOR2		2
	22	MK210E-CPG4		COUPLING CLAMP 4		2
	21	MK260E-BLA		BALL VALVE G 1/4"		1
	20	M-STU-6000		CABINET STUD AND NUT		14
	19	MK210E-CPG3		COUPLING CLAMP 3		4
	18	MK260C-ELW 3/4		ELBOW 3/4		1
	17	MK210E-FLG-US		FLANGE		2
	16	MK190E-CLLB		COLLECTOR BOTTOM		1
	15	MK190E-CLLT		COLLECTOR TOP		1
	14	MK260E-CPG1		COUPLING CLAMP 1		4
	13	MK260C-EXC		HEAT EXCHANGER		2
	12	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
	11	M-CCP-6000		CONDUIT FOR CONTROL PANEL		8
	10	MK260E-BLT630		BOLT M6x30		58
	09	M-NUT-6000		CAGE NUT M6		58
	08	MCY1350-1500-14		CONDENSER REINFORCEMENT PLATE		1
	07	MCY1350-1500-19-B		FAN PROTECTOR		1
	06	MK260E-BLT630		BOLT M8x30		8
	05	MK130E-MSW		MAIN SWITCH		-
	04	M-FMT-1600-460-3-60		FAN MOTOR		2
	03	MCY1350-1500-19-A		FAN PROTECTOR		-
	02	MK190E-CON		CONDENSER		1
	01	MCY1350-1500-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 1500



8.1 - ED & Spare Part List

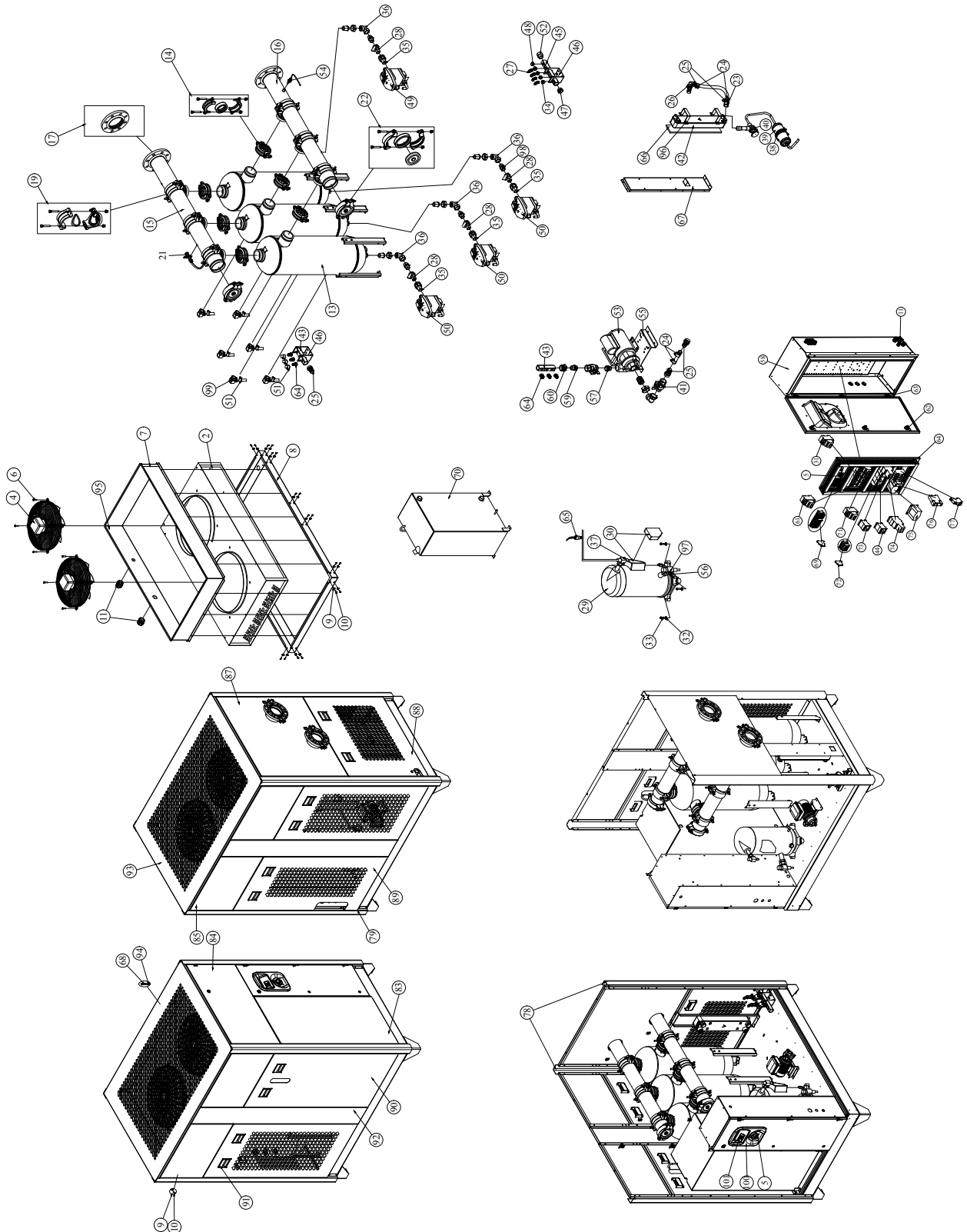
ODRC 1500

100	MK190E-RMS		REMOVABLE SHIELD		4
99	M-FAS-6000		CABINET FASTENER		14
98	MCY1350-1500-13		CABINET TOP		1
97	MCY1350-1500-08		CABINET POST SECONDARY SIDE		2
96	N/A		N/A		-
95	M-CHN-6000		CABINET HANDLE (NEW)		10
94	MCY1350-1500-12		CABINET SIDE BOTTOM2		1
93	MCY1350-1500-09		CABINET REAR BOTTOM1		1
92	MCY1350-1500-10		CABINET REAR TOP		1
91	MCY1350-1500-06		CABINET SIDE BOTTOM		3
90	MCY1350-1500-07		CABINET SIDE TOP		4
89	MCY1350-1500-05		CABINET FRONT TOP		1
88	MCY1350-1500-04		CABINET FRONT BOTTOM		1
87	MK260E-MSW		MAIN SWITCH		1
86	MK260E-DCC-24		ADVANCED DIGITAL CONTROLLER		1
85	MK260E-PCP-ESD3		PLASTIC CONTROL PANEL		1
84	MCY1350-1500-02		CABINET LEG2		1
83	MCY1350-1500-03		CABINET LEG1		3
82	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
81	M-PPR-6000		PHASE PROTECTION RELAY		1
80	M-TRF-3000		TRANSFORMER		1
79	M-CNT-1600		COMPRESSOR CONTACTOR		1
78	M-CNT-MP		FAN CONTACTOR		1
77	M-PWC-2400		POWER CONNECTOR		3
76	M-COP-1600		COMPRESSOR OVERLOAD PROTECTION		1
75	MK210E-RTA1		ROTOLOCK ADAPTOR1		1
74	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
73	N/A		N/A		-
72	N/A		N/A		-
71	N/A		N/A		-
70	M-HPS-0200		HIGH PRESSURE SWITCH		1
69	N/A		N/A		-
68	MK260E-HNG		HINGE		3
67	MK260E-DLK		DOOR LOCK		3
66	N/A		N/A		-
65	MK260E-DRS-NPT		DRAIN SLEEVE		1
64	MK190E-ELP		ELECTRICAL PANEL		1
63	MK190E-ELB-US		ELECTRICAL BOX		1
62	N/A		N/A		-
61	MK260E-FTT		FLAT FITTINGS		1
60	MK170E-T1/4		T 1/4"		1
59	M-DBV-6000		DRAIN BALL VALVE		3
58	N/A		N/A		1
57	MK260E-NIP1/2		1/2" NIPPLE		3
56	MK260E-EWF		ELBOW FITTINGS		2
55	MK260E-MBC2		MANIFOLD BLIND CAP2		3
54	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		1
53	MK190E-DRM		DRAIN MANIFOLD		1
52	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		1
51	M-CNT-MP		WATER PUMP CONTACTOR		1
50	MCY1350-1500-20		WATER EXCHANGER SUPPORT PLATE		1
49	MCY1350-1500-27		WATER HEAT EXCHANGER CLAMP		1
48	MK2000C-MDF		MDF		1
47	M-EXV-1200		EXPANSION VALVE		1
46	M-CLP-1200		CLAMP		1
45	MK190E-DRI		DRYER-DEHYDRATOR		1
44	M-WHC-2000		EVAPORATOR (WATER HEAT EXCHANGER)		2
43	MCY1350-1500-16		WATER PUMP PLATE		2
42	M-PMP-1200-230		WATER PUMP		1
41	MK260C-DBV-3/4		DRAIN BALL VALVE		1
40	MK260C-SLE-3/4		SLEEVE		1
39	MK260C-DBV-3/4		DRAIN BALL VALVE		8
38	MK260C-BKO-24-32		BEKO DRAIN		2
37	MK260C-BKO-24-31		BEKO DRAIN		1
36	MK260E-MBC1		MANIFOLD BLIND CAP1		1
35	MK170E-NIP1/4		1 / 4" NIPPLE		1
34	MK190E-SGL1		SIGHT GLASS1		1
33	MK260E-BLT850		BOLT M8x50		10
32	MK260E-WHR22		WASHER 22x8.2x2.4		10
31	M-FOP-1600		FAN OVERLOAD PROTECTOR		2
30	MK190E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
29	M-CMP-1600-460-3-60		COMPRESSOR		1
28	MK260C-RKR		1/2" RECORD		3
27	MK260E-ELW1		ELBOW1		4
26	MK260C-WHR-3/4		WATER HOSE RECORD		2
25	MK260C-WHC-3/4		WATER HOSE CLAMP		2
24	M-WTA-190-C		WATER TANK		1
23	MK160E-RTA2		ROTOLOCK ADAPTOR2		2
22	MK210E-CPG4		COUPLING CLAMP 4		2
21	MK260E-BLA		BALL VALVE G 1/4"		1
20	M-STU-6000		CABINET STUD AND NUT		14
19	MK210E-CPG3		COUPLING CLAMP 3		4
18	MK260C-ELW 3/4		ELBOW 3/4		1
17	MK210E-FLG-US		FLANGE		2
16	MK190E-CLLB		COLLECTOR BOTTOM		1
15	MK190E-CLLT		COLLECTOR TOP		1
14	MK260E-CPG1		COUPLING CLAMP 1		4
13	MK260C-EXC		HEAT EXCHANGER		2
12	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		2
11	M-CCP-6000		CONDUIT FOR CONTROL PANEL		8
10	MK260E-BLT630		BOLT M6x30		58
09	M-NUT-6000		CAGE NUT M6		58
08	MCY1350-1500-14		CONDENSER REINFORCEMENT PLATE		1
07	MCY1350-1500-19-B		FAN PROTECTOR		1
06	MK260E-BLT630		BOLT M8x30		8
05	MK130E-MSW		MAIN SWITCH		-
04	M-FMT-1600-460-3-60		FAN MOTOR		2
03	MCY1350-1500-19-A		FAN PROTECTOR		-
02	MK190E-CON		CONDENSER		1
01	MCY1350-1500-01		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 2000



