

COMPRESSED
AIR ADVISORS

Inc.

Compressed Air Advisors, Inc.

Phone: 877.247.2381

info@compressedairadvisors.com

www.compressedairadvisors.com

KRAD

REFRIGERATED TYPE COMPRESSED AIR DRYERS

KRAD 10 - KRAD 1200

Rev No:0

Instructions Manual

TABLE OF CONTENTS

| | |
|--|----|
| 1. Important safety notes - Please read | 1 |
| 1.1. Transportation | 1 |
| 1.2 Positioning | 1 |
| 1.3 Installation | 1 |
| 1.4 Before operating | 1 |
| 1.5 Maintenance by an engineer | 1 |
| 1.6 Maintenance by the user | 1 |
| 2.Introduction to the KRAD dryer | 2 |
| 3.Operation | 4 |
| 4.Technical specifications | 7 |
| 5.Diagrams | 8 |
| 6.General Arrangements | 18 |
| 7. Main Settings | 18 |
| 8.Drawings | 19 |
| 9.Components location | 60 |
| 10.Troubleshooting | 61 |
| 11. Warranty | 63 |

I. IMPORTANT SAFETY NOTES – Please READ

- A) When operating the air dryer the operator must apply safe working methods and observe all local safety instructions and relevant regulations.
- B) Prior to installation, the dryer and the compressed air system are to be depressurized and disconnected from the electrical main supply.
- C) The user is responsible for safe operating conditions. Parts and accessories must be replaced if inspection shows that safe operation cannot be assured.
- D) Installation, operation, maintenance and repair are only to be authorized, trained and skilled engineers.
- E) The minimum and maximum values stated must be observed, as well as all of the safety precautions described in this manual.
- F) 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 20" 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 122°F and should not be below 39°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).

1.3. Installation

- A) 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

- A) Review all safety precautions.
- B) The piping must have the correct diameter and be adapted to the operating pressure (see technical specification).
- C) Never operate the dryer at pressure above the maximum specified on the dryer label (check the technical specs too).

1.5. Maintenance by an Engineer

- 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

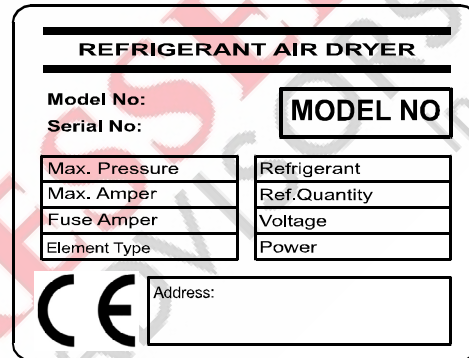
A) Manufacturer: KELTEC

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.



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: (Between models KRAD350 to KRAD1200)

- 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 condensates are 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.

5) Refrigerant compressor

Being of the hermetic type, it requires no servicing.

6) Condenser

a) The air condensers are equipped with a helicooidal at the condenser refrigerant level.

On certain type of dryers, a water-cooled condenser can be fitted.

b) In this case, a water valve being driven by the refrigerant circuit is taking care of its regulation.

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 as a pressure vessel. That is why it is protected against bursts by the help of manually reset switch. It is set to 362.5 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 a correct functioning.

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 resettled before switching on the dryer.

8) Refrigerant circuit controls

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

b) Constant evaporating pressure: In the 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 condensates and requiring no maintenance.

11) Accessories

a) Dew point indicator: Located on the control panel, it displays the value of the pressure dew point.

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

c) Energy Saving Device: (ESD) This device helps dryer save energy when there is not any compressed air flow in the dryer. (Please see the models have standart and optional in next page)

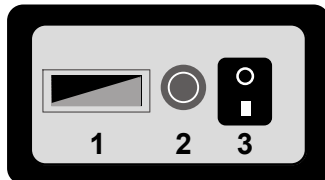
d) Filter change alarm on the front panel

3. OPERATION

3.1. Operation

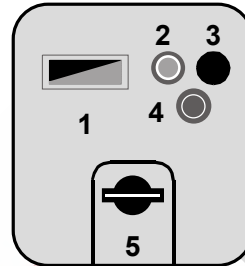
A) Control panels: The control panel of the dryer includes the following elements:

| Monophase | Dew point indicator |
|------------------|---------------------|
| KRAD10 - KRAD250 | ● |



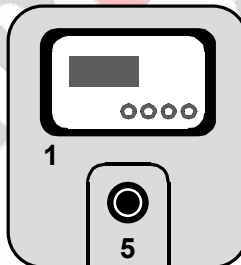
- 1) Dewpoint indicator (Standard)
- 2) Filter change Alarm**
- 3) Start / Stop Button

| Monophase | Dew point indicator |
|-------------------|---------------------|
| KRAD350 - KRAD500 | ● |



- 1) Dewpoint indicator (Standard)
- 2) Start Light
- 3) N/A
- 4) Filter change Alarm**
- 5) Main Switch

| Triphase | ESD3 |
|--------------------|------|
| KRAD600 - KRAD1200 | ● |



- 1) ESD3 (Standard)
- 5) 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 light is active. It is recommended to keep replacement filter elements in your stock in order to replace them when needed.

ATTENTION : KRAD range dryers have low pressure drop according its competitors. Do not use KRAD range dryers together with other dryers which have higher pressure drop without getting the confirmation from our technical team.

3.2. During Operation

Regularly check the digital temperature controller ESD3 or dewpoint indicator on dryer.

B) Start up and shut-down

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

C) 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.

2) IMPORTANT NOTE!

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.

D) Daily starting and shut-down

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

2) The start light 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.

4) IMPORTANT NOTE!

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.

E) Digital Temperature Control technical features (ESD3)

ESD3: PLC clear text multilingual indication of alarms, maintenance and running hours

+ Energy Saving Device automatic switching OFF at no load and ON when warm compressed air is entering.

(Please see the ESD3 manual which is given with Dryer)

KRAD

REFRIGERATED TYPE COMPRESSED AIR DRYERS

Technical Specifications & Diagrams

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4. TECHNICAL SPECIFICATIONS

| Model | Capacity (scfm) | Connection Size (NPT) | Voltage (V) | Installed Power (kw) | Min. Circuit Ampacity (Amp) | Refrigerant gas | Pressure drop (psi) | Maximum working pressure (psi) | Maximum ambient temperature (°F) | Maximum inlet temperature (°F) |
|-----------|-----------------|-----------------------|-------------|----------------------|-----------------------------|-----------------|---------------------|--------------------------------|----------------------------------|--------------------------------|
| KRAD 10 | 10 | 1/2" | 115/1/60 | 0,35 | 6,1 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 15 | 15 | 1/2" | 115/1/60 | 0,35 | 6,1 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 25 | 25 | 1/2" | 115/1/60 | 0,42 | 8,3 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 40 | 40 | 3/4" | 115/1/60 | 0,42 | 8,3 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 60 | 60 | 3/4" | 115/1/60 | 0,68 | 13,1 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 80 | 80 | 3/4" | 115/1/60 | 0,80 | 13,4 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 100 | 100 | 1 1/2" | 115/1/60 | 0,93 | 19 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 125 | 125 | 1 1/2" | 115/1/60 | 1,28 | 24,2 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 150 | 150 | 1 1/2" | 230/1/60 | 1,49 | 14 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 200 | 200 | 2" | 230/1/60 | 1,49 | 14 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 250 | 250 | 2" | 230/1/60 | 1,94 | 21,8 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 350 | 350 | 2" | 230/1/60 | 2,01 | 22 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 500 | 500 | 2" | 230/1/60 | 2,63 | 26,7 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 600 | 600 | 3" | 460/3/60 | 3,01 | 15,9 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 750 | 750 | 3" | 460/3/60 | 3,77 | 17,1 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 1000 | 1000 | 3" | 460/3/60 | 4,31 | 21,6 | R134a | < 3 | 230 | 122 | 140 |
| KRAD 1200 | 1200 | 3" | 460/3/60 | 5,68 | 22,8 | R134a | < 3 | 230 | 122 | 140 |

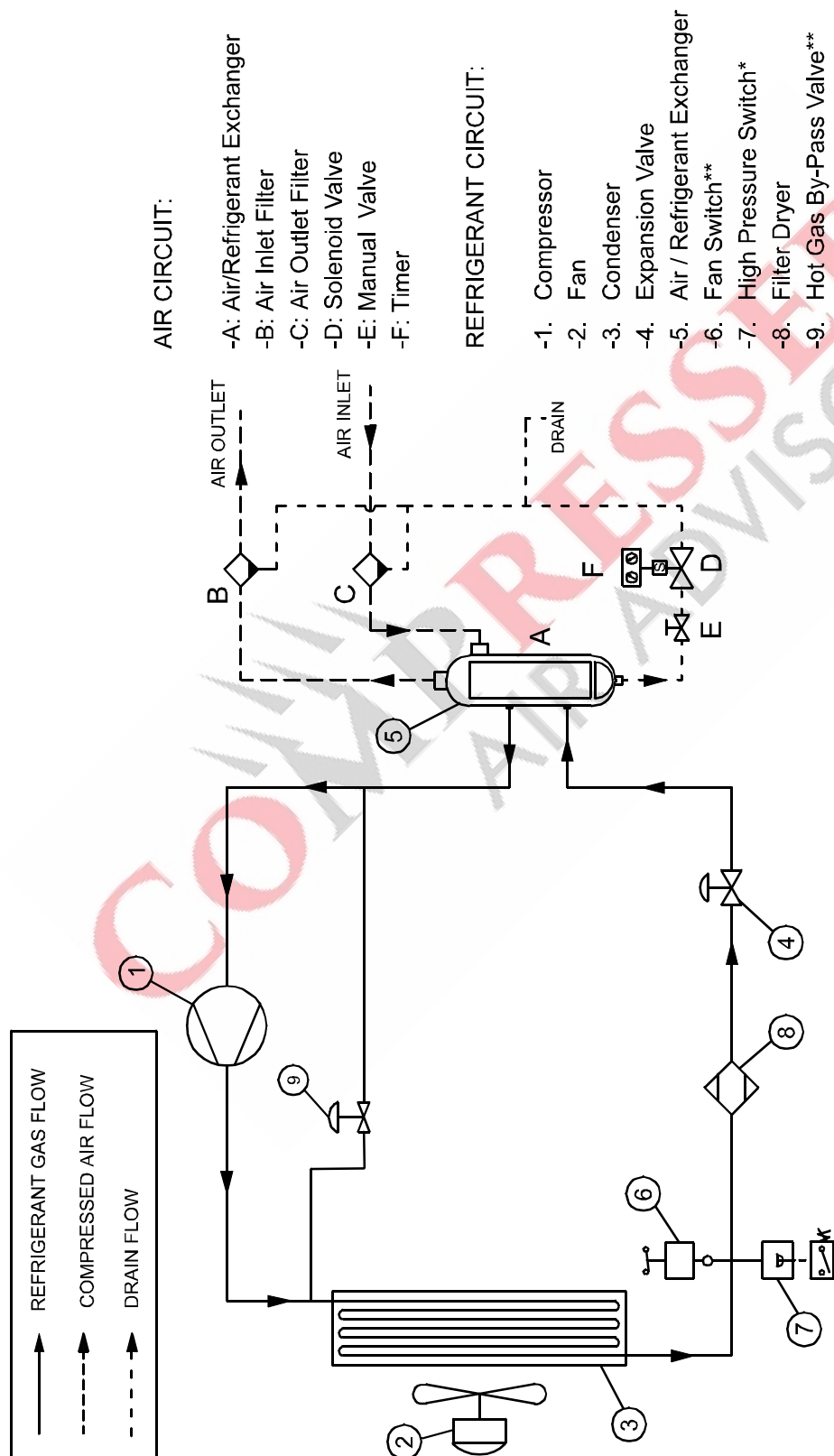
FOR ALL MODELS

| | |
|-----------------------------|---------|
| Nominal Pressure | 100 psi |
| Maximum pressure | 230 psi |
| Maximum ambient temperature | 122°F |
| Minimum ambient temperature | 39°F |
| Maximum inlet temperature | 140°F |

5. DIAGRAMS

5.1 AIR FLOW DIAGRAMS

KRAD 10 - KRAD 150

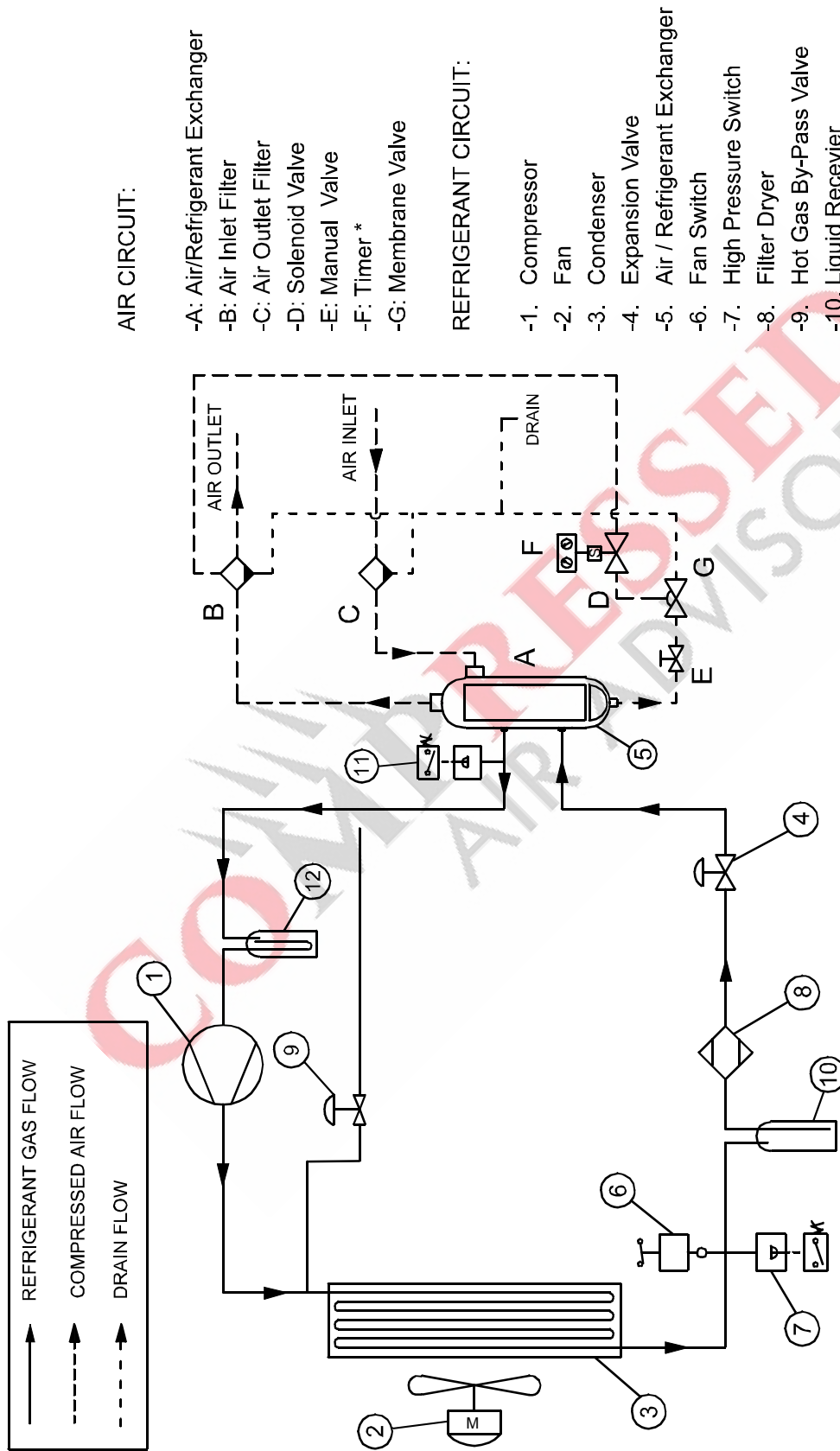


IMPORTANT NOTICE:

Part 7 : Only from Dryer KRAD 40 to KRAD 150 *

Part 9 : Only from Dryer KRAD 100 to KRAD 150 **

KRAD 200 - KRAD 1200



IMPORTANT NOTICE:

Part F : Timer is not used from KRAD 600 to KRAD 1200 *

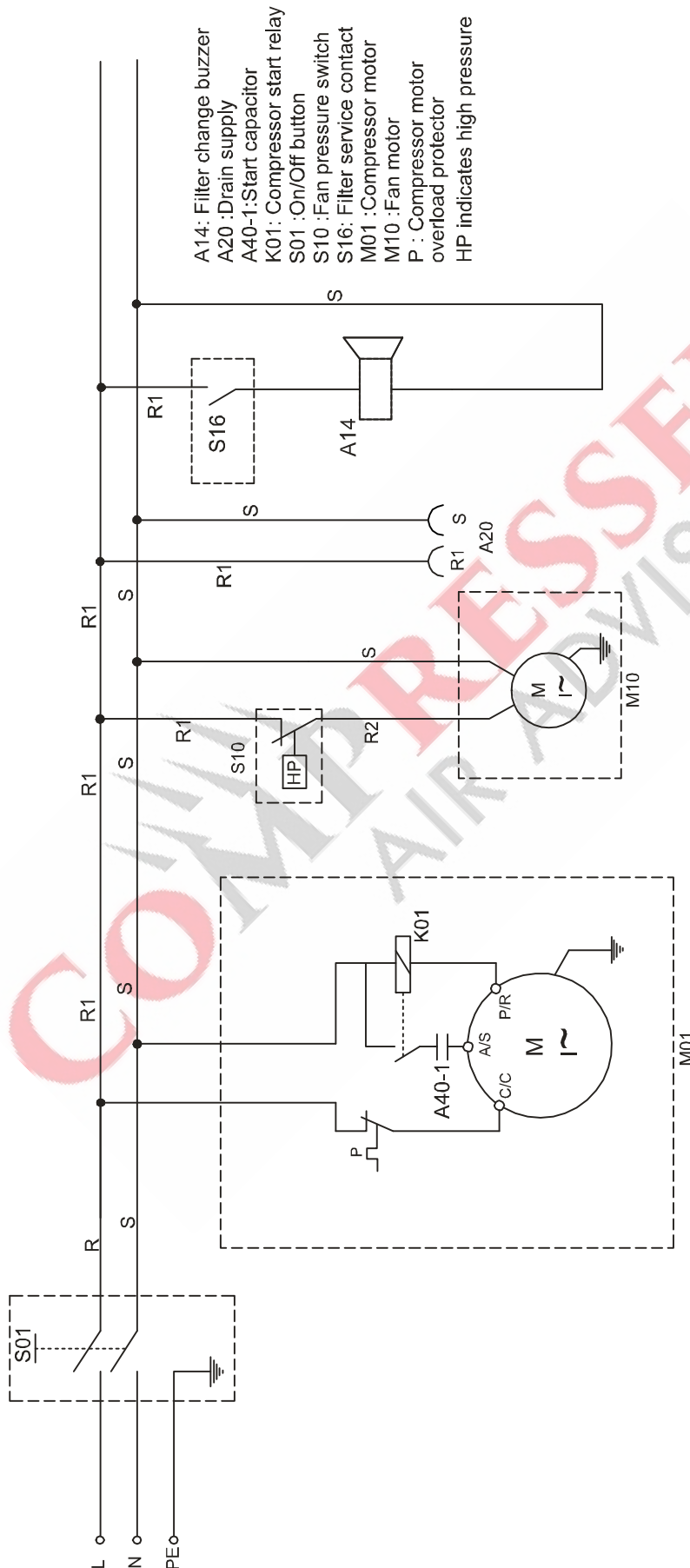
Part 11 : Only from Dryer KRAD 600 to KRAD 1200**

Part 12 : Suction accumulator is not used KRAD 200 and KRAD 250 ***

5.2 ELECTRICAL DIAGRAMS

KRAD 10 - KRAD 25

Electrical Circuit

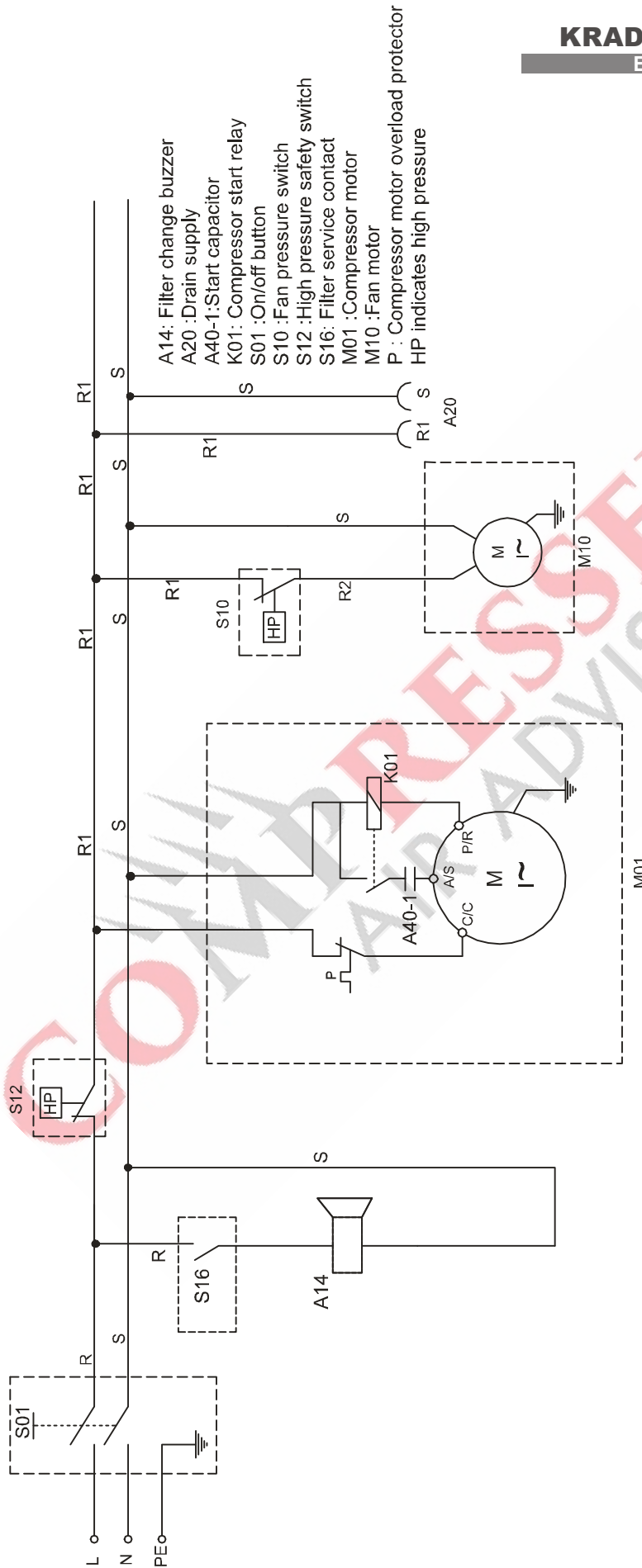


ELECTRICAL SPECIFICATIONS

| COMPRESSOR | FAN MOTOR |
|--------------------------|---------------------------|
| UN 115V 1PH 60HZ | UN 115V 1PH 60HZ |
| KRAD 10 FLA 4.4A 0.221kW | KRAD 10 FLA 0.45A 0.030kW |
| KRAD 15 FLA 4.4A 0.221kW | KRAD 15 FLA 0.45A 0.030kW |
| KRAD 25 FLA 6.2A 0.287kW | KRAD 25 FLA 0.45A 0.030kW |

KRAD 40 - KRAD 125

Electrical Circuit

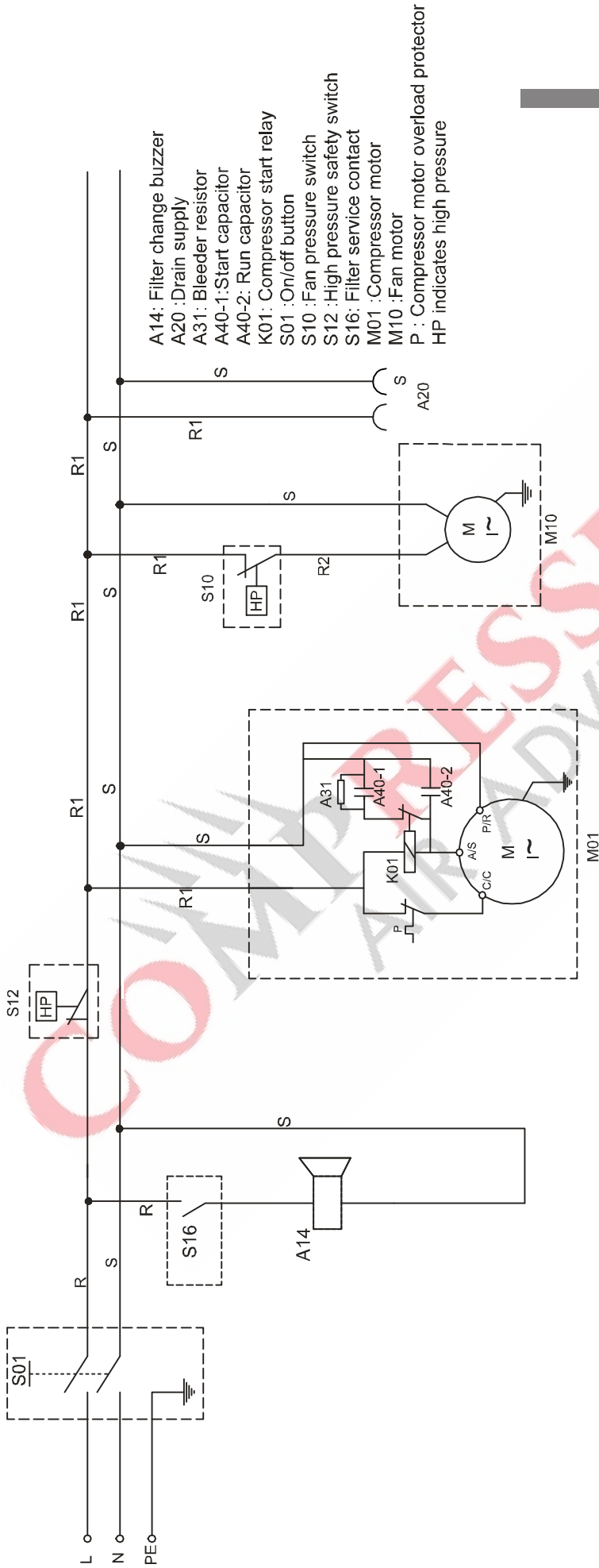


ELECTRICAL SPECIFICATIONS

| COMPRESSOR | | FAN MOTOR | | | |
|------------------|-----------|------------------|----------|-----------|---------|
| UN 115V 1PH 60HZ | | UN 115V 1PH 60HZ | | | |
| KRAD 40 | FLA 6.2A | 0.287kW | KRAD 40 | FLA 10A | 0.030kW |
| KRAD 60 | FLA 10A | 0.547kW | KRAD 60 | FLA 0.45A | 0.030kW |
| KRAD 80 | FLA 10.3A | 0.670kW | KRAD 80 | FLA 0.45A | 0.030kW |
| KRAD 100 | FLA 13.6A | 0.714kW | KRAD 100 | FLA 1.88A | 0.120kW |
| KRAD 125 | FLA 17.8A | 1.062kW | KRAD 125 | FLA 1.88A | 0.120kW |

