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Notes	

1 General information

1.1 Case description

KPM series model (number) system.

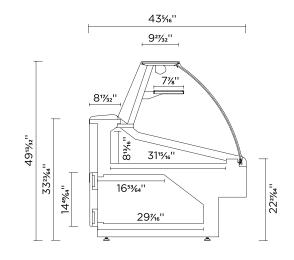
KPM CG 40 S AAABBCCD

AAA

BB

Basic modelModel variationLengthType of Unit.CG-Curved glass tilt forward60"S-Self ContainedFG-Flat glass tilt forward80"R-RemoteOF-Open front100"D-Dry

KPM SERIES



KPM-CG-S(R)(D)



12 month warranty for all parts from the invoice date. A new part will be provided free of charge. Defective part must be returned to the manufacturer.

Warranty claims: All claims must include model number, serial number, date of purchase, date of installation and additional information about the supposed defect.

All service work must be authorized by MVP group.

MVP group reserves the right to select the service company.

Loss of food or other damages caused by faulty equipment aren't covered by this warranty.

Warranty does not cover damage when uncrating.

Work made necessary, by lack of maintenance or cleaning are not covered by this warranty.

Warranty does not cover damage or malfunction result of improper use or installation.

Warranty does not cover negligence, misuse and operation on wrong voltage.

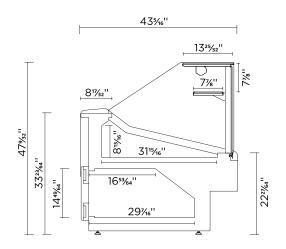
Warranty does not apply if the serial number is altered or defaced.

Failure to comply with the instructions in this manual shall avoid warranty.



KPM-CG-S(R)(D)

Service by	Type of action	Date	Serial number and model



KPM-FG-S(R)(D)



KPM-FG-S(R)(D)

Equipment runs constantly:

Condenser dirty.

Condenser fan malfunction.

Temperature and relative humidity too high.

Starting relay burns out:

Low voltage.

High voltage.

Compressor short cycles.

Incorrect running capacitor.

Incorrect relay.

Head pressure too high:

Unit overcharged.

Air or other non condensable gases in the system.

Clogged condenser.

Defective condenser fan motor.

Unit location too hot.

Restriction in charge line.

Head pressure too low:

Insufficient refrigerant charge.

Leak in the system.

Cold location.

Noisy unit:

Compressor oil charge low.

Fan blade causing vibrations.

Tube rattle.

Loose parts.

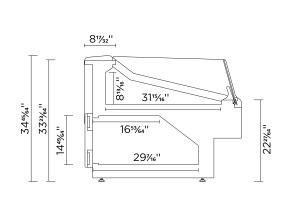
Case not leveled.

6.2 Service



This operation must be performed by a qualified technician.

For spare parts, contact your distributor.



435/16''

KPM-OF-S(R)(D)



KPM-OF-S(R)(D)

6 Troubleshooting/Service

6.1 Troubleshooting



Service must be performed by a qualified technician.

Doors not closing:

- Check for leveled floor.
- Check for obstruction.
- Remove doors and check the bearings.

Lights not working:

Check light switch position.

Check light connections.

Warm case temperature:

Check for air return grille obstruction.

Check for air drafts.

Check store temperature.

Check for condenser obstruction and cleaning.

Check for frozen evaporator.

Check set point.

Display area is over filled.

Fans not working:

Check electrical connections.

Check for any debris.

Case not aligning:

Check for leveled floor.

Check instructions for joining.

Display not working:

Check main power switch position..

Check electrical connections.

Compressor not starting:

Disconnect switch open.

Blown fuse.

Overload protective tripped.

Low charge of refrigerant.

Relay defective.

Implantation



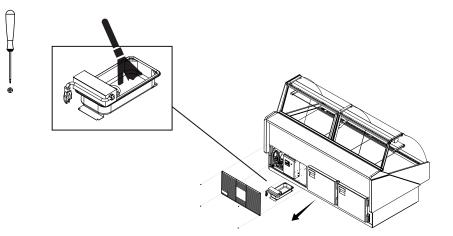
Drain outlet



Refrigeration piping

To access the evap pan:

- Remove protection grille.
- Unplug the evap pan.
- Relieve the screws and take the evap pan off.
- Clean with soft detergent or warm water.

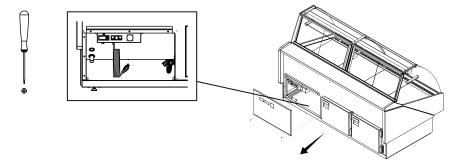


Front

5.10 Drain inspection



 \bigwedge Check for drain obstruction and correct position every month (Remotes only).