8.1 - ED & Spare Part List

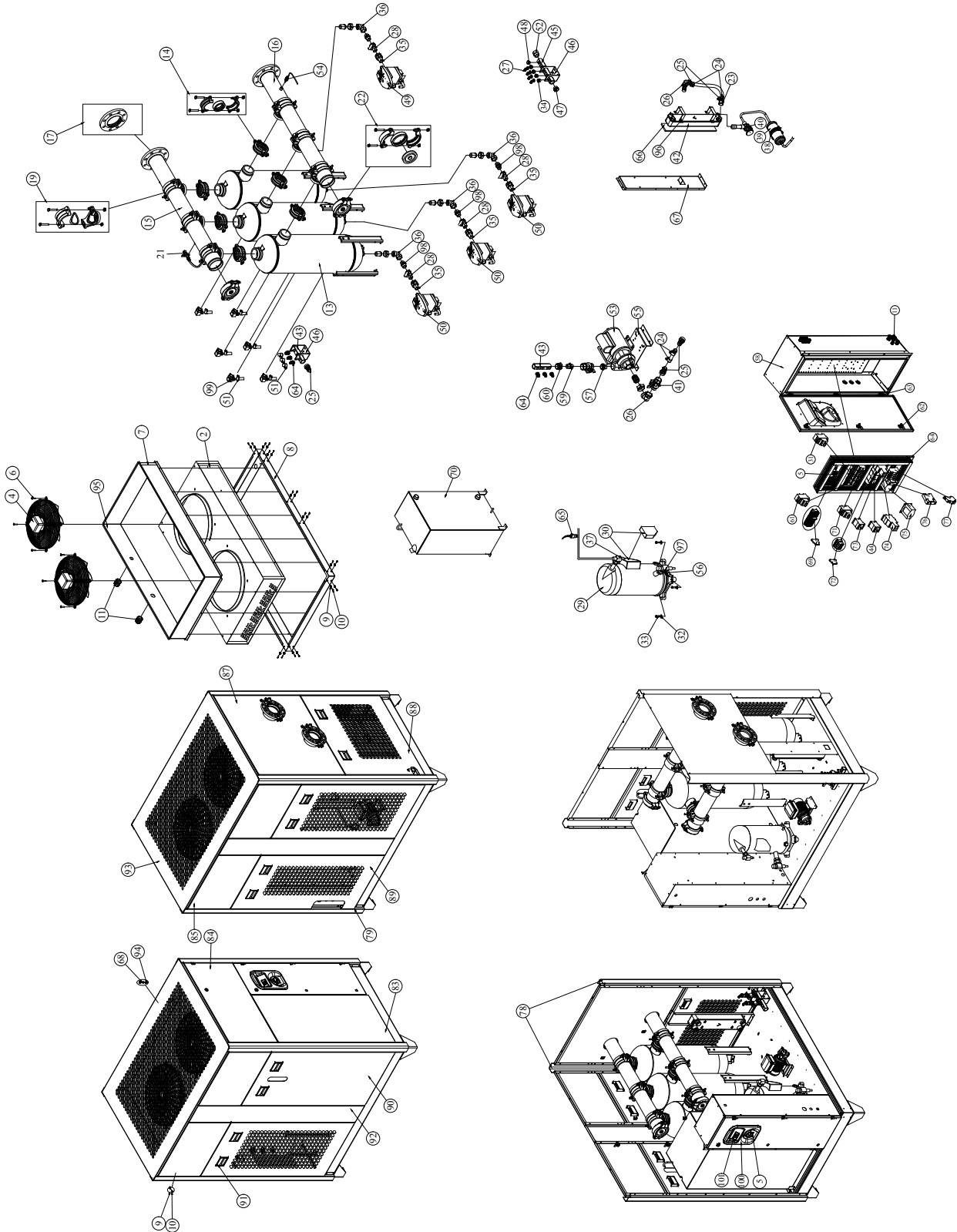
ODRC 2000

101	MK260C-DPI-24		DIGITAL CONTROLLER		1
100	MK260C-PCP		PLASTIC CONTROL PANEL		1
99	M-RTH-1/2		ROTA LOCK HOSE 1/2		6
98	MK260E-NIP1/2		1/2" NIPPLE		3
97	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
96	MCY-2000-2350-26		WATER HEAT EXCHANGER CLAMP		1
95	MCY-2000-2350-15A		FAN PROTECTOR		1
94	M-FAS-6000		CABINET FASTENER		14
93	MCY-2000-2350-13		CABINET TOP		1
92	MCY-2000-2350-03		CABINET POST SECONDARY SIDE		2
91	M-CHN-6000		CABINET HANDLE		10
90	MCY-2000-2350-12		CABINET REAR SIDE BOTTOM		2
89	MCY-2000-2350-06		CABINET SIDE BOTTOM2		1
88	MCY-2000-2350-09		CABINET REAR BOTTOM1		1
87	MCY-2000-2350-10		CABINET REAR TOP		1
86	MK210E-CSB		CABINET SIDE BOTTOM		1
85	MCY-2000-2350-07		CABINET SIDE TOP		4
84	MCY-2000-2350-05		CABINET FRONT TOP		1
83	MCY-2000-2350-04		CABINET FRONT BOTTOM		1
82	MK260E-MSW		MAIN SWITCH		1
81	MK260E-DCC-24		ADVANCED DIGITAL CONTROLLER		1
80	M-TRF-1600		PLASTIC CONTROL PANEL		1
79	MCY-2000-2350-01		CABINET LEG2		1
78	MCY-2000-2350-02		CABINET LEG1		3
77	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
76	M-PPR-6000		PHASE PROTECTION RELAY		1
75	M-TRF-3000		TRANSFORMER		1
74	M-CNT-2400		COMPRESSOR CONTACTOR		1
73	M-CNT-MP		FAN CONTACTOR		2
72	M-PWC-2400		POWER CONNECTOR		3
71	M-COP-3000		COMPRESSOR OVERLOAD PROTECTION		1
70	M-WTA-210-C		WATER TANK		-
69	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
68	M-STU-6000		CABINET STUD AND NUT		14
67	MCY-2000-2350-16		WATER EXCHANGER SUPPORT PLATE		-
66	MK2000C-MDF		MDF		1
65	M-HPS-0200		HIGH PRESSURE SWITCH		1
64	MK260C-WHR-1/2		WATER HOSE RECORD		6
63	MK260E-HNG		HINGE		3
62	MK260E-DLK		DOOR LOCK		3
61	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		3
60	MK260E-RDC 3/4		REDUCTION 1" - 3 / 4"		1
59	MK260E-NIP3/4		3 / 4" NIPPLE		1
58	MK210E-ELB-US		ELECTRICAL BOX		1
57	MK260C-RKR-3/4		3/4" RECORD		1
56	M-CPF-6000-O		1/4 90° ORIFICE CUPPER PIPE FITTING		1
55	MCY1350-1500-16		WATER PUMP PLATE		1
54	M-SCF-6000		SENSOR CONNECTION FITTING		1
53	M-PMP-1200-230		WATER PUMP		2
52	MK260E-DRS-NPT		DRAIN SLEEVE		1
51	MK260C-WHC-1/2		WATER HOSE CLAMP		12
50	MK260C-BKO-24-32		BEKO DRAIN		3
49	MK260C-BKO-24-31		BEKO DRAIN		1
48	MK260E-MBC2		MANIFOLD BLIND CAP2		1
47	MK260E-MBC1		MANIFOLD BLIND CAP1		3
46	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		2
45	MK260E-DRM5		DRAIN MANIFOLD		1
44	M-CNT-MP		WATER PUMP CONTACTOR		1
43	MK190E-DRM3		DRAIN MANIFOLD		2
42	M-WHC-2400		EVAPORATOR (WATER HEAT EXCHANGER)		1
41	MK260C-DBV-3/4		DRAIN BALL VALVE		2
40	M-EXV-2400		EXPANSION VALVE		1
39	MK210E-DRI		DRYER-DEHYDRATOR		1
38	M-CLP-1200		CLAMP		1
37	MK160E-RTA2		ROTOLOCK ADAPTOR2		4
36	MK260E-ELW1		ELBOW1		1
35	MK260C-RKR		1/2" RECORD		1
34	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		3
33	MK260E-BLT850		BOLT M8x50		10
32	MK260E-WHR22		WASHER 22x8.2x2.4		10
31	M-COP-0325		FAN OVERLOAD PROTECTOR		2
30	MK210E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
29	M-CMP-2000-460-3-60		COMPRESSOR		1
28	M-DBV-6000		DRAIN BALL VALVE		5
27	MK260E-EWF		ELBOW FITTINGS		4
26	MK260C-ELW 3/4		ELBOW 3/4		3
25	MK260C-WHR-3/4		WATER HOSE RECORD		5
24	MK260C-WHC-3/4		WATER HOSE CLAMP		1
23	MK260C-SLE-3/4		SLEEVE		4
22	MK210E-CPG4		COUPLING CLAMP 4		2
21	MK260E-BLV		BALL VALVE		1
20	MK210E-ASF		ASTROFLEX		1
19	MK210E-CPG3		COUPLING CLAMP 3		6
18	M-CPF-6000-90		1/4 90° ORIFICE CUPPER PIPE FITTING		3
17	MK210E-CPG2-UL		COUPLING CLAMP 2		2
16	MK210E-CLLB		COLLECTOR BOTTOM		1
15	MK210E-CLLT		COLLECTOR TOP		1
14	MK260E-CPG1		COUPLING CLAMP 1		6
13	MK260E-EXC		HEAT EXCHANGER		3
12	M-OSO-2400		OIL SEPARATOR ORING		1
11	M-CCP-6000		CONDUIT FOR CONTROL PANEL		5
10	MK260E-BLT630		BOLT M6x30		58
09	M-NUT-6000		CAGE NUT M6		58
08	MCY-2000-2350-14		CONDENSER REINFORCEMENT PLATE		1
07	MCY-2000-2350-15B		FAN PROTECTOR		1
06	MK260E-BLT830		BOLT M8x30		8
05	MK210C-MNS		MAIN SWETCH		1
04	M-FMT-6000-460-3-60		FAN MOTOR		2
03	M-OSP-2400		OIL SEPARATOR		1
02	MK210E-CON		CONDENSER		1
01	MK210E-CAB		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 2350



