

# Commercial Manual COSTERA Series

Air Cooled Horizontal Package Unit **60 TON** 



- Manufactured in large galvanized steel sheet.
- 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.
- Serpentin evaporator and condenser made of copper tubes and aluminum fins.
- Easy-access panel to compressors.

- Certified electric motor (PSC motor).
- Compact unit of four 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.



#### **WARNING**

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.



#### **CAUTION**

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.

### **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**

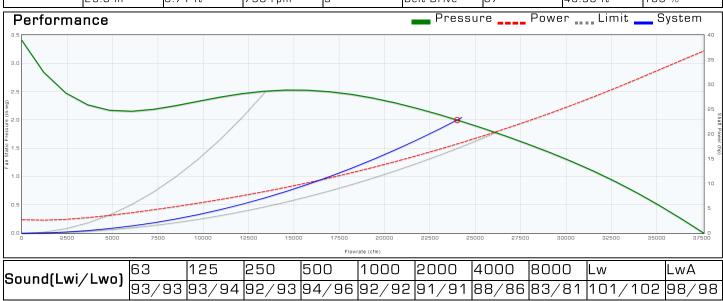
	GXPK720DG4AB	GXPK720DG7AB
OFNEDAL DATA	GAPR/20DG4AB	GAPR/20DG/AB
GENERAL DATA	700.000	700.000
Cooling Capacity (BTU/h)	720,000	720,000
Cooling Tons	60	60
Efficiency <sup>(1)</sup> EER	11.8	11.8
EVAPORATOR FAN		
Transmission	Pulley	Pulley
Number of Fans	1	1
Rated Air Flow <sup>[1]</sup> (CFM)	24000	24000
Blower (DxW)	25 x 25	25 x 25
Number of Motors	1	1
Current (A)	47.0	23.5
Power (HP)	20	20
RPM	1800	1800
EVAPORATOR COIL		
Type (Tube / Fin)	Copper / Aluminum	Copper / Aluminum
Rows	4	4
Fins Per Inch	12	12
CONDENSER FAN		
Number of Fans	4	4
Туре	Axial	Axial
Number of Motors	4	4
Current (A)	6.4	3.7
Power (HP)	1918	2143
RPM	1057	1055
Fan Diameter (mm)	800	800
CONDENSER COIL		
Type (Tube / Fin)	Copper / Aluminum	Copper / Aluminum
Rows	4	4
Fins Per Inch	13	13
COMPRESSOR		
Refrigerant	R410a	R410a
Quantity	4	4
Туре	Scroll	Scroll
RLA <sup>[2]</sup>	62.1 / 55.8	29.3 / 26.3
LRA <sup>[3]</sup>	340.0	179.0
ELECTRICAL DATA		
V / Ph / Hz	(208-230/3/60)	(460/3/60)
Operating Current <sup>[1]</sup> (A)	321.0	156.0
Unit Total Amperage <sup>[1]</sup> (A)	321.0	156.0
Minimum Circuit Ampacity (A)	337.0	163.0
Max. Overload Protection (A)	400.0	193.0
NET WEIGHT (kg)	2641	2641
GROSS WEIGHT (kg)	2660	2660

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



### **Blower Performance Data**

Model A25-25H	<b>Flow</b> 24000 cfm	Pressure 2.00 in-wg		Altitude Oft	Density 0.075 lb/ft <sup>3</sup>			<b>Vav Set Point</b> 0.00 in-wg
Fan Tag	<b>Flow</b> 24000 cfm				Total Efficiency 58.7 %	<b>Speed</b> 608 rpm	Outlet Velocity	Efficiency Rating FEG75
J	Impeller Dia 25.0 in		<b>Max. Speed</b> 790 rpm			Blades 37		TurnDown 100 %



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.