5.11 Glass type conversion model

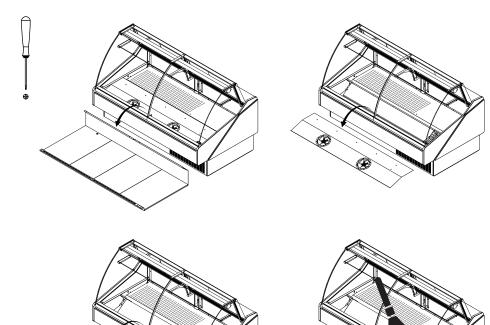


AThis operation must be performed by a qualified technician.AContact distributor for specific manual to assist in conversion.

5.8 Evaporator cleaning

 \triangle This operation must be performed by a qualified technician. \wedge All operations must be done with the unit disconnected.

- To access the evaporator:
- Open your unit
- Lift and remove exposition panels
- Use tool for the screws and clean



5.9 Evap Pan cleaning

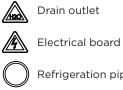


This operation must be performed by a qualified technician. All operations must be done with the unit disconnected.

Pan can be hot!



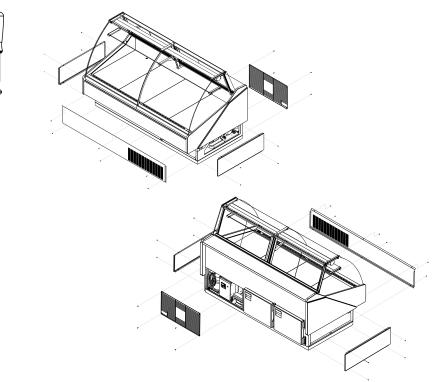
This operation must be done weekly.



Refrigeration piping

KPM-FG-xx-S

5.6 Panels and protection grille removal



5.7 Condenser cleaning

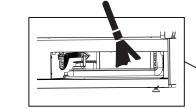


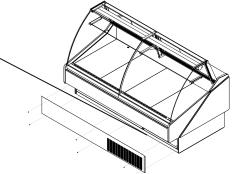
This operation must be performed by a qualified technician.



All operations must be done with the unit disconnected.

Condenser must be regularly cleaned (every month). Use a brush or vacuum it. To get to the condenser must remove frontal panel.





Front

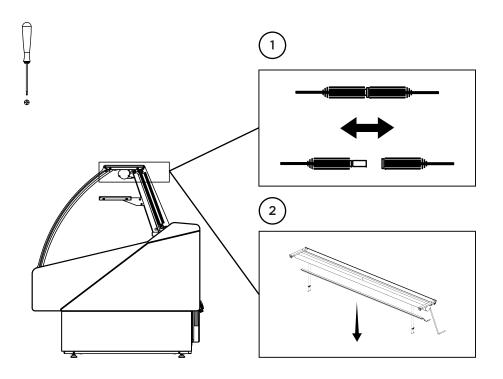
KPM-FG-xx-R

To replace lights follow the steps:



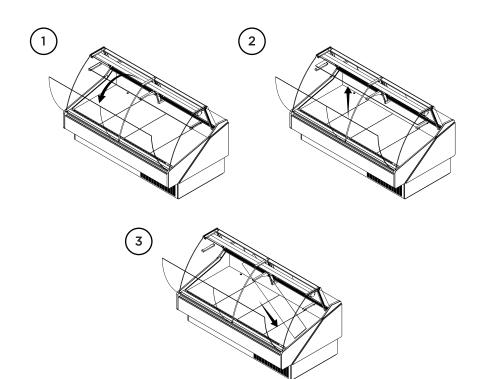
 \land All operations must be done with the unit disconnected.

- Disconnect the light
- Unscrew the light holder and remove the light
- Insert a new light in the same place of the old one, screw the holder connect it
- Screw the light and connect it
- Plug and turn on the light



Drain outlet 1420 Electrical board /4 Refrigeration piping Electrical wiring

KPM-OF-xx-S

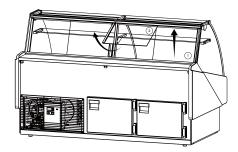


Front

5.4. Back Sliding doors removal

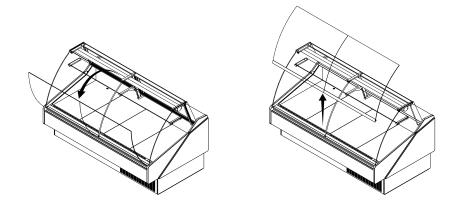
Back sliding doors are easy to take off. - Grab door push up and then tilt the bottom towards you.

To put the door back on, just reverse the previous step.



KPM-OF-xx-R

For easier cleaning remove the front glass (instructions below).

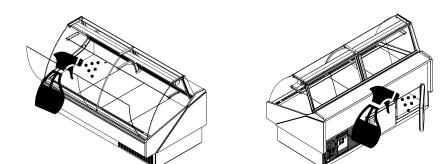


5.2 Interior cleaning

 \triangle

All operations must be done with the unit disconnected.

Clean surfaces (glass/metal/plastic) with soft detergent or warm water. Do not use abrasive cleanser.



5.3 Shelf removing



All operations must be done with the unit disconnected.

To remove or adjust shelves take care with light connections.

