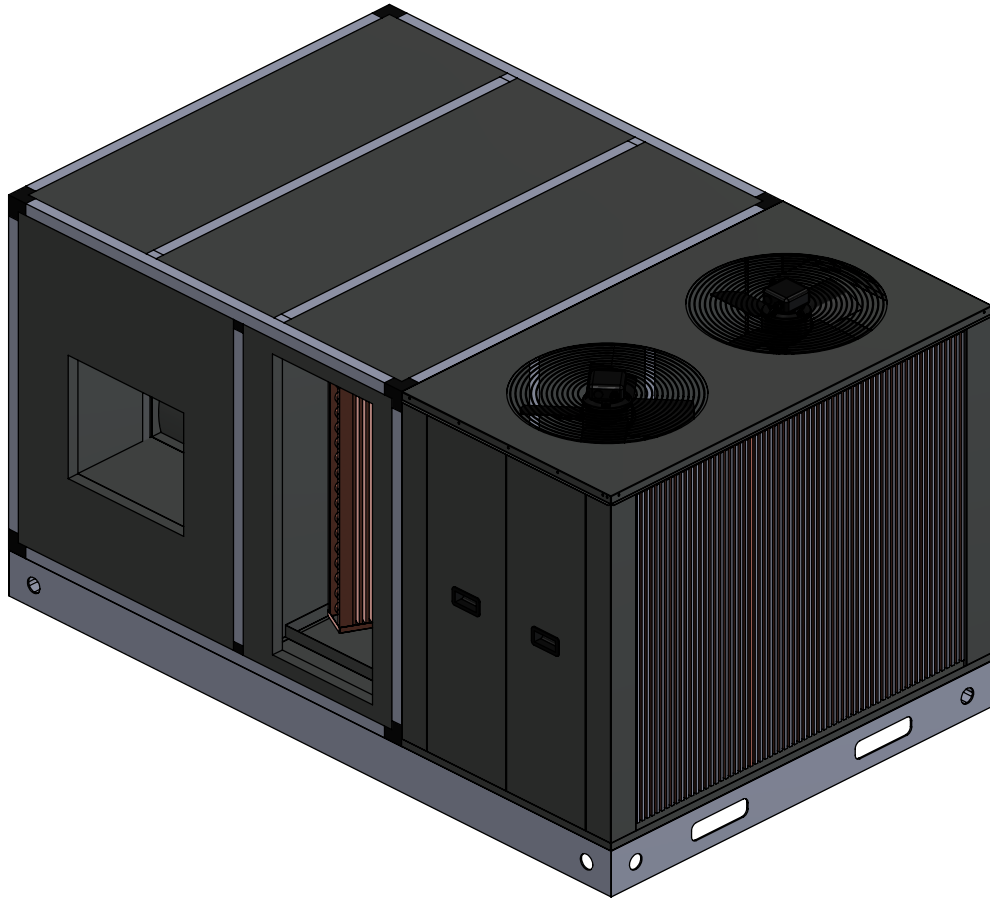




Commercial Manual  
**COSTERA Series**  
Air Cooled Horizontal Package Unit  
**10 TON**





- Condenser side manufactured in large galvanized steel sheet. Air Handling side made of 1" double-walled heavy-gauge galvanized steel panels with insulation.
- Powder coated paint system: For a long-lasting professional finish. Additional Modine-Luvata corrosion resistant spray added for extra protection.
- Scroll type compressor, which offers greater protection against liquid damage. More efficient throughout its operational range; It operates at lower sound and vibration levels than traditional compressors.
- Easy-access panel to compressors.
- Certified electric motor (PSC motor).
- Evaporator and condenser coil made of copper tubes and aluminum fins with added Modine-Luvata corrosion resistant spray.
- Compact unit of two cooling circuits.
- High and low pressure switches.
- Bi-metal electrical protector.
- High capacity filter dryer.
- Pulley-transmission centrifugal motor-fan coupling.
- Fully insulated evaporator-fan compartment with easy-access hinged panels.
- Stainless steel rivet-nut machine-threaded hex head screw-fixed service panels.
- Reinforced iron metal base with forklift openings.

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This document will provide relevant information about the equipment. All the information included in this manual is subject to changes without prior notice. The suggestions of this manual are addressed to the personnel in charge of planning, installing, implementing, and maintaining the equipment, having corresponding knowledge for the realization of these type of works.

	<b>WARNING</b>
<p>Installation, adjustment, alteration, service or maintenance can cause personal injuries, death, or property damage. The installation and service must be carried out by a professional or equivalent professional installer or a service agency.</p>	

	<b>CAUTION</b>
<p>Physical contact with edges while applying excessive force or rapid movement with metal can cause personal injury. Be careful when working near these areas during installation or during the service of this equipment.</p>	

# Precautions

In the following document you can find several useful suggestions on the ignition, use and maintenance of your air cooled horizontal package unit. Preventive care will help you save time and money during the useful life of the unit.

## Precaution

- Contact an authorized technician in case of requiring the repair or maintenance of this unit.
- Contact an authorized installer to install this unit.
- In case of replacement of supply cables, this activity can only be carried out by authorized personnel.
- The installation must be carried out only by authorized personnel in accordance with wiring standards.
- The electrical installation must be carried out in accordance with current legal norms.
- Make sure the electric service is adequate for the selected equipment model.
- Make sure the equipment is correctly installed. To avoid electrical discharges and possible fires, the correct connection is important.
- If the voltage supplied to this equipment is outside the specified range, the equipment will not work and this can cause the main components of the equipment (compressors - motors) and other electrical components to burn out.
- Do not store or use gasoline or other flammable products near this equipment or other artifacts.

Incorrect manipulation due to lack of knowledge of the instructions or suggestions described in this manual can harm the unit. We do not assume any responsibility for damages derived from incorrect, inappropriate or not planned use, or to consequences of unauthorized repairs or modifications. Keep in mind that this document is only valid for the specified equipment and not for complete installation.