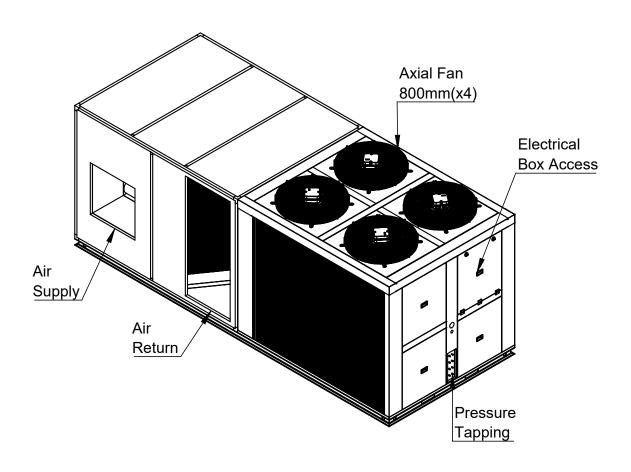
## **System Performance Data**

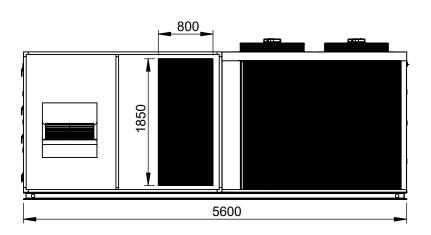
													An	bient Te	Ambient Temperature (°F)	re (°F)											
						82									95								105				
Airflow	Ent DB													Wet Bu	Wet Bulb Inlet (°F)	<u>ا</u>											
<u> </u>	:		61			67			73			61			67		7	73		61			67			73	
		MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh	SHC PI	PI(KW)	MBh	SHC PI(	PI(KW) ME	MBh SF	SHC PI(KW)	W) MBh	3h SHC	C PI(KW)	W) MBh	SHC	PI(KW)	) MBh	SHC	PI(KW)
	75	424	374	34	674	351	24	940	336	75	399	352		-							0 37	296		09	813	291	8
19200	80	460	460	37	674	428	54	950	416	76	432	432	68 3	634 4	402	82 2	884 38	387 80	406	96 406		596	378	8 8	822	360	82
	ç 06	934	608	5 4 4	683	585	55	920	568	9/	572	572												8 8	822	427	82
	75	461	412	37	731	385	58	1023	364	82	433	387												92	882	315	88
0	80	504	504	40	730	468	28	1022	449	83	474	474												- 65	884	388	88
71600	82	989	586	47	734	554	29	1033	538	83	551	551		069	521 (	63 66	961 50	500 87	518	8 518		649	490	92	893	465	68
	6	299	299	53	741	642	59	1023	619	82	627	627			$\dashv$			$\dashv$	589			655		92	882	535	88
	75	493	446	33	785	415	63	1101	391	88	463	419	45			67 10:		364 93					367	69	952	338	92
24000	80	574	547	46	992	208	61	1101	419	88	240	514						390			3 51	677	449	89	952	362	92
2	82	635	635	21	788	602	63	1101	277	88	297	265	24					37 93						70	952	499	92
	90 F	724	724	82 5	799	669	64	1102	670	88 8	681	681	+	+		+	+		+	+	+	+	+	i A	953	579	32
	٠, %	929	480	7 42	836	444	/9	966	346	0 0	494	451	45	786	717	6 6 	926 32	322 84	465	55 424		739	392	4 5	861	299	9 %
26400	82	684	684	55	839	647	67	994	549	8 8	643	643									60			7 7	860	475	8 8
	06	779	779	62	852	753	89	994	649	80	732	732											665	75	860	561	98
	75	258	513	45	884	472	71	1051	366	84	525	482	_	831	444		22 27	340 89	_	3 453	3 49	781	417	78	606	317	91
28800	80	628	628	20	883	581	77	1050	473	84	290	290	54			-	-							78	806	409	9
	85	730	730	28	888	691	71	1051	583	84	989	989		832 (	650									78	606	504	9
	06	832	832	67	902	807	72	1051	691	84	782	782	71	851	759		79 2/26	643 89	735	35 735	5 74	800	713	8	606	298	9
													An	bient Te	Ambient Temperature (°F)	re (°F)			-								
Airflow	2					112									120								125				
(CFM)	(F)												+	Wet Bulb Inlet	lb Inlet (°F)	6			-			-					
	·		61			67			73			61			67	+	73	e		61	_		67			73	
		MBh	SHC	PI(KW)	MBh	SHC	PI(KW)	MBh		PI(KW)	MBh		5	_	SHC PI(	5	MBh SHC	죠	W) MBh	-	₫	_		PI(KW)	MBh	왕	PI(KW)
	75	352	311	39	260	292	62	756	339	84	331	298	4			99	-				9			7	654	319	63
19200	80 r	382	382	45	560	355	62	764	418	. 85 . r	359	367		526	338		117	405 89	338	352			321	7 7	661	393	94
	3 8	1 1	1 1	) n	000	1 0	3 8	1 0	3 6	2 0	, t	100						50 00				1 0 5		- ;	5 6	- 0	\$ 5
	75	383	342	43	200	320	6 2	823	371	8 6	360	329	+	+	+	+	+	+	+	+	+	+	+	7 12	712	349	102
	80	419	419	47	909	389	29	822	455	9	393	402	49			71 76		441 96						77	711	428	102
71900	85	487	487	54	610	460	89	831	544	95	458	467	22	573 /	437 7		773   52	528 97	, 430	30 449		539	415	77	719	512	103
	06	554	554	62	615	533	89	823	632	9	521	532	92	579		$\dashv$	765 67	-	90	-		544	481	78	712	595	102
	75	409	370	45	652	345	72	988	394	86	382	356				77 82					1 52			82	766	371	109
24000	80	477	454	23	636	422	7 2	886	491	86 0	448	436	92 6	598	401		824 47	476 103	3 421	21 419		562	381	8 8	766	462	109
	8 6	601	601	67	664	581	5 42	886	985	, &	565	577												8 8	767	645	19
	75	437	399	49	694	369	77	801	420	68	411	383								-				88	693	395	66
000	80	489	489	54	694	453	77	800	529	68	460	470	22	652 4	430 8			513 93	3 432	32 451		613	409	88	692	498	66
70400	82	268	268	63	269	537	77	800	930	68	534	545			511 8		744 6′	611 93	3 502		4 72	616	485	88	692	293	66
	06	647	647	72	708	625	79	800	735	88	809	621	$\dashv$	$\dashv$	594 8	-		713 93	3 572	$\dashv$	$\dashv$	625	564	8	692	692	66
	75	463	426	51	734	392	82	845	444	94	436	409	24			86 78		31 98			3 29			69	731	418	104
28800	80	522	522	28	733	483	8	845	222	94	490	201				-									730	524	104
	82	909	909	29	738	574	82	845	671	94	220	285									77 6			83	731	631	104
	06	691	169	77	752	670	84	845	784	94	029	663	_	707	637 8	88	786 76	760 98	8 611	11 637		664	605	92	731	738	104