KPM series intended for deli, meat and fish are type 1 equipment - 75°F/55%RH. Temperature of the deli and meat cases is set for 32°F.

The decks have a 31 lb/ft² loading limit.

Glass shelves are for non refrigerated products only and have a 5,5 lb/ft² loading limit.

Model	Dimensions (LxDxH in inches)	Service dimensions (LxDxH in inches)	Volume (ft³)
KPM-CG-60-S(R)(D)	60¼6'' x 49%6'' x 61½6''	60¼6'' x 49%6'' x 75%''	9,3/5,33
KPM-CG-80-S(R)(D)	77%16'' x 49%16'' x 61½16''	77%6'' x 49%6'' x 75%''	12,1/8,76
KPM-CG-100-S(R)(D)	101¾16'' x 49¾16'' x 61¼16''	101¾16'' x 49¾16'' x 75‰''	16,0/13,41
KPM-FG-60-S(R)(D)	601⁄16'' x 441⁄2'' x 611⁄16''	601/16'' x 441/2'' x 823/8''	9,3/5,33
KPM-FG-80-S(R)(D)	77%" x 44½" x 61½"	77%" x 44½" x 82¾"	12,1/8,76
KPM-FG-100-S(R)(D)	101¾16'' x 44½'' x 61¼6''	101¾16'' x 44½'' x 82¾''	16,0/13,41
KPM-OF-60-S(R)(D)	601/16'' x 34 ¹¹ /16'' x 611/16''	601/16'' x 34 ¹¹ /16'' x 62 ¹¹ /16''	9,3/5,33
KPM-OF-80-S(R)(D)	77%16'' x 34 ¹¹ ⁄16'' x 611⁄16''	77 ⁹ / ₁₆ '' x 34 ¹¹ / ₁₆ '' x 62 ¹¹ / ₁₆ ''	12,1/8,76
KPM-OF-100-S(R)(D)	101¾16'' x 34 ¹¹ ⁄16'' x 61½16''	101¾6'' x 34¼16'' x 62¼16''	16,0/13,41

2 Getting started with your KPM series

2.1 Location

To your new equipment perform well please respect the following warnings:

This is type 1 equipment, intended to work with 75°F / 55%RH.
This equipment is intended for maintaining temperature only.
Be sure products are not ambient temperature (must be cold)
This equipment must be located in an indoor environment.
Check for airdrafts and avoid them.
Air movement from ac units shouldn't be directed to the equipment.
The equipment must not be directly or indirectly exposed to the sun.
Check for rejected heat from another refrigeration units and avoid that.
Place the equipment in a levelled floor.
Do not obstruct the air way in front of the condenser.
Make sure there is a drain preparation (remotes and fish display cases only).



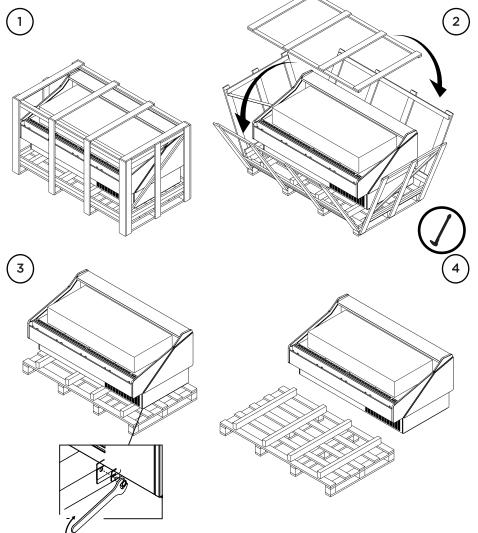
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- Models to be positioned against a wall keep a safe distance of $2^3/\epsilon''$.
- After servicing always close the doors.
- Make sure you have a suitable electrical installation.
- This equipment should be handled by a qualified technician.

2.2 Uncrating

- All operations must be done carefully.
- All plastic protective films must be removed before using the equipment for the first time.



Main parameters

Symbol	Code	Parameter	Models	UOM	Туре	Min	Max	Def.
	/3	Probe display response	MSYF	-	С	0	15	0
	/5	Select °C or °F 0: °C 1: °F	MSYF	flag	С	0	1	0
Ľ	/A2	Configuration of probe 2 (S2) 0: Probe absent 1: Product probe (display only) 2: Defrost probe 3: Condenser probe 4: Antifreeze probe	YF MS		СС	000	4 4	2 2
	/c1	Calibration of probe 1	MSYF	°C/°F	С	-20	20	0,0
	St	Temperature set point	MSYF	°C/°F	F	rl	r2	0,0
*	rd	Control delta	SYF	°C/°F	F	0,1	20	2,0
0	c2	Minimum compressor OFF time	SYF	min	С	0	15	0
*** ***	dl dP1	Interval between defrosts Maximum defrost duration, evaporator	SYF SYF	hours min	F F	0 1	250 250	8 30

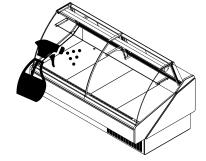
5 Maintenance

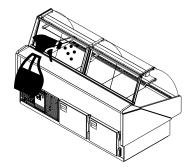
5.1 Exterior cleaning



All operations must be done with the unit disconnected.