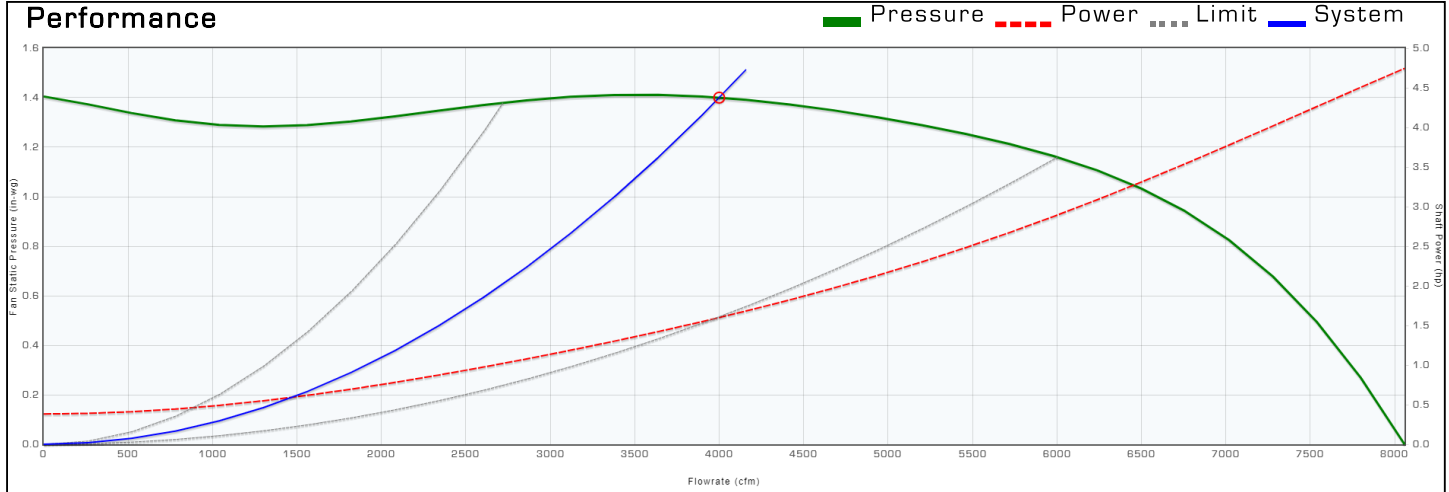
# Technical Specifications

	GXPk120DG4AB	GXPk120DG7AB
<b>GENERAL DATA</b>		
Cooling Capacity (BTU/h)	120,000	120,000
Cooling Tons	10	10
Efficiency <sup>(1)</sup> EER	11.8	11.8
<b>EVAPORATOR FAN</b>		
Transmission	Pulley	Pulley
Number of Fans	1	1
Rated Air Flow <sup>(1)</sup> (CFM)	4000	4000
Blower (DxW)	15 x 15	15 x 15
Number of Motors	1	1
Current (A)	5.2	2.6
Power (HP)	2	2
RPM	1800	1800
<b>EVAPORATOR COIL</b>		
Type (Tube / Fin)	Copper / Copper	Copper / Copper
Rows	3	3
Fins Per Inch	14	14
<b>CONDENSER FAN</b>		
Number of Fans	2	2
Type	Axial	Axial
Number of Motors	2	2
Current (A)	2.4	1.0
Power (HP)	1/3	1/3
RPM	825	825
Fan Diameter (mm)	558.8	558.8
<b>CONDENSER COIL</b>		
Type (Tube / Fin)	Copper / Copper	Copper / Copper
Rows	2	2
Fins Per Inch	17	17
<b>COMPRESSOR</b>		
Refrigerant	R410a	R410a
Quantity	2	2
Type	Scroll	Scroll
RLA <sup>(2)</sup>	17.8 / 16.0	8.6 / 7.8
LRA <sup>(3)</sup>	110.0	52.0
<b>ELECTRICAL DATA</b>		
V / Ph / Hz	( 208-230 / 3 / 60 )	( 460 / 3 / 60 )
Operating Current <sup>(1)</sup> (A)	46.0	22.0
Unit Total Amperage <sup>(1)</sup> (A)	46.0	22.0
Minimum Circuit Ampacity (A)	51.0	24.0
Max. Overload Protection (A)	68.0	33.0
<b>NET WEIGHT (kg)</b>	835	835
<b>GROSS WEIGHT (kg)</b>	845	845

**Notes:** <sup>1</sup> Data corresponding to a certain operation condition based on the AHRI 210/240 or 360 standard. <sup>2</sup> This Rated Load Amps data (RLA) corresponds to a single compressor. <sup>3</sup> This Locked Rotor Amps data (LRA) corresponds to a single compressor. <sup>4</sup> The information provided in the table can change without prior notice.

# Blower Performance Data

<b>Model</b> A15-15A	<b>Flow</b> 4000 cfm	<b>Pressure</b> 1.40 in-wg	<b>Temperature</b> 70 °F	<b>Altitude</b> 0 ft	<b>Density</b> 0.075 lb/ft <sup>3</sup>	<b>Q Derate</b> 0 cfm	<b>P Derate</b> 0.00 in-wg	<b>Vav Set Point</b> 0.00 in-wg
<b>Fan Tag</b>	<b>Flow</b> 4000 cfm	<b>Pressure</b> 1.40 in-wg	<b>Power</b> 1.60 hp	<b>Static Efficiency</b> 55.2 %	<b>Total Efficiency</b> 64.9 %	<b>Speed</b> 791 rpm	<b>Outlet Velocity</b> 1990 fpm	<b>Efficiency Rating</b> FEG71
	<b>Impeller Dia</b> 15.0 in	<b>Outlet Area</b> 2.01 ft <sup>2</sup>	<b>Max. Speed</b> 1600 rpm	<b>AMCA Class</b> 0	<b>Drive</b> Belt Drive	<b>Blades</b> 51	<b>P Volume</b> 7.32 ft <sup>3</sup>	<b>TurnDown</b> 100 %



<b>Sound(Lwi)</b>	63	125	250	500	1000	2000	4000	8000	Lw	LwA
	84	83	79	78	76	74	73	71	89	82

Notes: Airflow performance data are obtained in accordance with AMCA 210-07. Installed performance will vary depending on extent of cabinet geometry

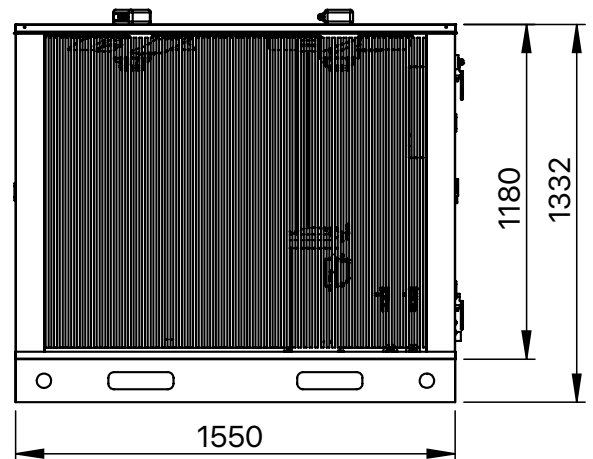
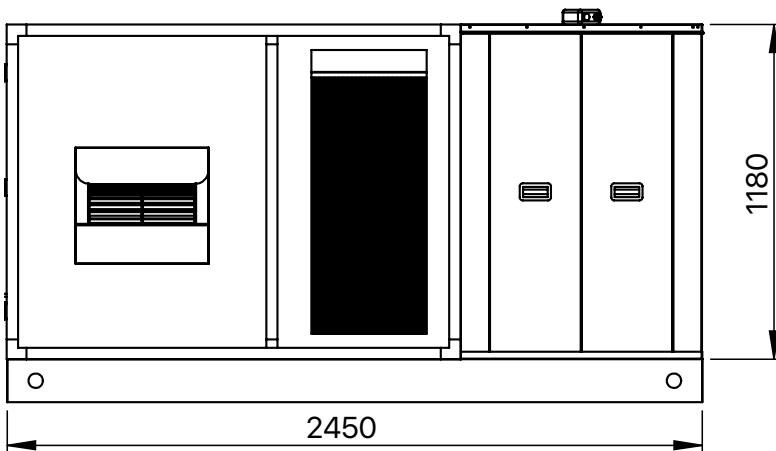
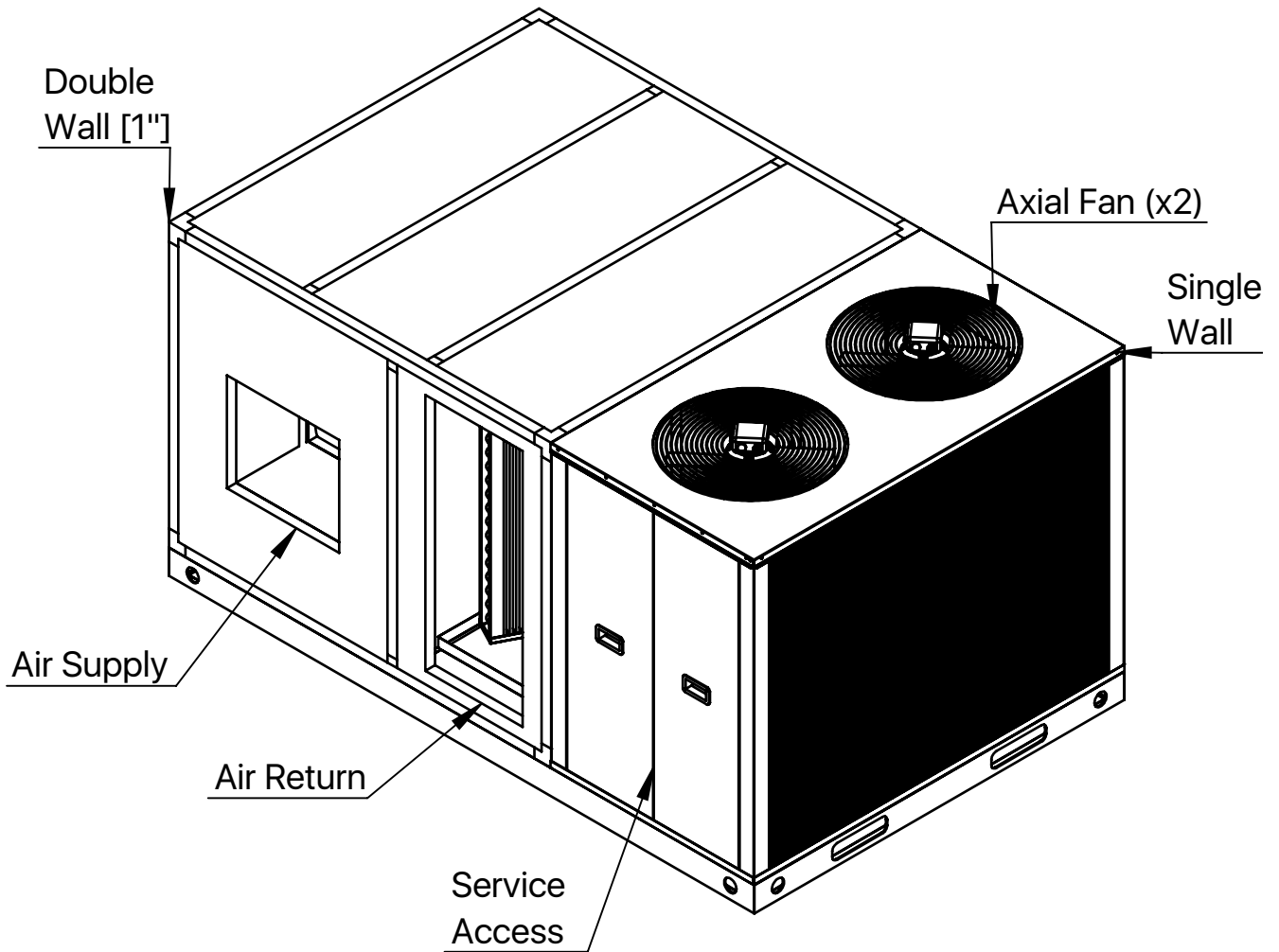
Sound data are estimated from industry experience for the type of product selected. Data should be used for comparison purposes only and do not represent installed values.