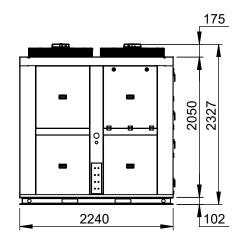
Notes: ¹ Data corresponding to a certain condition. The capacities described do not take into account the heat generated by the indoor fan. ² MBh = Total Gross Capacity. ³ SHC = Sensible Heat Capacity.



## **Unit Dimensions**



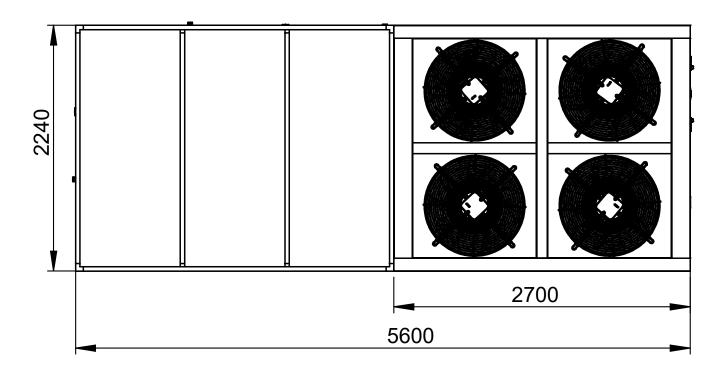


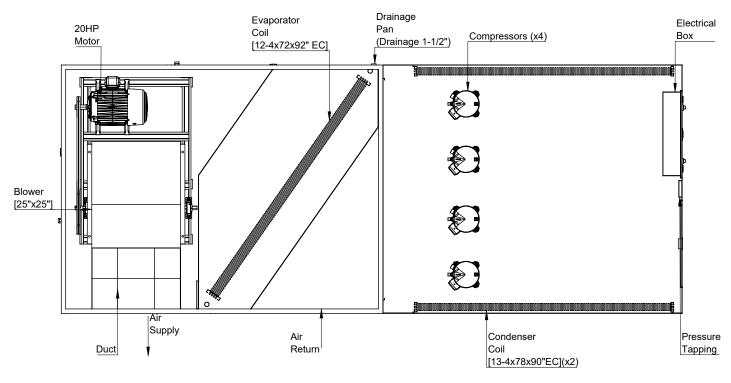


Note: All measurements are in millimeters (mm).