8.1 - ED & Spare Part List

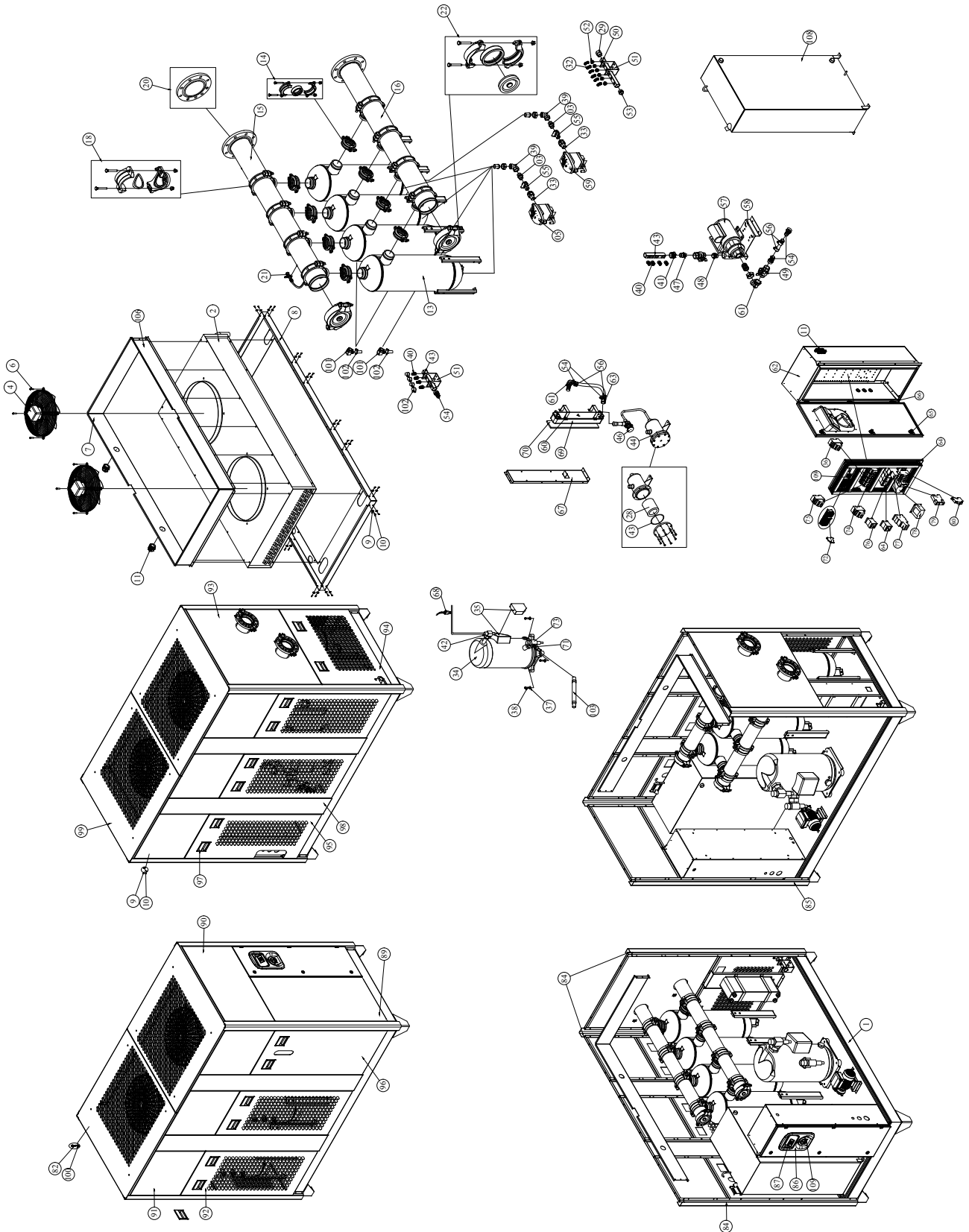
ODRC 2350

	101	MK260C-DPI-24		DIGITAL CONTROLLER		1
	100	MK260C-PCP		PLASTIC CONTROL PANEL		1
	99	M-RTH-1/2		ROTA LOCK HOSE 1/2		6
	98	MK260E-NIP1/2		1/2" NIPPLE		3
	97	MK260E-RTA3		ROTOLOCK ADAPTOR3		1
	96	MCY-2000-2350-26		WATER HEAT EXCHANGER CLAMP		2
	95	MCY-2000-2350-15A		FAN PROTECTOR		1
	94	M-FAS-6000		CABINET FASTENER		14
	93	MCY-2000-2350-13		CABINET TOP		1
	92	MCY-2000-2350-03		CABINET POST SECONDARY SIDE		2
	91	M-CHN-6000		CABINET HANDLE		10
	90	MCY-2000-2350-12		CABINET REAR SIDE BOTTOM		2
	89	MCY-2000-2350-06		CABINET SIDE BOTTOM2		1
	88	MCY-2000-2350-09		CABINET REAR BOTTOM1		1
	87	MCY-2000-2350-10		CABINET REAR TOP		1
	86	MK210E-CSB		CABINET SIDE BOTTOM		1
	85	MCY-2000-2350-07		CABINET SIDE TOP		4
	84	MCY-2000-2350-05		CABINET FRONT TOP		1
	83	MCY-2000-2350-04		CABINET FRONT BOTTOM		1
	82	MK260E-MSW		MAIN SWITCH		1
	81	MK260E-DCC-24		ADVANCED DIGITAL CONTROLLER		1
	80	M-TRF-1600		PLASTIC CONTROL PANEL		1
	79	MCY-2000-2350-01		CABINET LEG2		1
	78	MCY-2000-2350-02		CABINET LEG1		3
	77	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	76	M-PPR-6000		PHASE PROTECTION RELAY		1
	75	M-TRF-3000		TRANSFORMER		1
	74	M-CNT-2400		COMPRESSOR CONTACTOR		1
	73	M-CNT-MP		FAN CONTACTOR		2
	72	M-PWC-2400		POWER CONNECTOR		3
	71	M-COP-3000		COMPRESSOR OVERLOAD PROTECTION		1
	70	M-WTA-210-C		WATER TANK		-
	69	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	68	M-STU-6000		CABINET STUD AND NUT		14
	67	MCY-2000-2350-16		WATER EXCHANGER SUPPORT PLATE		-
	66	MK2000C-MDF		MDF		1
	65	M-HPS-0200		HIGH PRESSURE SWITCH		1
	64	MK260C-WHR-1/2		WATER HOSE RECORD		6
	63	MK260E-HNG		HINGE		3
	62	MK260E-DLK		DOOR LOCK		3
	61	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		3
	60	MK260E-RDC 3/4		REDUCTION 1" - 3/4"		1
	59	MK260E-NIP3/4		3/4" NIPPLE		1
	58	MK210E-ELB-US		ELECTRICAL BOX		1
	57	MK260C-RKR-3/4		3/4" RECORD		1
	56	M-CPF-6000-O		1/4 90° ORIFICE CUPPER PIPE FITTING		1
	55	MCY1350-1500-16		WATER PUMP PLATE		1
	54	M-SCF-6000		SENSOR CONNECTION FITTING		1
	53	M-PMP-1200-230		WATER PUMP		2
	52	MK260E-DRS-NPT		DRAIN SLEEVE		1
	51	MK260C-WHC-1/2		WATER HOSE CLAMP		12
	50	MK260C-BKO-24-32		BEKO DRAIN		3
	49	MK260C-BKO-24-31		BEKO DRAIN		1
	48	MK260E-MBC2		MANIFOLD BLIND CAP2		1
	47	MK260E-MBC1		MANIFOLD BLIND CAP1		3
	46	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		2
	45	MK260E-DRM5		DRAIN MANIFOLD		1
	44	M-CNT-MP		WATER PUMP CONTACTOR		1
	43	MK190E-DRM3		DRAIN MANIFOLD		2
	42	M-WHC-2400		EVAPORATOR (WATER HEAT EXCHANGER)		1
	41	MK260C-DBV-3/4		DRAIN BALL VALVE		2
	40	M-EXV-2400		EXPANSION VALVE		1
	39	MK210E-DRI		DRYER-DEHYDRATOR		1
	38	M-CLP-1200		CLAMP		1
	37	MK160E-RTA2		ROTOLOCK ADAPTOR2		4
	36	MK260E-ELW1		ELBOW1		1
	35	MK260C-RKR		1/2" RECORD		1
	34	MK260E-RDC		REDUCTION 1/2" - 1/4"		3
	33	MK260E-BLT850		BOLT M8x50		10
	32	MK260E-WHR22		WASHER 22x8.2x2.4		10
	31	M-COP-0325		FAN OVERLOAD PROTECTOR		2
	30	MK210E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	29	M-CMP-2400-460-3-60		COMPRESSOR		1
	28	M-DBV-6000		DRAIN BALL VALVE		5
	27	MK260E-EWF		ELBOW FITTINGS		4
	26	MK260C-ELW 3/4		ELBOW 3/4		3
	25	MK260C-WHR 3/4		WATER HOSE RECORD		5
	24	MK260C-WHC-3/4		WATER HOSE CLAMP		1
	23	MK260C-SLE-3/4		SLEEVE		4
	22	MK210E-CPG4		COUPLING CLAMP 4		2
	21	MK260E-BLV		BALL VALVE		1
	20	MK210E-ASF		ASTROFLEX		1
	19	MK210E-CPG3		COUPLING CLAMP 3		6
	18	M-CPF-6000-90		1/4 90° ORIFICE CUPPER PIPE FITTING		3
	17	MK210E-CPG2-UL		COUPLING CLAMP 2		2
	16	MK210E-CLLB		COLLECTOR BOTTOM		1
	15	MK210E-CLLT		COLLECTOR TOP		1
	14	MK260E-CPG1		COUPLING CLAMP 1		6
	13	MK260E-EXC		HEAT EXCHANGER		3
	12	M-OSO-2400		OIL SEPARATOR ORING		1
	11	M-CCP-6000		CONDUIT FOR CONTROL PANEL		5
	10	MK260E-BLT630		BOLT M6x30		58
	09	M-NUT-6000		CAGE NUT M6		58
	08	MCY-2000-2350-14		CONDENSER REINFORCEMENT PLATE		1
	07	MCY-2000-2350-15B		FAN PROTECTOR		1
	06	MK260E-BLT830		BOLT M8x30		8
	05	MK210C-MNS		MAIN SWITCH		1
	04	M-FMT-6000-460-3-60		FAN MOTOR		2
	03	M-OSP-2400		OIL SEPARATOR		1
	02	MK210E-CON		CONDENSER		1
	01	MK210E-CAB		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 2750