# System Performance Data

Airflow (CFM)	Ent DB (°F)	Ambient Temperature (°F)																									
		85						95						105													
		67						73						61													
		MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)					
2400	75	56	4	92	51	7	142	51	11	53	53	5	87	48	8	132	47	12	50	50	5	82	45	8	123	44	12
	80	68	5	92	64	7	142	62	11	64	64	6	87	60	8	132	58	12	60	60	6	82	56	8	123	54	12
	85	80	6	93	77	7	142	75	11	75	75	7	88	73	8	132	70	12	71	71	7	83	69	8	123	65	12
	90	92	7	98	91	8	142	88	11	87	87	8	92	86	8	132	82	12	82	82	8	86	81	9	123	76	12
	75	70	6	111	64	9	173	61	14	66	66	6	105	60	10	161	57	15	62	62	6	99	56	10	150	53	15
3200	80	85	7	111	80	9	173	77	14	80	80	7	105	75	10	161	72	15	75	75	8	99	71	10	150	67	15
	85	100	8	112	96	9	173	94	14	94	94	9	106	91	10	161	87	15	88	88	9	100	86	10	150	81	15
	90	116	9	120	114	10	173	110	14	109	109	10	113	108	10	161	102	15	102	102	10	106	102	11	150	95	15
	75	82	7	127	74	10	199	70	16	77	77	7	120	70	11	185	65	17	72	72	7	113	66	11	172	60	17
	80	100	8	127	93	10	199	89	16	94	94	9	120	88	11	185	83	17	88	88	9	113	83	11	172	77	17
4000	85	118	9	130	113	10	199	109	16	111	111	10	123	107	11	185	101	17	104	104	10	116	101	12	172	94	17
	90	136	11	140	137	11	199	129	16	128	128	12	132	129	12	185	120	17	120	120	12	124	121	12	172	112	17
	75	93	7	143	84	11	224	77	18	88	88	8	135	79	12	208	72	19	83	83	8	127	74	13	193	67	19
	80	113	9	143	106	11	224	101	18	107	107	10	135	100	12	208	94	19	101	101	10	127	94	13	193	87	19
	85	135	11	146	130	12	224	124	18	127	127	12	138	123	13	208	115	19	119	119	12	130	116	13	193	107	19
5600	90	155	12	156	156	12	224	147	18	146	146	13	147	147	13	208	137	19	137	137	14	138	138	14	193	127	19
	75	104	8	157	92	13	246	85	20	98	98	9	148	87	13	229	79	21	92	92	9	139	82	14	213	73	21
	80	126	10	157	119	13	246	112	20	119	119	11	148	112	13	229	104	21	112	112	11	139	105	14	213	97	21
	85	149	12	161	146	13	246	138	20	141	141	13	152	138	14	229	128	21	133	133	13	143	130	14	213	119	21
	90	173	14	174	174	14	246	164	20	163	163	15	164	164	15	229	152	21	153	153	15	154	154	15	213	141	21
Airflow (CFM)	Ent DB (°F)	Ambient Temperature (°F)																									
		115						120						125													
		67						73						61													
		MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC
2400	75	47	5	77	42	9	114	45	13	44	45	6	72	40	9	106	44	13	41	43	6	68	38	10	99	42	14
	80	57	6	77	53	9	114	56	13	53	54	7	72	50	9	106	54	13	50	52	7	68	48	10	99	52	14
	85	66	7	78	65	9	114	67	13	62	64	8	73	61	9	106	65	13	59	61	8	69	58	10	99	63	14
	90	77	7	81	76	9	114	79	13	72	74	9	76	72	10	106	76	13	68	71	10	72	69	10	99	74	14
	75	58	6	93	53	10	139	55	15	55	56	7	87	50	11	130	53	16	52	54	7	82	48	12	120	51	17
3200	80	71	8	93	66	10	139	69	15	66	68	8	87	63	11	130	67	16	62	65	9	82	60	12	120	65	17
	85	83	9	94	80	10	139	83	15	78	80	10	88	76	11	130	81	16	73	77	10	83	73	12	120	78	17
	90	96	11	100	95	11	139	98	15	91	92	11	94	91	12	130	95	16	85	89	12	88	86	13	120	92	17
	75	68	8	106	62	12	160	62	18	64	65	8	100	59	12	149	60	19	60	63	9	94	56	13	138	59	20
	80	83	9	106	78	12	160	80	18	78	80	10	100	74	12	149	77	19	73	77	10	94	70	13	138	75	20
4000	85	98	11	109	95	12	160	97	18	92	94	12	102	90	13	149	94	19	87	90	12	96	85	14	138	91	20
	90	113	13	117	114	13	160	115	18	106	109	13	110	108	14	149	111	19	100	104	14	103	103	15	138	108	20
	75	78	9	119	70	13	180	69	20	73	75	9	112	66	14	167	67	21	69	72	10	105	63	15	156	65	22
	80	95	11	119	88	13	180	90	20	89	91	11	112	84	14	167	87	21	84	87	12	105	80	15	156	85	22
	85	112	12	122	109	14	180	110	20	105	108	13	115	103	14	167	107	21	99	103	14	108	98	15	156	104	22
5600	90	129	14	130	130	14	180	131	20	121	124	15	122	123	15	167	127	21	114	119	16	115	117	16	156	123	22
	75	87	10	131	77	15	198	76	22	81	83	10	123	73	15	184	73	23	77	80	11	116	69	17	171	71	24
	80	105	12	131	99	15	198	100	22	99	101	12	123	94	15	184	97	23	93	97	13	116	89	17	171	94	24
	85	125	14	134	122	15	198	123	22	117	120	15	126	116	16	184	119	23	110	115	16	119	110	17	171	115	24
	90	144	16	145	145	16	198	146	22	135	138	17	136	138	17	184	141	23	127	133	18	128	131	18	171	137	24

Notes: <sup>1</sup> Data corresponding to a certain condition. The capacities described do not take into account the heat generated by the indoor fan.  
<sup>2</sup> MBh = Total Gross Capacity. <sup>3</sup> SHC = Sensible Heat Capacity.