KRAD 150

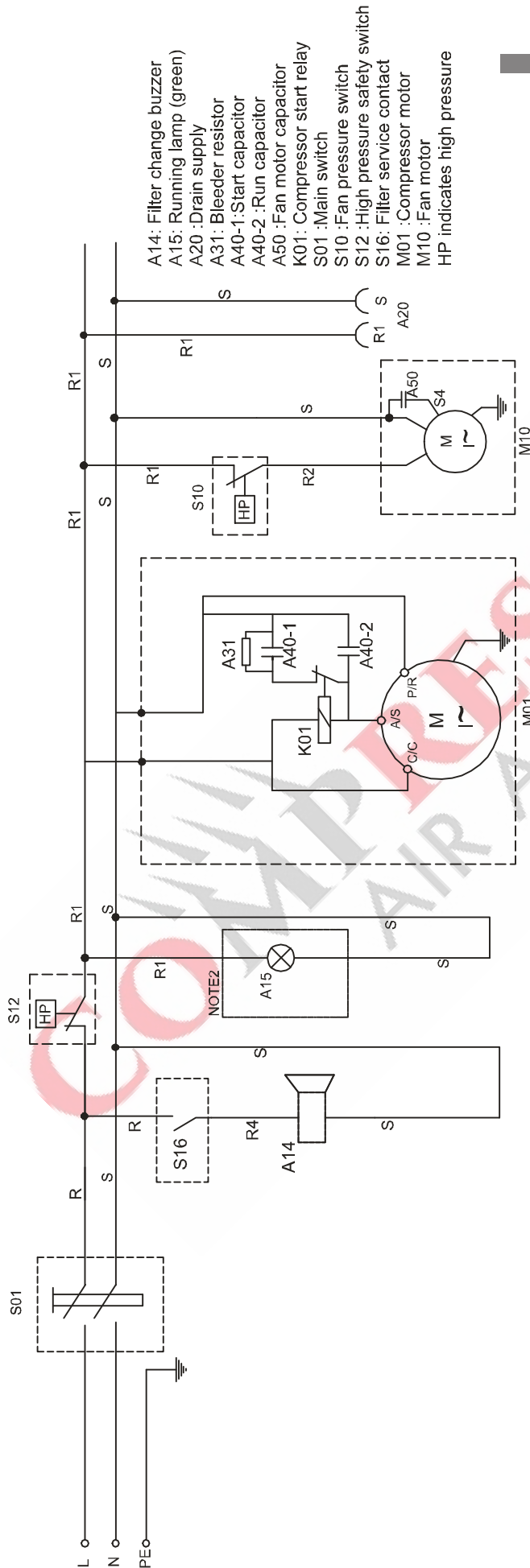
Electrical Circuit



ELECTRICAL SPECIFICATIONS

| | |
|----------------------------|---------------------------|
| COMPRESSOR | FAN MOTOR |
| UN 115V 1PH 60HZ | UN 115V 1PH 60HZ |
| KRAD 150 FLA 10.3A 1.292kW | KRAD 150 FLA 0.94A 0.95kW |

KRAD 200 - KRAD 250 Electrical Circuit

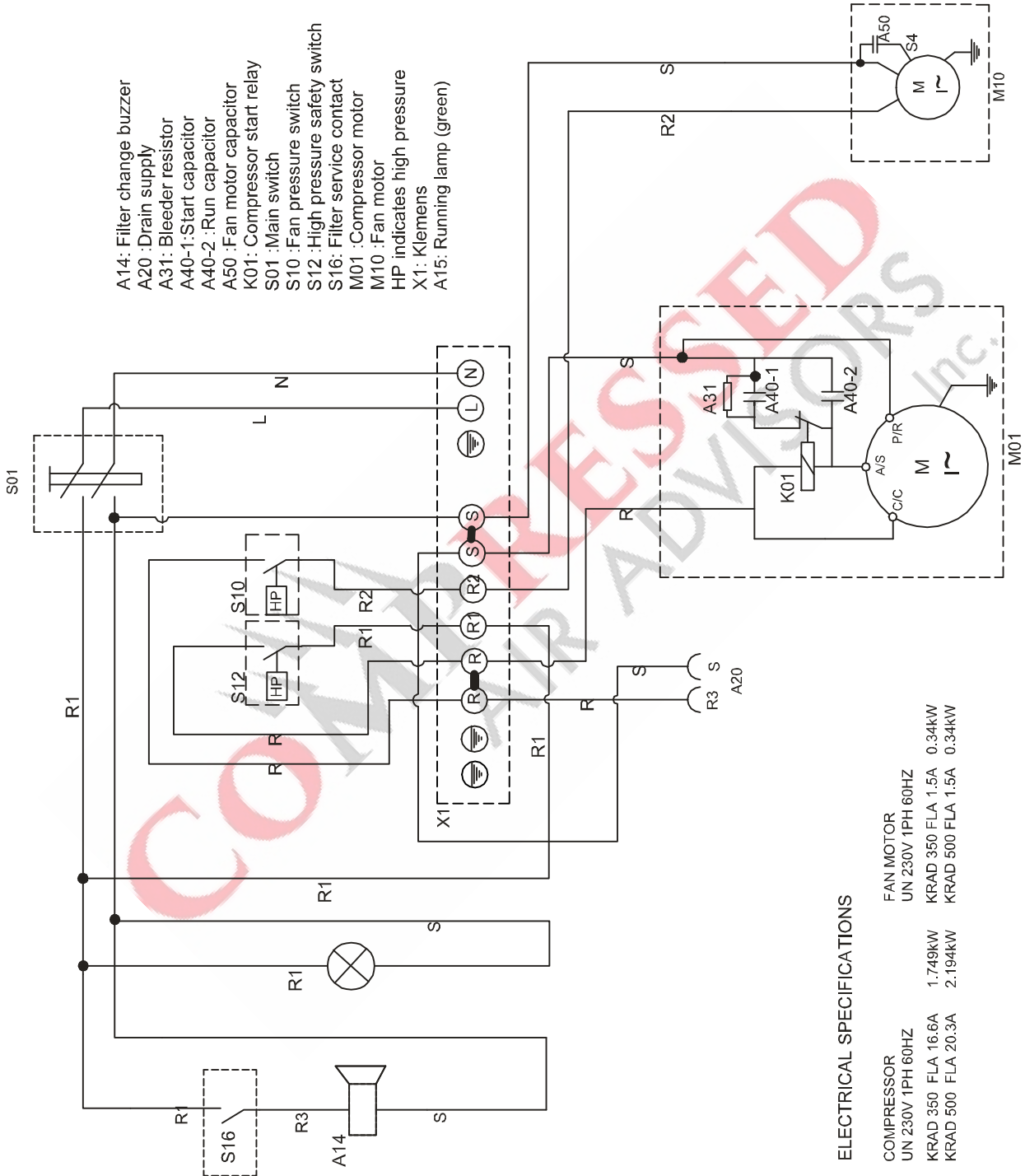


ELECTRICAL SPECIFICATIONS

| | |
|----------------------------|----------------------------|
| COMPRESSOR | FAN MOTOR |
| UN 230V 1PH 60HZ | UN 230V 1PH 60HZ |
| KRAD 200 FLA 10.3A 1.292kW | KRAD 200 FLA 0.94A 0.095kW |
| KRAD 250 FLA 16.6A 1.749kW | KRAD 250 FLA 0.94A 0.095kW |

KRAD 350 - KRAD 500

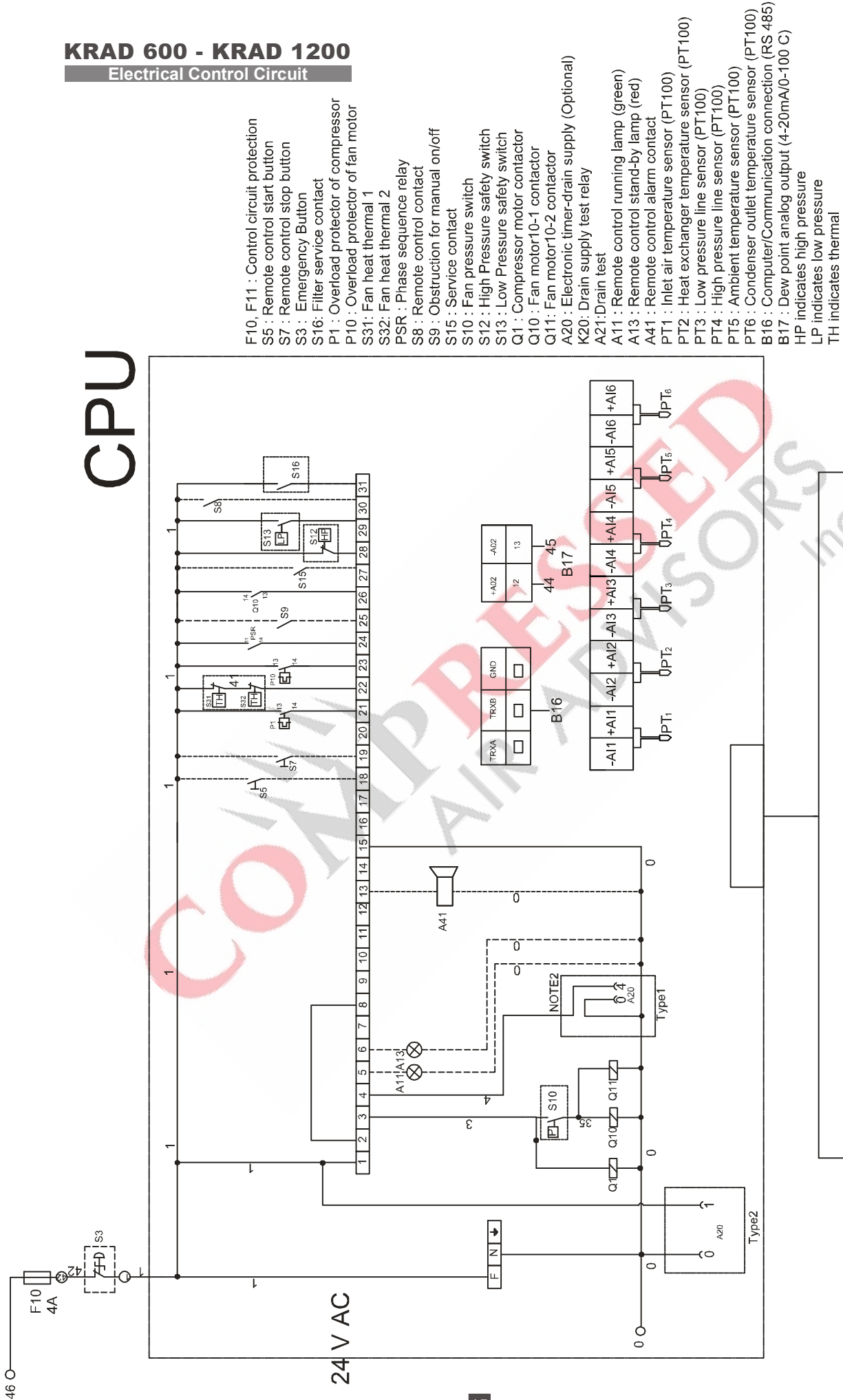
Electrical Circuit



KRAD 600 - KRAD 1200

Electrical Control Circuit

CPU

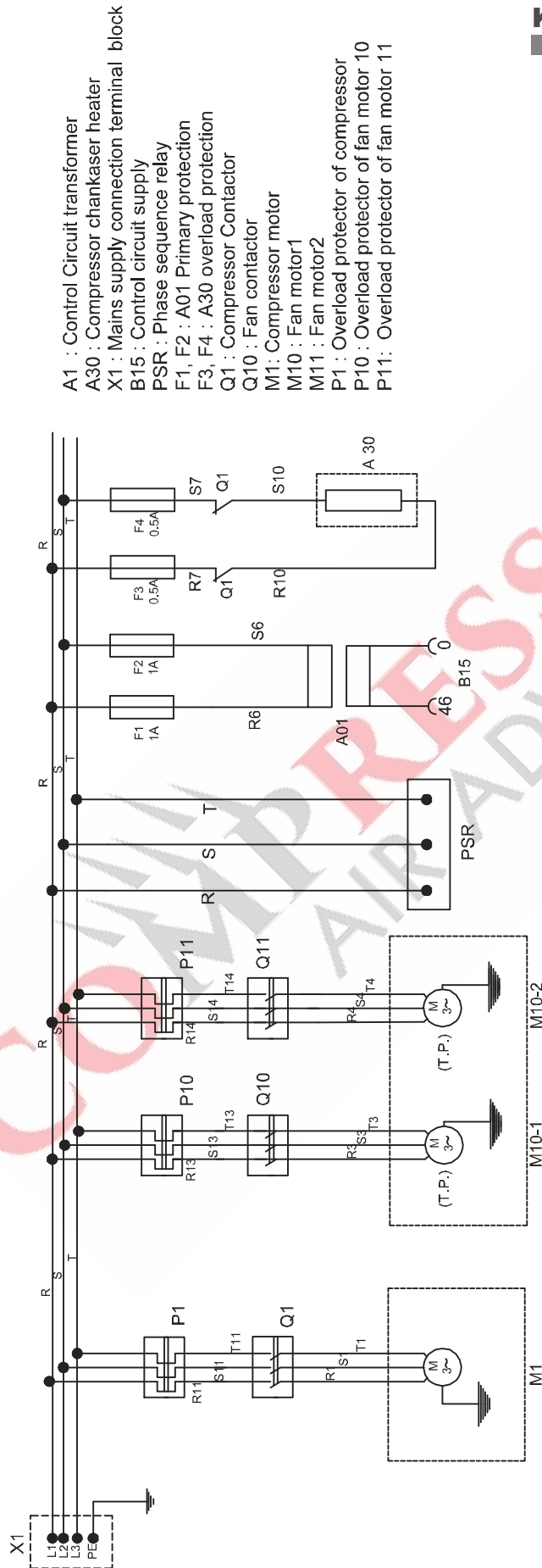


- F10, F11 : Control circuit protection
- S5 : Remote control start button
- S7 : Remote control stop button
- S3 : Emergency Button
- S16: Filter service contact
- P1 : Overload protector of compressor
- P11 : Overload protector of fan motor
- S31: Fan heat thermal 1
- S32: Fan heat thermal 2
- PSR : Phase sequence relay
- S8 : Remote control contact
- S9 : Obstruction for manual on/off
- S15 : Service contact
- S10 : Fan pressure switch
- S12 : High Pressure safety switch
- S13 : Low Pressure safety switch
- Q1 : Compressor motor contactor
- Q10 : Fan motor10-1 contactor
- Q11 : Fan motor10-2 contactor
- A20 : Electronic timer-drain supply (Optional)
- K20: Drain supply test relay
- A21:Drain test
- A11 : Remote control running lamp (green)
- A13 : Remote control stand-by lamp (red)
- A41 : Remote control alarm contact
- PT1 : Inlet air temperature sensor (PT100)
- PT2 : Heat exchanger temperature sensor (PT100)
- PT3 : Heat exchanger temperature sensor (PT100)
- PT4 : Low pressure line sensor (PT100)
- PT5 : High pressure line sensor (PT100)
- PT6 : Ambient temperature sensor (PT100)
- PT100 : Condenser outlet temperature sensor (PT100)
- B16 : Computer/Communication connection (RS 485)
- B17 : Dew point analog output (4-20mA/0-100 C)
- HP indicates high pressure
- LP indicates low pressure
- TH indicates thermal

NOTE1: DRAIN SYSTEM CAN BE TYPE1 OR TYPE2

HMI

KRAD 600 - KRAD 1200
Electrical Power Circuit



- A1 : Control Circuit transformer
- A30 : Compressor chankaiser heater
- X1 : Mains supply connection terminal block
- B15 : Control circuit supply
- PSR : Phase sequence relay
- F1, F2 : A01 Primary protection
- F3, F4 : A30 overload protection
- Q1 : Compressor Contactor
- Q10 : Fan contactor
- M1 : Compressor motor
- M10 : Fan motor1
- M11 : Fan motor2
- P1 : Overload protector of compressor
- P10 : Overload protector of fan motor 10
- P11 : Overload protector of fan motor 11

ELECTRICAL SPECIFICATIONS

| COMPRESSOR | FAN MOTOR |
|-----------------------------|--------------------------------|
| UN 460V/3/60 | UN 460V/3/60 |
| KRAD 750 FLA 11A 2.580kW | KRAD 750 FLA 1.19A 0.3kW(x2) |
| KRAD 1000 FLA 15A 2.900kW | KRAD 1000 FLA 1.95A 0.41kW(x2) |
| KRAD 1200 FLA 15.9A 4.210kW | KRAD 1200 FLA 1.95A 0.44kW(x2) |

KRAD

REFRIGERATED TYPE COMPRESSED AIR DRYERS

General Arrangements
Main Settings
Drawings

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6. GENERAL ARRANGEMENTS

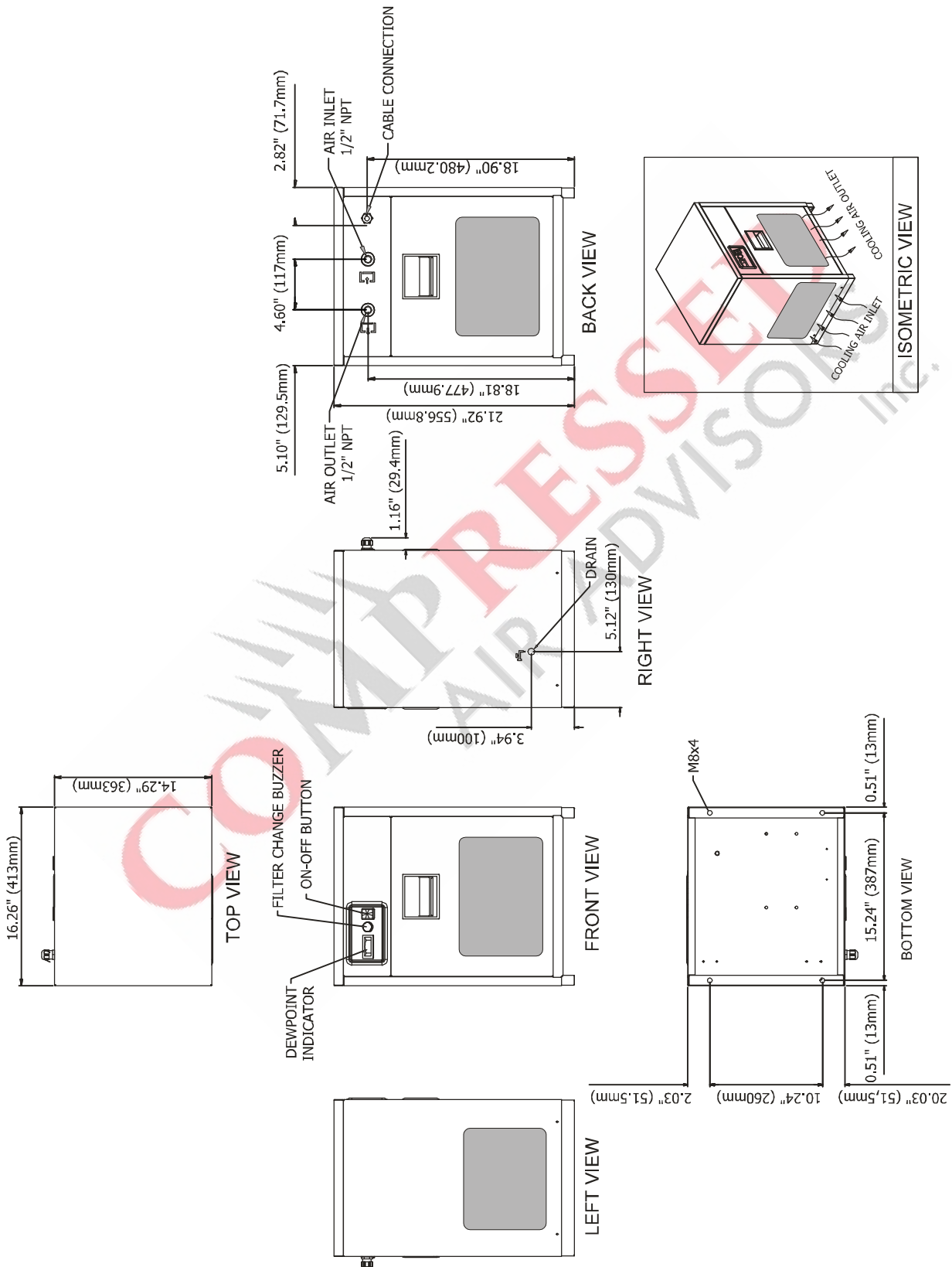
| Model | Pre-filter (1 micron) | After-filter (0.01 micron) | Pre-filter element | After-filter element | Length (inch) | Width (inch) | Height (inch) | Weight (lbs) |
|-----------|--------------------------|-------------------------------|-----------------------|-------------------------|------------------|-----------------|------------------|-----------------|
| KRAD 10 | CAH-ADFK1X | CAH-ADFK1Y | KRADFK1X | KRADFK1Y | 16.26 | 14.29 | 21.92 | 70.55 |
| KRAD 15 | CAH-ADFK1X | CAH-ADFK1Y | KRADFK1X | KRADFK1Y | 16.26 | 14.29 | 21.92 | 70.55 |
| KRAD 25 | CAH-ADFK1X | CAH-ADFK1Y | KRADFK1X | KRADFK1Y | 16.26 | 14.29 | 21.92 | 70.55 |
| KRAD 40 | CAH-ADFK2X | CAH-ADFK2Y | KRADFK2X | KRADFK2Y | 18.62 | 17.83 | 32.75 | 112.43 |
| KRAD 60 | CAH-ADFK2X | CAH-ADFK2Y | KRADFK2X | KRADFK2Y | 18.62 | 17.83 | 32.75 | 116.85 |
| KRAD 80 | CAH-ADFK2X | CAH-ADFK2Y | KRADFK2X | KRADFK2Y | 18.62 | 17.83 | 32.75 | 121.25 |
| KRAD 100 | CAH-ADFK3X | CAH-ADFK3Y | KRADFK3X | KRADFK3Y | 21.77 | 19.80 | 34.40 | 172 |
| KRAD 125 | CAH-ADFK3X | CAH-ADFK3Y | KRADFK3X | KRADFK3Y | 21.77 | 19.80 | 34.40 | 183 |
| KRAD 150 | CAH-ADFK3X | CAH-ADFK3Y | KRADFK3X | KRADFK3Y | 21.77 | 19.80 | 34.40 | 189.60 |
| KRAD 200 | CAH-ADFK4X | CAH-ADFK4Y | KRADFK4X | KRADFK4Y | 26.69 | 25.51 | 45.56 | 352.75 |
| KRAD 250 | CAH-ADFK5X | CAH-ADFK5Y | KRADFK5X | KRADFK5Y | 26.69 | 25.51 | 45.56 | 363.77 |
| KRAD 350 | CAH-ADFK5X | CAH-ADFK5Y | KRADFK5X | KRADFK5Y | 37.32 | 28.66 | 53.91 | 485 |
| KRAD 500 | CAH-ADFK5X | CAH-ADFK5Y | KRADFK5X | KRADFK5Y | 37.32 | 28.66 | 53.91 | 507 |
| KRAD 600 | CAH-ADFK6X | CAH-ADFK6Y | KRADFK6X | KRADFK6Y | 37.32 | 31.42 | 57.44 | 595.25 |
| KRAD 750 | CAH-ADFK6X | CAH-ADFK6Y | KRADFK6X | KRADFK6Y | 37.32 | 31.42 | 57.44 | 628.30 |
| KRAD 1000 | CAH-ADFK7X | CAH-ADFK7Y | KRADFK7X | KRADFK7Y | 45.79 | 30.63 | 67.81 | 864.20 |
| KRAD 1200 | CAH-ADFK7X | CAH-ADFK7Y | KRADFK7X | KRADFK7Y | 45.79 | 30.63 | 67.81 | 904 |

7. MAIN SETTINGS

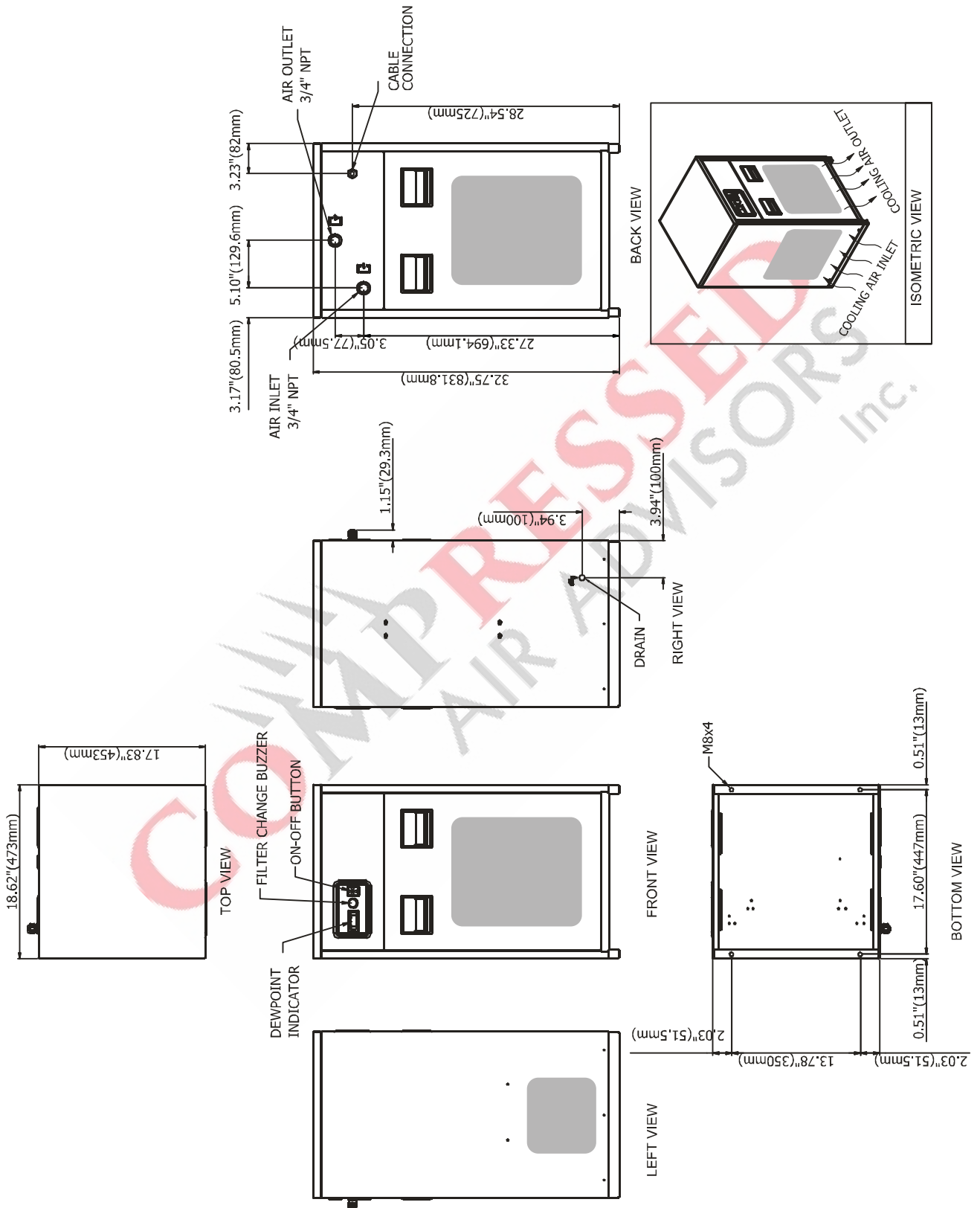
| | Superheat of thermostatic expansion valve | Evaporating pressure | Fan pressure switch | Security high pressure switch | Security low pressure switch | Drain timer | Refrigerant temperature switch | Water flow valve (if water condenser) |
|------------|--|-------------------------|---------------------------|--|---------------------------------------|-----------------|--------------------------------------|--|
| ALL MODELS | 41°F - 50°F | 29.7 psi | 130 - 174 psi | 362.5 psi | 23.2 psi | 5 min. - 5 sec. | 113°F | 159.5 psi |