## **Unit Dimensions**

#### **TOP VIEW**

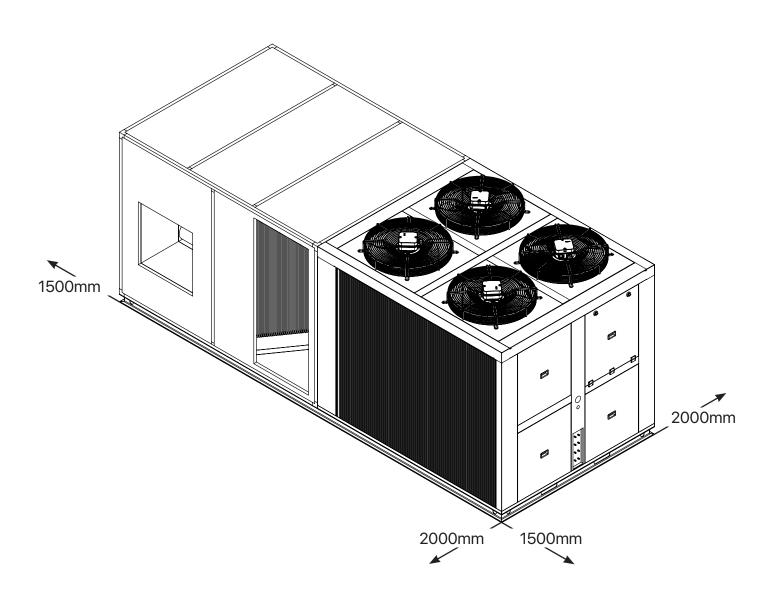




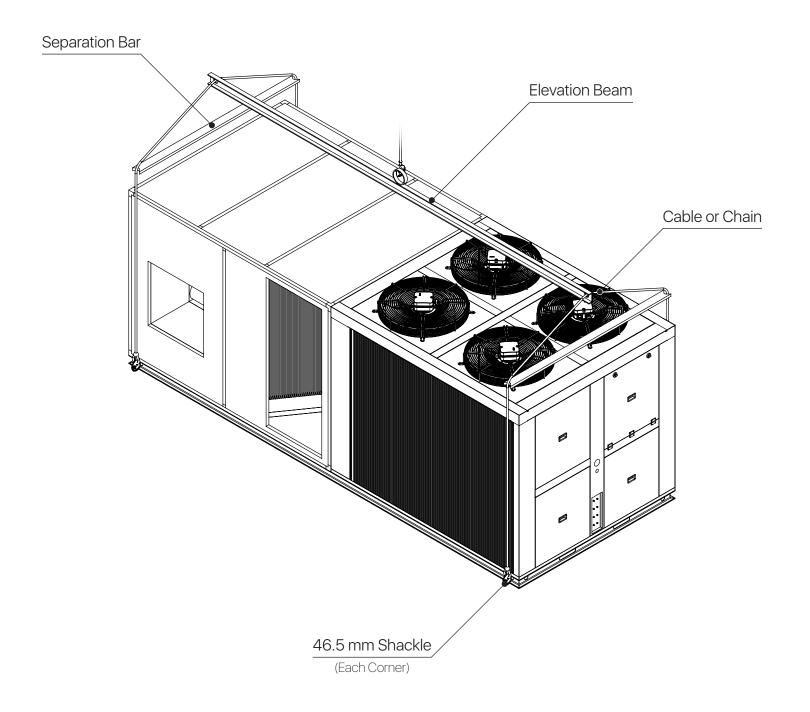
Note: All measurements are in millimeters (mm).