Clean surfaces (glass/metal/plastic) with soft detergents or warm water. Do not use abrasive cleanser.





Signals on the display

The blinking status indicates a request for activatuin that cannot be implemented until the end of the corresponding delay times.

lcon	Function	ON	OFF	blink	Startup
Q	COMPRESS.	compressor ON	comp. OFF	compressor request	
_ %	FAN	fan ON	fan OFF	fan request	
0%*	DEFROST	defrost in progress	defrost not required	defrost request	
AUX	AUX	auxiliary output AUX active	auxiliary output AUX not active	anti-sweat heater function active	
A	ALARM	delayed external alarm (before the expiry of the time "A7")	no alarm present	alarms in normal operation (eg. high/low temp.) or alarm from ext. digital input immediate or delayed	
Sent	CLOCK	at least one timed defrost has been set	no timed defrost is present	clock alarm	ON if Real-Time Clock present
澎	LIGHT	auxiliary output LIGHT ACTIVE	auxiliary output LIGHT NOT ACTIVE	anti-sweat heater function active	
S/	SERVICE		no malfunction	malfunction (eg. EEPROM error or probe fault)	
HACCP	HACCP	HACCP function	HACCP function enabled	HACCP alarm (HA and/or HF) not enabled	
*	CONTINUOUS CYCLE	enabled	not enabled	request	

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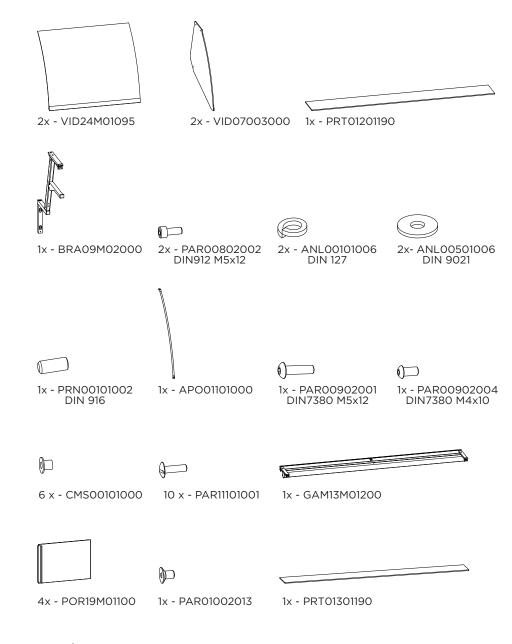
Controller must be handled by a qualified technician.

Buttons on the keypad

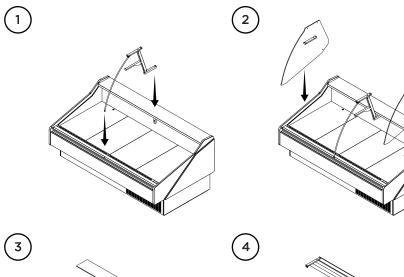
Normal operation

		Normal operation					
Button	Press. the button alone	Pressing together with other buttons	:				
Prg mute	• if pressed for more than 5 s accessed the menu for setting type "F" (frequent) parameters • in the event of alarm: silences the audible alarm (buzzer) and disables the alarm relay	 if pressed for more than 5 s together with the SET button, accesses the menu for setting the type "C" (configuration) or downloading the parameters if pressed for more than 5 s together with the UP/AUX button resets any alarm with manual reset 	Start-up: if pressed for more than 5 s at start-up, starts the default parameter setting	Automatic address assignment: if pressed for 1 s enters the automatic serial address assigning procedure			
aux	if pressed for more than 1 s, enables/disables the auxiliary output	if pressed for more than 5 s together with DOWN/DEF button, enables/disables the continuous cycle operation if pressed for more than 5 s with SET button, starts the procedure for printing the reports (function available, with management to be implemented) if pressed for more than 5 s together with PRG/MUTE button, resets any active alarm with manual reset					
def	if pressed for more than 5 s, enables/disables a manual defrost	if pressed for more than 5 s together with UP/AUX button, enables/disables the continuous cycle operation if pressed for more than 1 s together with SET button, displays a submenu with the HACCP alarm parameters (HA, HAn, HF, HFn)					
Set	if pressed for more than 1 s, displays and/or set the set point	menu for setting the type "C" paran the parameters if pressed for more than 1 s together submenu with the HACCP alarm par if pressed for more than 5 s together	with the HACCP alarm parameters (HA, HAn, HF, HFn) f pressed for more than 5 s together with PRG/MUTE button, accesses the menu for setting the type "C" parameters "C" (configuration) or downloadin				