8. ED and ID DRAWINGS

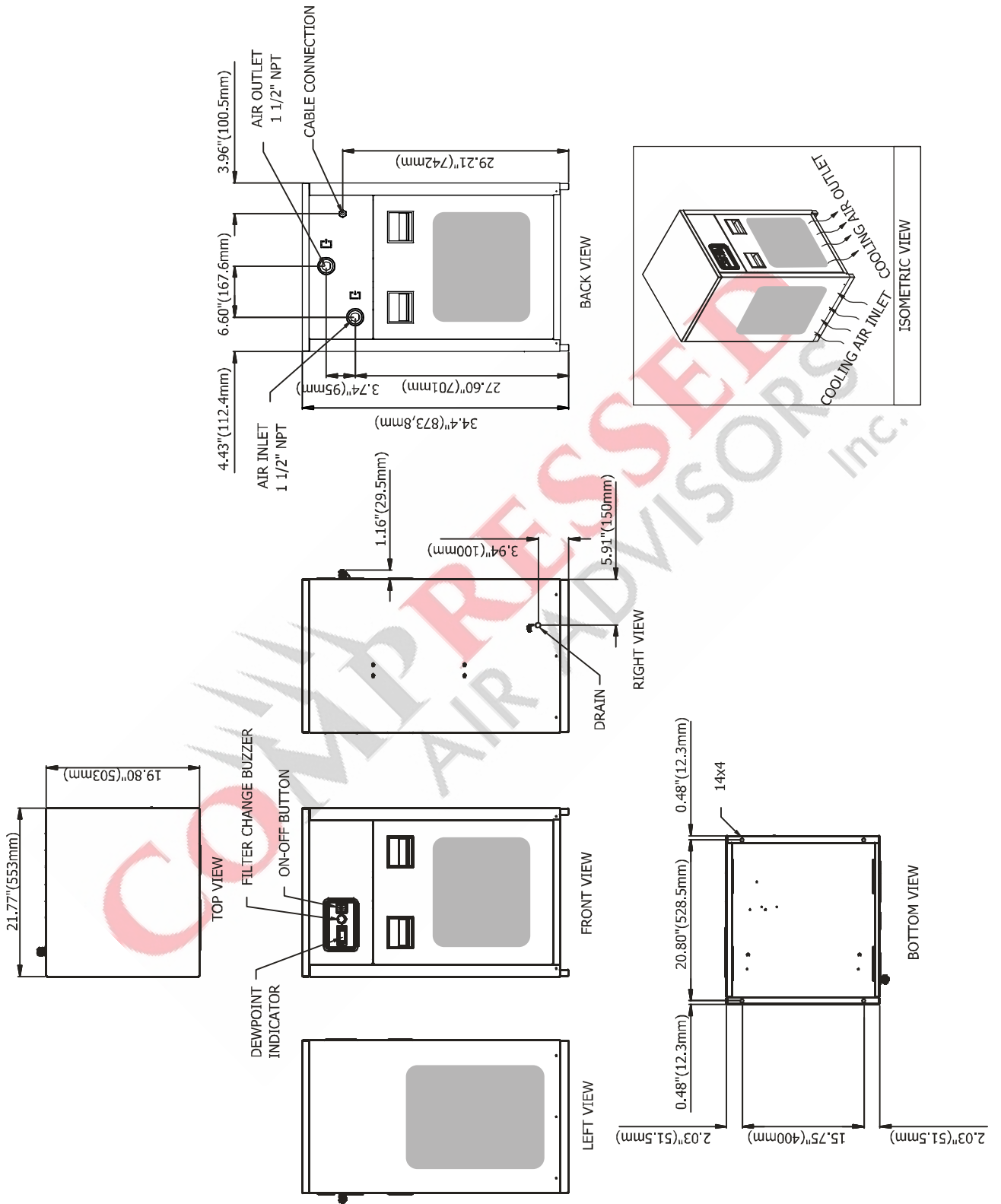
KRAD 10 - KRAD 25



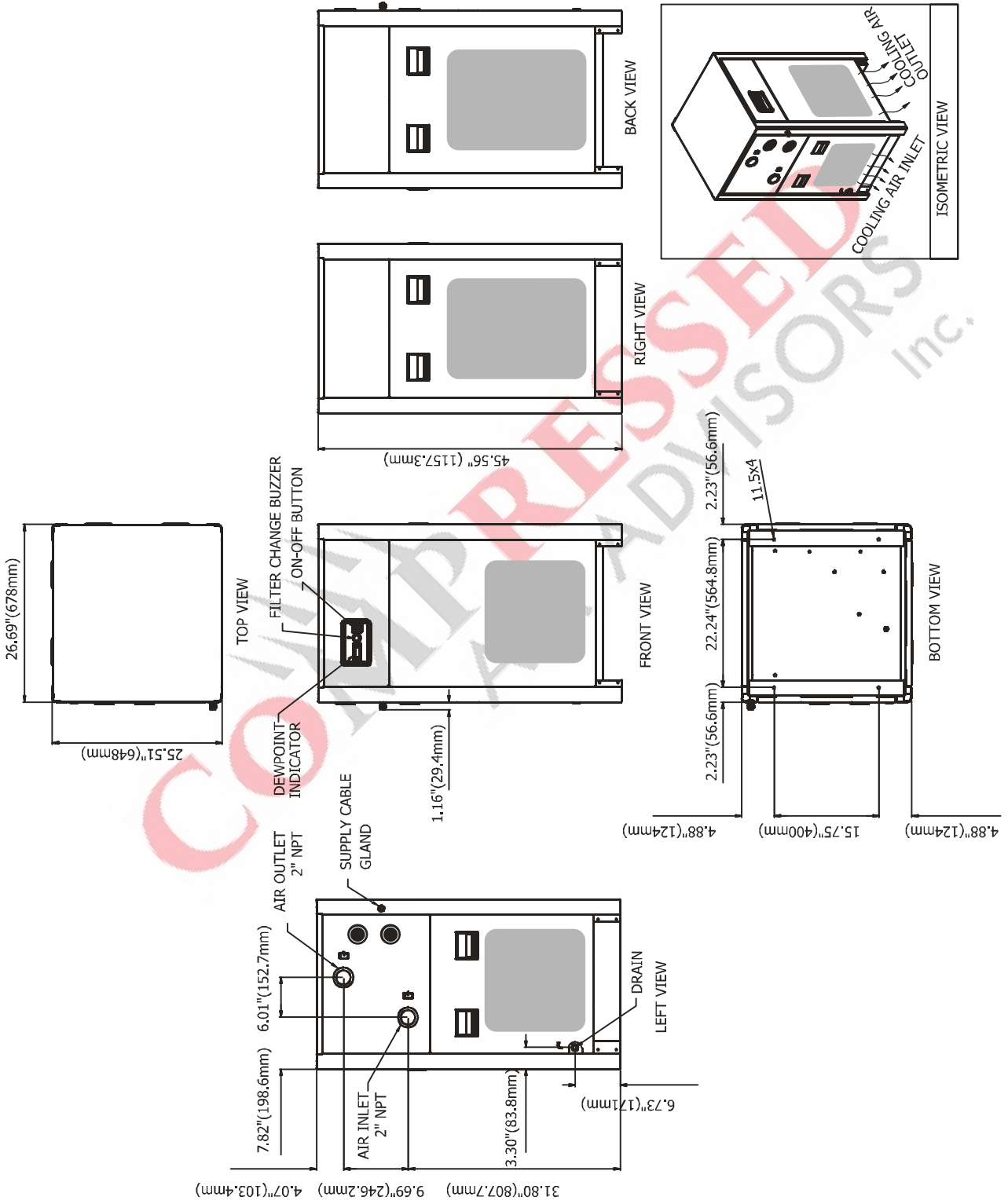
KRAD 40 - KRAD 80



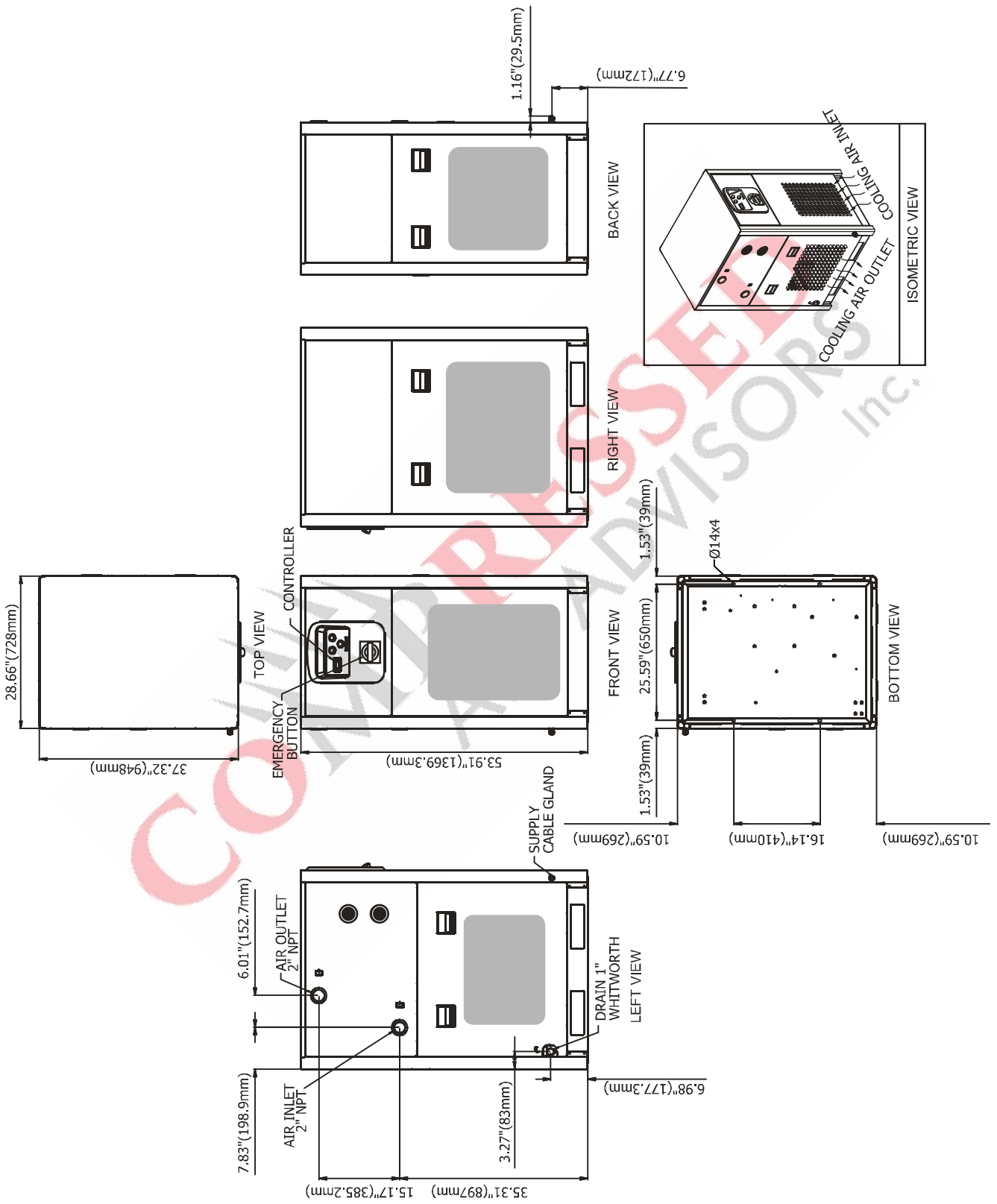
KRAD 100 - KRAD 150



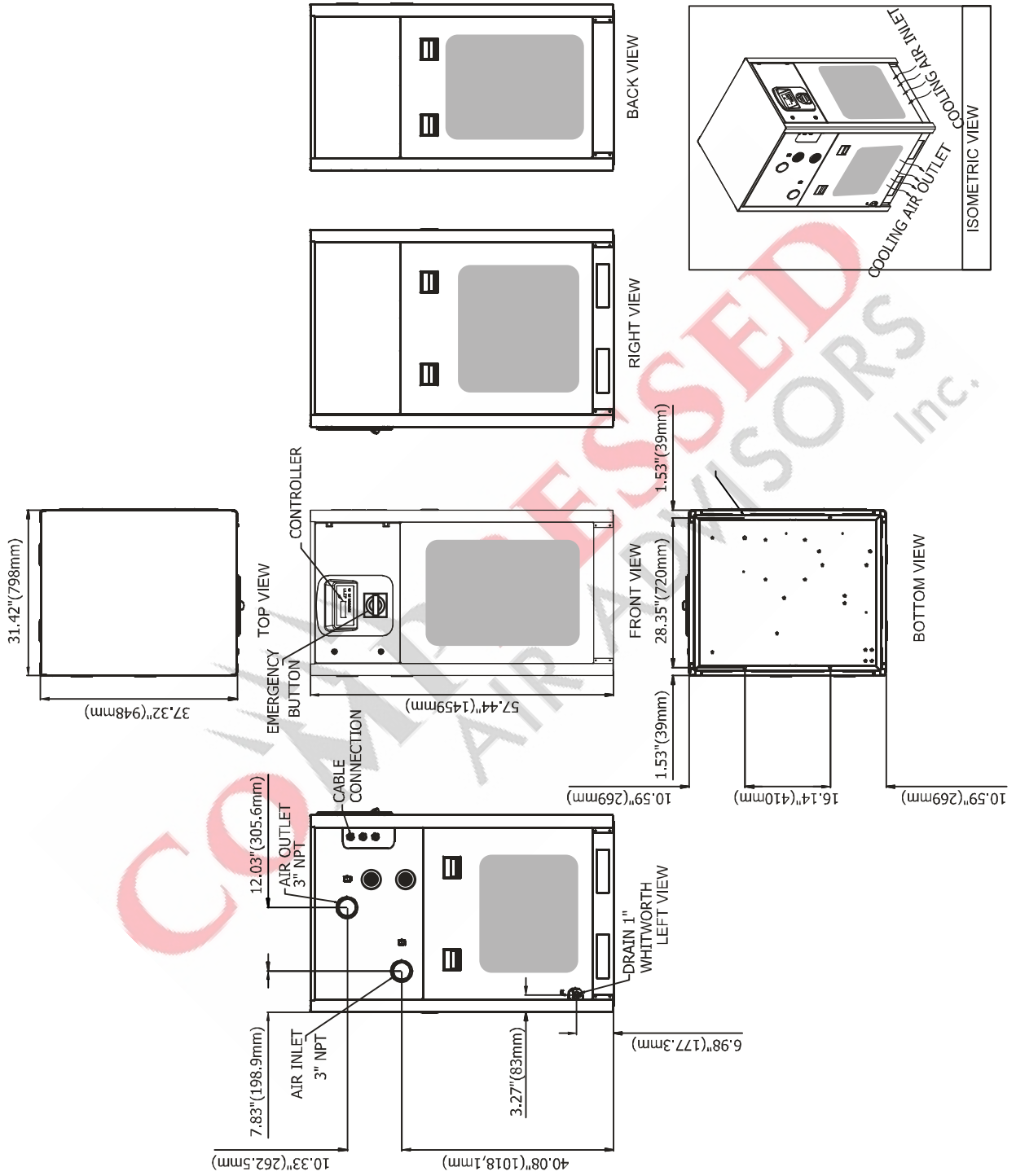
KRAD 200 - KRAD 250



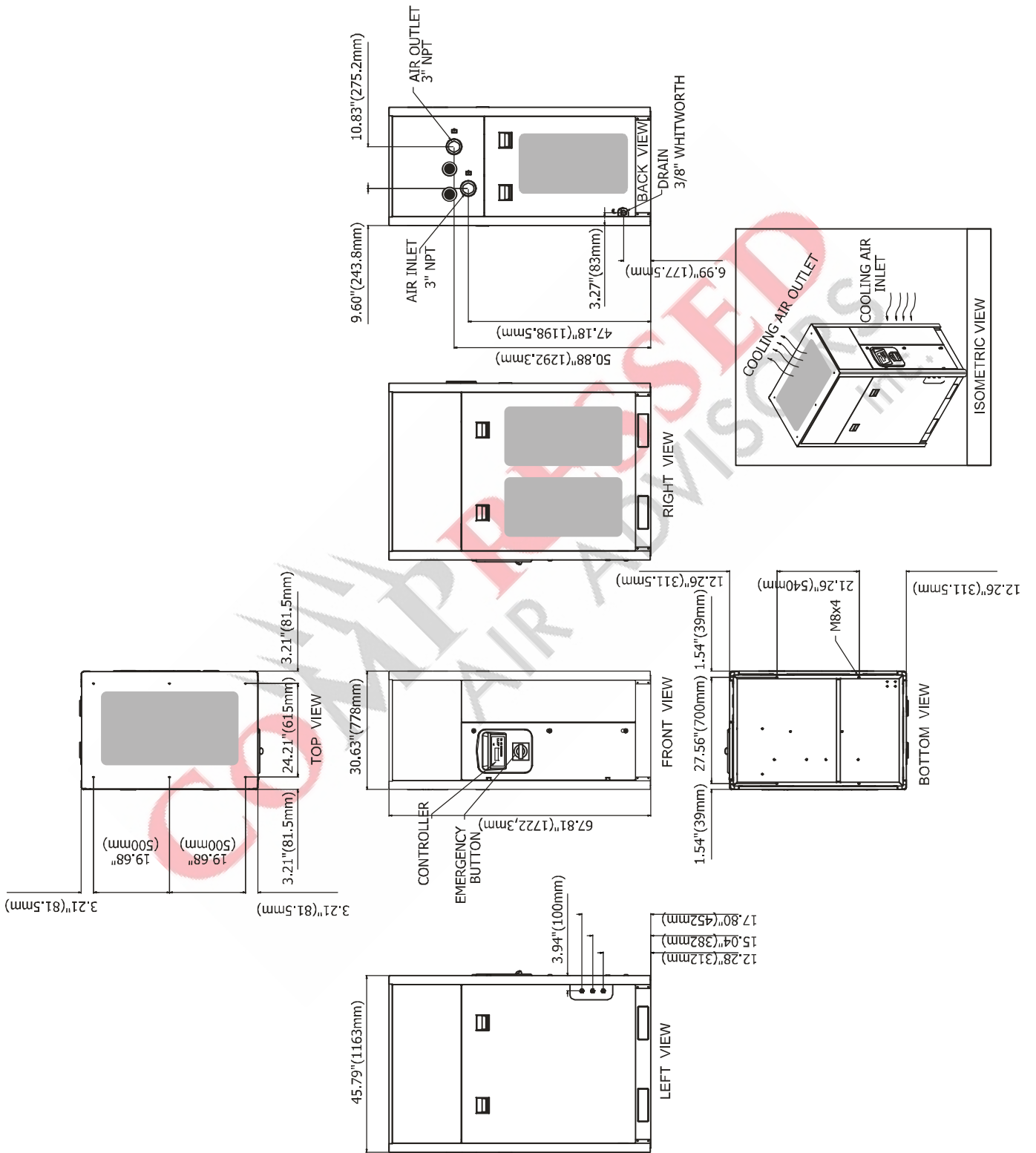
KRAD 350 - KRAD 500



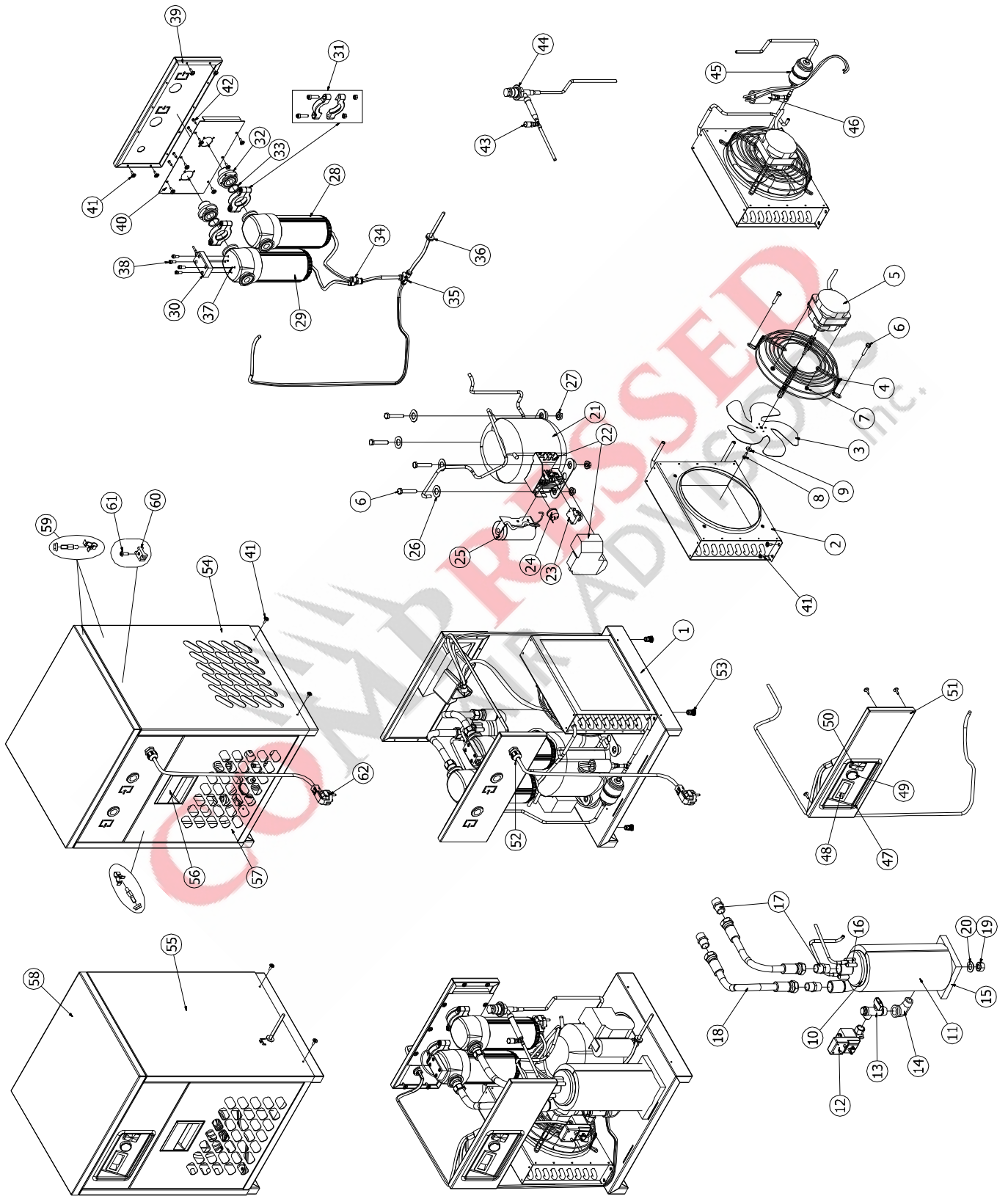
KRAD 600 - KRAD 750



KRAD 1000 - KRAD 1200



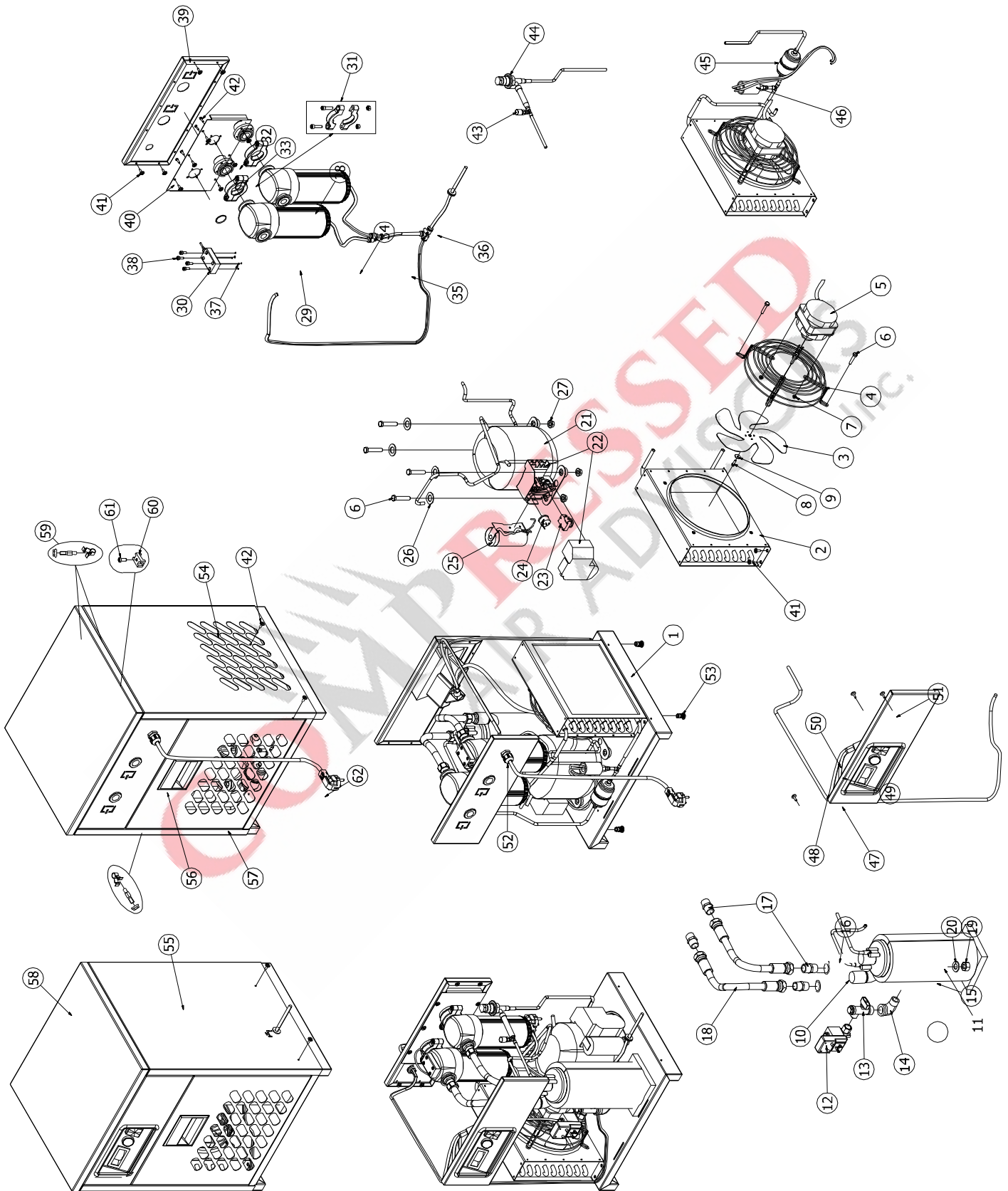
KRAD 10



| | | | |
|----------|---------------------------------------|-----|--------------------|
| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | RIVET Ø3,5 | 3 | KRAD150-US-RVT3,5 |
| 60 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 59 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 58 | CABINET TOP | 1 | KRAD25-US-CAT |
| 57 | CABINET STRIPPING | 2 | KRAD25-US-CSG |
| 56 | CABINET HANDLE | 2 | KRAD5500-US-CAH |
| 55 | CABINET RIGHT | 1 | KRAD25-US-CBR |
| 54 | CABINET LEFT | 1 | KRAD25-US-CLT |
| 53 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 52 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 51 | CABINET ELECTRICAL BOX | 1 | KRAD25-US-CEB |
| 50 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 49 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 48 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 47 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 46 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 45 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 44 | EXPANSION VALVE | 1 | KRAD25-US-EXP |
| 43 | SETTING THE CONNECTION | 1 | KRAD25-US-STC |
| 42 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 41 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 40 | CABINET INSIDE | 1 | KRAD25-US-CAI |
| 39 | CABINET REAR TOP | 1 | KRAD25-US-CRT |
| 38 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 37 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 36 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 35 | FITTING 2 | 1 | KRAD150-US-FTT2 |
| 34 | FITTING 1 | 1 | KRAD150-US-FTT1 |
| 33 | ORING | 2 | KRAD25-US-ORG |
| 32 | CONNECTION CIT | 2 | KRAD25-US-CNK |
| 31 | COUPLING CLAMP | 2 | KRAD25-US-CPG |
| 30 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 29 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD25-US-ELK-X |
| 28 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD25-US-ELK-Y |
| 27 | NUT M6 | 4 | KRAD25-US-NT6 |
| 26 | WASHER 18x7x1mm | 4 | KRAD40-US-WSR18 |
| 25 | START CAPACITOR | 1 | KRAD15-US-SCR |
| 24 | OVERLOAD PROTECTOR | 1 | KRAD15-US-OVP |
| 23 | START RELAY | 1 | KRAD15-US-STR |
| 22 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD15-US-CEP |
| 21 | COMPRESSOR | 1 | KRAD15-US-CMP |
| 20 | WASHER 26x10,5x2,5mm | 1 | KRAD25-US-WHR26 |
| 19 | NUT M8 | 1 | KRAD25-US-NT8 |
| 18 | DRAIN HOSE | 2 | KRAD25-US-DRH |
| 17 | DRAIN 1 | 4 | KRAD25-US-DRN1 |
| 16 | REDUCTIONS | 2 | KRAD25-US-RDS |
| 15 | MDF | 1 | KRAD25-US-MDF |
| 14 | ELBOW 1 | 1 | KRAD25-US-ELW1 |
| 13 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 12 | TIMER RELAY | 1 | KRAD250-US-TMR |
| 11 | INSULATION OF HEAT EXCHANGER | 1 | KRAD25-US-IHE |
| 10 | HEAT EXCHANGER | 1 | KRAD25-US-EXC |
| 09 | WASHER 20x4,5x1,5 | 1 | KRAD25-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD25-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD25-US-NT4 |
| 06 | BOLT M6x30mm | 8 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD40-US-FAN |
| 04 | FAN GRILL | 1 | KRAD40-US-FGR |
| 03 | FAN GLADE | 1 | KRAD40-US-FBL |
| 02 | CONDANSER | 1 | KRAD25-US-CON |
| 01 | CABINET BASE | 1 | KRAD25-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |

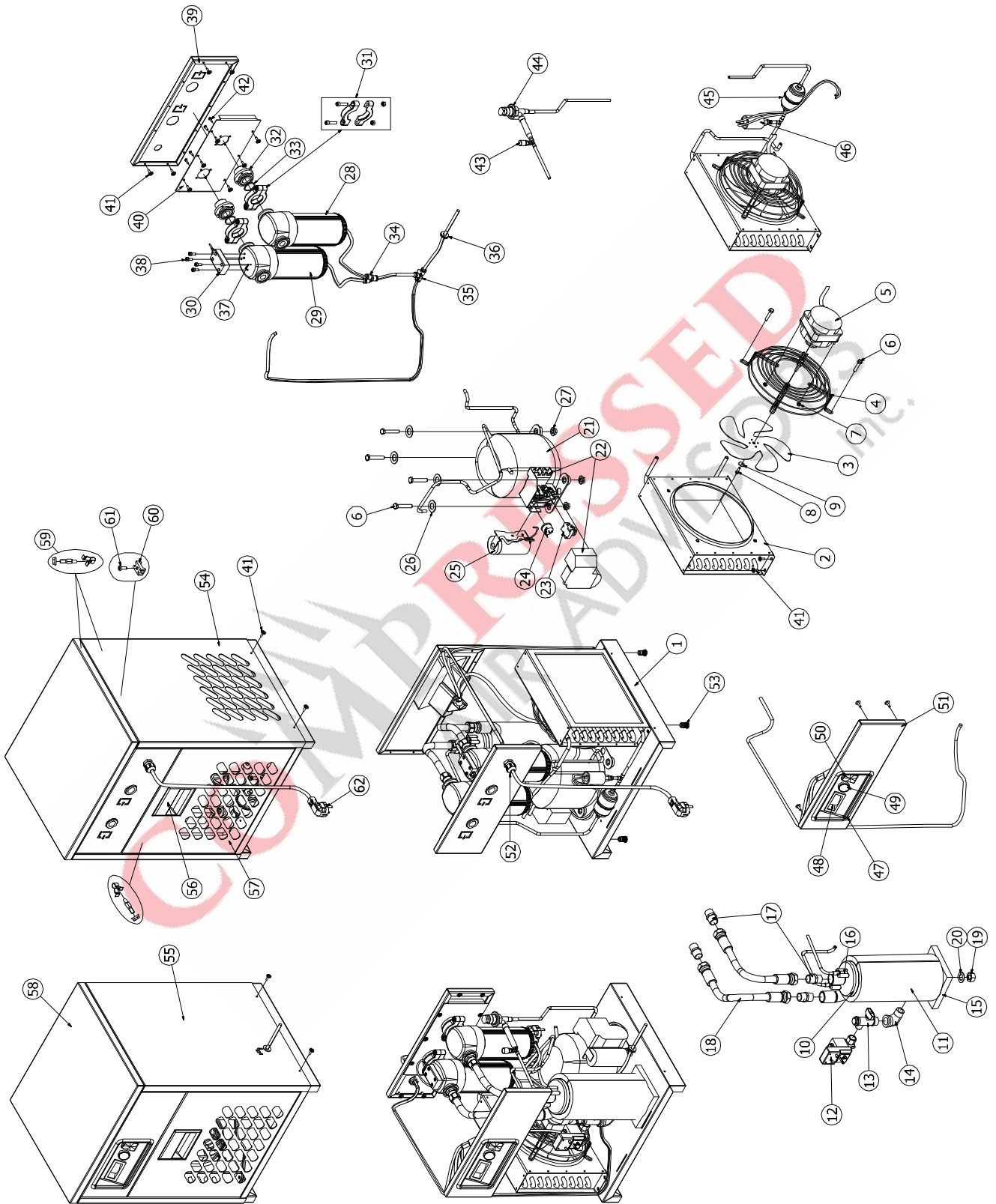
PART LIST

KRAD 15



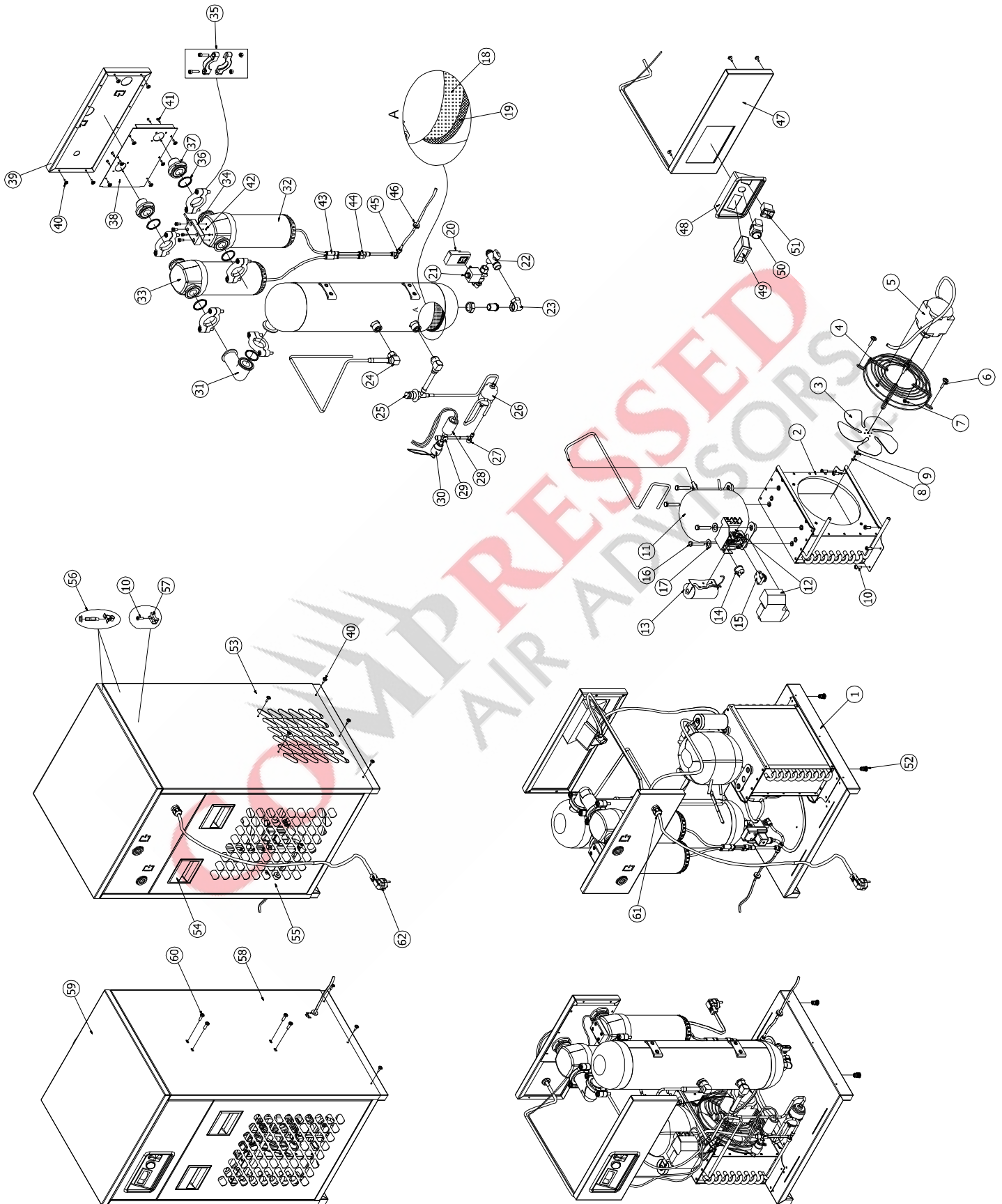
| | | | |
|-----------|---------------------------------------|-----|--------------------|
| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | RIVET Ø3,5 | 3 | KRAD150-US-RVT3,5 |
| 60 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 59 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 58 | CABINET TOP | 1 | KRAD25-US-CAT |
| 57 | CABINET STRIPPING | 2 | KRAD25-US-CSG |
| 56 | CABINET HANDLE | 2 | KRAD5500-US-CAH |
| 55 | CABINET RIGHT | 1 | KRAD25-US-CBR |
| 54 | CABINET LEFT | 1 | KRAD25-US-CLT |
| 53 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 52 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 51 | CABINET ELECTRICAL BOX | 1 | KRAD25-US-CEB |
| 50 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 49 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 48 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 47 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 46 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 45 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 44 | EXPANSION VALVE | 1 | KRAD25-US-EXP |
| 43 | SETTING THE CONNECTION | 1 | KRAD25-US-STC |
| 42 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 41 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 40 | CABINET INSIDE | 1 | KRAD25-US-CAI |
| 39 | CABINET REAR TOP | 1 | KRAD25-US-CRT |
| 38 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 37 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 36 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 35 | FITTING 2 | 1 | KRAD150-US-FTT2 |
| 34 | FITTING 1 | 1 | KRAD150-US-FTT1 |
| 33 | ORING | 2 | KRAD25-US-ORG |
| 32 | CONNECTION CIT | 2 | KRAD25-US-CNK |
| 31 | COUPLING CLAMP | 2 | KRAD25-US-CPG |
| 30 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 29 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD25-US-ELK-X |
| 28 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD25-US-ELK-Y |
| 27 | NUT M6 | 4 | KRAD25-US-NT6 |
| 26 | WASHER 18x7x1mm | 4 | KRAD40-US-WSR18 |
| 25 | START CAPACITOR | 1 | KRAD15-US-SCR |
| 24 | OVERLOAD PROTECTOR | 1 | KRAD15-US-OVP |
| 23 | START RELAY | 1 | KRAD15-US-STR |
| 22 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD15-US-CEP |
| 21 | COMPRESSOR | 1 | KRAD25-US-CMP |
| 20 | WASHER 26x10,5x2,5mm | 1 | KRAD25-US-WHR26 |
| 19 | NUT M8 | 1 | KRAD25-US-NT8 |
| 18 | DRAIN HOSE | 2 | KRAD25-US-DRH |
| 17 | DRAIN 1 | 4 | KRAD25-US-DRN1 |
| 16 | REDUCTIONS | 2 | KRAD25-US-RDS |
| 15 | MDF | 1 | KRAD25-US-MDF |
| 14 | ELBOW 1 | 1 | KRAD25-US-ELW1 |
| 13 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 12 | TIMER RELAY | 1 | KRAD250-US-TMR |
| 11 | INSULATION OF HEAT EXCHANGER | 1 | KRAD25-US-IHE |
| 10 | HEAT EXCHANGER | 1 | KRAD25-US-EXC |
| 09 | WASHER 20x4,5x1,5 | 1 | KRAD25-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD25-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD25-US-NT4 |
| 06 | BOLT M6x30mm | 8 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD40-US-FAN |
| 04 | FAN GRILL | 1 | KRAD40-US-FGR |
| 03 | FAN GLADE | 1 | KRAD40-US-FBL |
| 02 | CONDANSER | 1 | KRAD25-US-CON |
| 01 | CABINET BASE | 1 | KRAD25-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 25



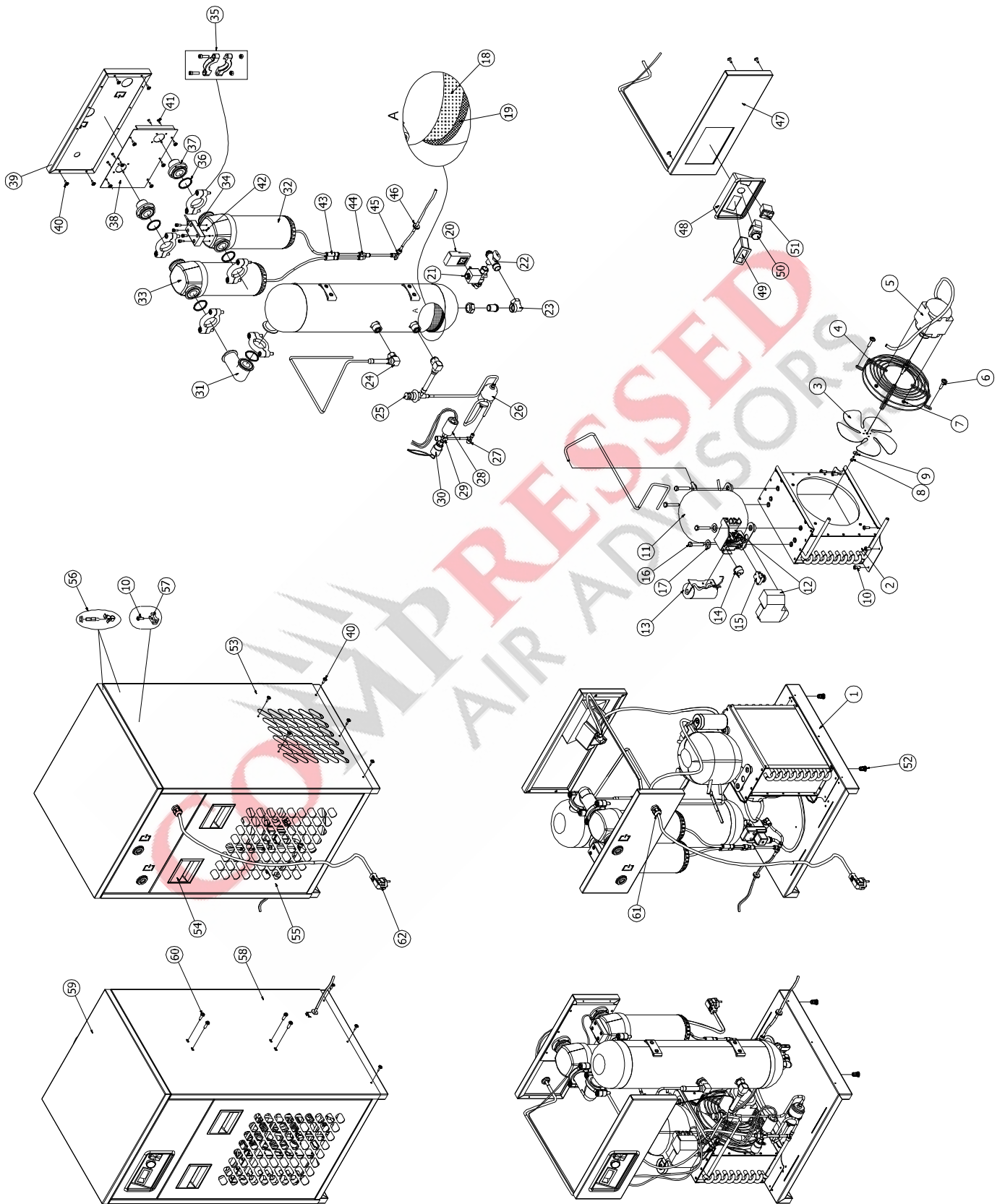
| | | | |
|-----------|---------------------------------------|-----|--------------------|
| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | RIVET Ø3,5 | 3 | KRAD150-US-RVT3,5 |
| 60 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 59 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 58 | CABINET TOP | 1 | KRAD25-US-CAT |
| 57 | CABINET STRIPPING | 2 | KRAD25-US-CSG |
| 56 | CABINET HANDLE | 2 | KRAD5500-US-CAH |
| 55 | CABINET RIGHT | 1 | KRAD25-US-CBR |
| 54 | CABINET LEFT | 1 | KRAD25-US-CLT |
| 53 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 52 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 51 | CABINET ELECTRICAL BOX | 1 | KRAD25-US-CEB |
| 50 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 49 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 48 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 47 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 46 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 45 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 44 | EXPANSION VALVE | 1 | KRAD25-US-BYP |
| 43 | SETTING THE CONNECTION | 1 | KRAD25-US-STC |
| 42 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 41 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 40 | CABINET INSIDE | 1 | KRAD25-US-CAI |
| 39 | CABINET REAR TOP | 1 | KRAD25-US-CRT |
| 38 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 37 | INDICATOR GASKET 1 | 1 | KRAD1200-US-ING1 |
| 36 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 35 | FITTING 2 | 1 | KRAD150-US-FTT2 |
| 34 | FITTING 1 | 1 | KRAD150-US-FTT1 |
| 33 | ORING | 2 | KRAD25-US-ORG |
| 32 | CONNECTION CIT | 2 | KRAD25-US-CNK |
| 31 | COUPLING CLAMP | 2 | KRAD25-US-CPG |
| 30 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 29 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD25-US-ELK-X |
| 28 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD25-US-ELK-Y |
| 27 | NUT M6 | 4 | KRAD25-US-NT6 |
| 26 | WASHER 18x7x1mm | 4 | KRAD40-US-WSR18 |
| 25 | START CAPACITOR | 1 | KRAD25-US-SCR |
| 24 | OVERLOAD PROTECTOR | 1 | KRAD25-US-OVP |
| 23 | START RELAY | 1 | KRAD25-US-STR |
| 22 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD25-US-CEP |
| 21 | COMPRESSOR | 1 | KRAD25-US-CMP |
| 20 | WASHER 26x10,5x2,5mm | 1 | KRAD25-US-WHR26 |
| 19 | NUT M8 | 1 | KRAD25-US-NT8 |
| 18 | DRAIN HOSE | 2 | KRAD25-US-DRH |
| 17 | DRAIN 1 | 4 | KRAD25-US-DRN1 |
| 16 | REDUCTIONS | 2 | KRAD25-US-RDS |
| 15 | MDF | 1 | KRAD25-US-MDF |
| 14 | ELBOW 1 | 1 | KRAD25-US-ELW1 |
| 13 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 12 | TIMER RELAY | 1 | KRAD250-US-TMR |
| 11 | INSULATION OF HEAT EXCHANGER | 1 | KRAD25-US-IHE |
| 10 | HEAT EXCHANGER | 1 | KRAD25-US-EXC |
| 09 | WASHER 20x4,5x1,5 | 1 | KRAD25-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD25-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD25-US-NT4 |
| 06 | BOLT M6x30mm | 8 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD40-US-FAN |
| 04 | FAN GRILL | 1 | KRAD40-US-FGR |
| 03 | FAN GLADE | 1 | KRAD40-US-FBL |
| 02 | CONDANSER | 1 | KRAD25-US-CON |
| 01 | CABINET BASE | 1 | KRAD25-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 40



| | | | |
|-----------|---------------------------------------|-----|-------------------|
| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 60 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 59 | CABINET TOP | 1 | KRAD80-US-CAT |
| 58 | CABINET RIGHT | 1 | KRAD80-US-CBR |
| 57 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 56 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 55 | CABINET STRIPPING | 2 | KRAD80-US-CSG |
| 54 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 53 | CABINET LEFT | 1 | KRAD80-US-CLT |
| 52 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 51 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 50 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 49 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 48 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 47 | CABINET ELECTRICAL BOX | 1 | KRAD80-US-CEB |
| 46 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 45 | FITTING 3 | 1 | KRAD80-US-FTT3 |
| 44 | FITTING 2 | 1 | KRAD80-US-FTT2 |
| 43 | FITTING 1 | 2 | KRAD80-US-FTT1 |
| 42 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 41 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 40 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 39 | CABINET REAR TOP | 1 | KRAD80-US-CRT |
| 38 | CABINET INSIDE | 1 | KRAD80-US-CAI |
| 37 | CONNECTION CIT2 | 2 | KRAD80-US-CNK2 |
| 36 | ORING | 5 | KRAD80-US-ORG |
| 35 | COUPLING CLAMP | 5 | KRAD80-US-CPG |
| 34 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 33 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD80-US-ELK-Y |
| 32 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD80-US-ELK-X |
| 31 | CONNECTION CIT1 | 1 | KRAD80-US-CNK1 |
| 30 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 29 | ADAPTOR T | 1 | KRAD80-US-TDP |
| 28 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 27 | CUPPER T1 | 1 | KRAD80-US-CPT1 |
| 26 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 25 | EXPANSION VALVE | 1 | KRAD80-US-BYP |
| 24 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 23 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 22 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 21 | SELENOID VALVE | 1 | KRAD500-US-SVA |
| 20 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 19 | INSULATION OF HEAT EXCHANGER | 1 | KRAD80-US-IHE |
| 18 | HEAT EXCHANGER | 1 | KRAD80-US-EXC |
| 17 | WASHER Ø18xØ7x1,2 | 4 | KRAD80-US-WHR18 |
| 16 | BOLT M6x30 | 4 | KRAD80-US-BLT630 |
| 15 | START RELAY | 1 | KRAD40-US-STR |
| 14 | OVERLOAD PROTECTOR | 1 | KRAD40-US-OVP |
| 13 | START CAPACITOR | 1 | KRAD40-US-SCR |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD40-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD40-US-CMP |
| 10 | RIVET Ø3,5 | 9 | KRAD40-US-RVT3.5 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD40-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD40-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD40-US-NT4 |
| 06 | BOLT M6x20 | 4 | KRAD40-USBLT620 |
| 05 | FAN | 1 | KRAD40-US-FAN |
| 04 | FAN GRILL | 1 | KRAD40-US-FGR |
| 03 | FAN BLADE | 1 | KRAD40-US-FBL |
| 02 | CONDANSER | 1 | KRAD40-US-CON |
| 01 | CABINET BASE | 1 | KRAD80-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

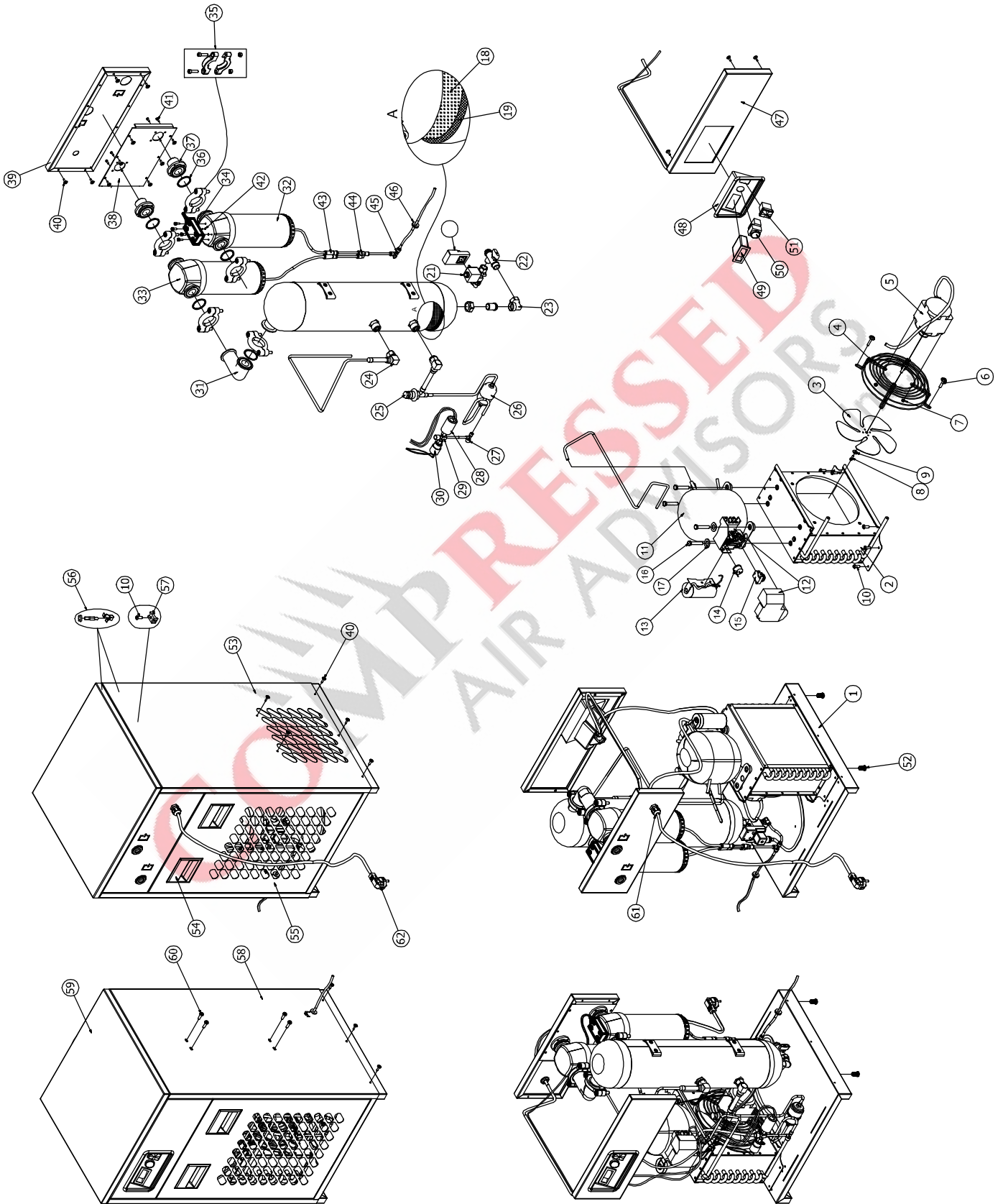
KRAD 60



| | | | |
|----------|---------------------------------------|-----|-------------------|
| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 60 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 59 | CABINET TOP | 1 | KRAD80-US-CAT |
| 58 | CABINET RIGHT | 1 | KRAD80-US-CBR |
| 57 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 56 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 55 | CABINET STRIPPING | 2 | KRAD80-US-CSG |
| 54 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 53 | CABINET LEFT | 1 | KRAD80-US-CLT |
| 52 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 51 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 50 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 49 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 48 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 47 | CABINET ELECTRICAL BOX | 1 | KRAD80-US-CEB |
| 46 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 45 | FITTING 3 | 1 | KRAD80-US-FTT3 |
| 44 | FITTING 2 | 1 | KRAD80-US-FTT2 |
| 43 | FITTING 1 | 2 | KRAD80-US-FTT1 |
| 42 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 41 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 40 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 39 | CABINET REAR TOP | 1 | KRAD80-US-CRT |
| 38 | CABINET INSIDE | 1 | KRAD80-US-CAI |
| 37 | CONNECTION CIT2 | 2 | KRAD80-US-CNK2 |
| 36 | ORING | 5 | KRAD80-US-ORG |
| 35 | COUPLING CLAMP | 5 | KRAD80-US-CPG |
| 34 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 33 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD80-US-ELK-Y |
| 32 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD80-US-ELK-X |
| 31 | CONNECTION CIT1 | 1 | KRAD80-US-CNK1 |
| 30 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 29 | ADAPTOR T | 1 | KRAD80-US-TDP |
| 28 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 27 | CUPPER T1 | 1 | KRAD80-US-CPT1 |
| 26 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 25 | EXPANSION VALVE | 1 | KRAD80-US-BYP |
| 24 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 23 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 22 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 21 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 20 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 19 | INSULATION OF HEAT EXCHANGER | 1 | KRAD80-US-IHE |
| 18 | HEAT EXCHANGER | 1 | KRAD80-US-EXC |
| 17 | WASHER Ø22xØ8,5x2,5 | 4 | KRAD150-US-WHR18 |
| 16 | BOLT M8x40 | 4 | KRAD150-US-BLT630 |
| 15 | START RELAY | 1 | KRAD60-US-STR |
| 14 | OVERLOAD PROTECTOR | 1 | KRAD60-US-OVP |
| 13 | START CAPACITOR | 1 | KRAD60-US-SCR |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD60-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD60-US-CMP |
| 10 | RIVET Ø3,5 | 9 | KRAD60-US-RVT3,5 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD60-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD60-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD60-US-NT4 |
| 06 | BOLT M6x20 | 4 | KRAD60-US-BLT620 |
| 05 | FAN | 1 | KRAD60-US-FAN |
| 04 | FAN GRILL | 1 | KRAD60-US-FGR |
| 03 | FAN BLADE | 1 | KRAD60-US-FBL |
| 02 | CONDANSER | 1 | KRAD60-US-CON |
| 01 | CABINET BASE | 1 | KRAD80-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |

PART LIST

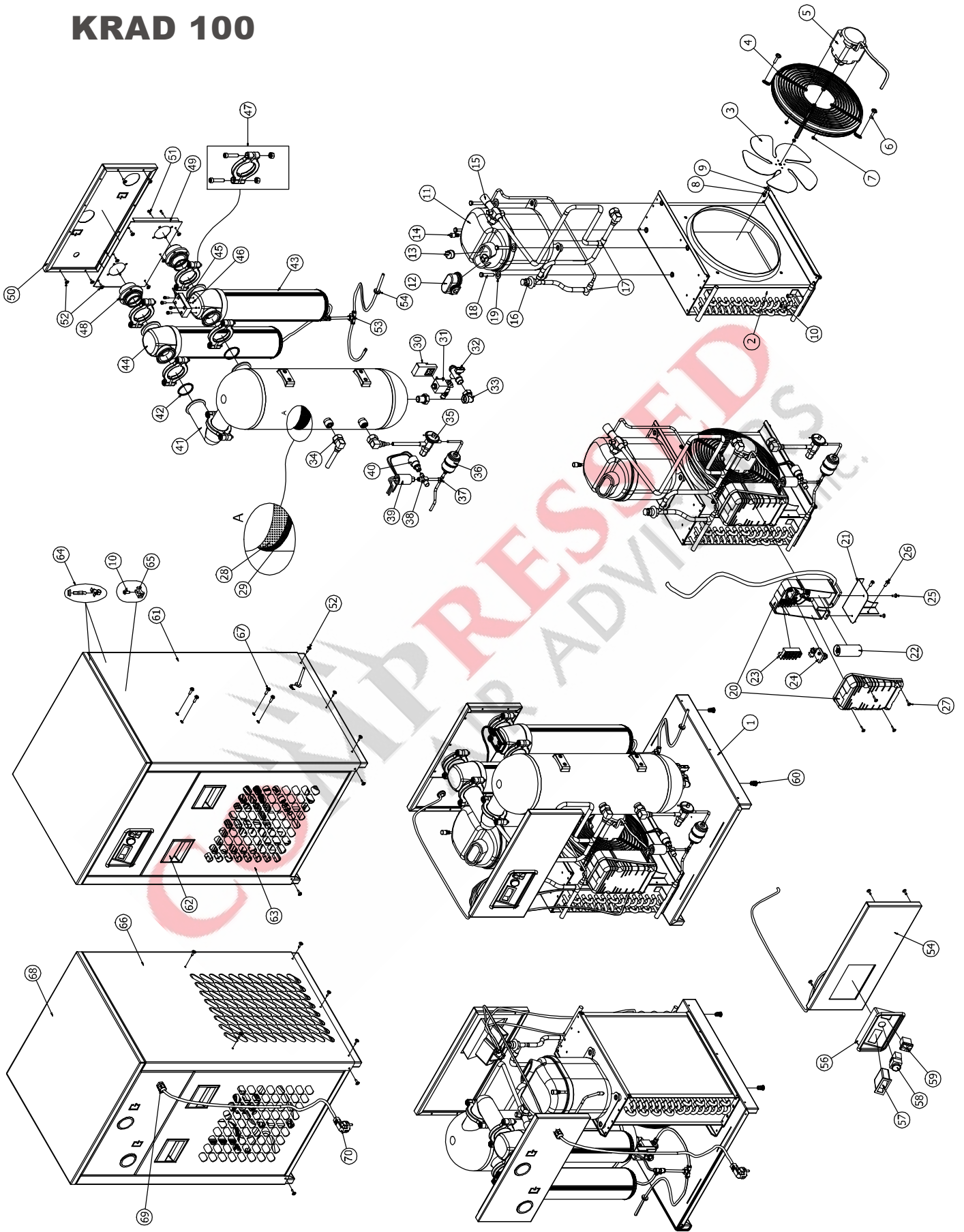
KRAD 80



| | | | |
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| 62 | POWER CABLE | 1 | KRAD500-US-PWC |
| 61 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 60 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 59 | CABINET TOP | 1 | KRAD80-US-CAT |
| 58 | CABINET RIGHT | 1 | KRAD80-US-CBR |
| 57 | CABLE STRAP | 3 | KRAD150-US-CSP |
| 56 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 55 | CABINET STRIPPING | 2 | KRAD80-US-CSG |
| 54 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 53 | CABINET LEFT | 1 | KRAD80-US-CLT |
| 52 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 51 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 50 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 49 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 48 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 47 | CABINET ELECTRICAL BOX | 1 | KRAD80-US-CEB |
| 46 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 45 | FITTING 3 | 1 | KRAD80-US-FTT3 |
| 44 | FITTING 2 | 1 | KRAD80-US-FTT2 |
| 43 | FITTING 1 | 2 | KRAD80-US-FTT1 |
| 42 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 41 | BOLT M4x8 | 8 | KRAD80-US-BLT48 |
| 40 | BOLT M4x12 | 22 | KRAD150-US-BLT412 |
| 39 | CABINET REAR TOP | 1 | KRAD80-US-CRT |
| 38 | CABINET INSIDE | 1 | KRAD80-US-CAI |
| 37 | CONNECTION CIT2 | 2 | KRAD80-US-CNK2 |
| 36 | ORING | 5 | KRAD80-US-ORG |
| 35 | COUPLING CLAMP | 5 | KRAD80-US-CPG |
| 34 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 33 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD80-US-ELK-Y |
| 32 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD80-US-ELK-X |
| 31 | CONNECTION CIT1 | 1 | KRAD80-US-CNK1 |
| 30 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 29 | ADAPTOR T | 1 | KRAD80-US-TDP |
| 28 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 27 | CUPPER T1 | 1 | KRAD80-US-CPT1 |
| 26 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 25 | EXPANSION VALVE | 1 | KRAD80-US-BYP |
| 24 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 23 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 22 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 21 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 20 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 19 | INSULATION OF HEAT EXCHANGER | 1 | KRAD80-US-IHE |
| 18 | HEAT EXCHANGER | 1 | KRAD80-US-EXC |
| 17 | WASHER Ø22xØ8,5x2,5 | 4 | KRAD150-US-WHR18 |
| 16 | BOLT M8x40 | 4 | KRAD150-US-BLT630 |
| 15 | START RELAY | 1 | KRAD80-US-STR |
| 14 | OVERLOAD PROTECTOR | 1 | KRAD80-US-OVP |
| 13 | START CAPACITOR | 1 | KRAD80-US-SCR |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD80-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD80-US-CMP |
| 10 | RIVET Ø3,5 | 9 | KRAD80-US-RVT3,5 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD80-US-WHR20 |
| 08 | BOLT M4x14mm | 1 | KRAD80-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD80-US-NT4 |
| 06 | BOLT M6x20 | 4 | KRAD80-US-BLT620 |
| 05 | FAN | 1 | KRAD80-US-FAN |
| 04 | FAN GRILL | 1 | KRAD80-US-FGR |
| 03 | FAN BLADE | 1 | KRAD80-US-FBL |
| 02 | CONDANSER | 1 | KRAD80-US-CON |
| 01 | CABINET BASE | 1 | KRAD80-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |

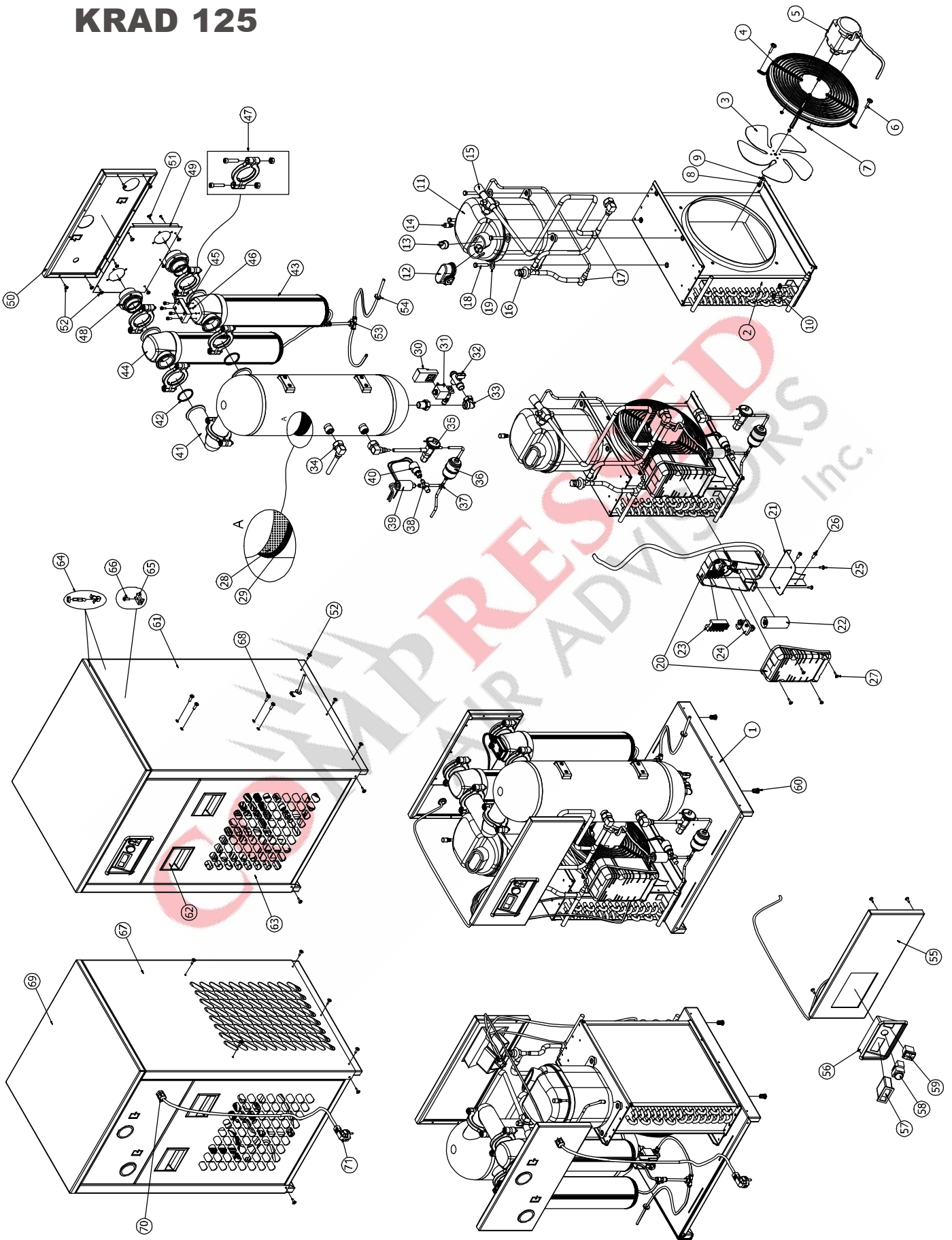
PART LIST

KRAD 100



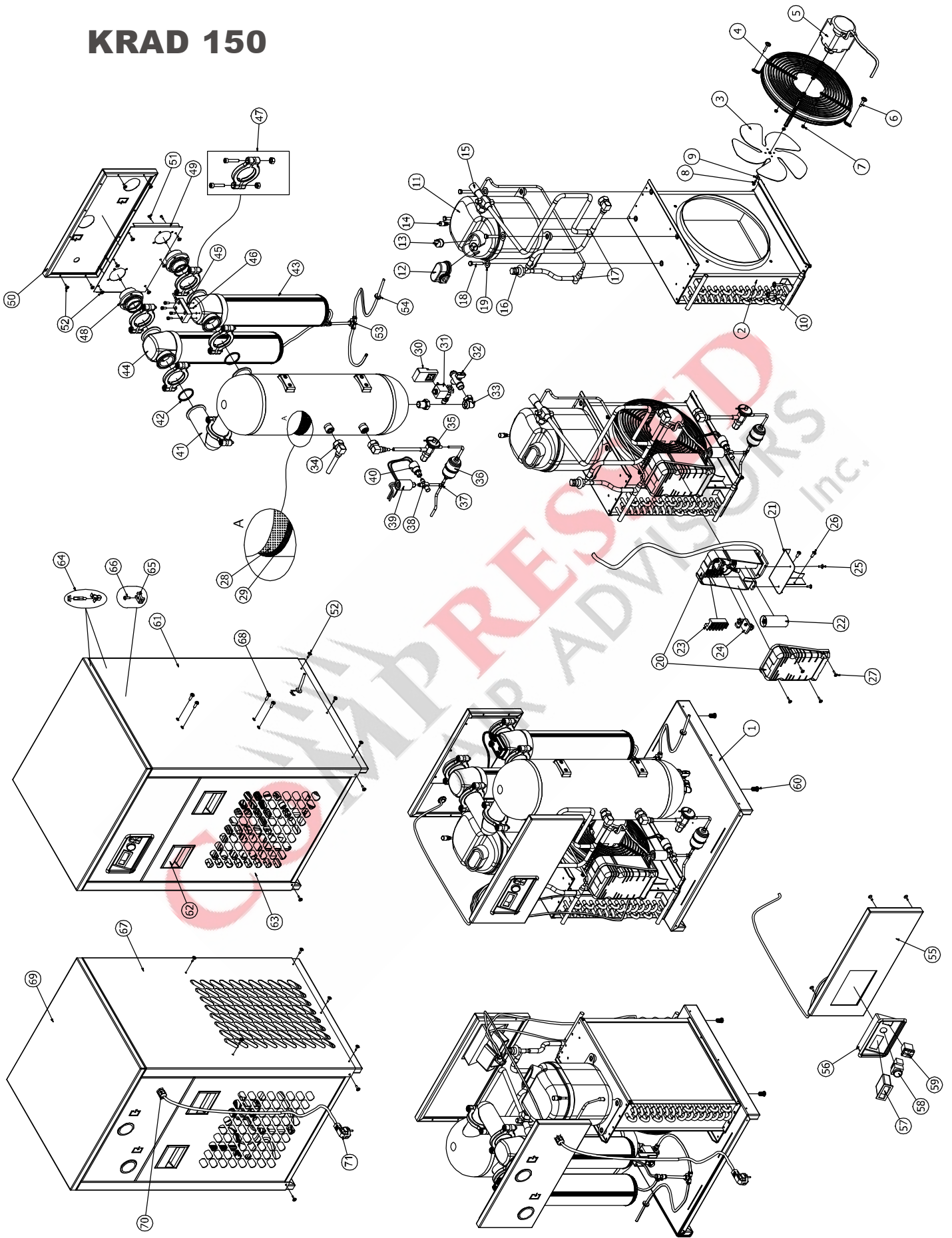
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|-----------|---------------------------------------|-----|--------------------|
| 70 | POWER CABLE | 1 | KRAD500-US-PWC |
| 69 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 68 | CABINET TOP | 1 | KRAD150-US-CAT |
| 67 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 66 | CABINET LEFT | 1 | KRAD150-US-CLT |
| 65 | CABLE STRAP | 6 | KRAD150-US-CSP |
| 64 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 63 | CABINET STRIPPING | 2 | KRAD150-US-CSG |
| 62 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 61 | CABINET RIGHT | 1 | KRAD150-US-CBR |
| 60 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 59 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 58 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 57 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 56 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 55 | CABINET ELECTRICAL BOX | 1 | KRAD150-US-CEB |
| 54 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 53 | FITTING | 2 | KRAD150-US-FTT |
| 52 | BOLT M4x10 | 24 | KRAD150-US-BLT4 |
| 51 | BOLT M6x10 | 8 | KRAD150-US-BLT610 |
| 50 | CABINET REAR TOP | 1 | KRAD150-US-CRT |
| 49 | CABINET INSIDE | 1 | KRAD150-US-CAI |
| 48 | CONNECTION CIT2 | 2 | KRAD150-US-CNK2 |
| 47 | COUPLING CLAMP | 5 | KRAD150-US-CPG |
| 46 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 45 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 44 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD150-US-ELK-Y |
| 43 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD150-US-ELK-X |
| 42 | ORING | 5 | KRAD150-US-ORG |
| 41 | CONNECTION CIT1 | 1 | KRAD150-US-CNK1 |
| 40 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 39 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 38 | ADAPTOR T | 1 | KRAD150-US-TDP |
| 37 | CUPPER T2 | 1 | KRAD150-US-CPT2 |
| 36 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 35 | EXPANSION VALVE | 1 | KRAD200-US-EXP |
| 34 | ROTOLOCK ADAPTOR2 | 2 | KRAD5500-US-RTA2 |
| 33 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 32 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 31 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 30 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 29 | INSULATION OF HEAT EXCHANGER | 1 | KRAD150-US-IHE |
| 28 | HEAT EXCHANGER | 1 | KRAD150-US-EXC |
| 27 | BOLT M4x15 | 4 | KRAD150-US-BLT415 |
| 26 | RIVET Ø4,5 | 2 | KRAD150-US-BLT410 |
| 25 | BOLT M4x10 | 2 | KRAD150-US-BLT410 |
| 24 | START RELAY | 1 | KRAD150-US-STR |
| 23 | THERMINAL BLOCK | 1 | KRAD150-US-TRM |
| 22 | START CAPACITOR | 1 | KRAD150-US-SCR |
| 21 | ELECTRICAL BOX LOWER SUPPORT PLATE | 1 | KRAD150-US-ELBS |
| 20 | ELECTRICAL BOX | 1 | KRAD150-US-ELB |
| 19 | WASHER Ø22xØ8,5x2,5 | 4 | KRAD150-US-WHR22 |
| 18 | BOLT M8x40 | 4 | KRAD150-US-BLT840 |
| 17 | CUPPER T1 | 2 | KRAD150-US-CPT1 |
| 16 | BY-PASS VALVE | 1 | KRAD100-US-BYP |
| 15 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 14 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 13 | OVERLOAD PROTECTOR | 1 | KRAD100-US-OVP |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD100-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD100-US-CMP |
| 10 | RIVET Ø3,5 | 10 | KRAD150-US-RVT3,5 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD100-US-WHR |
| 08 | BOLT M4x14mm | 1 | KRAD100-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD100-US-NT4 |
| 06 | BOLT M6x30 | 4 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD100-US-FAN |
| 04 | FAN GRILL | 1 | KRAD100-US-FGR |
| 03 | FAN BLADE | 1 | KRAD100-US-FBL |
| 02 | CONDANSER | 1 | KRAD100-US-CON |
| 01 | CABINET BASE | 1 | KRAD150-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 125



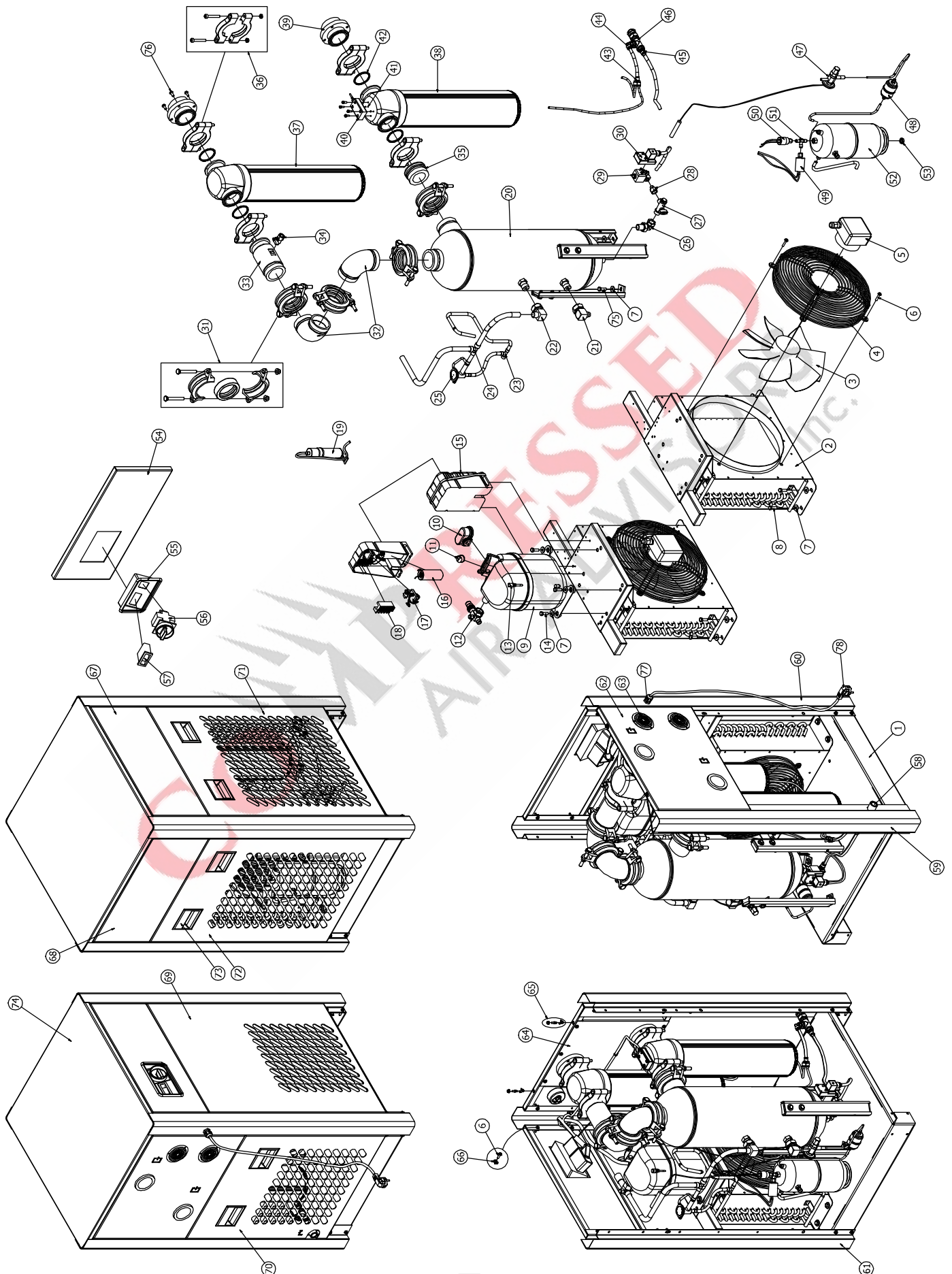
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|-----------|---------------------------------------|-----|--------------------|
| 71 | POWER CABLE | 1 | KRAD500-US-PWC |
| 70 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 69 | CABINET TOP | 1 | KRAD150-US-CAT |
| 68 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 67 | CABINET LEFT | 1 | KRAD150-US-CLT |
| 66 | RIVET Ø3,5 | 6 | KRAD150-US-RVT3.5 |
| 65 | CABLE STRAP | 6 | KRAD150-US-CSP |
| 64 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 63 | CABINET STRIPPING | 2 | KRAD150-US-CSG |
| 62 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 61 | CABINET RIGHT | 1 | KRAD150-US-CBR |
| 60 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 59 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 58 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 57 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 56 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 55 | CABINET ELECTRICAL BOX | 1 | KRAD150-US-CEB |
| 54 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 53 | FITTING | 2 | KRAD150-US-FTT |
| 52 | BOLT M4x10 | 24 | KRAD150-US-BLT410 |
| 51 | BOLT M6x10 | 8 | KRAD150-US-BLT610 |
| 50 | CABINET REAR TOP | 1 | KRAD150-US-CRT |
| 49 | CABINET INSIDE | 1 | KRAD150-US-CAI |
| 48 | CONNECTION CIT2 | 2 | KRAD150-US-CNK2 |
| 47 | COUPLING CLAMP | 5 | KRAD150-US-CPG |
| 46 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 45 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 44 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD150-US-ELK-Y |
| 43 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD150-US-ELK-X |
| 42 | ORING | 5 | KRAD150-US-ORG |
| 41 | CONNECTION CIT1 | 1 | KRAD150-US-CNK1 |
| 40 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 39 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 38 | ADAPTOR T | 1 | KRAD150-US-TDP |
| 37 | CUPPER T2 | 1 | KRAD150-US-CPT2 |
| 36 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 35 | EXPANSION VALVE | 1 | KRAD200-US-EXP |
| 34 | ROTOLOCK ADAPTOR2 | 2 | KRAD5500-US-RTA2 |
| 33 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 32 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 31 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 30 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 29 | INSULATION OF HEAT EXCHANGER | 1 | KRAD150-US-IHE |
| 28 | HEAT EXCHANGER | 1 | KRAD150-US-EXC |
| 27 | BOLT M4x15 | 4 | KRAD150-US-BLT415 |
| 26 | RIVET Ø4,5 | 2 | KRAD150-US-RVT4 |
| 25 | BOLT M4x10 | 2 | KRAD150-US-BLT410 |
| 24 | START RELAY | 1 | KRAD150-US-STR |
| 23 | THERMINAL BLOCK | 1 | KRAD150-US-TRM |
| 22 | START CAPACITOR | 1 | KRAD150-US-SCR |
| 21 | ELECTRICAL BOX LOWER SUPPORT PLATE | 1 | KRAD150-US-ELBS |
| 20 | ELECTRICAL BOX | 1 | KRAD150-US-ELB |
| 19 | WASHER Ø22xØ8,5x2,5 | 4 | KRAD150-US-WHR22 |
| 18 | BOLT M8x40 | 4 | KRAD150-US-BLT840 |
| 17 | CUPPER T1 | 2 | KRAD150-US-CPT1 |
| 16 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 15 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 14 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 13 | OVERLOAD PROTECTOR | 1 | KRAD125-US-OVP |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD125-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD125-US-CMP |
| 10 | BOLT M4x10 | 4 | KRAD150-US-BLT410 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD150-US-WHR |
| 08 | BOLT M4x14mm | 1 | KRAD150-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD150-US-NT4 |
| 06 | BOLT M6x30 | 4 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD150-US-FAN |
| 04 | FAN GRILL | 1 | KRAD150-US-FGR |
| 03 | FAN BLADE | 1 | KRAD150-US-FBL |
| 02 | CONDANSER | 1 | KRAD150-US-CON |
| 01 | CABINET BASE | 1 | KRAD150-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PARTCODE |
| PART LIST | | | |