8.1 - ED & Spare Part List

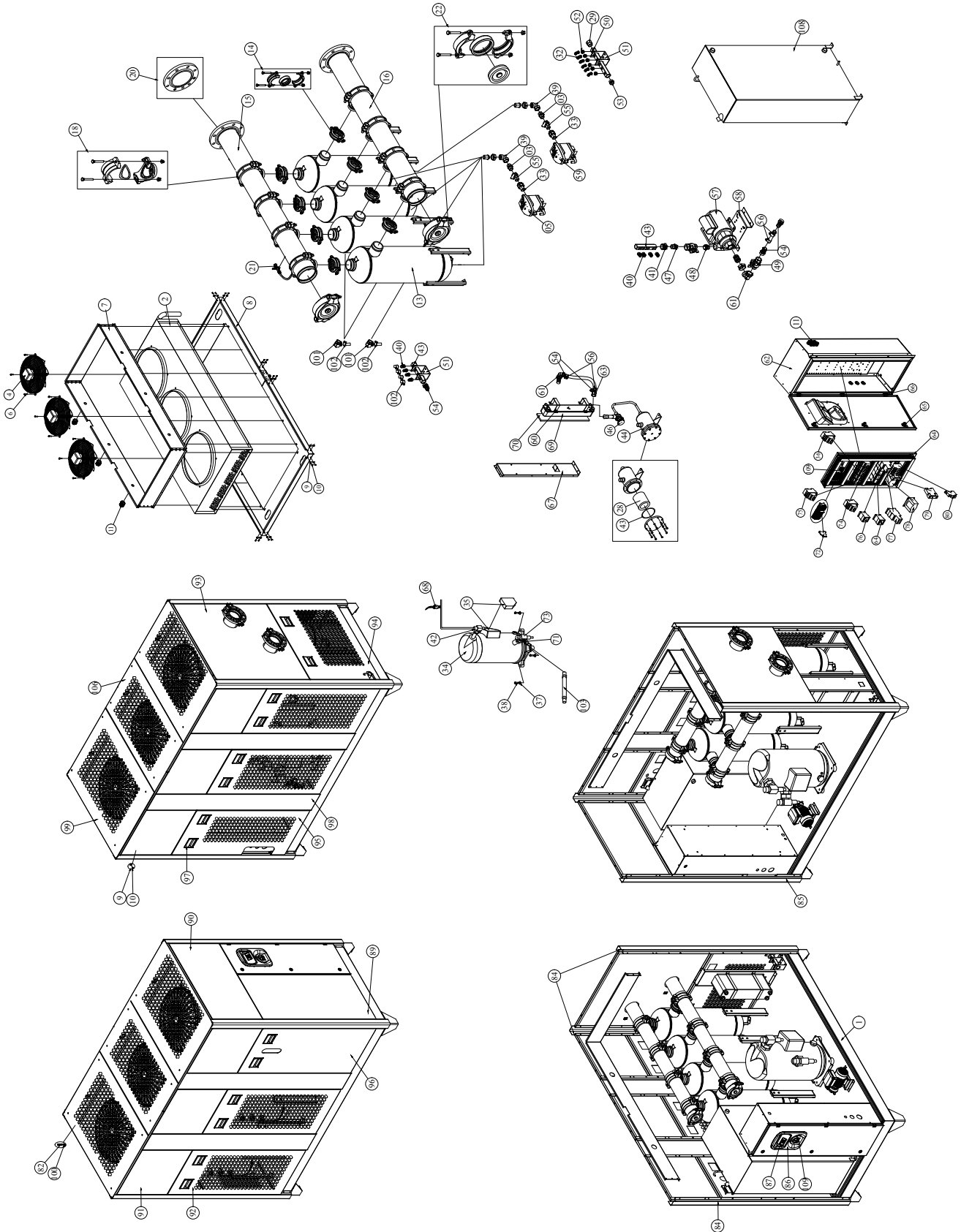
ODRC 2750

	109	MK230C-MNS		MAIN SWITCH		1
	108	M-WTA-230-C		WATER TANK		1
	107	N/A		N/A		-
	106	MCY 2750-16		FAN PROTECTOR		4
	105	M-OSO-5000		OIL SEPARATOR ORING		1
	104	M-OSE-5000		OIL SEPARATOR ELEMENT		1
	103	MK230E-ASF		ASTROFLEX		1
	102	MK260C-WHC-1/2		WATER HOSE CLAMP		8
	101	M-RTH-1/2		ROTOLOCK HOSE 1/2		8
	100	M-FAS-6000		CABINET FASTENER		28
	99	MCY 2750-11		CABINET TOP1		2
	98	MCY2750-3000-06		CABINET POST SECONDARY SIDE		4
	97	M-CHN-6000		CABINET HANDLE		14
	96	MCY2750-3000-05		CABINET REAR SIDE BOTTOM		3
	95	MCY2750-3000-09		CABINET SIDE BOTTOM2		1
	94	MCY 2750-3000-09		CABINET REAR BOTTOM1		1
	93	MCY 2750-3000-10		CABINET REAR TOP		1
	92	MCY 2750-3000-03		CABINET REAR SIDE BOTTOM		4
	91	MCY 2750-3000-04		CABINET SIDE TOP		6
	90	MCY 2750-3000-08		CABINET FRONT TOP		1
	89	MCY 2750-3000-07		CABINET FRONT BOTTOM		1
	88	N/A		N/A		-
	87	MK260C-DPI-24		DIGITAL CONTROLLER		1
	86	MK260C-PCP		PLASTIC CONTROL PANEL		1
	85	MCY 2750-3000-02		CABINET LEG2		1
	84	MCY 2750-3000-01		CABINET LEG1		3
	83	MK260E-CCP2		CUPPER CLAMP2		2
	82	M-STU-6000		CABINET STUD AND NUT		28
	81	MK260E-RSV		ROTOLOCK SERVICE VALVE		1
	80	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	79	M-PPR-6000		PHASE PROTECTION RELAY		1
	78	M-TRF-3000		TRANSFORMER		1
	77	M-CNT-3000		COMPRESSOR CONTACTOR		1
	76	M-CNT-MP		FAN CONTACTOR		2
	75	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		4
	74	M-COP-3000		COMPRESSOR OVERLOAD PROTECTOR		1
	73	MK230E-RTA6		ROTOLOCK VALVE6		1
	72	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	71	M-CPF-6000-O		1/4 90° ORIFICE CUPPER PIPE FITTING		
	70	MK3000C-MDF		MDF		
	69	M-WHC-3000		EVAPORATOR (WATER HEAT EXCHANGER)		
	68	M-HPS-0200		HIGH PRESSURE SWITCH		
	67	MCY 2750-3000-13		WATER EXCHANGER SUPPORT PLATE		
	66	MK260E-HNG		HINGE		
	65	MK260E-DLK		DOOR LOCK		
	64	M-CNT-MP		WATER PUMP CONTACTOR		3
	63	MK260C-SLE-3/4		SLEEVE		-
	62	MK230C-ELB-US		ELECTRICAL BOX		1
	61	MK260C-ELW 3/4		ELBOW 3/4		1
	60	MCY 2750-3000-14		WATER HEAT EXCHANGER CLAMP		3
	59	MK260C-BKO-24-31		BEKO DRAIN		4
	58	MCY1350-1500-16		WATER PUMP PLATE		1
	57	M-PMP-1200-230		WATER PUMP		5
	56	MK260C-WHC-3/4		WATER HOSE CLAMP		2
	55	M-DBV-6000		DRAIN BALL VALVE		5
	54	MK260C-WHR-3/4		WATER HOSE RECORD		3
	53	MK260E-MBC1		MANIFOLD BLIND CAP1		1
	52	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		3
	51	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		10
	50	MK230E-DRM6		DRAIN MANIFOLD		1
	49	MK260C-DBV-3/4		DRAIN BALL VALVE		1
	48	MK260C-RKR-3/4		3/4" RECORD		1
	47	MK260E-NIP3/4		3/4" NIPPLE		1
	46	M-EXV-3000		EXPANSION VALVE		1
	45	M-OSP-5000		OIL SEPERATOR		1
	44	M-DRI-6000		DRYER-DEHYDRATOR		1
	43	MK260E-DRM4		DRAIN MANIFOLD		1
	42	MK160E-RTA2		ROTOLOCK ADAPTOR2		2
	41	MK260E-RDC 3/4		REDUCTION 1" - 3 / 4"		1
	40	MK260C-WHR-1/2		WATER HOSE RECORD		8
	39	MK260C-ELW 1/2		ELBOW 1/2		3
	38	MK260E-BLT850		BOLT M8x50		12
	37	MK260E-WHR22		WASHER 22x8.2x2.4		12
	36	M-COP-0325		FAN OVERLOAD PROTECTOR		2
	35	MK230E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		1
	34	M-CMP-3000-460-3-60		COMPRESSOR		1
	33	MK260C-RKR		1/2" RECORD		5
	32	MK260E-EWF		ELBOW FITTINGS1		6
	31	MK260E-CCP1		CUPPER CLAMP1		1
	30	MK260E-SVT		SETTING VALVE T		1
	29	MK260E-DRS-NPT		DRAIN SLEEVE		1
	28	M-DIE-6000		DRIER ELEMENT		1
	27	MK260E-RTA4		ROTOLOCK ADAPTOR4		2
	26	MK260E-RTA3		ROTOLOCK ADAPTOR3		4
	25	M-RTA-5000-2		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		2
	24	MK250E-ASF		ASTROFLEX		1
	23	M-RTA-5000-1		ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		4
	22	MK250E-CPG4		COUPLING CLAMP 4		2
	21	MK260E-BLV		BALL VALVE		1
	20	MK240E-CPG3-UL		COUPLING CLAMP 3		2
	19	MK250E-RTA5		ROTOLOCK VALVE ADAPTOR		1
	18	MK250E-CPG2		COUPLING CLAMP 2		8
	17	MK260E-RTA3		ROTOLOCK ADAPTOR3		2
	16	MK230E-CLL		COLLECTOR BOTTOM		1
	15	MK230E-CLT		COLLECTOR TOP		1
	14	MK260E-CPG1		COUPLING CLAMP 1		8
	13	MK260E-EXC		HEAT EXCHANGER		4
	12	M-CPF-6000-90		1/4 90° ORIFICE CUPPER PIPE FITTING		3
	11	M-CCP-6000		CONDUIT FOR CONTROL PANEL		12
	10	MK260E-BLT630		BOLT M6x30		60
	09	M-NUT-6000		CAGE NUT M6		60
	08	MCY 2750-3000-12		CONDENSER REINFORCEMENT PLATE		1
	07	MCY 2750-15		FAN PROTECTOR		1
	06	MK260E-BLT830		BOLT M8x30		8
	05	MK260C-BKO-24-32		BEKO DRAIN		4
	04	M-FMT-6000-460-3-60		FAN MOTOR		2
	03	MK260E-NIP1/2		1/2" NIPPLE		5
	02	MK220E-CON		CONDENSER		1
	01	MK230E-CAB		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 3000