## **Safety Distance**

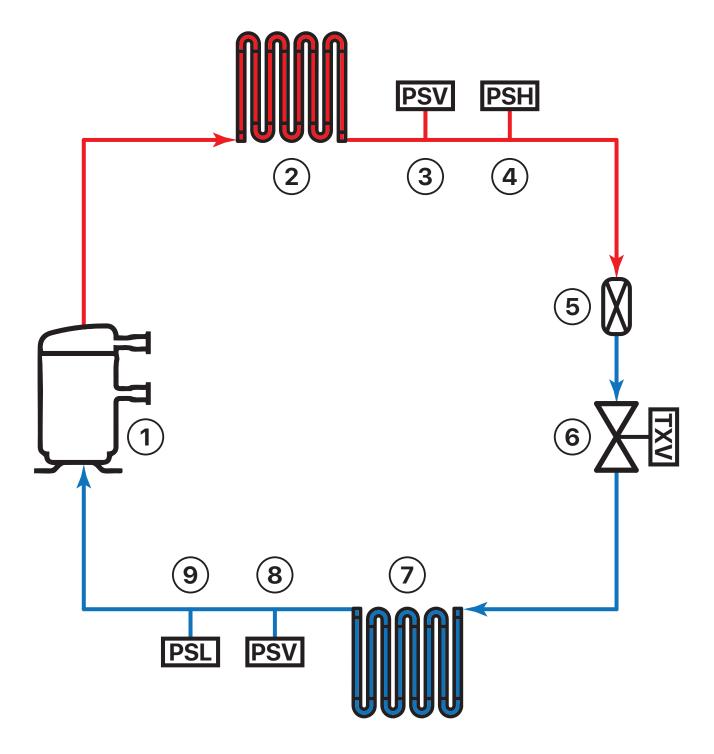
The following minimum free spaces must be observed for the proper performance and capacity of the unit.



## 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

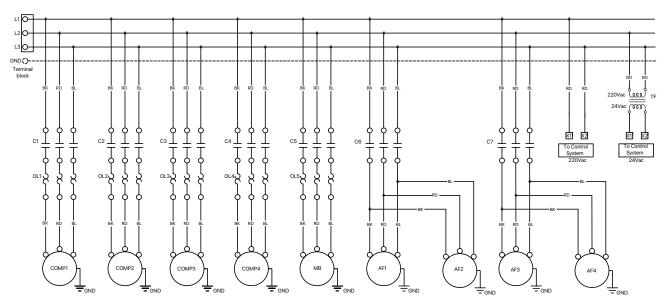
DESCRIPTION
EXPANSION VALVE (TXV)
EVAPORATOR COIL AND BLOWER FAN
ACCESS VALVE FOR PRELOAD AND CONTROL
LOW PRESSURE SWITCH

### **Electric Diagram**

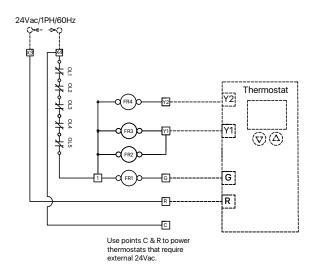
While performing the electrical installation, the authorized technician must verify that they are complying with the electrical circuit of the equipment shown below:

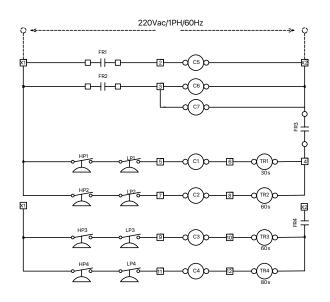
#### 208-230V / 3PH / 60Hz

(POWER)



#### (CONTROL)







#### **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
Y1: Condenser Signal St

Y1: Condenser Signal Stage 1
Y2: Condenser Signal Stage 2
R: Common 24Vac Lines
C: Auxiliary 24Vac Lines

HP: High Pressure Switch
LP: Low Pressure Switch
TR: Timer

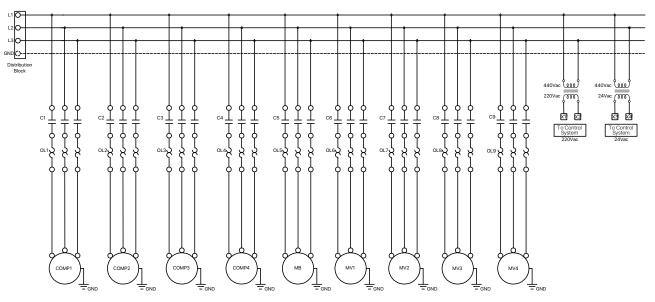
TR: Timer
C1-C9: Contactor
OL: Thermal Relay
GND: Ground
Factory Wiring
Field Wiring