KRAD 150



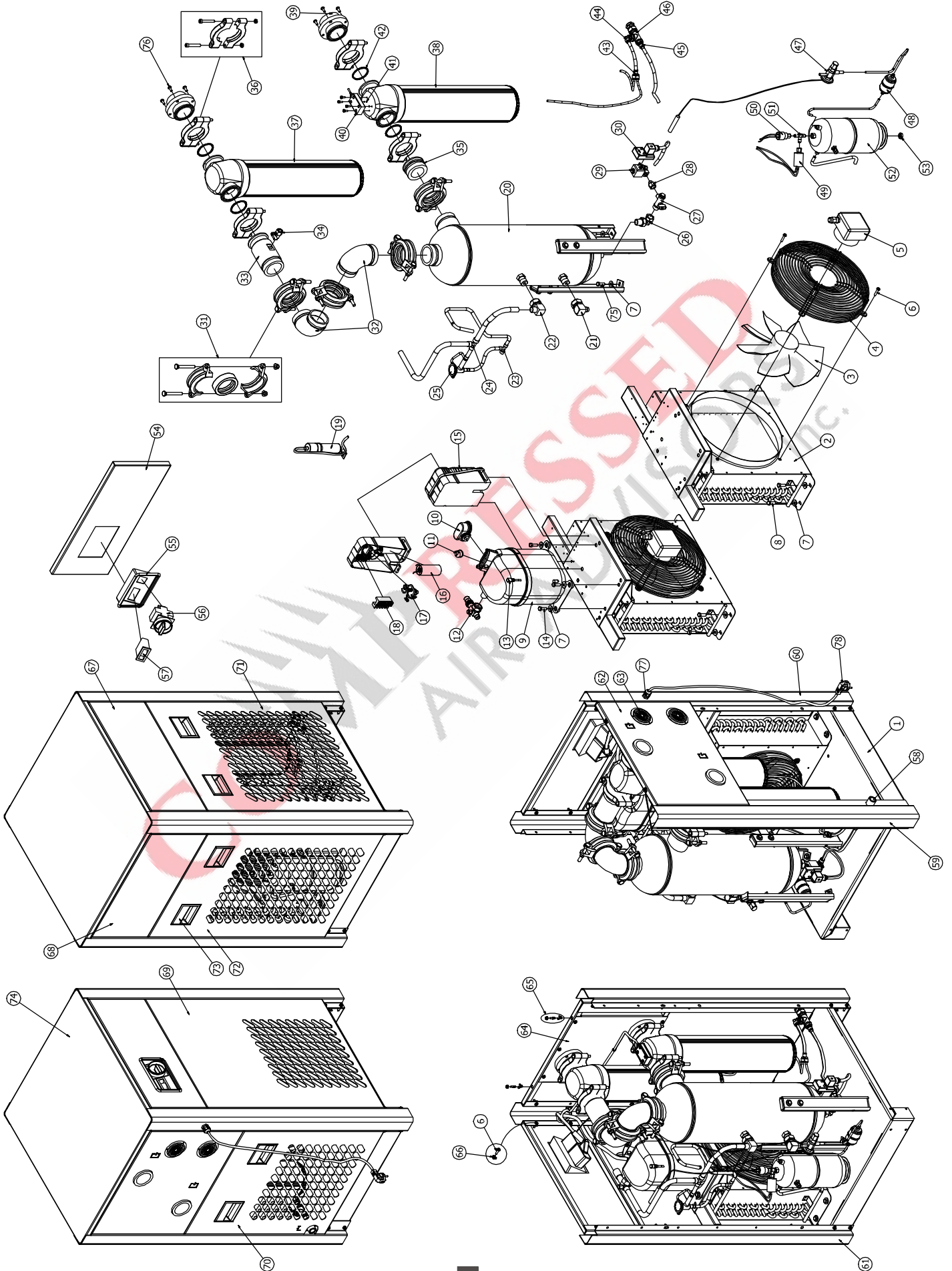
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|-----------|---------------------------------------|-----|--------------------|
| 71 | POWER CABLE | 1 | KRAD500-US-PWC |
| 70 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 69 | CABINET TOP | 1 | KRAD150-US-CAT |
| 68 | BOLT M6x15 | 4 | KRAD150-US-BLT615 |
| 67 | CABINET LEFT | 1 | KRAD150-US-CLT |
| 66 | RIVET Ø3,5 | 6 | KRAD150-US-RVT3.5 |
| 65 | CABLE STRAP | 6 | KRAD150-US-CSP |
| 64 | CABINET FASTENER | 8 | KRAD5500-US-CFS |
| 63 | CABINET STRIPPING | 2 | KRAD150-US-CSG |
| 62 | CABINET HANDLE | 4 | KRAD5500-US-CAH |
| 61 | CABINET RIGHT | 1 | KRAD150-US-CBR |
| 60 | RIVET NUT M8 | 4 | KRAD5500-US-RNT8 |
| 59 | ON/OFF SWITCH | 1 | KRAD500-US-ONB |
| 58 | POWER LIGHT | 1 | KRAD500-US-PLT |
| 57 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 56 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 55 | CABINET ELECTRICAL BOX | 1 | KRAD150-US-CEB |
| 54 | GASKET FOR DRAIN | 1 | KRAD150-US-GFD |
| 53 | FITTING | 2 | KRAD150-US-FTT |
| 52 | BOLT M4x10 | 24 | KRAD150-US-BLT410 |
| 51 | BOLT M6x10 | 8 | KRAD150-US-BLT610 |
| 50 | CABINET REAR TOP | 1 | KRAD150-US-CRT |
| 49 | CABINET INSIDE | 1 | KRAD150-US-CAI |
| 48 | CONNECTION CIT2 | 2 | KRAD150-US-CNK2 |
| 47 | COUPLING CLAMP | 5 | KRAD150-US-CPG |
| 46 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 45 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 44 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD150-US-ELK-Y |
| 43 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD150-US-ELK-X |
| 42 | ORING | 5 | KRAD150-US-ORG |
| 41 | CONNECTION CIT1 | 1 | KRAD150-US-CNK1 |
| 40 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 39 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 38 | ADAPTOR T | 1 | KRAD150-US-TDP |
| 37 | CUPPER T2 | 1 | KRAD150-US-CPT2 |
| 36 | DEHYDRATOR / FILTER DRIER | 1 | KRAD150-US-DRI |
| 35 | EXPANSION VALVE | 1 | KRAD200-US-EXP |
| 34 | ROTOLOCK ADAPTOR2 | 2 | KRAD5500-US-RTA2 |
| 33 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 32 | DRAIN VALVE 1 | 1 | KRAD500-US-DRA1 |
| 31 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 30 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 29 | INSULATION OF HEAT EXCHANGER | 1 | KRAD150-US-IHE |
| 28 | HEAT EXCHANGER | 1 | KRAD150-US-EXC |
| 27 | BOLT M4x15 | 4 | KRAD150-US-BLT415 |
| 26 | RIVET Ø4,5 | 2 | KRAD150-US-RVT4 |
| 25 | BOLT M4x10 | 2 | KRAD150-US-BLT410 |
| 24 | START RELAY | 1 | KRAD150-US-STR |
| 23 | THERMINAL BLOCK | 1 | KRAD150-US-TRM |
| 22 | START CAPACITOR | 1 | KRAD150-US-SCR |
| 21 | ELECTRICAL BOX LOWER SUPPORT PLATE | 1 | KRAD150-US-ELBS |
| 20 | ELECTRICAL BOX | 1 | KRAD150-US-ELB |
| 19 | WASHER Ø22xØ8,5x2,5 | 4 | KRAD150-US-WHR22 |
| 18 | BOLT M8x40 | 4 | KRAD150-US-BLT840 |
| 17 | CUPPER T1 | 2 | KRAD150-US-CPT1 |
| 16 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 15 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 14 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 13 | OVERLOAD PROTECTOR | 1 | KRAD200-US-OVP |
| 12 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD200-US-CEB |
| 11 | COMPRESSOR | 1 | KRAD200-US-CMP |
| 10 | BOLT M4x10 | 4 | KRAD150-US-BLT410 |
| 09 | WASHER Ø20xØ4,3x1,5 | 1 | KRAD150-US-WHR |
| 08 | BOLT M4x14mm | 1 | KRAD150-US-BLT414 |
| 07 | NUT M4 | 4 | KRAD150-US-NT4 |
| 06 | BOLT M6x30 | 4 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD150-US-FAN |
| 04 | FAN GRILL | 1 | KRAD150-US-FGR |
| 03 | FAN BLADE | 1 | KRAD150-US-FBL |
| 02 | CONDANSER | 1 | KRAD150-US-CON |
| 01 | CABINET BASE | 1 | KRAD150-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 200



| | | | |
|-----------|---------------------------------------|-----|--------------------|
| 78 | POWER CABLE | 1 | KRAD500-US-PWC |
| 77 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 76 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 75 | BOLT M8x30 | 3 | KRAD5500-US-BLT830 |
| 74 | CABINET TOP | 1 | KRAD250-US-CAT |
| 73 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 72 | CABINET LOWER RIGHT | 1 | KRAD250-US-CLR |
| 71 | CABINET REAR BOTTOM | 1 | KRAD250-US-CRB |
| 70 | CABINET BOTTOM LEFT | 1 | KRAD250-US-CBL |
| 69 | CABINET FRONT BOTTOM | 1 | KRAD250-US-CFB |
| 68 | CABINET UPPER RIGHT | 1 | KRAD250-US-CUR |
| 67 | CABINET REAR TOP | 1 | KRAD250-US-CRT |
| 66 | CAGE NUTS M6 | 16 | KRAD5500-US-CGN6 |
| 65 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 64 | CABINET INSIDE | 1 | KRAD250-US-CAI |
| 63 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 62 | CABINET UPPER LEFT | 1 | KRAD250-US-CUL |
| 61 | CABINET LEG3 | 2 | KRAD250-US-CAL3 |
| 60 | CABINET LEG2 | 1 | KRAD250-US-CAL2 |
| 59 | CABINET LEG1 | 1 | KRAD250-US-CAL1 |
| 58 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 57 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 56 | MAIN SWITCH | 1 | KRAD500-US-MSW |
| 55 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 54 | CABINET ELECTRICAL BOX | 1 | KRAD250-US-CEB |
| 53 | NUT M10 | 1 | KRAD750-US-NT10 |
| 52 | LIQUID RECEIVER | 1 | KRAD250-US-LIQ |
| 51 | ADAPTOR T | 1 | KRAD5500-US-TDP |
| 50 | HIGH PRESSURE SWITCH | 1 | KRAD250-US-HPS |
| 49 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 48 | DEHYDRATOR / FILTER DRIER | 1 | KRAD200-US-DRI |
| 47 | EXPANSION VALVE | 1 | KRAD200-US-EXP |
| 46 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 45 | FITTING 2 | 1 | KRAD5500-US-FTT2 |
| 44 | ELBOW FITTING | 1 | KRAD5500-US-ELW |
| 43 | FITTING 1 | 1 | KRAD1200-US-FTT1 |
| 42 | ORING | 4 | KRAD1200-US-ORG |
| 41 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 40 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 39 | CONNECTION CIT3 | 2 | KRAD250-US-CNK3 |
| 38 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD250-US-ELK-X |
| 37 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD250-US-ELK-Y |
| 36 | COUPLING CLAMP2 | 4 | KRAD1200-US-CPG2 |
| 35 | CONNECTION CIT2 | 1 | KRAD250-US-CNK2 |
| 34 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 33 | CONNECTION CIT1 | 1 | KRAD250-US-CNK1 |
| 32 | ELBOW 2 | 2 | KRAD1200-US-ELW2 |
| 31 | COUPLING CLAMP1 | 4 | KRAD5500-US-CPG1 |
| 30 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 29 | SELONOID VALVE | 1 | KRAD500-US-SVA |
| 28 | DRAIN NUT | 1 | KRAD5500-US-DRN |
| 27 | DRAIN VALVE 1 | 1 | KRAD5500-US-DRA1 |
| 26 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 25 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 24 | CUPPER T2 | 1 | KRAD5500-US-CPT2 |
| 23 | CUPPER T1 | 1 | KRAD5500-US-CPT1 |
| 22 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 21 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 20 | HEAT EXCHANGER | 1 | KRAD250-US-EXC |
| 19 | THERMOSTAT | 1 | KRAD500-US-TMT |
| 18 | THERMINAL BLOCK | 1 | KRAD250-US-TRM |
| 17 | START RELAY | 1 | KRAD250-US-STR |
| 16 | START CAPACITOR | 1 | KRAD250-US-SCR |
| 15 | ELECTRICAL BOX | 1 | KRAD250-US-ELB |
| 14 | BOLT M8x40 | 4 | KRAD750-US-BLT840 |
| 13 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 12 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 11 | OVERLOAD PROTECTOR | 1 | KRAD200-US-OVP |
| 10 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD200-US-CEP |
| 09 | COMPRESSOR | 1 | KRAD200-US-CMP |
| 08 | BOLT M8x25 | 4 | KRAD750-US-BLT825 |
| 07 | WASHER Ø22x8,2x2,4 | 11 | KRAD5500-US-WHR |
| 06 | BOLT M6x30 | 20 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD250-US-FAN |
| 04 | FAN GRILL | 1 | KRAD250-US-FGR |
| 03 | FAN BLADE | 1 | KRAD250-US-FBL |
| 02 | CONDANSER | 1 | KRAD250-US-CON |
| 01 | CABINET BASE | 1 | KRAD250-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

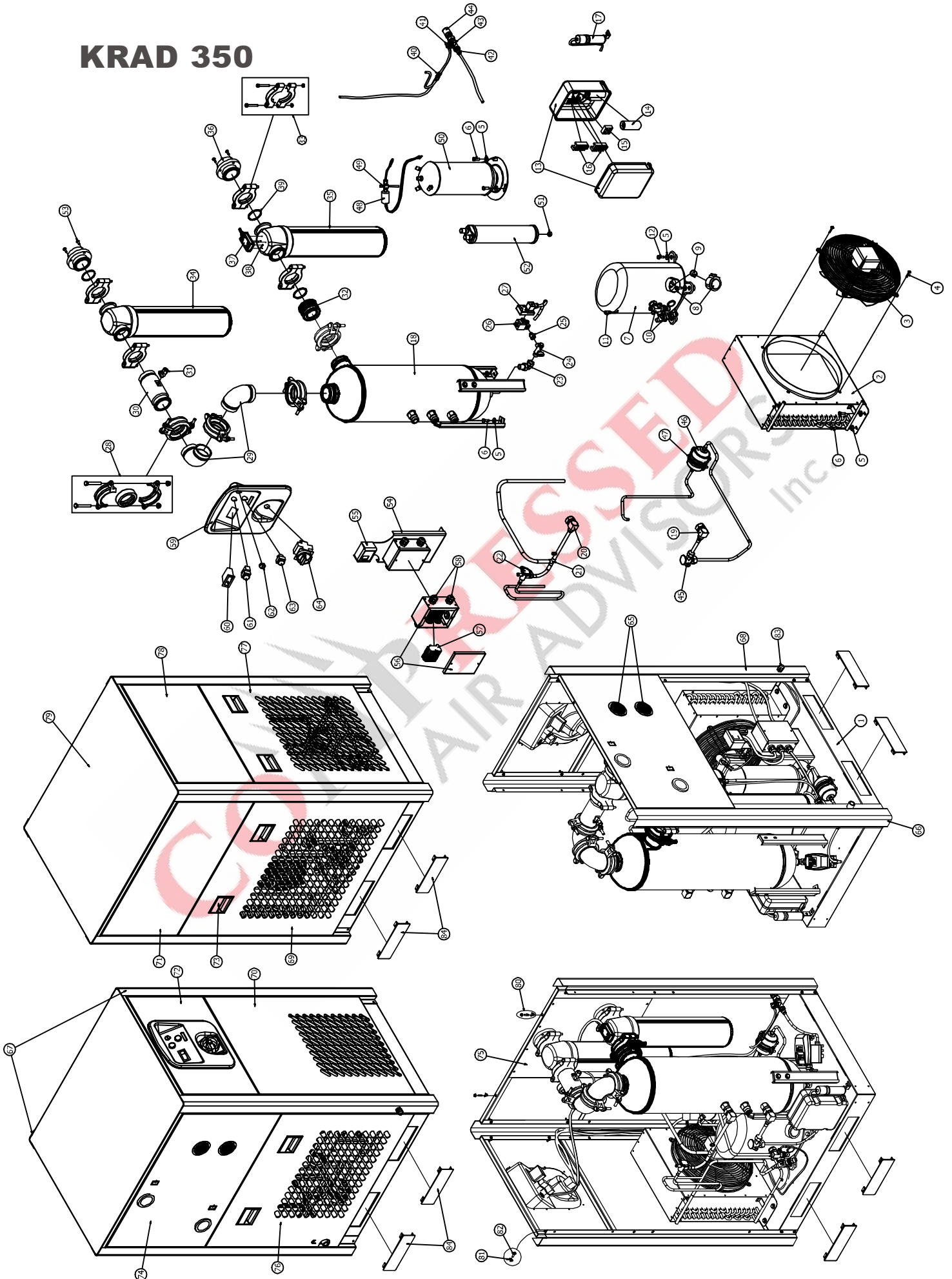
KRAD 250



| | | | |
|----------|---------------------------------------|-----|--------------------|
| 78 | POWER CABLE | 1 | KRAD500-US-PWC |
| 77 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 76 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 75 | BOLT M8x30 | 3 | KRAD5500-US-BLT830 |
| 74 | CABINET TOP | 1 | KRAD250-US-CAT |
| 73 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 72 | CABINET LOWER RIGHT | 1 | KRAD250-US-CLR |
| 71 | CABINET REAR BOTTOM | 1 | KRAD250-US-CRB |
| 70 | CABINET BOTTOM LEFT | 1 | KRAD250-US-CBL |
| 69 | CABINET FRONT BOTTOM | 1 | KRAD250-US-CFB |
| 68 | CABINET UPPER RIGHT | 1 | KRAD250-US-CUR |
| 67 | CABINET REAR TOP | 1 | KRAD250-US-CRT |
| 66 | CAGE NUTS M6 | 16 | KRAD5500-US-CGN6 |
| 65 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 64 | CABINET INSIDE | 1 | KRAD250-US-CAI |
| 63 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 62 | CABINET UPPER LEFT | 1 | KRAD250-US-CUL |
| 61 | CABINET LEG3 | 2 | KRAD250-US-CAL3 |
| 60 | CABINET LEG2 | 1 | KRAD250-US-CAL2 |
| 59 | CABINET LEG1 | 1 | KRAD250-US-CAL1 |
| 58 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 57 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 56 | MAIN SWITCH | 1 | KRAD500-US-MSW |
| 55 | PLASTIC CONTROL PANEL | 1 | KRAD250-US-PCP |
| 54 | CABINET ELECTRICAL BOX | 1 | KRAD250-US-CEB |
| 53 | NUT M10 | 1 | KRAD750-US-NT10 |
| 52 | LIQUID RECEIVER | 1 | KRAD250-US-LIQ |
| 51 | ADAPTOR T | 1 | KRAD5500-US-TDP |
| 50 | HIGH PRESSURE SWITCH | 1 | KRAD5500-US-HPS |
| 49 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 48 | DEHYDRATOR / FILTER DRIER | 1 | KRAD750-US-DRI |
| 47 | EXPANSION VALVE | 1 | KRAD250-US-EXP |
| 46 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 45 | FITTING 2 | 1 | KRAD5500-US-FTT2 |
| 44 | ELBOW FITTING | 1 | KRAD5500-US-ELW |
| 43 | FITTING 1 | 1 | KRAD1200-US-FTT1 |
| 42 | ORING | 4 | KRAD1200-US-ORG |
| 41 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 40 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 39 | CONNECTION CIT3 | 2 | KRAD250-US-CNK3 |
| 38 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD500-US-ELK-X |
| 37 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD500-US-ELK-Y |
| 36 | COUPLING CLAMP2 | 4 | KRAD1200-US-CPG2 |
| 35 | CONNECTION CIT2 | 1 | KRAD250-US-CNK2 |
| 34 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 33 | CONNECTION CIT1 | 1 | KRAD250-US-CNK1 |
| 32 | ELBOW 2 | 2 | KRAD1200-US-ELW2 |
| 31 | COUPLING CLAMP1 | 4 | KRAD5500-US-CPG1 |
| 30 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 29 | SELENOID VALVE | 1 | KRAD500-US-SVA |
| 28 | DRAIN NUT | 1 | KRAD5500-US-DRN |
| 27 | DRAIN VALVE 1 | 1 | KRAD5500-US-DRA1 |
| 26 | ELBOW 1 | 1 | KRAD5500-US-ELW1 |
| 25 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 24 | CUPPER T2 | 1 | KRAD5500-US-CPT2 |
| 23 | CUPPER T1 | 1 | KRAD5500-US-CPT1 |
| 22 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 21 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 20 | HEAT EXCHANGER | 1 | KRAD250-US-EXC |
| 19 | THERMOSTAT | 1 | KRAD250-US-TMT |
| 18 | THERMINAL BLOCK | 1 | KRAD250-US-TRM |
| 17 | START RELAY | 1 | KRAD250-US-STR |
| 16 | START CAPACITOR | 1 | KRAD250-US-SCR |
| 15 | ELECTRICAL BOX | 1 | KRAD250-US-ELB |
| 14 | BOLT M8x40 | 4 | KRAD750-US-BLT840 |
| 13 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 12 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 11 | OVERLOAD PROTECTOR | 1 | KRAD250-US-OVP |
| 10 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD250-US-CEP |
| 09 | COMPRESSOR | 1 | KRAD250-US-CMP |
| 08 | BOLT M8x25 | 4 | KRAD750-US-BLT825 |
| 07 | WASHER Ø22x8,2x2,4 | 11 | KRAD5500-US-WHR |
| 06 | BOLT M6x30 | 20 | KRAD5500-US-BLT630 |
| 05 | FAN | 1 | KRAD250-US-FAN |
| 04 | FAN GRILL | 1 | KRAD250-US-FGR |
| 03 | FAN BLADE | 1 | KRAD250-US-FBL |
| 02 | CONDANSER | 1 | KRAD250-US-CON |
| 01 | CABINET BASE | 1 | KRAD250-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |

PART LIST

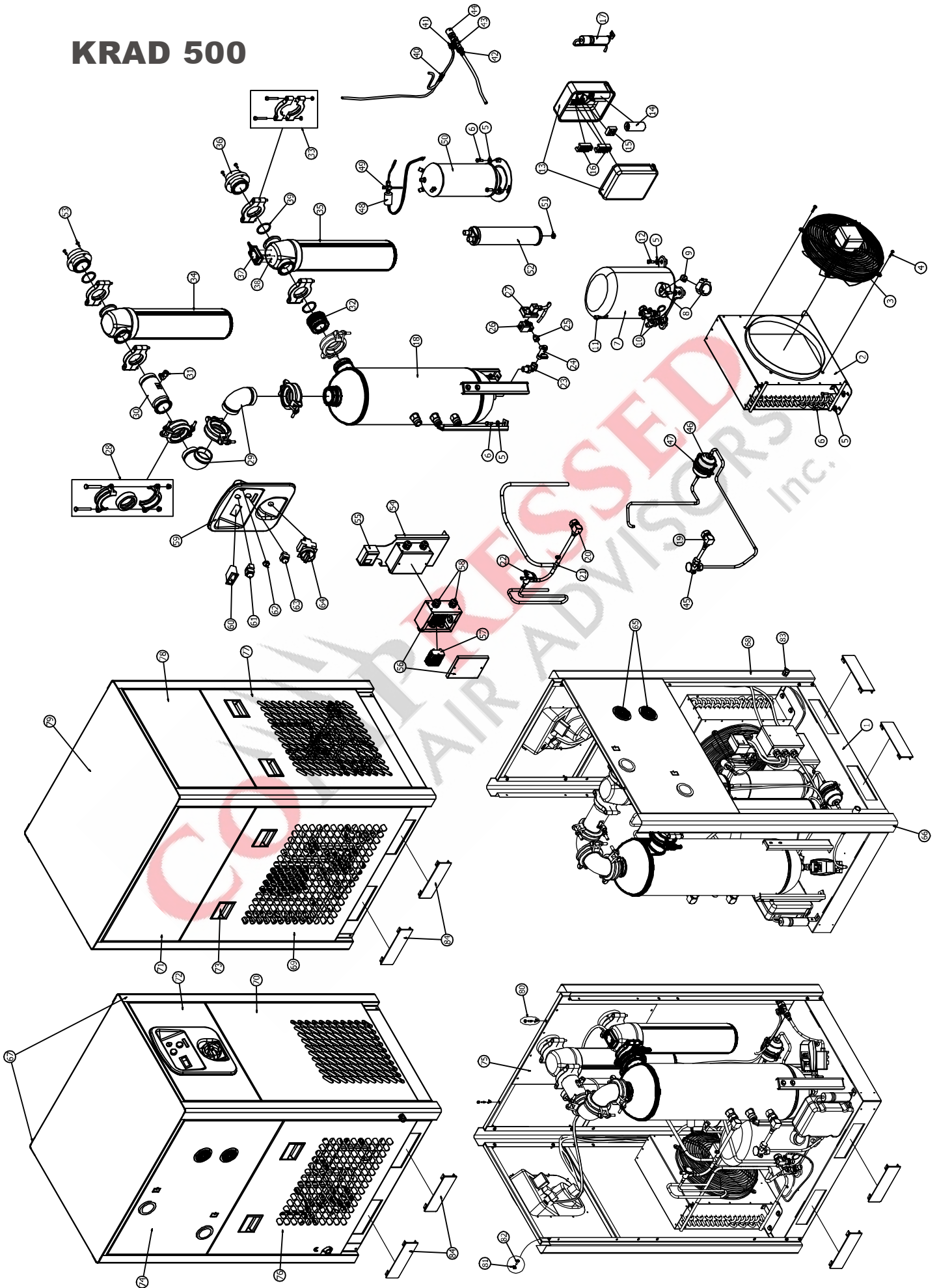
KRAD 350



| | | | |
|----------|---------------------------------------|-----|--------------------|
| 84 | REMOVABLE SHIELD | 4 | KRAD1750-US-CFS |
| 83 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 82 | BOLT M8x25 | 24 | KRAD5500-US-BLT826 |
| 81 | CAGE NUTS M6 | 24 | KRAD5500-US-CGN6 |
| 80 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 79 | CABINET TOP | 1 | KRAD500-US-CAT |
| 78 | CABINET REAR TOP | 1 | KRAD500-US-CRT |
| 77 | CABINET REAR BOTTOM | 1 | KRAD500-US-CRB |
| 76 | CABINET BOTTOM LEFT | 1 | KRAD500-US-CBL |
| 75 | CABINET INSIDE | 1 | KRAD500-US-CAI |
| 74 | CABINET UPPER LEFT | 1 | KRAD500-US-CUL |
| 73 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 72 | CABINET ELECTRICAL BOX | 1 | KRAD500-US-CEB |
| 71 | CABINET UPPER RIGHT | 1 | KRAD500-US-CUR |
| 70 | CABINET FRONT BOTTOM | 1 | KRAD500-US-CFB |
| 69 | CABINET LOWER RIGHT | 1 | KRAD500-US-CLR |
| 68 | CABINET LEG3 | 1 | KRAD500-US-CAL3 |
| 67 | CABINET LEG2 | 2 | KRAD500-US-CAL2 |
| 66 | CABINET LEG1 | 1 | KRAD500-US-CAL1 |
| 65 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 64 | MAIN SWITCH | 1 | KRAD500-US-MSW |
| 63 | FILTER ALARM LIGHT | 1 | KRAD500-US-FAL |
| 62 | STOPER | 1 | KRAD5500-US-STP |
| 61 | START BUTTON | 1 | KRAD500-US-STB |
| 60 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 59 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 58 | CABLE GLAND PG16 | 3 | KRAD5500-US-CG16 |
| 57 | THERMINAL BLOCK | 1 | KRAD500-US-TRM |
| 56 | ELECTRICAL BOX | 1 | KRAD500-US-ELB |
| 55 | HIGH PRESSURE SWICH | 1 | KRAD500-US-HPS |
| 54 | SUPPORT PLATE JUNCTION | 1 | KRAD500-US-SPJ |
| 53 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 52 | SUCTION ACCUMULATOR | 1 | KRAD500-US-SUC |
| 51 | NUT M10 | 1 | KRAD750-US-NT10 |
| 50 | LIQUID RECEIVER | 1 | KRAD500-US-LIQ |
| 49 | T ADAPTOR | 1 | KRAD5500-US-TDP |
| 48 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 47 | FILTER DRIER CLAMP | 1 | KRAD750-US-FDC |
| 46 | DEHYDRATOR / FILTER DRIER | 1 | KRAD750-US-DR1 |
| 45 | EXPANSION VALVE | 1 | KRAD750-US-EXP |
| 44 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 43 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 42 | FITTING2 | 1 | KRAD5500-US-FTT2 |
| 41 | ELBOW FITTING | 1 | KRAD5500-US-EWF |
| 40 | FITTING1 | 1 | KRAD1200-US-FTT1 |
| 39 | ORING | 4 | KRAD1200-US-ORG |
| 38 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 37 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 36 | CONNECTION CIT3 | 2 | KRAD500-US-CNK3 |
| 35 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD500-US-ELK-X |
| 34 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD500-US-ELK-Y |
| 33 | COUPLING CLAMP2 | 4 | KRAD1200-US-CPG2 |
| 32 | CONNECTION CIT2 | 1 | KRAD500-US-CNK2 |
| 31 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 30 | CONNECTION CIT1 | 1 | KRAD500-US-CNK1 |
| 29 | ELBOW2 | 2 | KRAD1200-US-ELW2 |
| 28 | COUPLING CLAMP1 | 4 | KRAD5500-US-CPG1 |
| 27 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 26 | SELENOID VALVE | 1 | KRAD500-US-SVA |
| 25 | DRAIN NUT | 1 | KRAD5500-US-DRN |
| 24 | DRAIN VALVE1 | 1 | KRAD5500-US-DRA1 |
| 23 | ELBOW1 | 1 | KRAD5500-US-ELW1 |
| 22 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 21 | CUPPER T1 | 1 | KRAD5500-US-CPT1 |
| 20 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 19 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 18 | HEAT EXCHANGER | 1 | KRAD500-US-EXC |
| 17 | THERMOSTAT | 1 | KRAD500-US-TMT |
| 16 | THERMINAL BLOCK | 1 | KRAD500-US-TRM |
| 15 | START RELAY | 1 | KRAD500-US-STR |
| 14 | START CAPACITOR | 1 | KRAD500-US-SCR |
| 13 | ELECTRICAL BOX | 1 | KRAD500-US-ELB |
| 12 | BOLT M8x50 | 4 | KRAD5500-US-BLT850 |
| 11 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 10 | ROTOLOCK ADAPTOR1 | 2 | KRAD5500-US-RTA1 |
| 09 | OVERLOAD PROTECTOR | 1 | KRAD350-US-OVP |
| 08 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD350-US-CEB |
| 07 | COMPRESSOR | 1 | KRAD350-US-CMP |
| 06 | BOLT M8x25 | 10 | KRAD750-US-BLT825 |
| 05 | WASHER Ø22x8,2x2,4 | 14 | KRAD5500-US-WHR22 |
| 04 | BOLT M6x30 | 4 | KRAD5500-US-BLT630 |
| 03 | FAN | 1 | KRAD350-US-FAN |
| 02 | CONDANSER | 1 | KRAD350-US-CON |
| 01 | CABINET BASE | 1 | KRAD500-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |

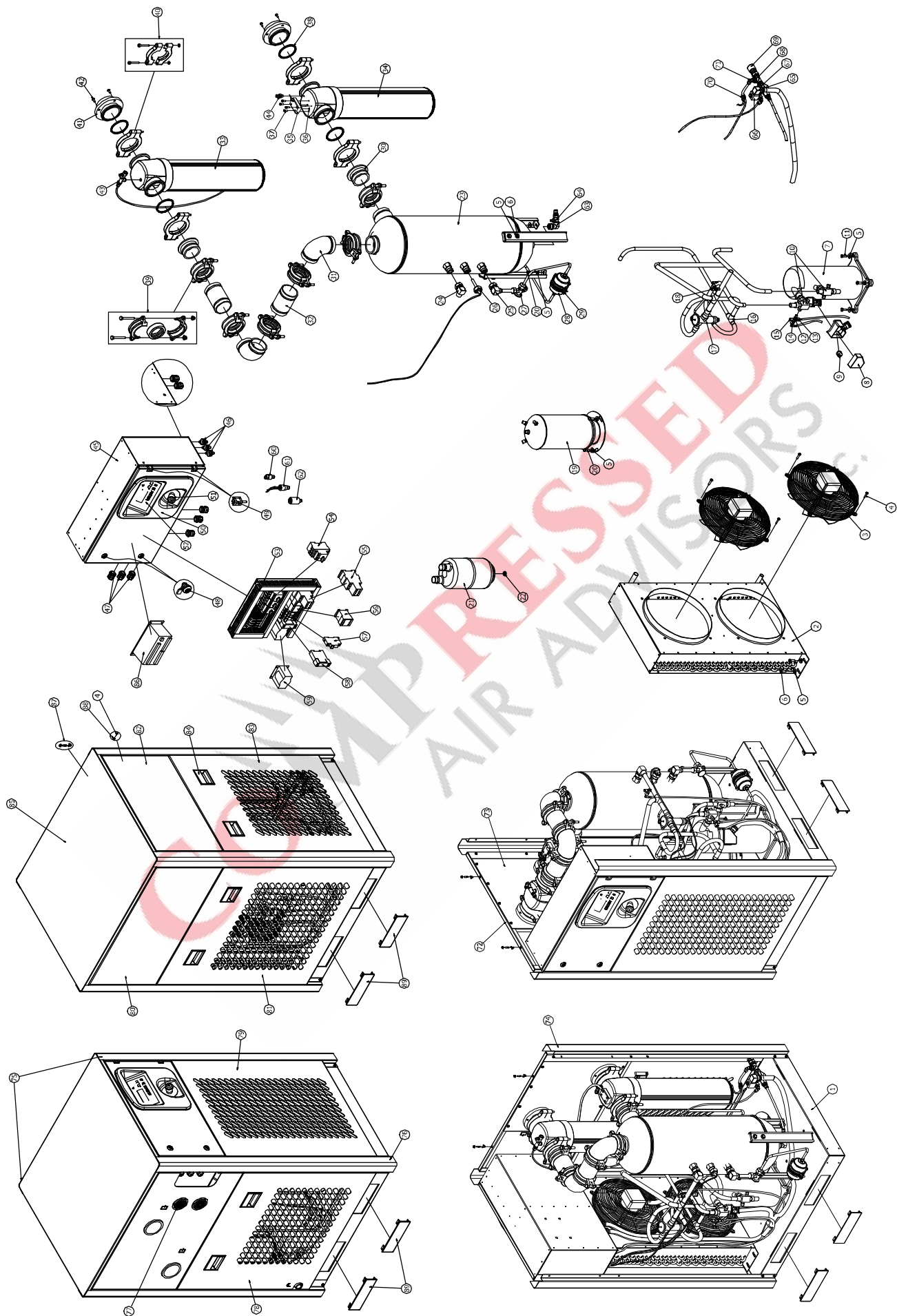
PART LIST

KRAD 500



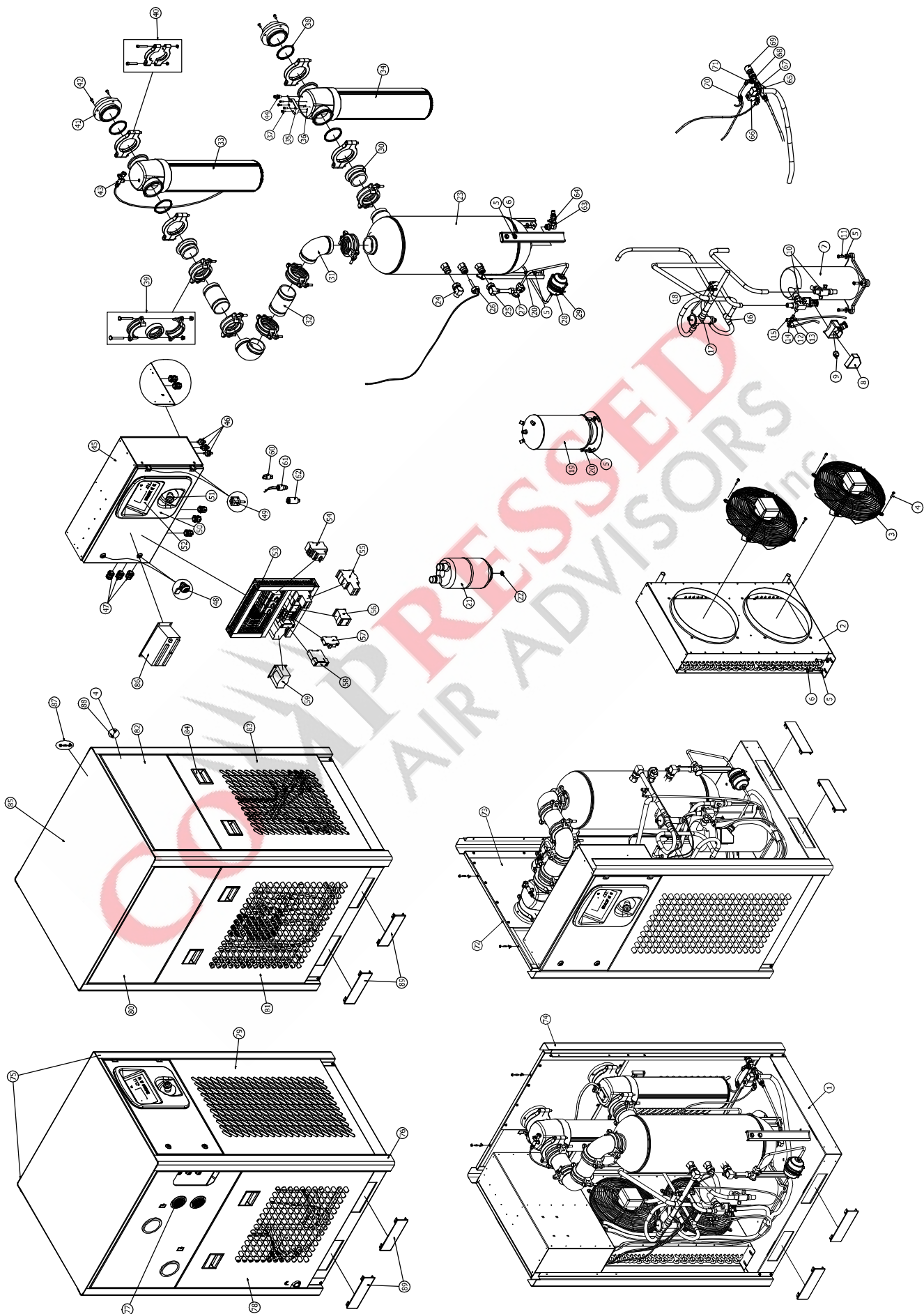
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| 84 | REMOVABLE SHIELD | 4 | KRAD1750-US-CFS |
| 83 | CABLE GLAND PG11 | 1 | KRAD5500-US-CG11 |
| 82 | BOLT M8x25 | 24 | KRAD5500-US-BLT826 |
| 81 | CAGE NUTS M6 | 24 | KRAD5500-US-CGN6 |
| 80 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 79 | CABINET TOP | 1 | KRAD500-US-CAT |
| 78 | CABINET REAR TOP | 1 | KRAD500-US-CRT |
| 77 | CABINET REAR BOTTOM | 1 | KRAD500-US-CRB |
| 76 | CABINET BOTTOM LEFT | 1 | KRAD500-US-CBL |
| 75 | CABINET INSIDE | 1 | KRAD500-US-CAI |
| 74 | CABINET UPPER LEFT | 1 | KRAD500-US-CUL |
| 73 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 72 | CABINET ELECTRICAL BOX | 1 | KRAD500-US-CEB |
| 71 | CABINET UPPER RIGHT | 1 | KRAD500-US-CUR |
| 70 | CABINET FRONT BOTTOM | 1 | KRAD500-US-CFB |
| 69 | CABINET LOWER RIGHT | 1 | KRAD500-US-CLR |
| 68 | CABINET LEG3 | 1 | KRAD500-US-CAL3 |
| 67 | CABINET LEG2 | 2 | KRAD500-US-CAL2 |
| 66 | CABINET LEG1 | 1 | KRAD500-US-CAL1 |
| 65 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 64 | MAIN SWITCH | 1 | KRAD500-US-MSW |
| 63 | FILTER ALARM LIGHT | 1 | KRAD500-US-FAL |
| 62 | STOPER | 1 | KRAD5500-US-STP |
| 61 | START BUTTON | 1 | KRAD500-US-STB |
| 60 | DEWPOINT INDICATOR | 1 | KRAD500-US-DPI |
| 59 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 58 | CABLE GLAND PG16 | 3 | KRAD5500-US-CG16 |
| 57 | THERMINAL BLOCK | 1 | KRAD500-US-TRM |
| 56 | ELECTRICAL BOX | 1 | KRAD500-US-ELB |
| 55 | HIGH PRESSURE SWICH | 1 | KRAD500-US-HPS |
| 54 | SUPPORT PLATE JUNCTION | 1 | KRAD500-US-SPJ |
| 53 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 52 | SUCTION ACCUMULATOR | 1 | KRAD500-US-SUC |
| 51 | NUT M10 | 1 | KRAD750-US-NT10 |
| 50 | LIQUID RECEIVER | 1 | KRAD500-US-LIQ |
| 49 | T ADAPTOR | 1 | KRAD5500-US-TDP |
| 48 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 47 | FILTER DRIER CLAMP | 1 | KRAD750-US-FDC |
| 46 | DEHYDRATOR / FILTER DRIER | 1 | KRAD750-US-DRI |
| 45 | EXPANSION VALVE | 1 | KRAD750-US-EXP |
| 44 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 43 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 42 | FITTING2 | 1 | KRAD5500-US-FTT2 |
| 41 | ELBOW FITTING | 1 | KRAD5500-US-EWF |
| 40 | FITTING1 | 1 | KRAD1200-US-FTT1 |
| 39 | ORING | 4 | KRAD1200-US-ORG |
| 38 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 37 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 36 | CONNECTION CIT3 | 2 | KRAD500-US-CNK3 |
| 35 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD500-US-ELK-X |
| 34 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD500-US-ELK-Y |
| 33 | COUPLING CLAMP2 | 4 | KRAD1200-US-CPG2 |
| 32 | CONNECTION CIT2 | 1 | KRAD500-US-CNK2 |
| 31 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 30 | CONNECTION CIT1 | 1 | KRAD500-US-CNK1 |
| 29 | ELBOW2 | 2 | KRAD1200-US-ELW2 |
| 28 | COUPLING CLAMP1 | 4 | KRAD5500-US-CPG1 |
| 27 | TIMER RELAY | 1 | KRAD500-US-TMR |
| 26 | SELENOID VALVE | 1 | KRAD500-US-SVA |
| 25 | DRAIN NUT | 1 | KRAD5500-US-DRN |
| 24 | DRAIN VALVE1 | 1 | KRAD5500-US-DRA1 |
| 23 | ELBOW1 | 1 | KRAD5500-US-ELW1 |
| 22 | BY-PASS VALVE | 1 | KRAD500-US-BYP |
| 21 | CUPPER T1 | 1 | KRAD500-US-CPT1 |
| 20 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 19 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 18 | HEAT EXCHANGER | 1 | KRAD500-US-EXC |
| 17 | THERMOSTAT | 1 | KRAD500-US-TMT |
| 16 | THERMINAL BLOCK | 1 | KRAD500-US-TRM |
| 15 | START RELAY | 1 | KRAD500-US-STR |
| 14 | START CAPACITOR | 1 | KRAD500-US-SCR |
| 13 | ELECTRICAL BOX | 1 | KRAD500-US-ELB |
| 12 | BOLT M8x50 | 4 | KRAD5500-US-BLT850 |
| 11 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 10 | ROTOLOCK ADAPTOR1 | 2 | KRAD5500-US-RTA1 |
| 09 | OVERLOAD PROTECTOR | 1 | KRAD500-US-OVP |
| 08 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD500-US-CEB |
| 07 | COMPRESSOR | 1 | KRAD500-US-CMP |
| 06 | BOLT M8x25 | 34 | KRAD750-US-BLT825 |
| 05 | WASHER Ø22x8,2x2,4 | 14 | KRAD5500-US-WHR22 |
| 04 | BOLT M6x30 | 4 | KRAD5500-US-BLT630 |
| 03 | FAN | 1 | KRAD500-US-FAN |
| 02 | CONDANSER | 1 | KRAD500-US-CON |
| 01 | CABINET BASE | 1 | KRAD500-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 600



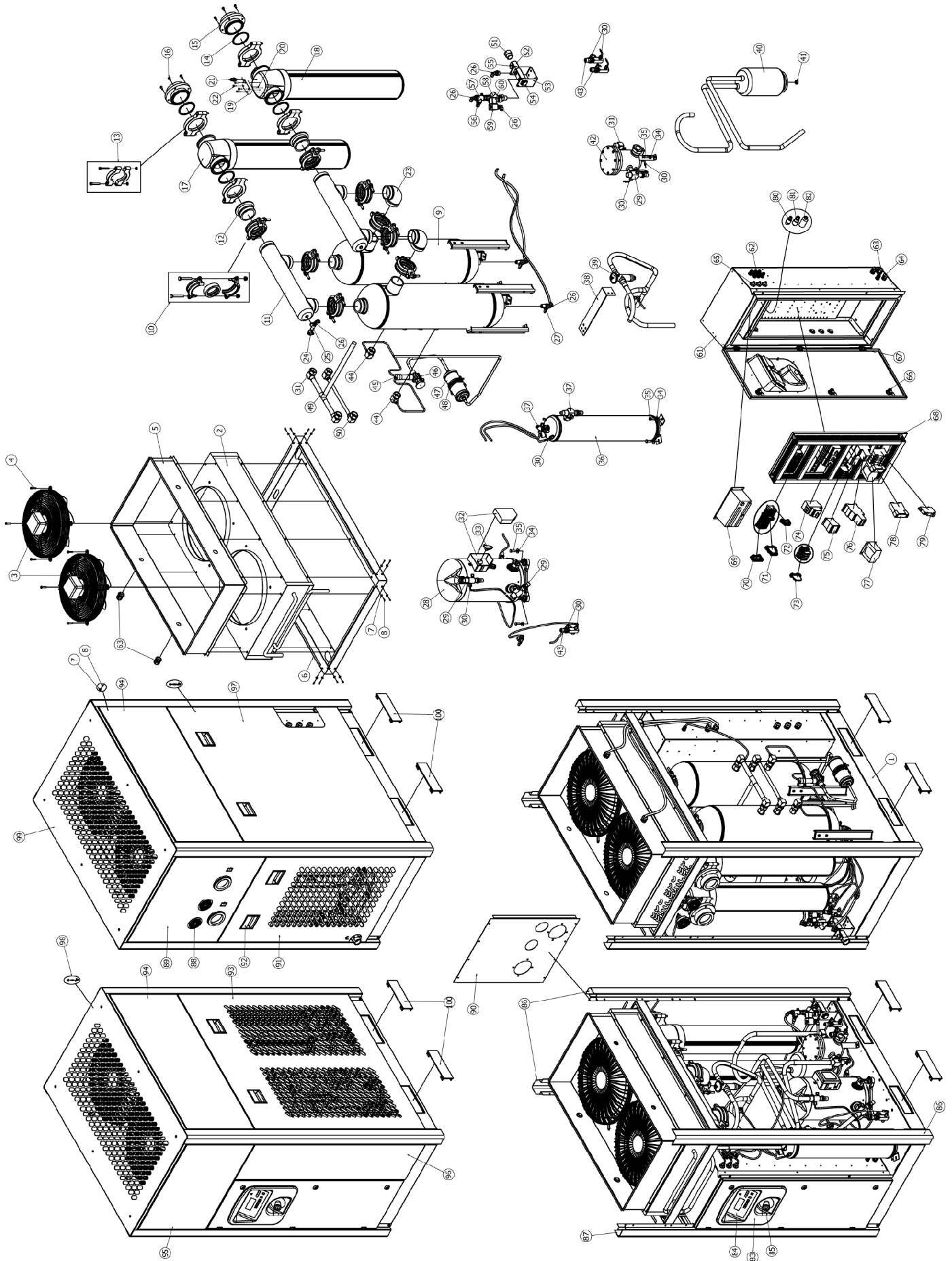
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| 89 | REMOVABLE SHIELD | 4 | KRAD1750-US-CFS |
| 88 | CAGE NUT M6 | 26 | KRAD5500-US-CGN6 |
| 87 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 86 | CONTROLLER | 1 | KRAD5500-US-CTR |
| 85 | CABINET TOP | 1 | KRAD750-US-CAT |
| 84 | CABINET HANDLE | 1 | KRAD5500-US-CAH |
| 83 | CABINET REAR BOTTOM | 1 | KRAD750-US-CRB |
| 82 | CABINET REAR TOP | 1 | KRAD750-US-CRT |
| 81 | CABINET LOWER RIGHT | 1 | KRAD750-US-CLR |
| 80 | CABINET UPPER RIGHT | 1 | KRAD750-US-CUR |
| 79 | CABINET FRONT BOTTOM | 1 | KRAD750-US-CFB |
| 78 | CABINET BOTTOM LEFT | 1 | KRAD750-US-CBL |
| 77 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 76 | CABINET LEG3 | 1 | KRAD750-US-CAL3 |
| 75 | CABINET LEG2 | 2 | KRAD750-US-CAL2 |
| 74 | CABINET LEG1 | 1 | KRAD750-US-CAL1 |
| 73 | CABINET INSIDE | 1 | KRAD750-US-CAI |
| 72 | CABINET UPPER LEFT | 1 | KRAD750-US-CUL |
| 71 | ELBOW FITTINGS | 2 | KRAD1200-US-EWF |
| 70 | FITTING | 1 | KRAD1200-US-FTT |
| 69 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 68 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 67 | MEMBRAN VALVE | 1 | KRAD1750-US-MEV |
| 66 | SOLENOID VALVE | 1 | KRAD5500-US-SVA |
| 65 | SOLENOID VALVE COIL | 1 | KRAD5500-US-SVC |
| 64 | DRAIN VALVE1 | 1 | KRAD5500-US-DRA1 |
| 63 | ELBOW2 | 1 | KRAD5500-US-ELW2 |
| 62 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 61 | HIGH PRESSURE SWICH | 1 | KRAD5500-US-HPS |
| 60 | LOW PRESSURE SWICH | 1 | KRAD5500-US-LPS |
| 59 | MOTOR THERMAL | 1 | KRAD5500-US-MTRL |
| 58 | PHASE PROTECTION RELAY | 1 | KRAD5500-US-PHR |
| 57 | FUSE | 4 | KRAD5500-US-FUS |
| 56 | FAN CONTACTOR | 2 | KRAD5500-US-FCT |
| 55 | HEAT EXCHANGER CONTACTOR | 1 | KRAD5500-US-EXCN |
| 54 | THERMINAL BLOCK PROTECTION | 3 | KRAD5500-US-TBP |
| 53 | ELECTRICAL PANEL | 1 | KRAD750-US-ELP |
| 52 | ESD3 CONTROLLER | 1 | KRAD5500-US-ES2 |
| 51 | MAIN SWITCH | 1 | KRAD5500-US-MSW |
| 50 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 49 | HINGE | 2 | KRAD5500-US-HNG |
| 48 | DOOR LOCK | 2 | KRAD5500-US-DLK |
| 47 | CABLE GLAND PG16 | 8 | KRAD5500-US-CG16 |
| 46 | SWITCH CONNECTION FITTING | 3 | KRAD5500-US-SCF |
| 45 | ELECTRICAL BOX | 1 | KRAD750-US-ELB |
| 44 | TEMPERATURE SENSOR | 1 | KRAD1200-US-TMPS |
| 43 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 42 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 41 | CONNECTION CIT2 | 2 | KRAD1200-US-CNK2 |
| 40 | COUPLING CLAMP 2 | 4 | KRAD1200-US-CPG2 |
| 39 | COUPLING CLAMP 1 | 6 | KRAD5500-US-CPG1 |
| 38 | ORING | 1 | KRAD1200-US-ORG |
| 37 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 36 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 35 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 34 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD750-US-ELK-X |
| 33 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD750-US-ELK-Y |
| 32 | COUPLING PIPE | 2 | KRAD750-US-CPP |
| 31 | ELBOW1 | 2 | KRAD1200-US-ELW1 |
| 30 | CONNECTION CIT1 | 2 | KRAD750-US-CNK1 |
| 29 | FILTER DRIER CLAMP | 1 | KRAD750-US-FDC |
| 28 | DEHYDRATOR / FILTER DRIER | 1 | KRAD750-US-DRI |
| 27 | EXPANSION VALVE | 1 | KRAD750-US-EXP |
| 26 | SENSOR ADAPTOR | 1 | KRAD750-US-SSD |
| 25 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 24 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 23 | HEAT EXCHANGER | 1 | KRAD750-US-EXC |
| 22 | NUT M10 | 1 | KRAD1750-US-NT10 |
| 21 | SUCTION ACCUMULATOR | 1 | KRAD1200-US-SUC |
| 20 | BOLT M8x30 | 6 | KRAD5500-US-BLT830 |
| 19 | LIQUID RECEIVER | 1 | KRAD750-US-LIQ |
| 18 | CUPPER T2 | 1 | KRAD5500-US-CPT2 |
| 17 | BY-PASS VALVE | 1 | KRAD1500-US-BYP |
| 16 | CUPPER T1 | 2 | KRAD5500-US-CPT1 |
| 15 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 14 | CAPPILARY TUBE CONNECTION2 | 2 | KRAD5500-US-CTC2 |
| 13 | CAPPILARY TUBE CONNECTION1 | 1 | KRAD5500-US-CTC1 |
| 12 | T ADAPTOR | 1 | KRAD5500-US-TDP |
| 11 | BOLT M8x50 | 4 | KRAD5500-US-BLT850 |
| 10 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 09 | OVERLOAD PROTECTOR | 1 | KRAD600-US-OVP |
| 08 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD600-US-CEB |
| 07 | COMPRESSOR | 1 | KRAD600-US-CMP |
| 06 | BOLT M8x25 | 13 | KRAD750-US-BLT825 |
| 05 | WASHER 22x8,2x2,4 | 23 | KRAD5500-US-WHR22 |
| 04 | BOLT M6x30 | 30 | KRAD5500-US-BLT630 |
| 03 | FAN | 2 | KRAD600-US-FAN |
| 02 | CONDANSER | 1 | KRAD600-US-CON |
| 01 | CABINET BASE | 1 | KRAD750-US-CAB |
| ITEM NO. | MATERIAL NAME | QTY | SPARE PART CODE |
| PART LIST | | | |