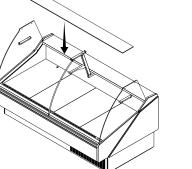
2.2.1 Front and sides assemblies

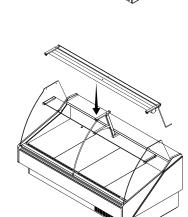


2x - SUP17M01020

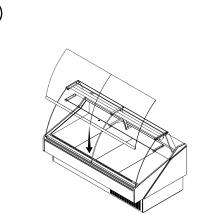


6





5	



Relay outputs	depending on the mod	lel					
,			EN 60730-1		UL 873		
	model	relay	250 V~	operating cycles	250 V~	operating cycles	
	IRxxxx(E,A) (P,Q,S,U,V,X,Y,Z)xxx	R2 (*)	5(1)A	100000	5 A resistive 1FLA 6 LRA C 300	300000	
	IRxxxx(E,A) (N,R,C,B,A,M,L,T)xxx	R3 (*)	5(1)A	100000	5 A resistive 1FLA 6 LRA C 300	300000	
	IRxxxx(E,A) (N,R,C,B,A,M,L,T)xxx IRxxxx(O,L,H) (N,R,C,B,A,M,L,T)xxx	R1,R2 R2,R3 R4 (*)	8 (4)A N.O. 6 (4)A N.C. 2 (2)A N.O./N.C.	100000	8 A resistive 2FLA 12 LRA C300	300000	
	IRxxxx(E,A) (P,Q,S,U,V,X,Y,Z)xxx IRxxxx(O,L,H) (N,R,C,B,A,M,L,T)xxx	R1 R1 (*)	12 (2)A N.O./N.C.	100000	12 A resistive 5FLA 30 LRA C300	300000	
				reinforced			
	insulation from very lo	w volta	ge parts	6 mm clea	rance, 8 mm creepag	e	
				3750 V insulation			
				basic			
	insulation between the	e relay o	utputs indipendent	3 mm clea	rance, 4 mm creepag	e	
				1250 V inst	ulation		

SSR outputs Max output voltage : 12 Vdc, Output resistance: 600 Ω, Max output current: 20 mA

(*): Relay not suitable for fluorescent loads (neon lights, ...) that use starters (ballasts) with phase-shift capacitors. Fluorescent lamps with electronic control devices or without phase-shift capacitors can be used, within the operating limits specified for each type of relay.

Connessioni		T	ype of connectio	Cross-section Max. current	
	Model IRxxxxx0xx IRxxxx(E,A)x1xx IRxxxxx2xx IRxxxx(E,A)x3xx IRxxxx(E,A)x5xx	removable faston	P. Supply screw faston removable faston vertical screw	Probes screw removable removable screw vertical screw	for wires from 12 A 0.5 a 2.5 mm²

the installer has to provide the correct dimensioning of the power supply and cable connection between the instruments and the loads. Depending on the model, the maximum current in the common terminals 1, 3 or 5 is 12 A. When using the controller at maximum operating temperature and full load, use cables featuring a maximum operating temperature of 105 °C at least.



 \bigwedge Controller must be handled by a qualified technician.

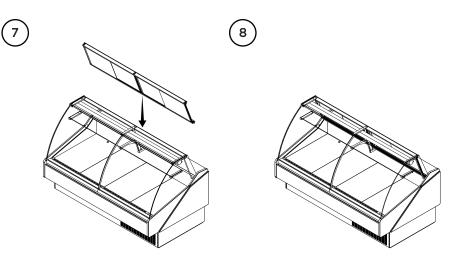
4.4. Electronic controller



Carel - IR33F0AHE0

TECHNICAL SPECIFICATIONS

	Model	Voltag	е		Power		
Power supply	IRxxxxExxxx	230 V~,	50/60 Hz		3 VA, 25 mA~max.		
	IRxxxxAxxxx	115V~, 5	50/60 Hz		3 VA, 50 mA~max.		
	IRxxxxHxxxx	115 to 2	30 V~, 50/60 Hz		6 VA, 50 mA~max.		
	IRxxxxLxxxx IRxxxxOxxxx		V~, 50/60 Hz, 12 to 30 0/60 Hz, 12 to 18 Vdc) Vdc	3 VA, 300 mA~/mAdc max. Use only SELV power supply		
Insulation guaranteed	IRxxxxExxxx IRxxxxAxxxx		on in reference ow voltage parts		reinforced 6mm clearance, 8 mm creepage 3750 V insulation		
by the power supply	IRxxxxAxxxx IRxxxxHxxxx	insulatio	on from relay outputs		basic 3mm clearance, 4 mm creepage 1250V insulation		
	IRxxxxLxxxx		on in reference ow voltage parts		externally guaranteed by safety transformer (SELV power supply)		
	IPYYYYOYYY		on from relay outputs		reinforced 6mm clearance, 8 mm creepage 3750 V insulation		
	S1 (probe 1)	NTC (IR:	xxx0xxxxx) o NTC e P	xxx7xxxxx)			
	S2 (probe 2)	NTC (IR:	NTC (IRxxx0xxxxx) o NTC e PTC (IRxxx7xxxxx)				
	DI 1 S3 (probe 3)	free contact, contact resistance < 10 Ω, closing current 6 mA NTC (IRxxx0xxxx) ο NTC e PTC (IRxxx7xxxxx)					
	DI 2 S4 (probe 4)	free contact, contact resistance < 10 Ω, closing current 6 mA NTC (IRxxx0xxxx) ο NTC e PTC (IRxxx7xxxxx)					
	Maximum ditance of probes and digital inputs less than 10 m. Note: during installation keep the power and loads connection separate from probe cable digital inputs, repeater display and supervisory system.						
			10 kΩ at 25 °C, - 50	790 °	C range		
	Std. CAREL N	TC	measurement error:		in the - 50T50 °C range in the - 50T90 °C range		
			50 kΩ at 25 °C, - 40		5		
Probe type	NTC high				C in the - 20T115 °C range		
	temperature				C in the - 20T115 °C range		
			985 Ω a 25 °C, range	e da -	50T150 °C		
	PTC std. CARE	-			in the - 50T50 °C range		
	(specific mode	U		4 °C	°C in the - 50T150 °C range		