8.1 - ED & Spare Part List

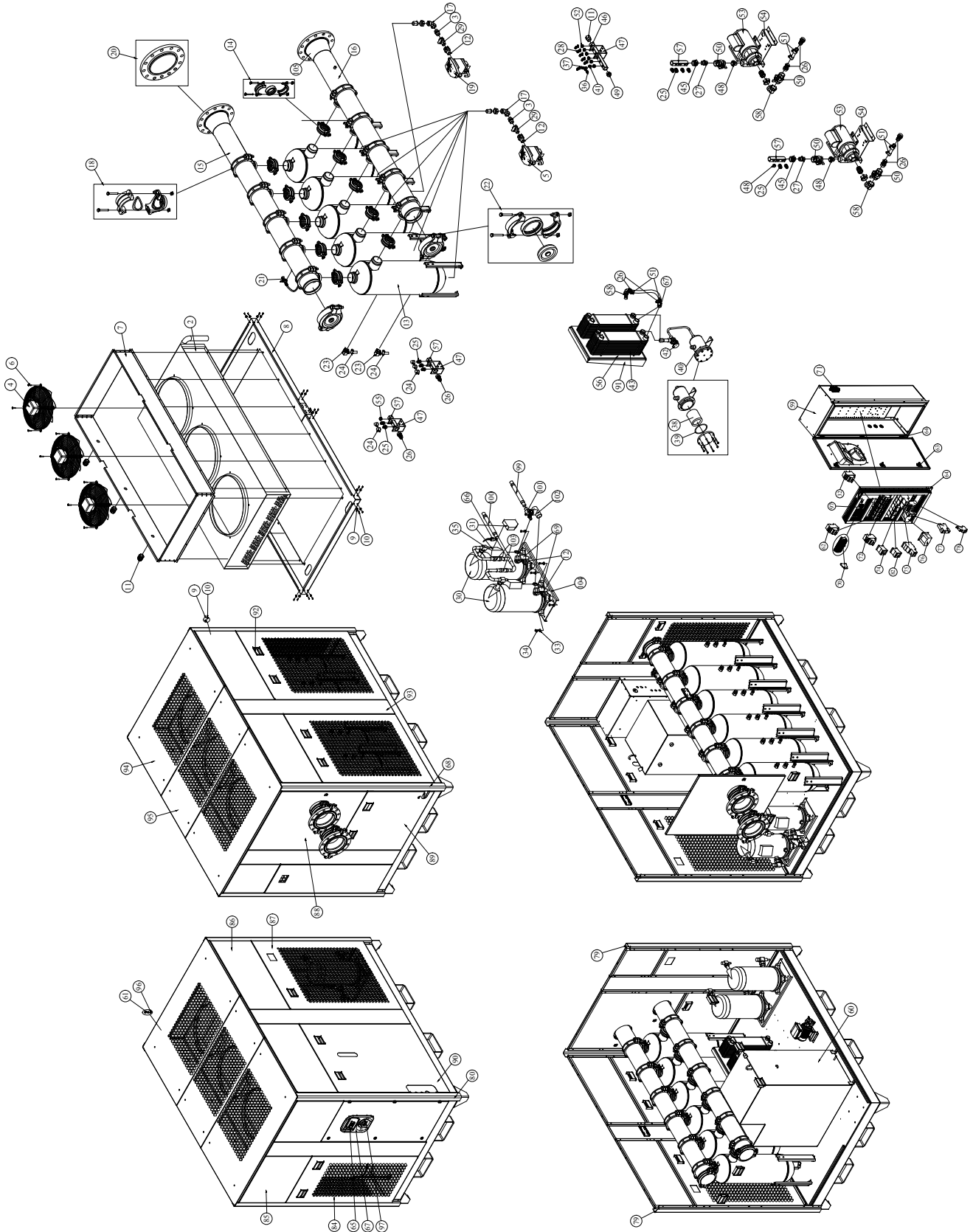
ODRC 3000

	109	MK230C-MNS	MAIN SWITCH		1
	108	M-WTA-230-C	WATER TANK		1
	107				1
	106	MCY 3000-11B	CABINET TOP2		4
	105	M-OSO-5000	OIL SEPARATOR ORING		1
	104	M-OSE-5000	OIL SEPARATOR ELEMENT		1
	103	MK230E-ASF	ASTROFLEX		1
	102	MK260C-WHC-1/2	WATER HOSE CLAMP		8
	101	M-RTH-1/2	ROTA LOCK HOSE 1/2		8
	100	M-FAS-6000	CABINET FASTENER		28
	99	MCY 3000-11A	CABINET TOP1		2
	98	MCY2750-3000-06	CABINET POST SECONDARY SIDE		4
	97	M-CHN-6000	CABINET HANDLE		14
	96	MCY2750-3000-05	CABINET REAR SIDE BOTTOM		3
	95	MCY2750-3000-09	CABINET SIDE BOTTOM2		1
	94	MCY 2750-3000-09	CABINET REAR BOTTOM1		1
	93	MCY 2750-3000-10	CABINET REAR TOP		1
	92	MCY 2750-3000-03	CABINET REAR SIDE BOTTOM		4
	91	MCY 2750-3000-04	CABINET SIDE TOP		6
	90	MCY 2750-3000-08	CABINET FRONT TOP		1
	89	MCY 2750-3000-07	CABINET FRONT BOTTOM		1
	88				1
	87	MK260C-DPI-24	DIGITAL CONTROLLER		1
	86	MK260C-PCP	PLASTIC CONTROL PANEL		1
	85	MCY 2750-3000-02	CABINET LEG2		1
	84	MCY 2750-3000-01	CABINET LEG1		3
	83	MK260E-CCP2	CUPPER CLAMP2		2
	82	M-STU-6000	CABINET STUD AND NUT		28
	81	MK260E-RSV	ROTOLOCK SERVICE VALVE		1
	80	M-FHH-6000	HIGH VOLTAGE FUSE HOLDER		4
	79	M-PPR-6000	PHASE PROTECTION RELAY		1
	78	M-TRF-3000	TRANSFORMER		1
	77	M-CNT-3000	COMPRESSOR CONTACTOR		1
	76	M-CNT-MP	FAN CONTACTOR		3
	75	M-FOP-0700-230-3-60	WATER PUMP PROTECTOR		4
	74	M-COP-3000	COMPRESSOR OVERLOAD PROTECTOR		1
	73	MK230E-RTA6	ROTOLOCK VALVE6		1
	72	M-FHL-6000	LOW VOLTAGE FUSE HOLDER		1
	71	M-CPF-6000-O	1/4 90° ORIFICE CUPPER PIPE FITTING		
	70	MK3000C-MDF	MDF		
	69	M-WHC-3000	EVAPORATOR (WATER HEAT EXCHANGER)		
	68	M-HPS-0200	HIGH PRESSURE SWITCH		
	67	MCY 2750-3000-13	WATER EXCHANGER SUPPORT PLATE		
	66	MK260E-HNG	HINGE		
	65	MK260E-DLK	DOOR LOCK		
	64	M-CNT-MP	WATER PUMP CONTACTOR		3
	63	MK260C-SLE-3/4	SLEEVE		-
	62	MK230C-ELB-US	ELECTRICAL BOX		1
	61	MK260C-ELW 3/4	ELBOW 3/4		1
	60	MCY 2750-3000-14	WATER HEAT EXCHANGER CLAMP		3
	59	MK260C-BKO-24-31	BEKO DRAIN		4
	58	MCY1350-1500-16	WATER PUMP PLATE		1
	57	M-PMP-1200-230	WATER PUMP		5
	56	MK260C-WHC-3/4	WATER HOSE CLAMP		2
	55	M-DBV-6000	DRAIN BALL VALVE		5
	54	MK260C-WHR-3/4	WATER HOSE RECORD		3
	53	MK260E-MBC1	MANIFOLD BLIND CAP1		1
	52	MK260E-RDC	REDUCTION 1 / 2" - 1 / 4"		3
	51	MK260E-MRS	MANIFOLD REINFORCEMENT SHEET METAL		10
	50	MK230E-DRM6	DRAIN MANIFOLD		1
	49	MK260C-DBV-3/4	DRAIN BALL VALVE		1
	48	MK260C-RKR-3/4	3/4" RECORD		1
	47	MK260E-NIP3/4	3/4" NIPPLE		1
	46	M-EXV-3000	EXPANSION VALVE		1
	45	M-OSP-5000	OIL SEPERATOR		1
	44	M-DRI-6000	DRYER-DEHYDRATOR		1
	43	MK260E-DRM4	DRAIN MANIFOLD		1
	42	MK160E-RTA2	ROTOLOCK ADAPTOR2		2
	41	MK260E-RDC 3/4	REDUCTION 1 " - 3 / 4 "		1
	40	MK260C-WHR-1/2	WATER HOSE RECORD		8
	39	MK260C-ELW 1/2	ELBOW 1/2		3
	38	MK260E-BLT850	BOLT M8x50		12
	37	MK260E-WHR22	WASHER 22x8.2x2.4		12
	36	M-COP-0325	FAN OVERLOAD PROTECTOR		3
	35	MK230E-CEC	COMPRESSOR ELECTRICAL BOX - COVER		1
	34	M-CMP-3000-460-3-60	COMPRESSOR		1
	33	MK260C-RKR	1/2" RECORD		5
	32	MK260E-EWF	ELBOW FITTINGS1		6
	31	MK260E-CCP1	CUPPER CLAMP1		1
	30	MK260E-SVT	SETTING VALVE T		1
	29	MK260E-DRS-NPT	DRAIN SLEEVE		1
	28	M-DIE-6000	DRIER ELEMENT		1
	27	MK260E-RTA4	ROTOLOCK ADAPTOR4		2
	26	MK260E-RTA3	ROTOLOCK ADAPTOR3		4
	25	M-RTA-5000-2	ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		2
	24	MK250E-ASF	ASTROFLEX		1
	23	M-RTA-5000-1	ROTOLOCK VALVE ADAPTOR FOR HEAT EXCHANGER		4
	22	MK250E-CPG4	COUPLING CLAMP 4		2
	21	MK260E-BLV	BALL VALVE		1
	20	MK240E-CPG3-UL	COUPLING CLAMP 3		2
	19	MK250E-RTA5	ROTOLOCK VALVE ADAPTOR		1
	18	MK250E-CPG2	COUPLING CLAMP 2		8
	17	MK260E-RTA3	ROTOLOCK ADAPTOR3		2
	16	MK230E-CLLB	COLLECTOR BOTTOM		1
	15	MK230E-CLLT	COLLECTOR TOP		1
	14	MK260E-CPG1	COUPLING CLAMP 1		8
	13	MK260E-EXC	HEAT EXCHANGER		4
	12	M-CPF-6000-90	1/4 90° ORIFICE CUPPER PIPE FITTING		3
	11	M-CCP-6000	CONDUIT FOR CONTROL PANEL		12
	10	MK260E-BLT630	BOLT M6x30		60
	09	M-NUT-6000	CAGE NUT M6		60
	08	MCY 2750-3000-12	CONDENSER REINFORCEMENT PLATE		1
	07	MCY 3000-15	FAN PROTECTOR		1
	06	MK260E-BLT830	BOLT M8x30		8
	05	MK260C-BKO-24-32	BEKO DRAIN		4
	04	M-FMT-6000-460-3-60	FAN MOTOR		3
	03	MK260E-NIP1/2	1/2" NIPPLE		5
	02	MK230E-CON	CONDENSER		1
	01	MK230E-CAB	CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 3600