KRAD 750



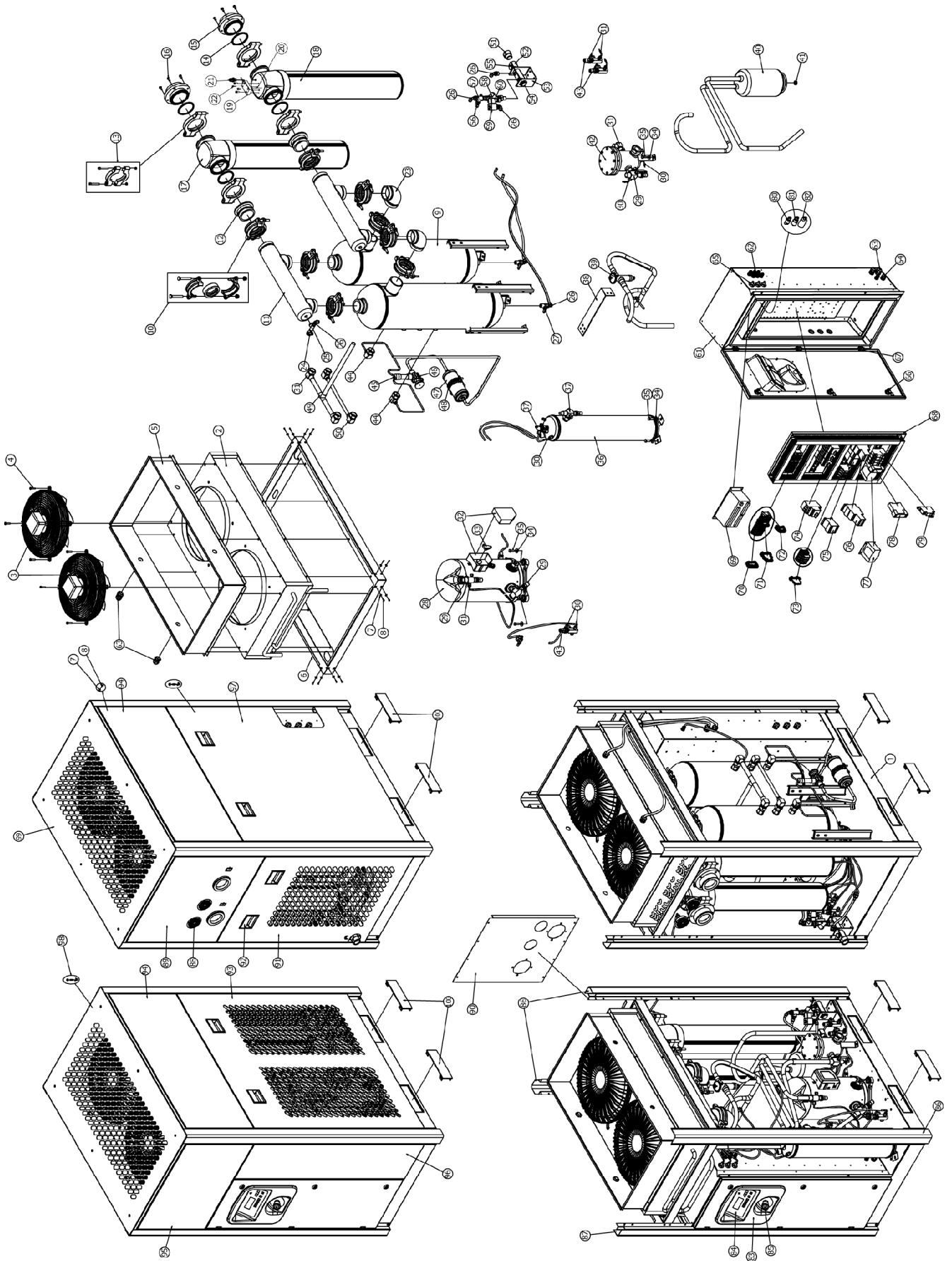
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|------|---------------------------------------|-----|--------------------|
| 89 | REMOVABLE SHIELD | 4 | KRAD1750-US-CFS |
| 88 | CAGE NUT M6 | 26 | KRAD5500-US-CGN6 |
| 87 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 86 | CONTROLLER | 1 | KRAD5500-US-CTR |
| 85 | CABINET TOP | 1 | KRAD750-US-CAT |
| 84 | CABINET HANDLE | 1 | KRAD5500-US-CAH |
| 83 | CABINET REAR BOTTOM | 1 | KRAD750-US-CRB |
| 82 | CABINET REAR TOP | 1 | KRAD750-US-CRT |
| 81 | CABINET LOWER RIGHT | 1 | KRAD750-US-CLR |
| 80 | CABINET UPPER RIGHT | 1 | KRAD750-US-CUR |
| 79 | CABINET FRONT BOTTOM | 1 | KRAD750-US-CFB |
| 78 | CABINET BOTTOM LEFT | 1 | KRAD750-US-CBL |
| 77 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 76 | CABINET LEG3 | 1 | KRAD750-US-CAL3 |
| 75 | CABINET LEG2 | 2 | KRAD750-US-CAL2 |
| 74 | CABINET LEG1 | 1 | KRAD750-US-CAL1 |
| 73 | CABINET INSIDE | 1 | KRAD750-US-CAI |
| 72 | CABINET UPPER LEFT | 1 | KRAD750-US-CUL |
| 71 | ELBOW FITTINGS | 2 | KRAD1200-US-EWF |
| 70 | FITTING | 1 | KRAD1200-US-FTT |
| 69 | DRAIN SLEEVE | 1 | KRAD750-US-DRS |
| 68 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 67 | MEMBRAN VALVE | 1 | KRAD1750-US-MEV |
| 66 | SOLENOID VALVE | 1 | KRAD5500-US-SVA |
| 65 | SOLENOID VALVE COIL | 1 | KRAD5500-US-SVC |
| 64 | DRAIN VALVE1 | 1 | KRAD5500-US-DRA1 |
| 63 | ELBOW2 | 1 | KRAD5500-US-ELW2 |
| 62 | FAN SWICH | 1 | KRAD5500-US-FSW |
| 61 | HIGH PRESSURE SWICH | 1 | KRAD5500-US-HPS |
| 60 | LOW PRESSURE SWICH | 1 | KRAD5500-US-LPS |
| 59 | MOTOR THERMAL | 1 | KRAD5500-US-MTRL |
| 58 | PHASE PROTECTION RELAY | 1 | KRAD5500-US-PHR |
| 57 | FUSE | 4 | KRAD5500-US-FUS |
| 56 | FAN CONTACTOR | 2 | KRAD5500-US-FCT |
| 55 | HEAT EXCHANGER CONTACTOR | 1 | KRAD5500-US-EXCN |
| 54 | THERMINAL BLOCK PROTECTION | 3 | KRAD5500-US-TBP |
| 53 | ELECTRICAL PANEL | 1 | KRAD750-US-ELP |
| 52 | ESD3 CONTROLLER | 1 | KRAD5500-US-ES2 |
| 51 | MAIN SWITCH | 1 | KRAD5500-US-MSW |
| 50 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 49 | HINGE | 2 | KRAD5500-US-HNG |
| 48 | DOOR LOCK | 2 | KRAD5500-US-DLK |
| 47 | CABLE GLAND PG16 | 8 | KRAD5500-US-CG16 |
| 46 | SWITCH CONNECTION FITTING | 3 | KRAD5500-US-SCF |
| 45 | ELECTRICAL BOX | 1 | KRAD750-US-ELB |
| 44 | TEMPERATURE SENSOR | 1 | KRAD1200-US-TMPS |
| 43 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 42 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 41 | CONNECTION CIT2 | 2 | KRAD1200-US-CNK2 |
| 40 | COUPLING CLAMP 2 | 4 | KRAD1200-US-CPG2 |
| 39 | COUPLING CLAMP 1 | 6 | KRAD5500-US-CPG1 |
| 38 | ORING | 1 | KRAD1200-US-ORG |
| 37 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 36 | INDICATOR GASKET1 | 2 | KRAD1200-US-ING1 |
| 35 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 34 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD750-US-ELK-X |
| 33 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD750-US-ELK-Y |
| 32 | COUPLING PIPE | 2 | KRAD750-US-CPP |
| 31 | ELBOW1 | 2 | KRAD1200-US-ELW1 |
| 30 | CONNECTION CIT1 | 2 | KRAD750-US-CNK1 |
| 29 | FILTER DRIER CLAMP | 1 | KRAD750-US-FDC |
| 28 | DEHYDRATOR / FILTER DRIER | 1 | KRAD750-US-DRI |
| 27 | EXPANSION VALVE | 1 | KRAD750-US-EXP |
| 26 | SENSOR ADAPTOR | 1 | KRAD750-US-SSD |
| 25 | ROTOLOCK ADAPTOR3 | 1 | KRAD5500-US-RTA3 |
| 24 | ROTOLOCK ADAPTOR2 | 1 | KRAD5500-US-RTA2 |
| 23 | HEAT EXCHANGER | 1 | KRAD750-US-EXC |
| 22 | NUT M10 | 1 | KRAD1750-US-NT10 |
| 21 | SUCTION ACCUMULATOR | 1 | KRAD1200-US-SUC |
| 20 | BOLT M8x30 | 6 | KRAD5500-US-BLT830 |
| 19 | LIQUID RECEIVER | 1 | KRAD750-US-LIQ |
| 18 | CUPPER T2 | 1 | KRAD5500-US-CPT2 |
| 17 | BY-PASS VALVE | 1 | KRAD1500-US-BYP |
| 16 | CUPPER T1 | 2 | KRAD5500-US-CPT1 |
| 15 | SETTING THE CONNECTION | 1 | KRAD750-US-STC |
| 14 | CAPPILARY TUBE CONNECTION2 | 2 | KRAD5500-US-CTC2 |
| 13 | CAPPILARY TUBE CONNECTION1 | 1 | KRAD5500-US-CTC1 |
| 12 | T ADAPTOR | 1 | KRAD5500-US-TDP |
| 11 | BOLT M8x50 | 4 | KRAD5500-US-BLT850 |
| 10 | ROTOLOCK ADAPTOR1 | 1 | KRAD5500-US-RTA1 |
| 09 | OVERLOAD PROTECTOR | 1 | KRAD750-US-OVP |
| 08 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD750-US-CEB |
| 07 | COMPRESSOR | 1 | KRAD750-US-CMP |
| 06 | BOLT M8x25 | 13 | KRAD750-US-BLT825 |
| 05 | WASHER 22x8,2x2,4 | 23 | KRAD5500-US-WHR22 |
| 04 | BOLT M6x30 | 30 | KRAD5500-US-BLT630 |
| 03 | FAN | 2 | KRAD750-US-FAN |
| 02 | CONDANSER | 1 | KRAD750-US-CON |
| 01 | CABINET BASE | 1 | KRAD750-US-CAB |
| ITEM | MATERIAL NAME | QTY | SPARE PART CODE |
| PART | | | |

KRAD 1000



| | | | |
|------|---------------------------------------|-----|--------------------|
| 100 | REMOVABLE SHIELD | 4 | KRAD1750-US-RMS |
| 99 | CABINET TOP | 1 | KRAD1200-US-CAT |
| 98 | CABINET FASTENER | 14 | KRAD5500-US-CFS |
| 97 | CABINET SIDE BOTTOM2 | 1 | KRAD1200-US-CSB2 |
| 96 | CABINET FRONT BOTTOM | 1 | KRAD1200-US-CFB |
| 95 | CABINET FRONT TOP | 1 | KRAD1200-US-CFT |
| 94 | CABINET SIDE TOP | 2 | KRAD1200-US-CST |
| 93 | CABINET SIDE BOTTOM1 | 1 | KRAD1200-US-CSB1 |
| 92 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 91 | CABINET REAR BOTTOM | 1 | KRAD1200-US-CRB |
| 90 | CABINET INSIDE | 1 | KRAD1200-US-CAI |
| 89 | CABINET REAR TOP | 1 | KRAD1200-US-CRT |
| 88 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 87 | CABINET LEG2 | 1 | KRAD1200-US-CAL2 |
| 86 | CABINET LEG1 | 3 | KRAD1200-US-CAL1 |
| 85 | MAIN SWITCH | 1 | KRAD5500-US-MSW |
| 84 | ESD3 CONTROLLER | 1 | KRAD5500-US-ES2 |
| 83 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 82 | FAN SWITCH | 1 | KRAD5500-US-FSW |
| 81 | HIGH PRESSURE SWITCH | 1 | KRAD5500-US-HPS |
| 80 | LOW PRESSURE SWITCH | 1 | KRAD5500-US-LPS |
| 79 | FUSE | 4 | KRAD5500-US-FUS |
| 78 | PHASE PROTECTION RELAY | 1 | KRAD5500-US-PHR |
| 77 | MOTOR THERMINAL | 1 | KRAD5500-US-MTRL |
| 76 | HEAT EXCHANGER CONTACTOR | 1 | KRAD5500-US-EXCN |
| 75 | FAN CONTACTOR | 2 | KRAD5500-US-FCT |
| 74 | THERMINAL BLOCK PROTECTION | 3 | KRAD5500-US-TBP |
| 73 | THERMINAL BLOCK4 | 4 | KRAD5500-US-TRM4 |
| 72 | THERMINAL BLOCK3 | 9 | KRAD5500-US-TRM3 |
| 71 | THERMINAL BLOCK2 | 1 | KRAD5500-US-TRM2 |
| 70 | THERMINAL BLOCK1 | 24 | KRAD5500-US-TRM1 |
| 69 | CONTROLLER | 1 | KRAD5500-US-CTR |
| 68 | ELECTRICAL PANEL | 1 | KRAD1200-US-ELP |
| 67 | HINGE | 3 | KRAD5500-US-HNG |
| 66 | DOOR LOCK | 3 | KRAD5500-US-DLK |
| 65 | SWITCH CONNECTION FITTING | 3 | KRAD5500-US-SCF |
| 64 | CABLE GLAND PG11 | 2 | KRAD5500-US-CG11 |
| 63 | CABLE GLAND PG16 | 8 | KRAD5500-US-CG16 |
| 62 | CABLE GLAND PG7 | 8 | KRAD5500-US-CG7 |
| 61 | ELECTRICAL BOX | 1 | KRAD1200-US-ELB |
| 60 | SOLENOID VALVE COIL | 1 | KRAD5500-US-SVC |
| 59 | SOLENOID VALVE | 1 | KRAD5500-US-SVA |
| 58 | MEMBRAN VALVE | 1 | KRAD1750-US-MEV |
| 57 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 56 | FITTINGS | 2 | KRAD5500-US-FTT |
| 55 | MANIFOLD BLIND CAP2 | 1 | KRAD5500-US-MBC2 |
| 54 | MANIFOLD BLIND CAP1 | 1 | KRAD5500-US-MBC1 |
| 53 | MANIFOLD REINFORCEMENT SHEET METAL | 1 | KRAD5500-US-MRS |
| 52 | DRAIN MANIFOLD | 1 | KRAD5500-US-DRM |
| 51 | DRAIN SLEEVE | 1 | KRAD1200-US-DRS |
| 50 | ROTOLOCK ADAPTOR5 | 2 | KRAD5500-US-RTA5 |
| 49 | CUPPER T | 2 | KRAD5500-US-CPT |
| 48 | FILTER DRYER CLAMP | 1 | KRAD1200-US-FDC |
| 47 | DEHYDRATOR / FILTER DRIER | 1 | KRAD1200-US-DRI |
| 46 | EXPANSION VALVE | 1 | KRAD1000-US-EXP |
| 45 | DISTRIBUTOR | 1 | KRAD5500-US-DST |
| 44 | ROTOLOCK ADAPTOR4 | 2 | KRAD5500-US-RTA4 |
| 43 | ROTOLOCK SERVICE VALVE | 3 | KRAD5500-US-RSV |
| 42 | OIL SEPARATOR | 1 | KRAD1750-US-OSE |
| 41 | NUT M10 | 1 | KRAD1200-US-NUT10 |
| 40 | SUCTION ACCUMULATOR | 1 | KRAD1200-US-SUC |
| 39 | BY-PASS VALVE | 1 | KRAD1500-US-BYP |
| 38 | REINFORCEMENT SHEET METAL | 1 | KRAD1200-US-RSM |
| 37 | ROTOLOCK ADAPTOR3 | 2 | KRAD5500-US-RTA3 |
| 36 | LIQUID RECEIVER | 1 | KRAD1200-US-LIQ |
| 35 | BOLT M8x50 | 10 | KRAD5500-US-BLT850 |
| 34 | WASHER 22x8,2x2,4 | 10 | KRAD5500-US-WHR22 |
| 33 | OVERLOAD PROTECTOR | 1 | KRAD1000-US-OVP |
| 32 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD1000-US-CEB |
| 31 | ROTOLOCK ADAPTOR2 | 3 | KRAD5500-US-RTA2 |
| 30 | CAPPILARY TUBE CONNECTION | 15 | KRAD5500-US-CTC |
| 29 | ROTOLOCK ADAPTOR1 | 3 | KRAD5500-US-RTA1 |
| 28 | COMPRESSOR | 1 | KRAD1000-US-CMP |
| 27 | DRAIN VALVE1 | 2 | KRAD5500-US-DRA1 |
| 26 | ELBOW FITTINGS | 6 | KRAD5500-US-EWF |
| 25 | T CONNECTION | 1 | KRAD5500-US-TCN |
| 24 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 23 | ELBOW | 2 | KRAD1200-US-ELW |
| 22 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 21 | TEMPERATURE SENSOR | 5 | KRAD5500-US-TMPS |
| 20 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 19 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 18 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD1200-US-ELK-X |
| 17 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD1200-US-ELK-Y |
| 16 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 15 | CONNECTION KIT 2 | 2 | KRAD1200-US-CNK2 |
| 14 | ORING | 4 | KRAD1200-US-ORG |
| 13 | COUPLING CLAMP 2 | 4 | KRAD1200-US-CPG2 |
| 12 | CONNECTION KIT 1 | 2 | KRAD1200-US-CNK1 |
| 11 | COLLECTOR | 2 | KRAD1200-US-CLL |
| 10 | COUPLING CLAMP 1 | 8 | KRAD5500-US-CPG1 |
| 09 | HEAT EXCHANGER | 2 | KRAD1200-US-EXC |
| 08 | BOLT M6x30 | 48 | KRAD5500-US-BLT630 |
| 07 | CAGE NUT M6 | 48 | KRAD5500-US-CGN6 |
| 06 | CONDENSER REINFORCEMENT PLATE | 1 | KRAD5500-US-CRP |
| 05 | FAN PROTECTOR | 1 | KRAD5500-US-FPRT |
| 04 | BOLT M6x30 | 8 | KRAD5500-US-BLT630 |
| 03 | FAN | 2 | KRAD1200-US-FAN |
| 02 | CONDENSER | 1 | KRAD1200-US-CON |
| 01 | CABINET BASE | 1 | KRAD1200-US-CAB |
| ITEM | MATERIAL NAME | QTY | SPARE PART CODE |
| PART | | | |

KRAD 1200



| | | | |
|------|---------------------------------------|-----|--------------------|
| 100 | REMOVABLE SHIELD | 4 | KRAD1750-US-RMS |
| 99 | CABINET TOP | 1 | KRAD1200-US-CAT |
| 98 | CABINET FASTENER | 4 | KRAD5500-US-CFS |
| 97 | CABINET SIDE BOTTOM2 | 1 | KRAD1200-US-CSB2 |
| 96 | CABINET FRONT BOTTOM | 1 | KRAD1200-US-CFB |
| 95 | CABINET FRONT TOP | 1 | KRAD1200-US-CFT |
| 94 | CABINET SIDE TOP | 2 | KRAD1200-US-CST |
| 93 | CABINET SIDE BOTTOM1 | 1 | KRAD1200-US-CSB1 |
| 92 | CABINET HANDLE | 6 | KRAD5500-US-CAH |
| 91 | CABINET REAR BOTTOM | 1 | KRAD1200-US-CRB |
| 90 | CABINET INSIDE | 1 | KRAD1200-US-CAI |
| 89 | CABINET REAR TOP | 1 | KRAD1200-US-CRT |
| 88 | HIGH - LOW PRESSURE GAUGE | 2 | KRAD5500-US-HLPG |
| 87 | CABINET LEG2 | 1 | KRAD1200-US-CAL2 |
| 86 | CABINET LEG1 | 3 | KRAD1200-US-CAL1 |
| 85 | MAIN SWITCH | 1 | KRAD5500-US-MSW |
| 84 | ESD3 CONTROLLER | 1 | KRAD5500-US-ES2 |
| 83 | PLASTIC CONTROL PANEL | 1 | KRAD5500-US-PCP |
| 82 | FAN SWICH | 1 | KRAD5500-US-FSW |
| 81 | HIGH PRESSURE SWICH | 1 | KRAD5500-US-HPS |
| 80 | LOW PRESSURE SWICH | 1 | KRAD5500-US-LPS |
| 79 | FUSE | 4 | KRAD5500-US-FUS |
| 78 | PHASE PROTECTION RELAY | 1 | KRAD5500-US-PHR |
| 77 | MOTOR THERMAL | 1 | KRAD5500-US-MTRL |
| 76 | HEAT EXCHANGER CONTACTOR | 1 | KRAD5500-US-EXCN |
| 75 | FAN CONTACTOR | 2 | KRAD5500-US-FCT |
| 74 | THERMINAL BLOCK PROTECTION | 3 | KRAD5500-US-TBP |
| 73 | THERM NAL BLOCK4 | 4 | KRAD5500-US-TRM4 |
| 72 | THERM NAL BLOCK3 | 9 | KRAD5500-US-TRM3 |
| 71 | THERM NAL BLOCK2 | 1 | KRAD5500-US-TRM2 |
| 70 | THERM NAL BLOCK1 | 24 | KRAD5500-US-TRM1 |
| 69 | CONTROLLER | 1 | KRAD5500-US-CTR |
| 68 | ELECTRICAL PANEL | 1 | KRAD1200-US-ELP |
| 67 | HINGE | 3 | KRAD5500-US-HNG |
| 66 | DOOR LOCK | 3 | KRAD5500-US-DLK |
| 65 | SWITCH CONNECTION FITTING | 3 | KRAD5500-US-SCF |
| 64 | CABLE GLAND PG11 | 2 | KRAD5500-US-CG11 |
| 63 | CABLE GLAND PG16 | 8 | KRAD5500-US-CG16 |
| 62 | CABLE GLAND PG7 | 8 | KRAD5500-US-CG7 |
| 61 | ELECTRICAL BOX | 1 | KRAD1200-US-ELB |
| 60 | SOLENOID VALVE COIL | 1 | KRAD5500-US-SVC |
| 59 | SOLENOID VALVE | 1 | KRAD5500-US-SVA |
| 58 | MEMBRAN VALVE | 1 | KRAD1750-US-MEV |
| 57 | DRAIN VALVE2 | 1 | KRAD5500-US-DRA2 |
| 56 | FITTINGS | 2 | KRAD5500-US-FTT |
| 55 | MANIFOLD BLIND CAP2 | 1 | KRAD5500-US-MBC2 |
| 54 | MANIFOLD BLIND CAP1 | 1 | KRAD5500-US-MBC1 |
| 53 | MANIFOLD REINFORCEMENT SHEET METAL | 1 | KRAD5500-US-MRS |
| 52 | DRAIN MANIFOLD | 1 | KRAD5500-US-DRM |
| 51 | DRAIN SLEEVE | 1 | KRAD1200-US-DRS |
| 50 | ROTOLOC ADAPTOR5 | 2 | KRAD5500-US-RTA5 |
| 49 | CUPPER T | 2 | KRAD5500-US-CPT |
| 48 | FILTER DRYER CLAMP | 1 | KRAD1200-US-FDC |
| 47 | DEHYDRATOR / FILTER DRIER | 1 | KRAD1200-US-DRI |
| 46 | EXPANSION VALVE | 1 | KRAD1750-US-EXP |
| 45 | DISTRIBUTOR | 1 | KRAD5500-US-DST |
| 44 | ROTOLOCK ADAPTOR4 | 2 | KRAD5500-US-RTA4 |
| 43 | ROTOLOCK SERVICE VALVE | 3 | KRAD5500-US-RSV |
| 42 | OIL SEPARATOR | 1 | KRAD1750-US-OSE |
| 41 | NUT M10 | 1 | KRAD1200-US-NUT10 |
| 40 | SUCTION ACCUMULATOR | 1 | KRAD1200-US-SUC |
| 39 | BY-PASS VALVE | 1 | KRAD1500-US-BYP |
| 38 | REINFORCEMENT SHEET METAL | 1 | KRAD1200-US-RSM |
| 37 | ROTOLOCK ADAPTOR3 | 2 | KRAD5500-US-RTA3 |
| 36 | LIQUID RECEIVER | 1 | KRAD1200-US-LIQ |
| 35 | BOLT M8x50 | 10 | KRAD5500-US-BLT850 |
| 34 | WASHER 22x8,2x2,4 | 10 | KRAD5500-US-WHR22 |
| 33 | OVERLOAD PROTECTOR | 1 | KRAD1200-US-OVP |
| 32 | COMPRESSOR ELECTRICAL BOX | 1 | KRAD1200-US-CEB |
| 31 | ROTOLOCK ADAPTOR2 | 3 | KRAD5500-US-RTA2 |
| 30 | CAPPILARY TUBE CONNECTION | 15 | KRAD5500-US-CTC |
| 29 | ROTOLOCK ADAPTOR1 | 3 | KRAD5500-US-RTA1 |
| 28 | COMPRESSOR | 1 | KRAD1200-US-CMP |
| 27 | DRAIN VALVE1 | 2 | KRAD5500-US-DRA1 |
| 26 | ELBOW FITTINGS | 6 | KRAD5500-US-EWF |
| 25 | T CONNECTION | 1 | KRAD5500-US-TCN |
| 24 | BALL VALVE | 1 | KRAD5500-US-BVL |
| 23 | ELBOW | 2 | KRAD1200-US-ELW |
| 22 | BOLT M5x12 | 4 | KRAD1200-US-BLT512 |
| 21 | TEMPERATURE SENSOR | 5 | KRAD5500-US-TMPS |
| 20 | INDICATOR GASKET 1 | 2 | KRAD1200-US-ING1 |
| 19 | FILTER GAUGE | 1 | KRAD1200-US-FTG |
| 18 | COMPRESSED AIR FILTER ELEMENT KIT (X) | 1 | KRAD1200-US-ELK-X |
| 17 | COMPRESSED AIR FILTER ELEMENT KIT (Y) | 1 | KRAD1200-US-ELK-Y |
| 16 | BOLT M8x15 | 8 | KRAD1200-US-BLT815 |
| 15 | CONNECTION KIT 2 | 2 | KRAD1200-US-CNK2 |
| 14 | ORING | 4 | KRAD1200-US-ORG |
| 13 | COUPLING CLAMP 2 | 4 | KRAD1200-US-CPG2 |
| 12 | CONNECTION KIT 1 | 2 | KRAD1200-US-CNK1 |
| 11 | COLLECTOR | 2 | KRAD1200-US-CLL |
| 10 | COUPLING CLAMP 1 | 8 | KRAD5500-US-CPG1 |
| 09 | HEAT EXCHANGER | 2 | KRAD1200-US-EXC |
| 08 | BOLT M6x30 | 48 | KRAD5500-US-BLT630 |
| 07 | CAGE NUT M6 | 48 | KRAD5500-US-CGN6 |
| 06 | CONDENSER REINFORCEMENT PLATE | 1 | KRAD5500-US-CRP |
| 05 | FAN PROTECTOR | 1 | KRAD5500-US-FPRT |
| 04 | BOLT M6x30 | 8 | KRAD5500-US-BLT630 |
| 03 | FAN | 2 | KRAD1200-US-FAN |
| 02 | CONDANSER | 1 | KRAD1200-US-CON |
| 01 | CABINET BASE | 1 | KRAD1200-US-CAB |
| ITEM | MATERIAL NAME | QTY | SPARE PART CODE |
| | PART | | |

9. COMPONENTS LOCATION

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

CAUTION: Due to manufacture design, some components out of the list are not installed into 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 |
| 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 into 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 |

10. TROUBLESHOOTING

| 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 high pressure 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 areverse 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. |

11.WARRANTY



Refrigerated Dryer (KRAD 10-1200) WARRANTY POLICY

When used under the conditions recommended by the manufacturer KELTEC, KRAD Dryer is warranted to be free from defects in material and workmanship for a period of twenty-four (24) months from date of receipt, not to exceed thirty (30) months from the factory ship date, provided KELTEC is furnished the customer's name, address, and date of shipment information.

The heat exchanger will be warranted for two (2) years. This warranty is limited to the replacement of the heat exchangers, F.O.B. Factory, and subject to the same restrictions as outlined below concerning misuse, abuse or accident. The standard equipment external float drain and optional automatic drain carry a 90-day 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 KELTEC During the life of this warranty, KELTEC will repair or replace (at KELTEC option) any defective part or assembly free of charge F.O.B. its warehouse if such defect occurred in normal service and was not due to apparent misuse, abuse or accident.

This Warranty is not transferable.

Any warranty service performed in the field must be authorized by KELTEC Unauthorized service voids the warranty and any resulting charges will not be paid by KELTEC

KELTEC makes no other warranties or guarantees, expressed or implied. The merchantability of the components is expressly excluded. The manufacturer assumes no liability for indirect or consequential damages.