2.3 Check for damage

At the end of production HYDRA KOOL products are carefully inspected. No damaged units are sent out.

HYDRA KOOL doesn't take responsibility for damage between factory and client.

Possible damage on the unit must be checked to file a claim near the transportation company.

The unit must be checked in the following points:

Exterior panels

Doors

Shelves

Glasses

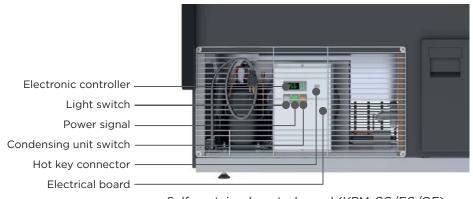
Paint job

Door handles

Base structure

2.4 Control panel and main features

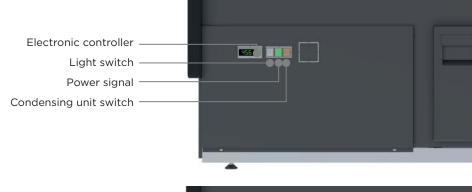
The pictures below, shows the main features and all necessary controls.



Self contained control panel (KPM-CG/FG/OF)

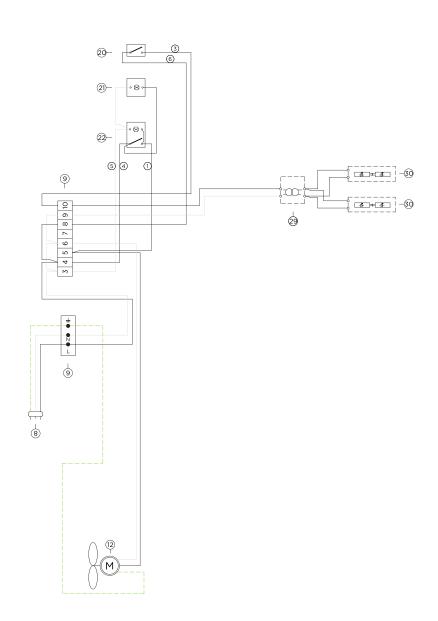
N⁰ Discription

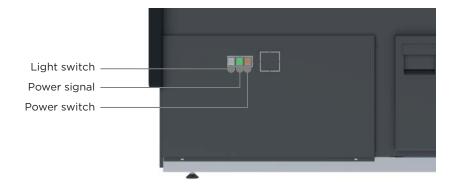
- 9 Terminal block
- 12 Evaporator fan
- 20 Light switch
- 21 Pilot light
- 22 Switch
- 29 Transformer
- 30 Led lighting

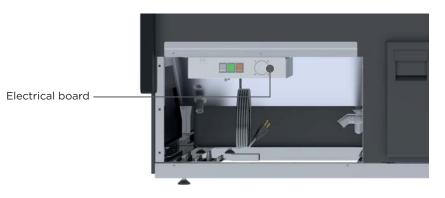


Electrical board

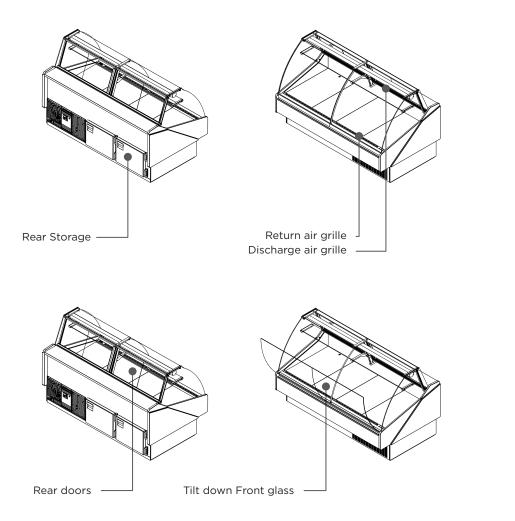
Remote control panel (KPM-CG/FG/OF)