8.1 - ED & Spare Part List

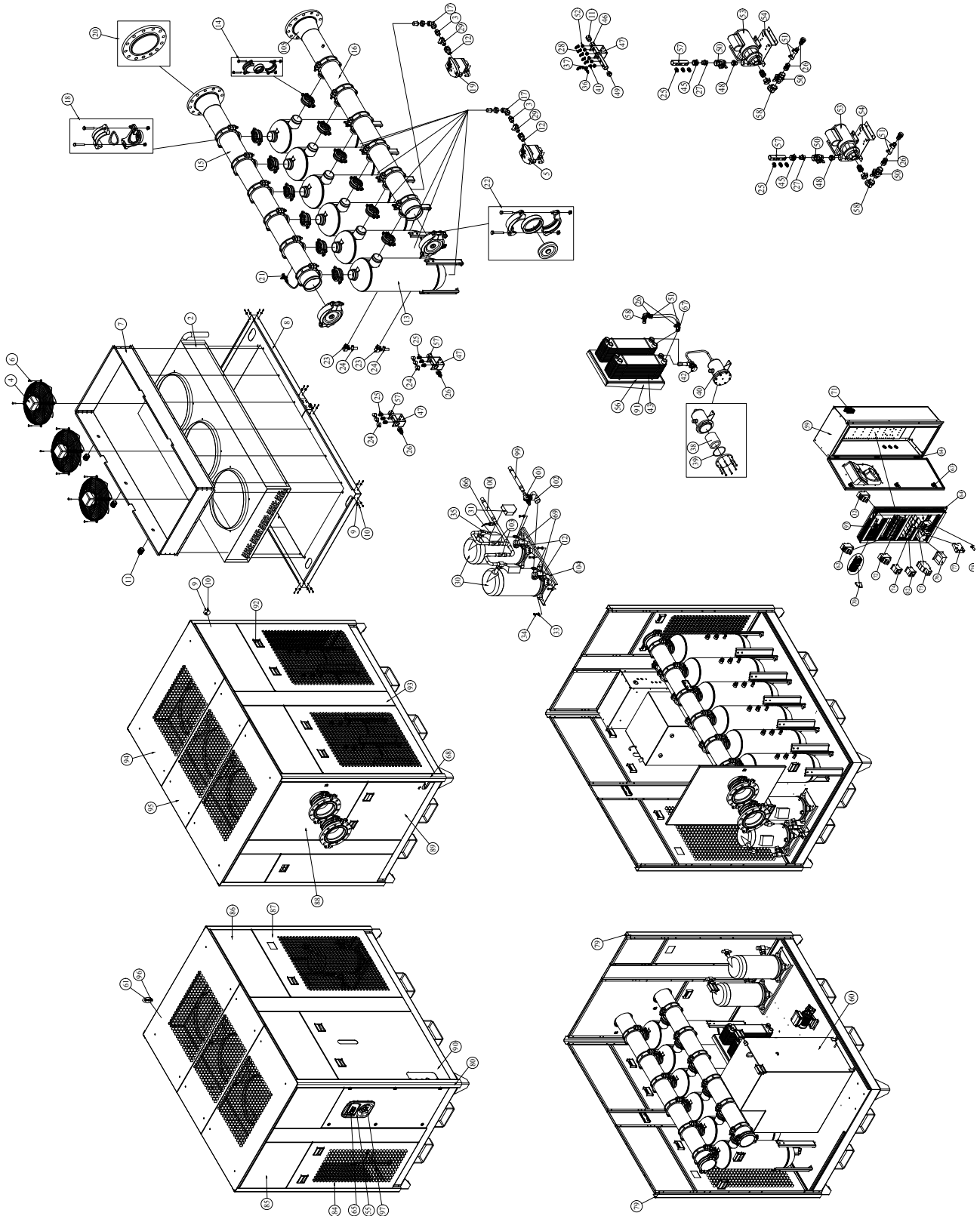
ODRC 3600

	105	MK250E-RDN		REDUCTION		2
	104	MCY 3600-27		COMPRESSOR LOWER PLATE		1
	103	MK260E-CKV		CHECK VALVE		2
	102	MK260E-RTA7-T		ROTOLOCK ADAPTOR7-T		1
	101	MK260E-RTA7		ROTOLOCK ADAPTOR7		1
	100	MK250E-ASF		ASTROFLEX		1
	99	MK260E-ASF		ASTROFLEX		1
	98	MK260C-SLE-3/4		SLEEVE		1
	97	MK260C-MNS		MAIN SWITCH		1
	96	M-FAS-6000		CABINET FASTENER		28
	95	MCY3600-4000-17		CABINET TOP2		1
	94	MCY3600-4000-16		CABINET TOP1		2
	93	MCY3600-4000-04		CABINET POST SECONDARY SIDE		2
	92	M-CHN-6000		CABINET HANDLE		12
	91	MCY 3600-4000-27		WATER EXCHANGER SUPPORT PLATE		2
	90	MCY3600-4000-10		CABINET SIDE BOTTOM2		1
	89	MCY3600-4000-15		CABINET REAR BOTTOM1		1
	88	MCY3600-4000-14		CABINET REAR TOP		1
	87	MCY3600-4000-11		CABINET REAR SIDE BOTTOM		3
	86	MCY3600-4000-09		CABINET SIDE TOP		4
	85	MCY3600-4000-06		CABINET FRONT TOP		2
	84	MCY3600-4000-07		CABINET FRONT BOTTOM		1
	83	MK260E-MSW		MAIN SWITCH		1
	82	M-CNT-MP		WATER PUMP CONTACTOR		1
	81	MK260E-PCP-ESD3		PLASTIC CONTROL PANEL		1
	80	MCY3600-4000-02		CABINET LEG2		1
	79	MCY3600-4000-01		CABINET LEG1		3
	78	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
	77	M-PPR-6000		PHASE PROTECTION RELAY		1
	76	M-TRF-3000		TRANSFORMER		1
	75	M-CNT-2400		COMPRESSOR CONTACTOR		2
	74	M-CNT-MP		FAN CONTACTOR		3
	73	M-PWC-3800		POWER CONNECTOR		4
	72	M-COP-2400		COMPRESSOR OVERLOAD PROTECTION		2
	71	M-CCP-6000		CONDUIT FOR CONTROL PANEL		10
	70	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
	69	MK260E-RTA3		ROTOLOCK ADAPTOR3		2
	68	MCY3600-4000-03		CABINET LEG3		-
	67	MK260C-PCP		PLASTIC CONTROL PANEL		1
	66	M-HPS-0200		HIGH PRESSURE SWITCH		1
	65	MK260C-DPI-24		DIGITAL CONTROLLER		
	64	MK260E-HNG		HINGE		3
	63	MK260E-DLK		DOOR LOCK		3
	62	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		3
	61	M-STU-6000		CABINET STUD AND NUT		28
	60	M-WTA-250-C		WATER TANK		5
	59	MK250E-ELB-US		ELECTRICAL BOX		1
	58	MK260C-ELW 3/4		ELBOW 3/4		4
	57	MK230E-DRM3		DRAIN MANIFOLD		4
	56	MK3000C-MDF		MDF		1
	55	MK260E-MBC1		MANIFOLD BLIND CAP1		2
	54	MCY3600-4000-26		WATER PUMP PLATE		2
	53	M-PMP-1200-230		WATER PUMP		2
	52	MK260E-RDC		REDUCTION 1 / 2" - 1 / 4"		4
	51	MK260C-WHC-3/4		WATER HOSE CLAMP		8
	50	MK260C-DBV-3/4		DRAIN BALL VALVE		4
	49	MK260E-MBC2		MANIFOLD BLIND CAP2		1
	48	MK260C-RKR-3/4		3/4" RECORD		2
	47	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		2
	46	MK230E-DRM6		DRAIN MANIFOLD		1
	45	MK260E-RDC 3/4		REDUCTION 1 " - 3 / 4"		4
	44	N/A		N/A		-
	43	M-WHC-2000		EVAPORATOR (WATER HEAT EXCHANGER)		2
	42	M-EXV-2400		EXPANSION VALVE		2
	41	MK170E-NIP1/4		1 / 4" NIPPLE		1
	40	M-DRI-6000		DRYER-DEHYDRATOR		1
	39	M-DIS-6000		DRIER SEAL		1
	38	M-DIE-6000		DRIER ELEMENT		1
	37	MK170E-T1/4		1 / 4" T CONNECTOR		1
	36	MK260E-FTT		FLAT FITTINGS		1
	35	MK160E-RTA2		ROTOLOCK ADAPTOR2		4
	34	MK260E-BLT850		BOLT M8x50		14
	33	MK260E-WHR22		WASHER 22x8.2x2.4		14
	32	M-FOP-6000		FAN OVERLOAD PROTECTOR		3
	31	MK210E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		2
	30	M-CMP-2000-460-3-60		COMPRESSOR		2
	29	M-DBV-6000		DRAIN BALL VALVE		7
	28	MK260E-EWF		ELBOW FITTINGS1		6
	27	MK260E-NIP3/4		3/4" NIPPLE		2
	26	MK260C-WHR-3/4		WATER HOSE RECORD		8
	25	MK260C-WHR-1/2		WATER HOSE RECORD		10
	24	MK260C-WHC-1/2		WATER HOSE CLAMP		22
	23	M-RTH-1/2		ROTOLOCK HOSE 1/2		10
	22	MK250E-CPG4		COUPLING CLAMP 4		2
	21	MK260E-BLV		BALL VALVE		1
	20	MK260E-CPG3-UL		COUPLING CLAMP 3		2
	19	MK260C-BKO-24-31		BEKO DRAIN		1
	18	MK250E-CPG2		COUPLING CLAMP 2		12
	17	MK260C-ELW 1/2		ELBOW 1/2		7
	16	MK250E-CLLB		COLLECTOR BOTTOM		1
	15	MK250E-CLLT		COLLECTOR TOP		1
	14	MK260E-CPG1		COUPLING CLAMP 1		12
	13	MK260E-EXC		HEAT EXCHANGER		6
	12	MK260C-RKR		1/2" RECORD		7
	11	MK260E-DRS-NPT		DRAIN SLEEVE		1
	10	MK260E-BLT630		BOLT M6x30		58
	09	M-NUT-6000		CAGE NUT M6		58
	08	MK250E-CRP		CONDENSER REINFORCEMENT PLATE		2
	07	MK260E-FPRT		FAN PROTECTOR		1
	06	MK260E-BLT830		BOLT M8x30		12
	05	MK260C-BKO-24-32		BEKO DRAIN		6
	04	M-FMT-6000-460-3-60		FAN MOTOR		3
	03	MK260E-NIP1/2		1/2" NIPPLE		7
	02	MK250E-CON		CONDENSER		1
	01	MK250E-CAB		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO		SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 4000