## **Electric Diagram**

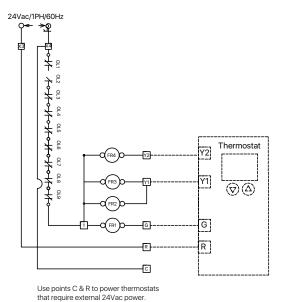
While performing the electrical installation, the authorized technician must verify that they are complying with the electrical circuit of the equipment shown below:

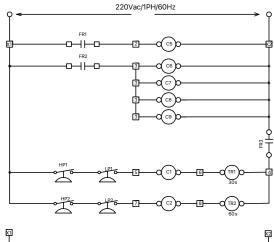
#### 460V / 3PH / 60Hz

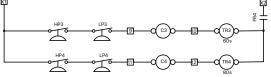
(POWER)



#### (CONTROL)







#### A

#### **WARNING**

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C1-C9: Contactor
OL: Thermal Relay

C1-C9: 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 beems, 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.

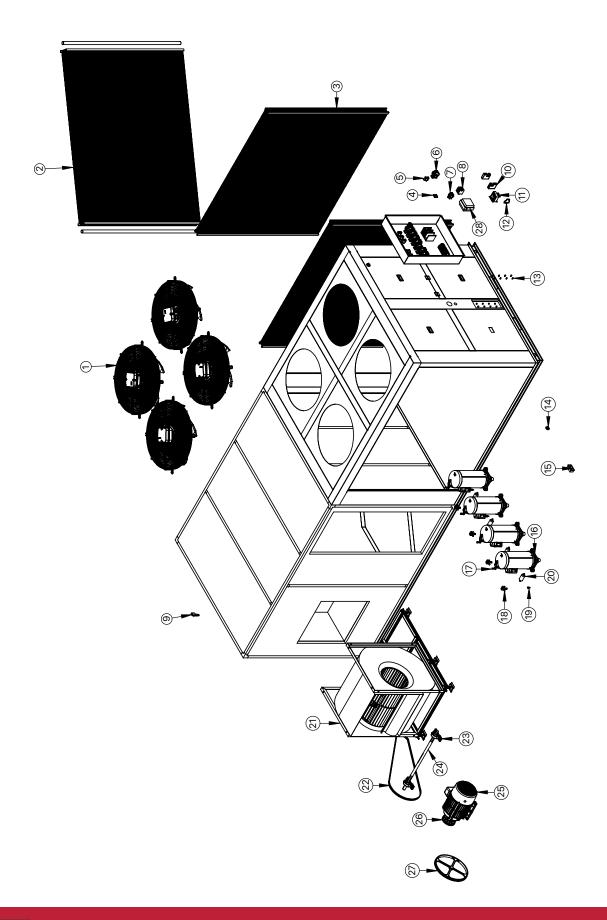
#### **WARNING!**

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 - GXPK720DG4AB

REF.	PART NAME	QTY.	PART NUMBER
1	AXIAL FAN WITH 800MM DIAMETER	4	10039012
2	60TR EVAPORATOR HEAT EXCHANGER	1	1EA1204-72092X
3	30TR RIGHT CONDENSER HEAT EXCHANGER	1	1CA1304-78090A
3.1	30TR LEFT CONDENSER HEAT EXCHANGER	1	1CA1304-78090X
4	TIMER	4	16010001
5	RELEVO DE 8 PINES 24VAC	4	12010017
5.1	RELAY BASE	4	12010009
6	12A-3P-220V CONTACTOR	4	13030055
6.1	65A-3P-220V CONTACTOR	5	13030061
7	5.6-8AMP BIMETALLIC	4	13031068
7.1	50-63AMP BIMETALLIC	4	13031069
7.2	32-50AMP BIMETALLIC	1	13031088
8	POWER TERMINAL	3	13110008
9	NYLON HANDLE	8	51110010
10	DISTRIBUTION BLOCK	4	13110015
11	220V TO 24V 75VA TRANSFORMER	1	15110013
12	CONTROL TERMINAL	40	13110010
13	1/4" X 0.032" X 2" ACCESS VALVE	8	16CO56002
13.1	1/4" X 0.032" X 2" ACCESS VALVE WITH NUT	8	16CO56001
14	1/4" METAL CLOSURE	2	59040003
15	LARGE RECESSED HANDLE	8	59040001
16	16.4TR SCROLL TYPE COPELAND COMPRESSOR	4	14021316-1
17	R410 HIGH PRESSURE SWITCH 610-420	4	31020016
18	15TR R410 EXPANSION VALVE	4	31040045
19	R410 LOW PRESSURE SWITCH 55-95	4	31020017
20	5/8" DRYER FILTER	4	23010009
21	25" X 25" X 1-1/2" CHINESE HOUSING CENTRIFUGAL FAN	1	20020061
22	1-1/2" PULLEY DRIVE BELT	2	53040092
23	1-1/2" PILLOW BLOCK	2	53020017