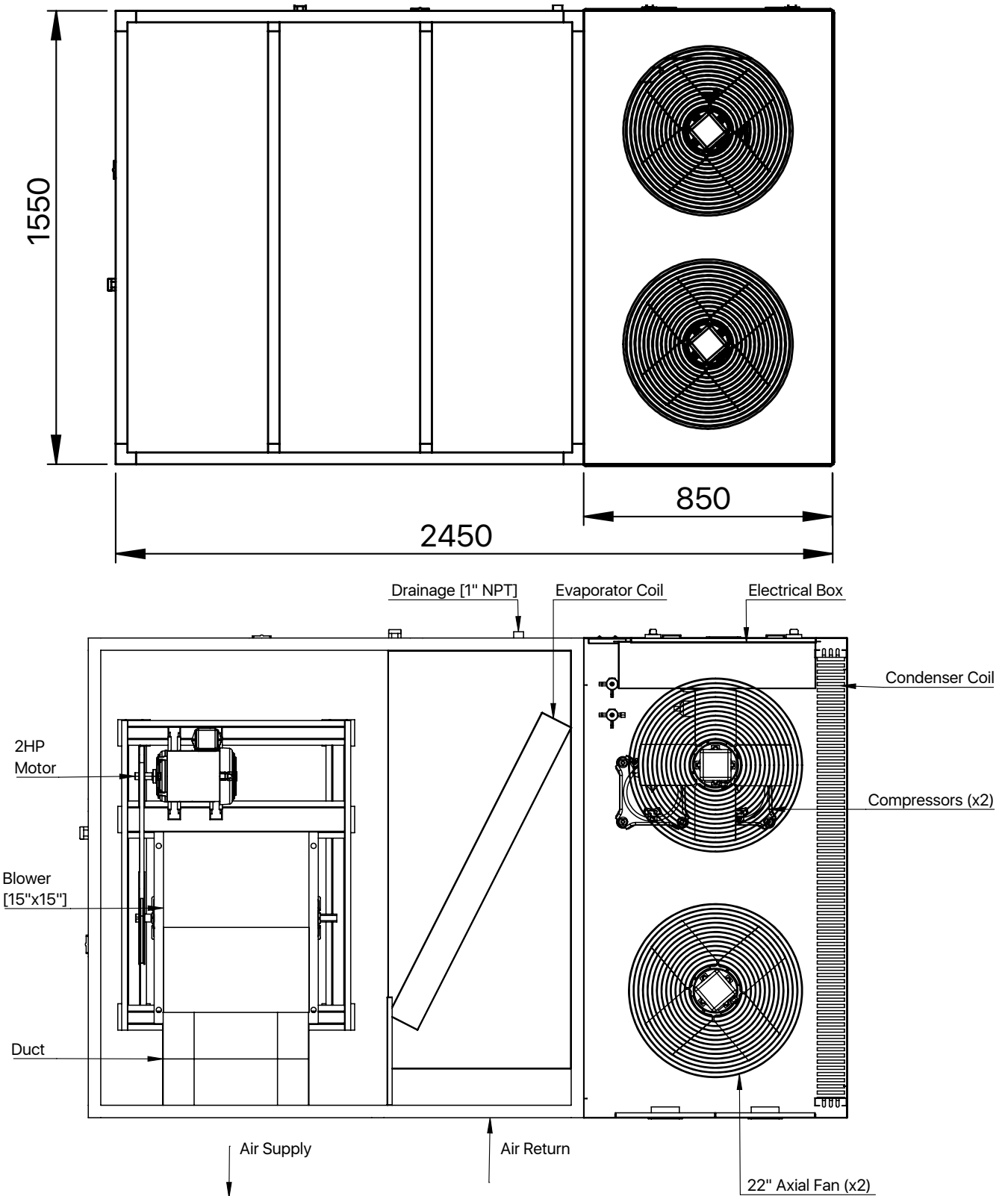
# Unit Dimensions



Note: All measurements are in millimeters (mm).

# Unit Dimensions

## TOP VIEW

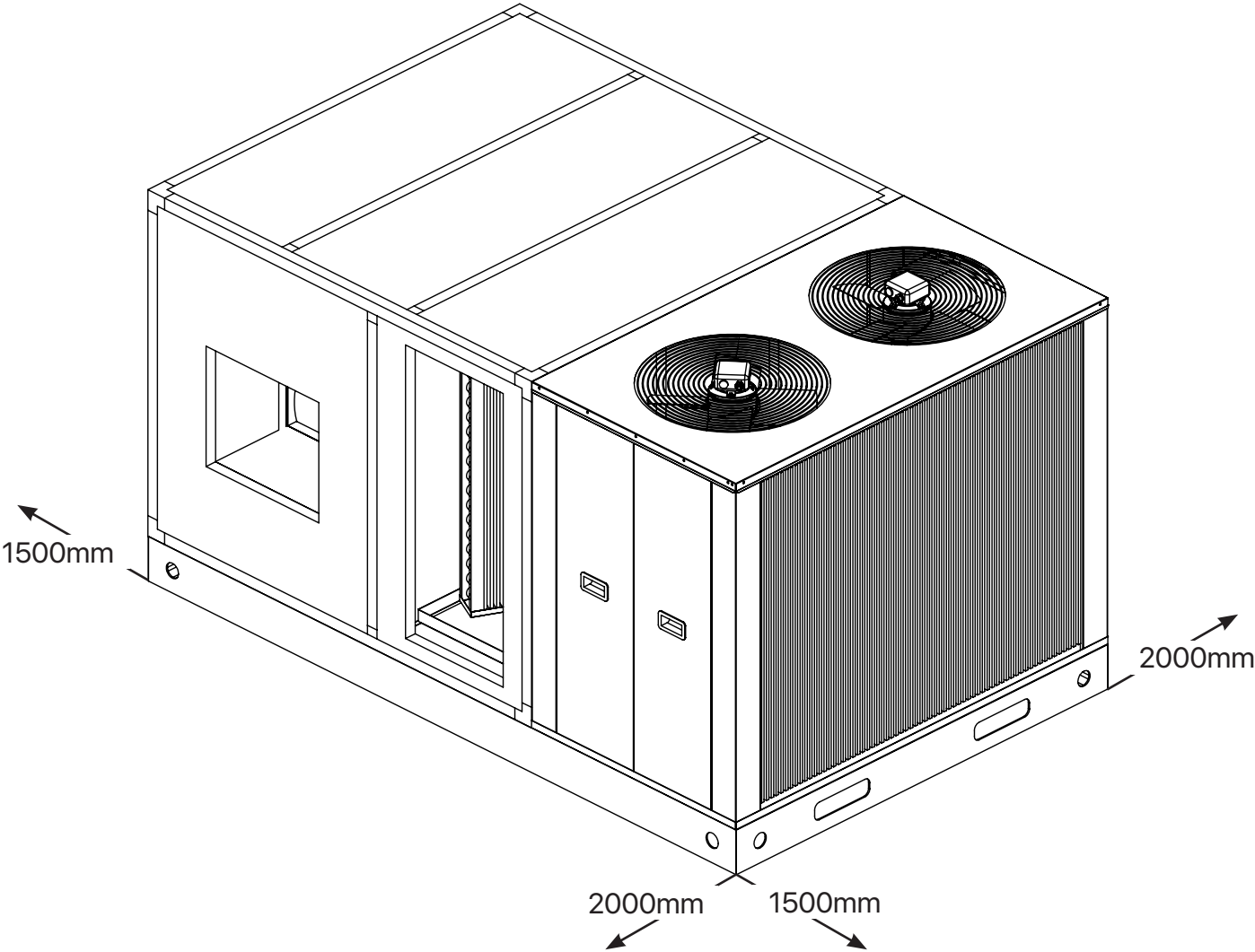


Note: All measurements are in millimeters (mm).