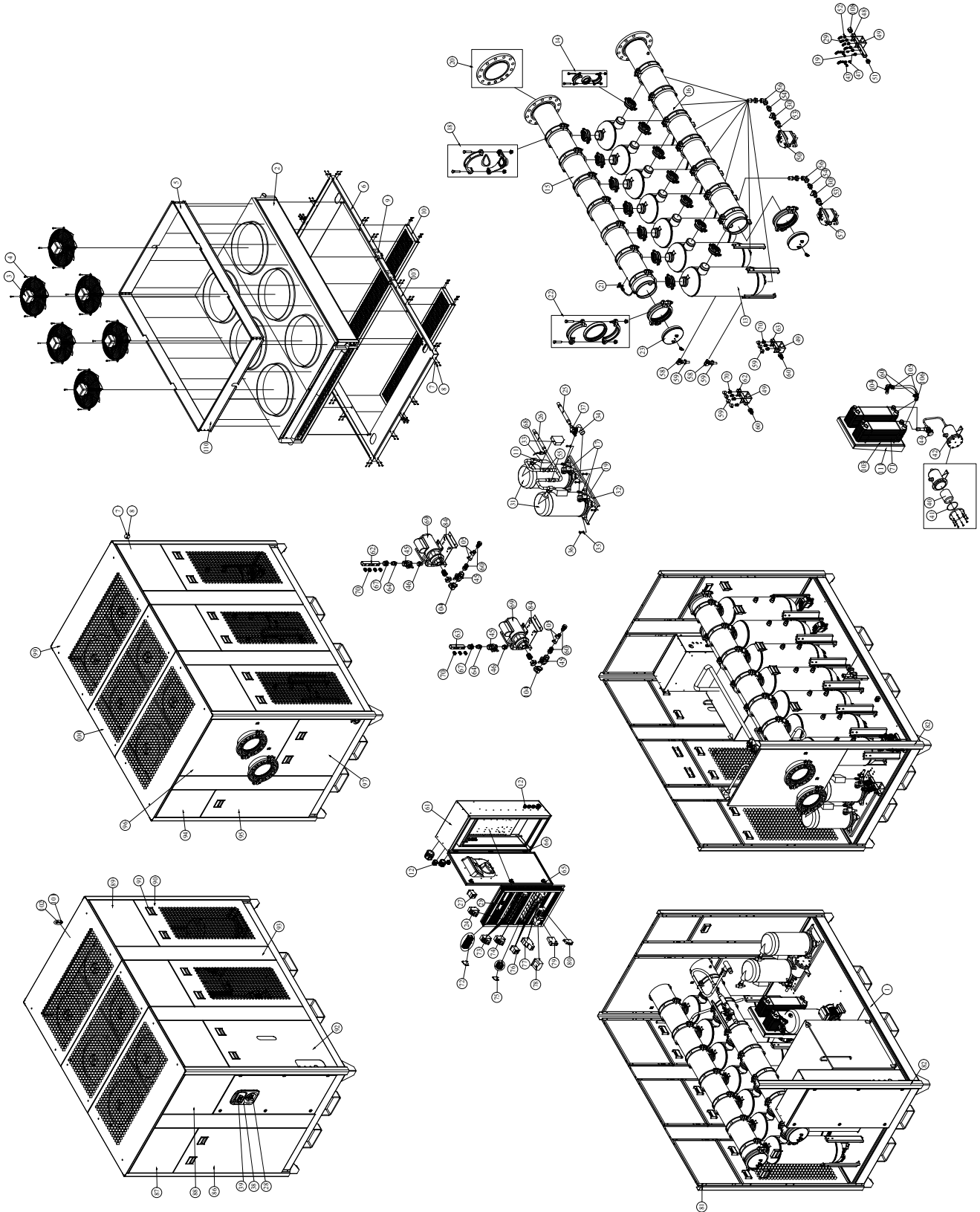
8.1 - ED & Spare Part List
ODRC 4000

105	MK250E-RDN		REDUCTION		2
104	MCY 3600-27		COMPRESSOR LOWER PLATE		1
103	MK260E-CKV		CHECK VALVE		2
102	MK260E-RTA7-T		ROTOLOCK ADAPTOR7-T		1
101	MK260E-RTA7		ROTOLOCK ADAPTOR7		1
100	MK250E-ASF		ASTROFLEX		1
99	MK260E-ASF		ASTROFLEX		1
98	N/A		N/A		-
97	MK260C-MNS		MAIN SWITCH		1
96	M-FAS-6000		CABINET FASTENER		28
95	MCY3600-4000-17		CABINET TOP2		1
94	MCY3600-4000-16		CABINET TOP1		2
93	MCY3600-4000-04		CABINET POST SECONDARY SIDE		2
92	M-CHN-6000		CABINET HANDLE		12
91	MCY 3600-4000-27		WATER EXCHANGER SUPPORT PLATE		2
90	MCY3600-4000-10		CABINET SIDE BOTTOM2		1
89	MCY3600-4000-15		CABINET REAR BOTTOM1		1
88	MCY3600-4000-14		CABINET REAR TOP		1
87	MCY3600-4000-11		CABINET REAR SIDE BOTTOM		3
86	MCY3600-4000-09		CABINET SIDE TOP		4
85	MCY3600-4000-06		CABINET FRONT TOP		2
84	MCY3600-4000-07		CABINET FRONT BOTTOM		1
83	MK260E-MSW		MAIN SWITCH		1
82	M-CNT-MP		WATER PUMP CONTACTOR		1
81	MK260E-PCP-ESD3		PLASTIC CONTROL PANEL		1
80	MCY3600-4000-02		CABINET LEG2		1
79	MCY3600-4000-01		CABINET LEG1		3
78	M-FHH-6000		HIGH VOLTAGE FUSE HOLDER		4
77	M-PPR-6000		PHASE PROTECTION RELAY		1
76	M-TRF-3000		TRANSFORMER		1
75	M-CNT-2400		COMPRESSOR CONTACTOR		2
74	M-CNT-MP		FAN CONTACTOR		3
73	M-PWC-3800		POWER CONNECTOR		4
72	M-COP-2400		COMPRESSOR OVERLOAD PROTECTION		2
71	M-CCP-6000		CONDUIT FOR CONTROL PANEL		10
70	M-FHL-6000		LOW VOLTAGE FUSE HOLDER		1
69	MK260E-RTA3		ROTOLOCK ADAPTOR3		2
68	MCY3600-4000-03		CABINET LEG3		-
67	MK260C-SLE-3/4		SLEEVE		1
66	M-HPS-0200		HIGH PRESSURE SWITCH		1
65	MK260C-DPI-24		DIGITAL CONTROLLER		
64	MK260E-HNG		HINGE		3
63	MK260E-DLK		DOOR LOCK		3
62	M-FOP-0700-230-3-60		WATER PUMP PROTECTOR		3
61	M-STU-6000		CABINET STUD AND NUT		28
60	M-WTA-250-C		WATER TANK		5
59	MK250E-ELB-US		ELECTRICAL BOX		1
58	MK260C-ELW 3/4		ELBOW 3/4		4
57	MK230E-DRM3		DRAIN MANIFOLD		4
56	MK3000C-MDF		MDF		1
55	MK260C-PCP		PLASTIC CONTROL PANEL		1
54	MCY3600-4000-26		WATER PUMP PLATE		2
53	M-PMP-1200-230		WATER PUMP		2
52	MK260E-RDC		REDUCTION 1/2" - 1/4"		4
51	MK260C-WHC-3/4		WATER HOSE CLAMP		8
50	MK260C-DBV-3/4		DRAIN BALL VALVE		4
49	MK260E-MBC2		MANIFOLD BLIND CAP2		1
48	MK260C-RKR-3/4		3/4" RECORD		2
47	MK260E-MRS		MANIFOLD REINFORCEMENT SHEET METAL		2
46	MK230E-DRM6		DRAIN MANIFOLD		1
45	MK260E-RDC 3/4		REDUCTION 1" - 3/4"		4
44	N/A		N/A		-
43	M-WHC-2000		EVAPORATOR (WATER HEAT EXCHANGER)		2
42	M-EXV-2400		EXPANSION VALVE		2
41	MK170E-NIP1/4		1/4" NIPPLE		1
40	M-DRI-6000		DRYER-DEHYDRATOR		1
39	M-DIS-6000		DRIER SEAL		1
38	M-DIE-6000		DRIER ELEMENT		1
37	MK170E-T1/4		1/4" T CONNECTOR		1
36	MK260E-FTT		FLAT FITTINGS		1
35	MK160E-RTA2		ROTOLOCK ADAPTOR2		4
34	MK260E-BLT850		BOLT M8x50		14
33	MK260E-WHR22		WASHER 22x8.2x2.4		14
32	M-FOP-6000		FAN OVERLOAD PROTECTOR		3
31	MK210E-CEC		COMPRESSOR ELECTRICAL BOX - COVER		2
30	M-CMP-2000-460-3-60		COMPRESSOR		2
29	M-DBV-6000		DRAIN BALL VALVE		7
28	MK260E-EWF		ELBOW FITTINGS1		6
27	MK260E-NIP3/4		3/4" NIPPLE		2
26	MK260C-WHR-3/4		WATER HOSE RECORD		8
25	MK260C-WHR-1/2		WATER HOSE RECORD		12
24	MK260C-WHC-1/2		WATER HOSE CLAMP		24
23	M-RTH-1/2		ROTOLOCK HOSE 1/2		12
22	MK250E-CPG4		COUPLING CLAMP 4		2
21	MK260E-BLV		BALL VALVE		1
20	MK260E-CPG3-UL		COUPLING CLAMP 3		2
19	MK260C-BKO-24-31		BEKO DRAIN		1
18	MK250E-CPG2		COUPLING CLAMP 2		12
17	MK260C-ELW 1/2		ELBOW 1/2		7
16	MK250E-CLLB		COLLECTOR BOTTOM		1
15	MK250E-CLLT		COLLECTOR TOP		1
14	MK260E-CPG1		COUPLING CLAMP 1		12
13	MK260E-EXC		HEAT EXCHANGER		6
12	MK260C-RKR		1/2" RECORD		7
11	MK260E-DRS-NPT		DRAIN SLEEVE		1
10	MK260E-BLT630		BOLT M6x30		58
09	M-NUT-6000		CAGE NUT M6		58
08	MK250E-CRP		CONDENSER REINFORCEMENT PLATE		2
07	MK260E-FPRT		FAN PROTECTOR		1
06	MK260E-BLT830		BOLT M8x30		12
05	MK260C-BKO-24-32		BEKO DRAIN		6
04	M-FMT-6000-460-3-60		FAN MOTOR		3
03	MK260E-NIP1/2		1/2" NIPPLE		7
02	MK250E-CON		CONDENSER		1
01	MK250E-CAB		CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