24	1-1/2" AISI 4140 STEEL SHAFT X 110CM	1	73210089
25	20HP THREE-PHASE MOTOR	1	10060017
26	QD 2B68 SDS MASTERDRIVE DRIVE PULLEY	1	53036015
26.1	SDSX 1 5/8 MASTERDRIVE DRIVE PULLEY BUSHING	1	53032006
27	QD 2BK184 SK DRIVEN PULLEY	1	53031214
27.1	SK X 11/2" DRIVEN PULLEY BUSHING	1	53032012

## Parts List - GXPK720DG7AB

REF.	PART NAME	QTY.	PART NUMBER
1	AXIAL FAN WITH 800MM DIAMETER	4	10039012
2	60TR EVAPORATOR HEAT EXCHANGER	1	1EA1204-72092X
3	30TR RIGHT CONDENSER HEAT EXCHANGER	1	1CA1304-78090A
3.1	30TR LEFT CONDENSER HEAT EXCHANGER	1	1CA1304-78090X
4	TIMER	4	16010001
5	8-PIN 24VAC RELAY	4	12010017
5.1	RELAY BASE	4	12010009
6	9A-3P-220V CONTACTOR	4	13030056
6.1	50A-3P-220V CONTACTOR	4	13030051
6.2	38A-3P-220V CONTACTOR	1	13030059-1
7	2.8 - 4 AMP BIMETALLIC	4	13031072
7.1	25 - 40 AMP BIMETALLIC	4	13031067
7.2	22 - 32 AMP BIMETALLIC	1	13031085
8	POWER TERMINAL POWER TERMINAL	3	13110008
9	NYLON HANDLE	8	51110010
10	335 AMP DISTRIBUTION BLOCK	4	13110015
11	440V TO 24V 75 VA TRANSFORMER	1	15110013
12	CONTROL TERMINAL	40	13110010
13	1/4" X 0.032" X 2" ACCESS VALVE	8	16CO56002
13.1	1/4" X 0.032" X 2" ACCESS VALVE WITH NUT	8	16CO56001
14	1/4" METAL CLOSURE	2	59040003
15	LARGE RECESSED HANDLE	8	59040001
16	16.4TR SCROLL TYPE COPELAND COMPRESSOR	4	14021316-1
17	R410 HIGH PRESSURE SWITCH 610-420	4	31020016
18	VALVULA DE EXPANSION 15TR R410	4	31040045
19	R410 LOW PRESSURE SWITCH 55-95	4	31020017
20	DRYER FILTER	4	23010009
21	25" X 25" X 1-1/2" CHINESE HOUSING CENTRIFUGAL FAN	1	20020061
22	1-1/2" PULLEY DRIVE BELT	2	53040092
23	1-1/2" PILLOW BLOCK	2	53020017
24	1-1/2" AISI 4140 STEEL SHAFT X 110CM	1	73210089
25	20HP THREE-PHASE MOTOR	1	10060017
26	QD 2B68 SDS DRIVE PULLEY	1	53036015
26.1	SDSX 1-5/8 DRIVE PULLEY BUSHING	1	53032006
27	QD 2BK184 SK DRIVEN PULLEY	1	53031214
27.1	SK X 11/2" DRIVEN PULLEY BUSHING	1	53032012
28	440V TO 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.