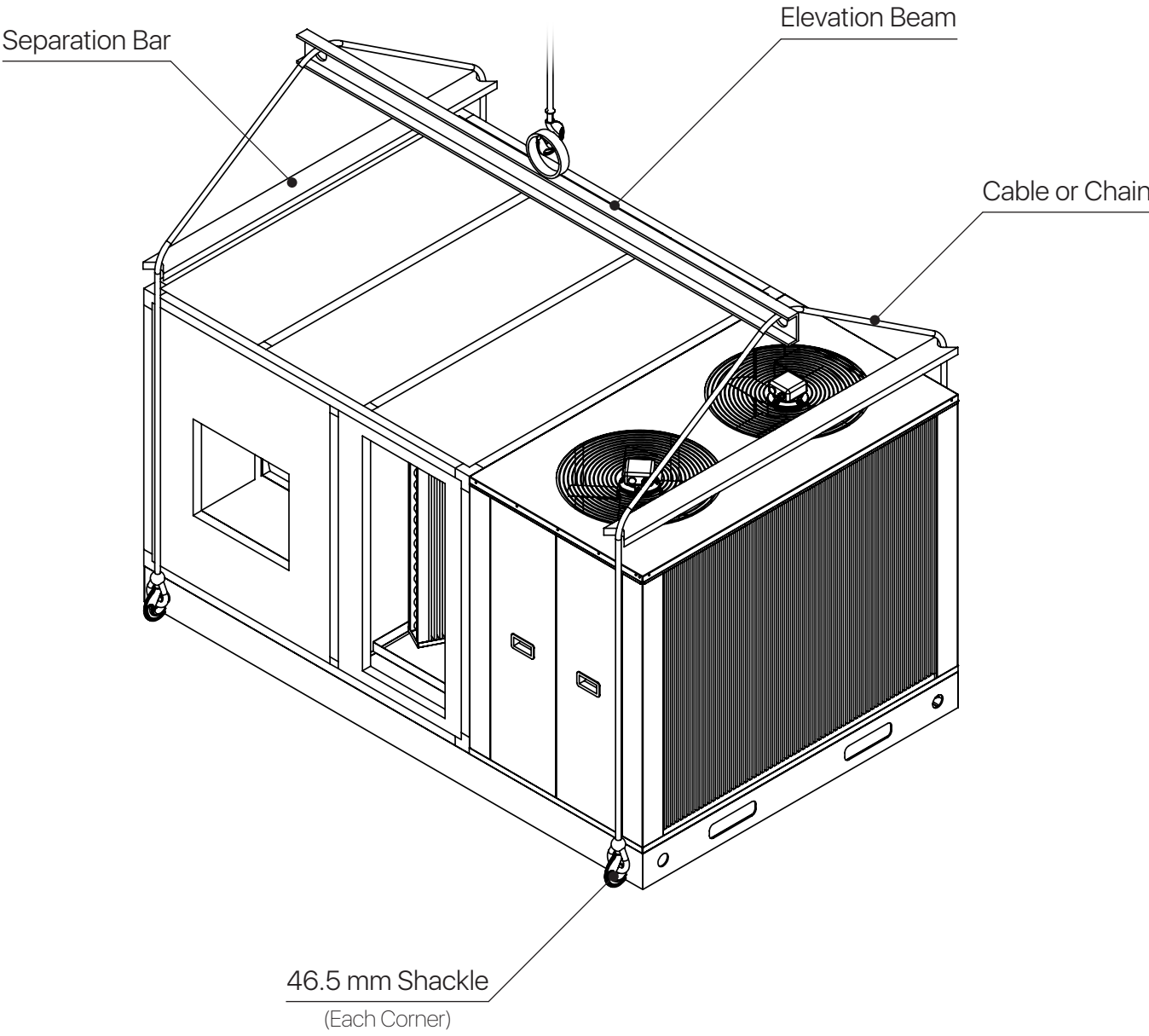


# Safety Distance

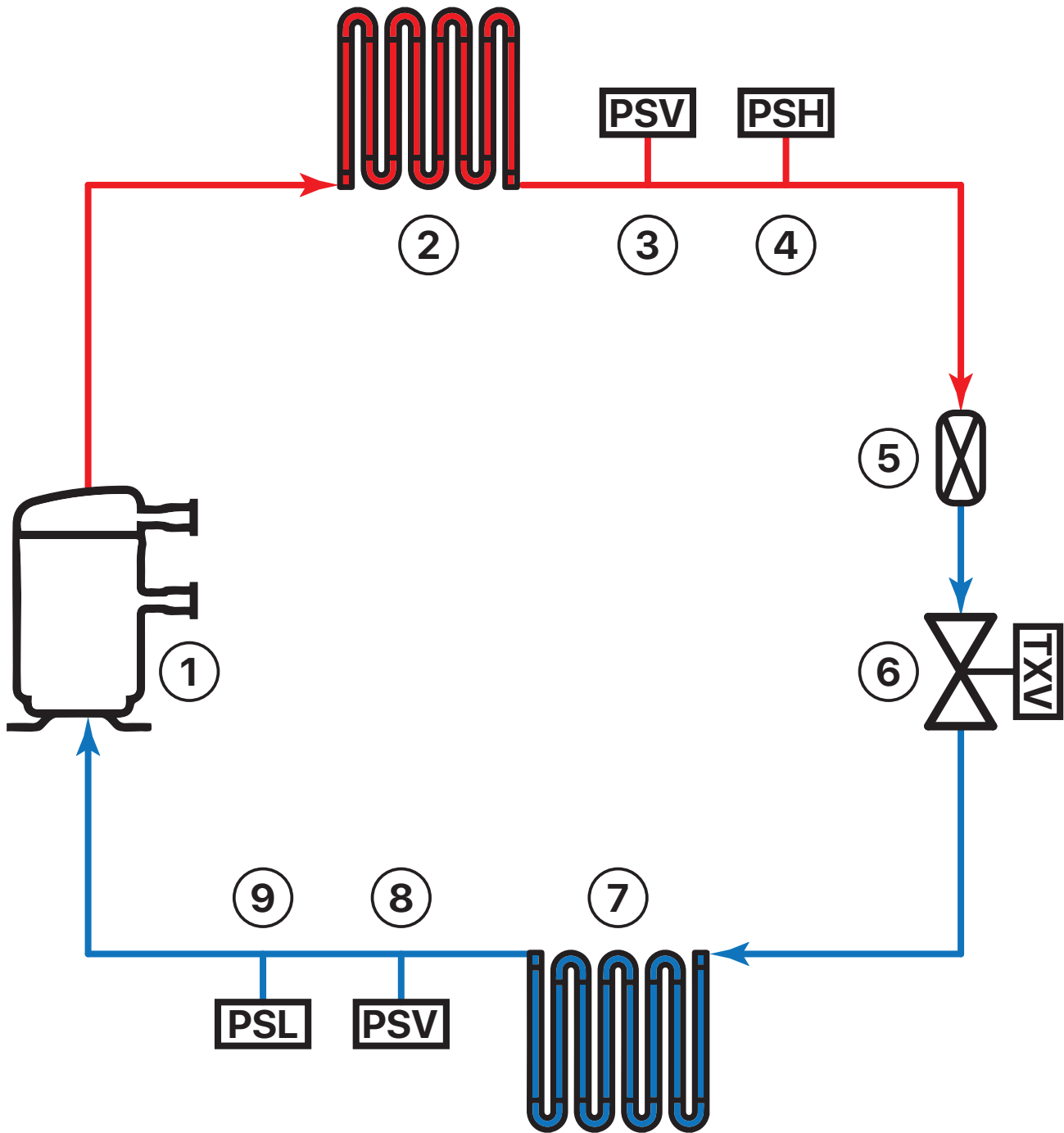
The following minimum free spaces must be observed for the proper performance and capacity of the unit.