8.1 - ED & Spare Part List

ODRC 5000



8.1 - ED & Spare Part List

ODRC 5000

	111	MCY 5000-20	WATER EXCHANGER SUPPORT PLATE		1
	110	MCY 5000-19B	FAN PROTECTOR		2
	109	MCY 5000-03	CABINET LEG3		1
	108	MK260E-DRS-NPT	DRAIN SLEEVE		1
	107	MCY 5000-15A	CONDENSER REINFORCEMENT PLATE		1
	106	MK260C-SLE-3/4	SLEEVE		4
	105	MK260C-WHC-3/4	WATER HOSE CLAMP		1
	104	MK260C-ELW 3/4	ELBOW 3/4		1
	103	MK3000-MDF	MDF		1
	102	M-STU-6000	CABINET STUD AND NUT		34
	101	M-FAS-6000	CABINET FASTENER		34
	100	MCY 5000-17	CABINET TOP2		1
	99	MCY 5000-16	CABINET TOP1		2
	98	MK260E-CRS2-US	CABINET REAR SIDE BOTTOM2		3
	97	MCY 5000-13	CABINET BACK BOTTOM RIGHT		1
	96	MCY 5000-14	CABINET BACK TOP RIGHT		1
	95	MCY 5000-11	CABINET LEFT BOTTOM BACK		1
	94	MCY 5000-12	CABINET LEFT TOP BACK		1
	93	MCY 5000-04	CABINET POST SECONDARY SIDE		6
	92	MCY 5000-08	CABINET SIDE BOTTOM2		1
	91	M-CHN-6000	CABINET HANDLE		17
	90	MCY 5000-10	CABINET REAR SIDE BOTTOM1		5
	89	MCY 5000-09	CABINET SIDE TOP		6
	88	MCY 5000-07	CABINET FRONT RIGHT TOP		1
	87	MCY 5000-06	CABINET FRONT LEFT TOP		1
	86	MCY 5000-05	CABINET FRONT BOTTOM		1
	85	MK260E-MSW	MAIN SWITCH		1
	84	MCY3600-4000-26	WATER PUMP PLATE		2
	83	MK260E-PCP-ESD3	PLASTIC CONTROL PANEL		1
	82	MCY 5000-02	CABINET LEG2		1
	81	MCY 5000-01	CABINET LEG1		2
	80	M-FHH-6000	HIGH VOLTAGE FUSE HOLDER		4
	79	M-PPR-6000	PHASE PROTECTION RELAY		1
	78	M-TRF-3000	TRANSFORMER		1
	77	M-CNT-2400	COMPRESSOR CONTACTOR		2
	76	M-CNT-MP	FAN CONTACTOR		3
	75	M-PWC-3800	POWER CONNECTOR		4
	74	M-COP-2400	COMPRESSOR OVERLOAD PROTECTOR		2
	73	M-FOP-6000	FAN OVERLOAD PROTECTOR		3
	72	M-FHL-6000	LOW VOLTAGE FUSE HOLDER		1
	71	M-WHC-3000	EVAPORATOR (WATER HEAT EXCHANGER)		2
	70	MK260C-WHR-1/2	WATER HOSE RECORD		14
	69	M-FMP-1200-230	WATER PUMP		2
	68	M-HPS-0200	HIGH PRESSURE SWITCH		1
	67	MK260E-RDC 3/4	REDUCTION 1" - 3/4"		2
	66	MK260E-HNG	HINGE		3
	65	MK260E-DLK	DOOR LOCK		3
	64	MK260E-NIP3/4	3/4" NIPPLE		2
	63	MK230E-DRM3	DRAIN MANIFOLD		1
	62	MK230E-DRM4	DRAIN MANIFOLD		1
	61	MK260E-ELB-US	ELECTRICAL BOX		1
	60	MK260C-WHR-3/4	WATER HOSE RECORD		6
	59	MK260C-WHC-1/2	WATER HOSE CLAMP		14
	58	M-RTH-1/2	ROTOLOCK HOSE 1/2		1
	57	MK260C-BKO-24-31	BEKO DRAIN		1
	56	MK260C-ELW 1/2	ELBOW 1/2		8
	55	MK260E-CKV	CHECK VALVE		2
	54	MK260E-NIP1/2	1/2" NIPPLE		8
	53	MK260C-RKR	1/2" RECORD		7
	52	MK260E-RDC	REDUCTION 1 / 2" - 1 / 4"		5
	51	MK260E-MBC2	MANIFOLD BLIND CAP2		1
	50	MK260C-BKO-24-32	BEKO DRAIN		7
	49	MK260E-MRS	MANIFOLD REINFORCEMENT SHEET METAL		3
	48	MK260E-DRM6	DRAIN MANIFOLD		2
	47	MK170E-NIP1/4	1 / 4" NIPPLE		2
	46	MK260C-RKR-3/4	3/4" RECORD		2
	45	MK260C-DBV-3/4	DRAIN BALL VALVE		4
	44	M-EXV-2400	EXPANSION VALVE		2
	43	MK260E-FTT	FLAT FITTINGS		2
	42	M-DRI-6000	DRYER-DEHYDRATOR		1
	41	M-DIS-6000	DRIER SEAL		1
	40	M-DIE-6000	DRIER ELEMENT		1
	39	MK260C-DPI-24	DIGITAL CONTROLLER		2
	38	MK260C-PCP	PLASTIC CONTROL PANEL		1
	37	MK260E-RTA7	ROTOLOCK ADAPTOR7		1
	36	MK260E-BLT850	BOLT M8x50		16
	35	MK260E-WHR22	WASHER 22x8.2x2.4		16
	34	MK260E-RTA7-T	ROTOLOCK ADAPTOR7-T		1
	33	MK210E-CEC	COMPRESSOR ELECTRICAL BOX - COVER		2
	32	MCY 5000-22	COMPRESSOR LOWER PLATE		1
	31	M-CMP-2400-460-3-60	COMPRESSOR		2
	30	M-DBV-6000	DRAIN BALL VALVE		7
	29	MK260E-EWF	ELBOW FITTINGS1		15
	28	MK260C-MNS	MAIN SWITCH		5
	27	M-CNT-MP	WATER PUMP CONTACTOR		7
	26	MK250E-ASF	ASTROFLEX		1
	25	MK260E-ASF	ASTROFLEX		1
	24	M-FOP-0700-230-3-60	WATER PUMP PROTECTOR		9
	23	MK260E-CPC	COUPLING COVER		2
	22	MK260E-CPG4	COUPLING CLAMP 4		2
	21	MK260E-BLV	BALL VALVE		1
	20	MK260E-CPG3-UL	COUPLING CLAMP 3		2
	19	MK170E-T1/4	1 / 4" T CONNECTOR		6
	18	MK260E-CPG2	COUPLING CLAMP 2		14
	17	MK260E-RTA3	ROTOLOCK ADAPTOR3		3
	16	MK260E-CLLB	COLLECTOR BOTTOM		1
	15	MK260E-CLLT	COLLECTOR TOP		1
	14	MK260E-CPG1	COUPLING CLAMP 1		14
	13	MK260E-EXC	HEAT EXCHANGER		7
	12	M-CCP-6000	CONDUIT FOR CONTROL PANEL		8
	11	MK160E-RTA2	ROTOLOCK ADAPTOR2		6
	10	MCY 5000-18	CONDENSER LOWER PLATE SUPPORT		2
	09	MCY 5000-21	CONDENSER SUPPORT ADDITIONAL		2
	08	MK260E-BLT630	BOLT M6x30		70
	07	M-NUT-6000	CAGE NUT M6		70
	06	MCY 5000-15B	CONDENSER REINFORCEMENT PLATE		2
	05	MCY 5000-19A	FAN PROTECTOR		5
	04	MK260E-BLT830	BOLT M8x30		24
	03	M-FMT-6000-460-3-60	FAN MOTOR		6
	02	MK260E-CON	CONDENSER		1
	01	MK260E-CAB	CABINET BASE		1
DWG SIZE	ITEM NO.	PART NO	SPARE PART CODE	REV	QTY

PART LIST

9. COMPONENTS LOCATION

All main components located into dryer identified with labels as listed below.

CAUTION: Due to manufacture design, some components on of the list are not installed in the dryer.

Electrical components:

Accessories :

A01:	Control circuit transformer
A02:	Power circuit transformer
A10:	ON warning light
A11:	OFF warning light
A20:	Drain solenoid valve
A30:	Crankcase heater
A31:	Electrical resistor
A40:	Electrical capacity
EV3	Digital Controller (Digi-Pro)
A50-3:	Energy saving device 3 (ESD3)

Relays :

K01:	Compressor motor relay
K10:	Fan motor relay
K20:	Drain timer or Bekomat (optional)
K30:	Temperature Controller

Switches :

S01:	Main switch
S02:	Start push button
S03:	Stop push button
S10:	Fan pressure control
S11:	High-low pressure security control
S12:	High pressure security control
S13:	Low pressure security control
S20:	Refrigerant temperature control
S21:	Air temperature control

Motors :

M01:	Refrigerant compressor motor
M10:	Fan motor

Thermal protections :

P01:	Refrigerant compressor thermal overload
P10:	Fan motor thermal overload

Fuses protections :

See complete identification in electrical sketch included in dryer

F--:	Transformer protection
F--:	Fan protection
F--:	Compressor relay protection
F--:	Transformer protection
F--:	Drain protection
F--:	Fan relay protection

Refrigerant components:

G01:	Liquid receiver
G02:	Refrigerant drier
G03:	Expansion valve
G04:	Liquid separator
G05:	Hot gas bypass valve
G06:	Refrigerant solenoid valve
G10:	Water cooled condenser
G11:	Water control valve
G20:	Refrigerant evaporating pressure gauge
G21:	Refrigerant evaporating temperature gauge

Compressed air components :

H01:	Air inlet prefilter
H11:	Drain filter
H12:	Pneumatic drain valve

Terminal boxes:

B01:	Main terminal box
B11:	Refrigerant unit terminal box
B12:	Free of potential terminal box

Problem	Possible Cause	Repair	Comments	
Dryer is switched on, indicator light is lit but the refrigerant compressor does not turn on.	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 highpressure protection has tripped	The refrigerant safety high pressure switch has tripped.	In case of water cooled condensers, check the water control valve	The dryer is protected against excessively high refrigerant pressure. If the condenser efficiency has reduced, the switch will trip. Manually reset the switch.
		Excessive ambient temperature		
Dryer is switched on, but the refrigerant compressor does not turn on.	Excessive temperature on crankcase of compressor.	Allow time to compressor to cool down. Reason may be a possible incorrect adjustment of hot gas bypass valve or shortage of refrigerant	Compressor is protected against overly high temperatures of the crankcase by a thermal switch.	
	Excessive compressed air inlet temperature.	Be sure that dryer is working in temperatures lower than design conditions.	The dryer is designed for working in 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.	
	Clogged condenser fins or clogged water condenser. Possible high crankcase temperature Possible loss of phase Possible low voltage causing overload trip Possible failed compressor	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.	
	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 down stream. 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 diagrams in 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 is switched on 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. Check the fan pressure switch.	Fan operates automatically to keep refrigerant pressure below the maximum value. The fan can stop if pressure is under the recommended setting.	
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 2 hours is respected	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	Compressed Air Inlet and outlet connections are reversed.	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 is timed solenoid valve, pneumatically assisted which has to be adjusted in accordance with values listed in this 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.
	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.
	Excessive compressed air inlet temperature.	Be sure that dryer is working lower than design conditions	The dryer is designed to work for 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 unit 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 should be done by a qualified refrigeration engineer. This is a very sensitive device and incorrect settings may create other failures.
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.
	Freeze up	Check that compressor room ambient,	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. This is to be done by a qualified refrigerant technician.	
The unit will not run or cycles off and on.	Clogged heat exchanger	Clean heat exchanger with 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.
	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 burnt 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.
	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.

Problem	Possible Cause	Repair	Comments
The unit will not run or cycles off and on.	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. 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.
Error 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.
Drain Failure	Back pressure or reduction of drain port.	Back First of all replace the drain / drains. Open drain to atmosphere (no back pressure) - if hose / pipe is used to carry the drain somewhere else; keep or enlarge the diameter.	Max drain hose length after the dryer must not exceed 10 meters.
			Max drain hose height from the dryer must not exceed 3 meters.
			The drain port size should not be reduced.
			There should not be any fitting that may cause pressure drop such as valves, elbow, tees, etc. on the drain connection.
			Drain should be at atmospheric pressure at all times. Any back pressure will result in failure and malfunction.

Warranty Statement for Refrigerated Air Dryers

When used under the conditions recommended by the manufacturer, Ozen Air Dryers are warranted to be free from defects in material and workmanship for a period of 24 months from startup date, which should not exceed 30 days from the factory ship date, provided that Ozen is furnished the startup form. The heat exchanger will be warranted for 5 years. This warranty is limited to the replacement of the heat exchangers, FOB Factory, and subject to the same restrictions as outlined below concerning misuse, abuse or accident.

All electrical components such as fan motor, compressors and electronical parts such as timer drain etc. in the product have a limited warranty for 3 months. It is always possible to send the failed electrical and electronical parts back to Ozen for detailed inspection and a report. If the inspection result of Ozen or the manufacturer of the equipment shows that the failure is due to a production fault, then the parts will be considered under warranty.

This warranty will apply to equipment installed, operated and maintained in accordance with the procedures and recommendations as outlined in the owner's manual published by Ozen during the life of this warranty. Ozen reserves the right to ask for the photos of the failed part or the part itself delivered to its warehouse. After inspection, if Ozen warranty department examination of the photo or returned part concludes that such defect has occurred in normal service and was not due to apparent misuse, abuse or accident, Ozen will repair or replace, at its sole discretion, the defective part free of charge and deliver it FOB from its warehouse.

This warranty is not transferable. Any warranty service performed in the field must be authorized by Ozen prior to service. Unauthorized service voids the warranty and any resulting charges will not be paid for by Ozen.

Ozen makes no other warranties or guarantees, expressed or implied. Ozen assumes no liability for indirect or consequential damages.