Dry control panel (KPM-CG/FG/OF)

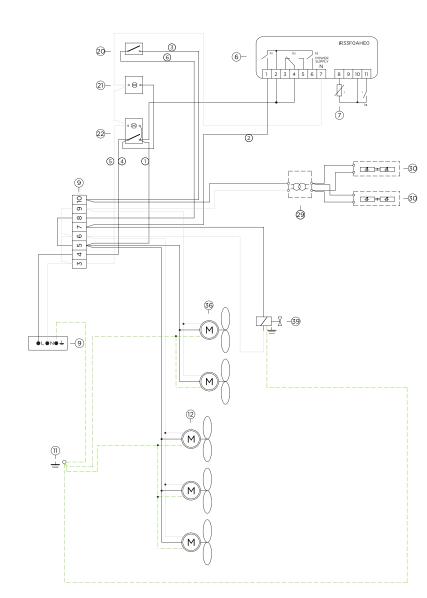


Nº Discription

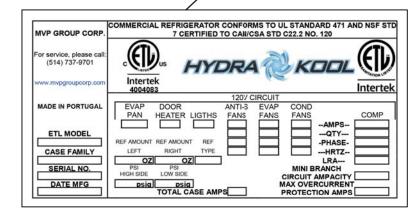
- 6 Controller
- 7 Temperature probe
- 9 Terminal block
- 11 Ground connection
- 12 Evaporator fan
- 20 Light switch
- 21 | Pilot light
- 22 Switch
- 29 Transformer
- 30 Led lighting
- 36 | Fan anti-condensation
- 39 Solenoide valve

2.5 Check serial, model numbers and requested options

Before starting your equipment, check the serial number, model numbers and requested options. This inspection should be made visually in the following items:

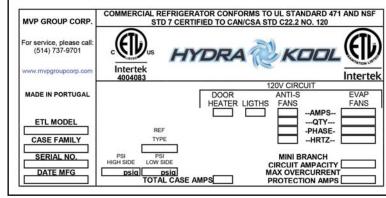


Self contained numbers





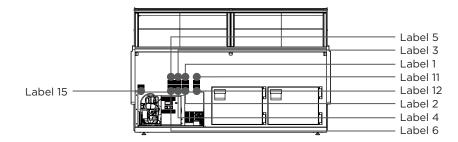
Remote numbers



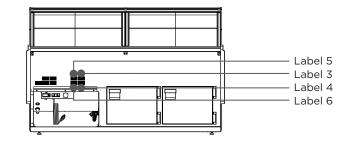
2.6 Warning/Caution labels

Before starting, HYDRA KOOL products have caution and warning labels to be respected.

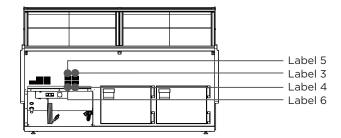
Self contained labels



Remote labels



Dry labels



oı

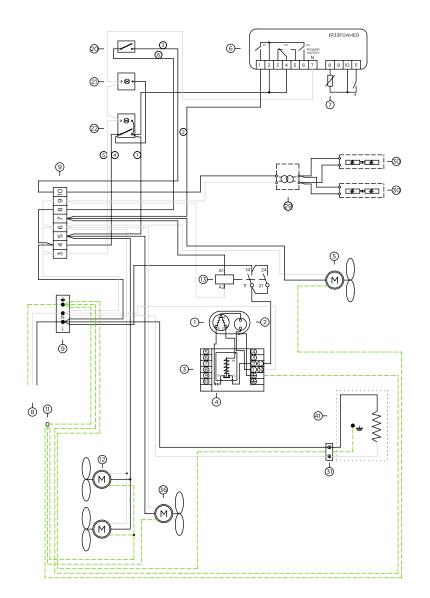
- 1 Compressor
- 2 Overload

Discription

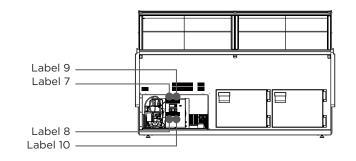
- 3 Relay
- 4 Start capacitor
- 5 Condenser fan
- 6 Controller
- 7 | Temperature probe
- 8 Earth two pin plug
- 9 Terminal block
- 11 Ground connection
- 12 Evaporator fan
- 13 Compressor relay
- 20 | Light switch
- 21 | Pilot light
- 22 Switch
- 29 Transformer
- 30 | Led lighting
- 36 Fan anti-condensation
- 31 Socket
- 41 Evaporative condensate pan