# Safe Handling



# Refrigeration Diagram



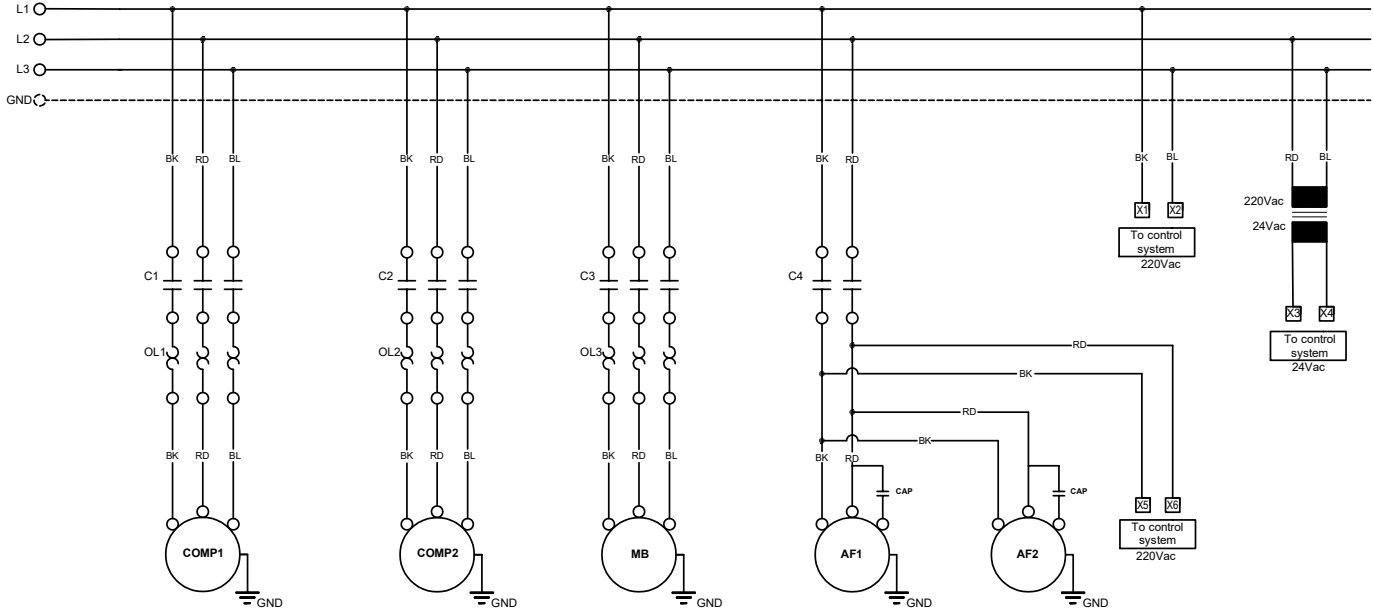
REF.	DESCRIPTION
1	SCROLL COMPRESSOR
2	CONDENSER COIL AND AXIAL FAN
3	ACCESS VALVE FOR PRELOAD AND CONTROL
4	HIGH PRESSURE SWITCH
5	FILTER DRYER

REF.	DESCRIPTION
6	EXPANSION VALVE (TXV)
7	EVAPORATOR COIL AND BLOWER FAN
8	ACCESS VALVE FOR PRELOAD AND CONTROL
9	LOW PRESSURE SWITCH

# Electric Diagram

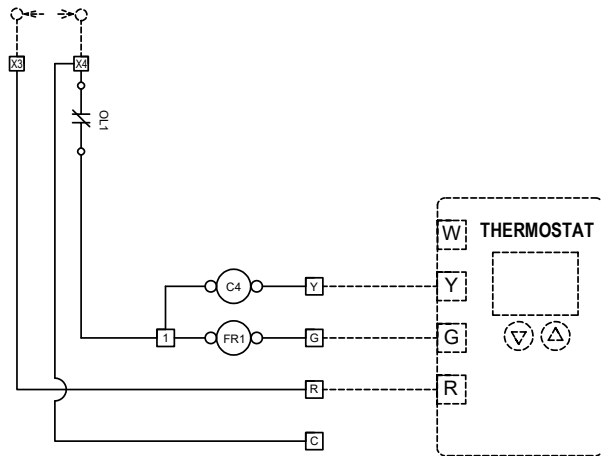
While performing the electrical installation, the authorized technician must verify that they are complying with the electrical circuit of the equipment shown below:

## 208V-230V / 3PH / 60Hz (POWER)



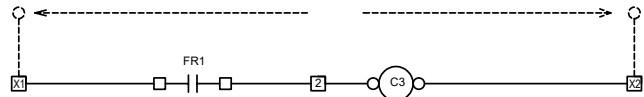
## (CONTROL)

24Vac/1PH/60Hz

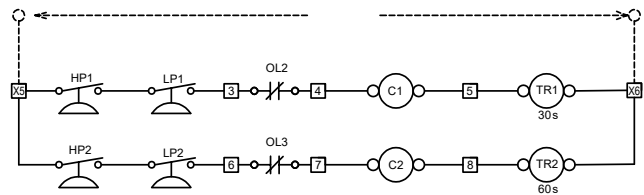


Use points C & R to power thermostats that require external 24Vac.

220Vac/1PH/60Hz



220Vac/1PH/60Hz  
Contactor C4



## WARNING

**High Voltage:** Disconnect all supply source before manipulating this unit. Multiple energy sources can be present. Not doing so can cause property damage, personal injury or death.

### Elements:

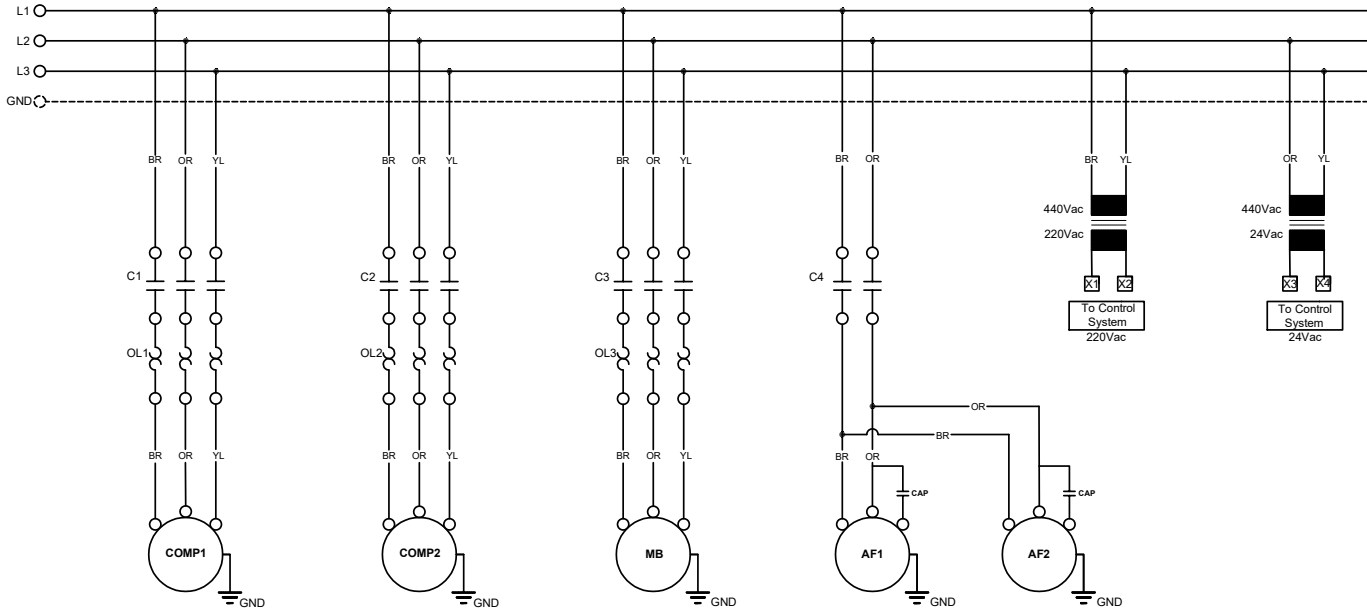
- COMP: Compressor
- MB: Blower Motor
- MV: Condenser Motor
- L: AC Supply Lines
- FR: Auxiliary Relay
- G: Fan Signal
- Y: Condenser Signal
- W: Dehumidifier Signal (N/A)
- R: Common 24Vac Lines
- C: Auxiliary 24Vac Lines

- HP: High Pressure Switch
- LP: Low Pressure Switch
- TR: Timer
- C1: Contactor
- OL: Thermal Relay
- GND: Ground
- : Factory Wiring
- - -: Field Wiring

# Electric Diagram

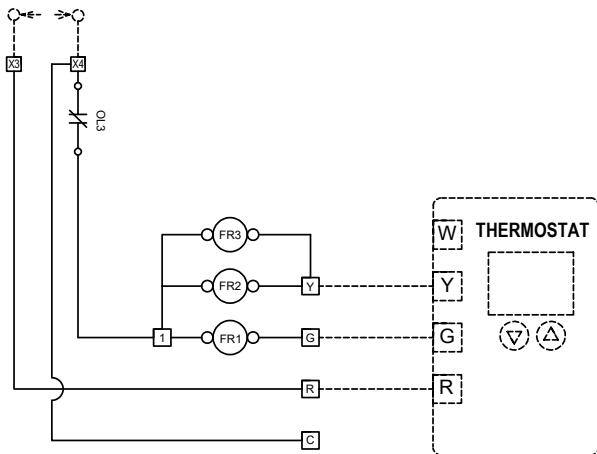
While performing the electrical installation, the authorized technician must verify that they are complying with the electrical circuit of the equipment shown below:

## 460V / 3PH / 60Hz (POWER)



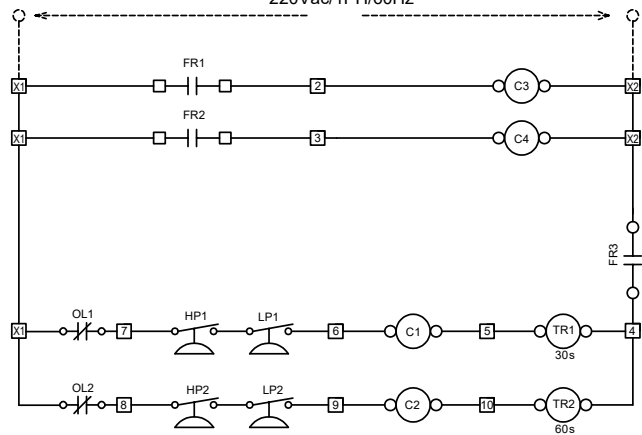
## (CONTROL)

24Vac/1PH/60Hz



Use points C & R to power thermostats that require external 24Vac.

220Vac/1PH/60Hz



## WARNING

**High Voltage:** Disconnect all supply source before manipulating this unit. Multiple energy sources can be present. Not doing so can cause property damage, personal injury or death.

### Elements:

- COMP: Compressor
- MB: Blower Motor
- MV: Condenser Motor
- L: AC Supply Lines
- FR: Auxiliary Relay
- G: Fan Signal
- Y: Condenser Signal
- W: Dehumidifier Signal (N/A)
- R: Common 24Vac Lines
- C: Auxiliary 24Vac Lines

- HP: High Pressure Switch
- LP: Low Pressure Switch
- TR: Timer
- C1: Contactor
- OL: Thermal Relay
- GND: Ground
- : Factory Wiring
- - -: Field Wiring

# Suggestions for Installation

The conditions that must be taken into account in general before installing the equipment:

**The works on the units must be carried out only by professionals. Do not connect the power supply until all the work is finished.**

## Considerations to take into account

1. It is very important in direct transmission equipment that air outlets are not linked in the same duct before a minimum distance of 1.5 meters and preferably at a distance of 2 meters.
2. Make sure the suspension support is strong enough to support the weight of the unit.
3. Most of the equipment weight is located in the refrigerant condensation zone, take into account for the installation of the base where the equipment will rest.
4. Select a place for an easy drainage connection. It is important to install a drainage trap.
5. Be sure to install the equipment level to ensure proper operation of the unit.
6. Select a place far from gases or explosive or combustible materials.
7. Preview the necessary free spaces for maintenance and technical assistance services.
8. Verify that the model, options and tension, indicated in the characteristics plate are correct.
9. Verify that the energy supply meets the specifications that appear on the equipment plate.
10. All field wiring must be carried out by duly qualified personnel. The wiring must be adjusted to the applicable local regulations.
11. Siga los requerimientos apropiados que establecen el código eléctrico nacional sobre las conexiones a masa.
12. Follow the appropriate requirements that establish the National Electric Code on mass connections.
13. Visually inspect the exterior of the unit, including the ceiling, to detect possible signs of damage during transport.
14. Perform a visual verification of the internal components to identify whether there is transport damage, as soon as possible, after the reception of the unit.
15. Avoid obstructions in the supply and return of air so the inner air will circulate properly.

# Suggestions for Ignition

Briefly, the steps for the ignition and commissioning of the equipment are as follows (only an authorized technician can do it):

**Never do work without the help of professionals. Before making any connection, be sure not to have connected or energized the equipment or sources of equipment until all the work is finished.**

## Steps for ignition of the unit

1. From the breaker box, take electric power to the equipment. Verify that the capacity of the disjunct is the required to protect the equipment.
2. Connect lines to the power beams, indicated as L1 and L2 of the electric box or L1, L2 and L3 for three-phase equipment.
3. Confirm that the ground connection is reliable and that the ground cable is connected to the special device of the building. Never connect the ground cable with gas, water, telephone cables, etc.
4. From the equipment, wire the three control lines R, G, Y & O\*, indicated in the electric box to the respective thermostat terminals.
5. The operation of the air conditioning system is controlled by the interior thermostat. You must adjust the thermostat to a set temperature (set point) to keep the interior temperature at the level you select.
6. The frequent thermostat movement produces faster cycles, which is potentially harmful to the compressor. For no reason move the thermostat temperature selector for at least 5 minutes after the compressor has turned off.
7. Ensure that all connections are correctly made, subject and according to the electrical diagrams provided.
8. Action switches (installed in the field) to energize the equipment.
9. Supply sufficient electrical capacity and respect the electrical cable section necessary for specified consumption.

# Maintenance Recommendations

With due maintenance and care, the air conditioning unit will work successfully. Before maintaining, consider the following security precautions:

## **WARNING!**

**To prevent damage to the equipment and personal injury or death, disconnect all electricity supply to the equipment before removing access panels to perform some maintenance work. Disconnect electricity to the interior and exterior units.**

**NOTE:** It is possible that there is more than one electric disconnection switch.

## **WARNING!**

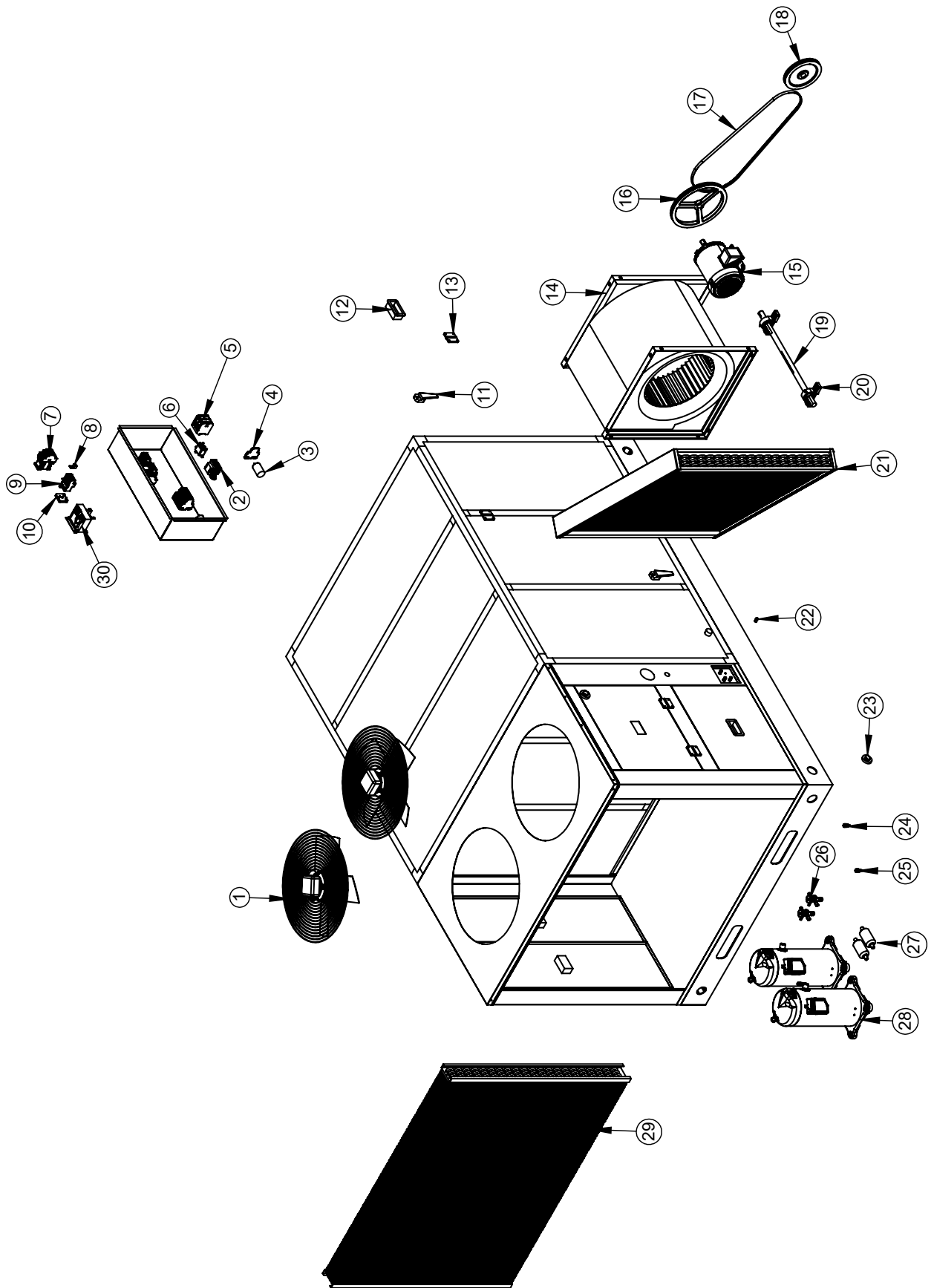
**Although special care has been taken to minimize acute edges in the construction of your equipment, be extremely careful when handling the pieces or putting your hand inside it.**

## **Recommendations**

1. Clean the air filter carefully, this in order to avoid a restricted air flow, which decreases the efficiency of the unit and its useful life.
2. Check the status of the evaporator coil. It is ideal that there is no obstruction, in order to guarantee the free flow of the coil.
3. In case it is necessary to clean the coil, you can do it with a detergent solution and rinse it with water. This may require coil extraction. Be careful not to fold or damage the fins.
4. Do not allow waste to accumulate around the unit or above it.
5. Periodically inspect the equipment power. Make sure to have the necessary power for the operation of this. The current of the main components of the system must be monitored according to the equipment plate.
6. Periodically inspect work pressures in the system (high and low pressure). They should not exceed their operation rank in normal use conditions.
7. It is recommended to verify parameters such as overheating and refrigerant overcooling. Which under normal conditions of use will have values between 8 and 15 ° F for overheating, and values between 5 and 15 ° F in overcooling.
8. Periodically review the condenser fan status to avoid dirt or friction between sheets that can unbalance the fans.
9. Periodically review that there is no obstruction in the equipment drainage to avoid overflowing water from the equipment.



# Exploded View



# Parts List - GXPK120DG4AB

REF.	PART NAME	QTY.	PART NUMBER
1	AXIAL FAN 22IN DIAMETER	2	21010015
2	TRANSFORMER 440V TO 24V 75VA	1	15110013
3	7,5 X 370 - 440V CAPACITOR	1	11010002
4	CONTROL TERMINAL BLOCK	12	13110010
5	POWER TERMINAL BLOCK	3	13110008
6	FAN RELAY	1	15010002
7	18A-3P-220V CONTACTOR	2	13030052
7.1	9A-3P-220V CONTACTOR	1	13030056
7.2	2P-24V CONTACTOR	1	13010002
8	GROUNDING TERMINAL BLOCK	1	13110007
9	7-10 AMP THERMAL RELAY	2	13031073
9.1	1.8-2.8 AMP THERMAL RELAY	1	13031090
10	TIMER	1	16010001
11	NYLON HANDLE	8	51110010
12	LARGE RECESSED HANDLE	4	59040001
13	HINGE	4	59040014
14	15" X 15" X 1" CENTRIFUGAL FAN	1	20010033
15	2HP THREE-PHASE MOTOR	1	10060002
16	DRIVING PULLEY BK115H	1	53031289
16.1	DRIVING PULLEY BUSHING TYPE H 1"	1	53041002
17	DRIVE BELT B63	1	53040022
18	DRIVEN PULLEY BK52H	1	53031285
18.1	DRIVEN PULLEY BUSHING TYPE H 7/8"	1	53041001
19	1" AISI 4140 STEEL SHAFT X 65CM	1	73210015
20	1" PILLOW BLOCK	2	53020001
21	12TR EVAPORATOR HEAT EXCHANGER	1	1EA1403-38040X
22	1/4" X 0.032" X 2" ACCESS VALVE	2	16C056002
22.1	1/4" X 0.032" X 2" ACCESS VALVE WITH NUT	2	16C056001
23	1/4" METAL CLOSURE	1	59040003
24	R410 LOW PRESSURE SWITCH 55-95	2	31020017
25	R410 HIGH PRESSURE SWITCH 610-420	2	31020016
26	5TR R410 EXPANSION VALVE	2	31040019
27	1/2" FILTER DRYER	2	23010012
28	5TR SCROLL TYPE COMPRESSOR	2	14021281
29	10TR CONDENSER HEAT EXCHANGER	1	1CA1303-46056

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28	5TR SCROLL TYPE COMPRESSOR	2	14021281
29	10TR CONDENSER HEAT EXCHANGER	1	1CA1303-46056
30	440V A 220V 100VA TRANSFORMER	1	15110014







In accordance with its continuous progress policy and product improvement, Goodman reserves the right to make changes without prior notice.