4.3. Electrical diagrams

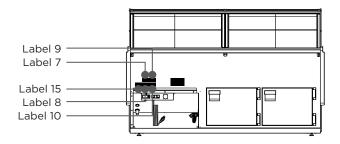
KPM-CG/FG-80-S



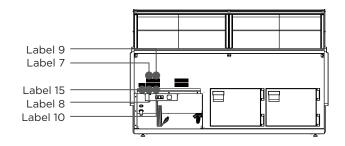
Self contained labels



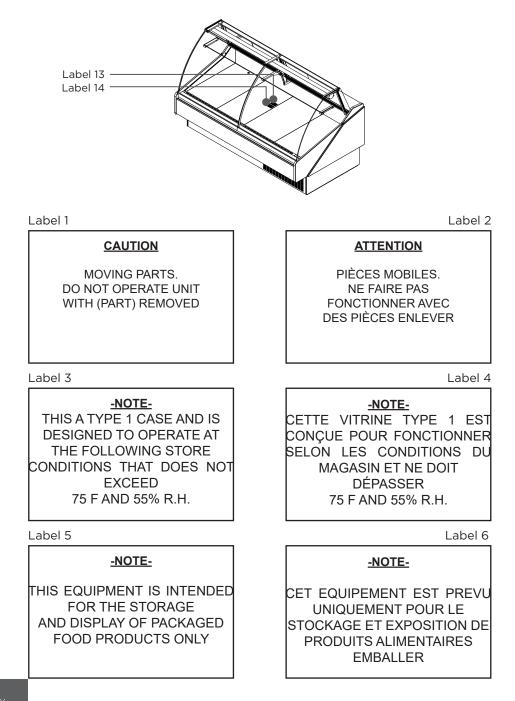
Remote labels



Dry labels



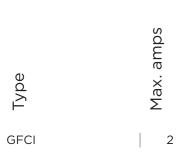
Self contained, Remote and Dry labels (evaporator)



4.2. Electrical service receptacles (optional)

Service receptacles are not intended nor suitable for large motors or other external appliances. Only for scales and lighted displays.

Receptacle ampacity



Model	Compressor F.L.A./L.R.A.	Lights	EADS	CND	Evap pan	Anti condensation system Total amps (self contained)	
KPM-CG/FG-60-S	9,6/49	0,14	0,70	0,45	3,33	0,13 14,35	
KPM-CG/FG-80-S	8,9/47	0,18	0,70	0,45	3,33	0,26 14,52	
KPM-CG/FG-100-S	16/64	0,24	1,05	0,45	3,33	0,26 14,23	
KPM-OF-60-S	9,6/49		0,70	0,45	3,33	14,08	
KPM-OF-80-S	8,9/47		0,70	0,45	3,33	14,08	
KPM-OF-100-S	16/64		1,05	0,45	3,33	13,73	

The data regards to standard options only.

Model	Total amps (remotes only)
KPM-CG/FG-60-R	0,97
KPM-CG/FG-80-R	1,14
KPM-CG/FG-100-R	1,55
KPM-OF-60-R	0,7
KPM-OF-80-R	0,7
KPM-OF-100-R	1,05

CAUTION

DISCONNET ALL POWER. MAY HAVE MORE THEN ONE DISCONNET SWITCH

Label 9

RISK OF ELECTRIC SHOK. DISCONNECT ALL POWER BEFORE SERVICING UNIT

Label 11

CAUTION

HOT PARTS. DO NOT OPERATE UNIT WITH (PART) REMOVED

Label 13

CAUTION

HAZARDOUS MOVING PARTS. DO NOT OPERATE UNIT WITH DECK PANS

Label 10

ATTENTION CAUTION **RISQUE DE CHOC** ELECTRIQUE. AVANT TOUT TRAVAIL COUPER LE COURANT

Label 12

ATTENTION

ATTENTION

DEBRANCHER TOUTE COURANT.

IL PEUT AVOIR PLUS D'UN **INTERRUPTEUR**

PIÈCES BRULANTES. **NE FAIRE PAS** FONCTIONNER AVEC LES PIÈCES ENLEVER

Label 14

ATTENTION

PIÈCES MOBILES DANGEREUSES. NE FAIRE PAS FONCTIONNER AVEC DES PIÈCES ENLEVER

Label 15

Warning

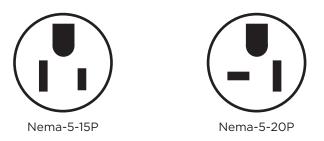
- This appliance requires a properly grounded dedicated circuit using a NEMA rated wall receptacle do not remove the grounding prong on the plug or the risk of an injury due to shock from the ungrounded electrical service may occur.

- This product can expose an individual to chemicals that have been identified by the state of California to possibly be dangerous leading to various diseases birth defects or other human reproductive system harm. For more information go to www.p65warnings.ca.gov.

2.7 Check your electrical installation

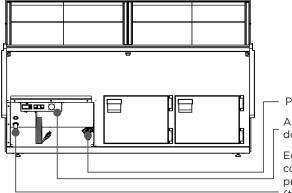


This equipment is intended to be connected to an outlet with 115V/ 60Hz/ 1 phase.



2.8 Electrical, drain and refrigeration connections (remotes only)

Installation and service must be performed by a qualified technician.



- Prepare a drain installation
- All electrical connections must be done from the electrical board

Equipments for remote installation come with nitrogen under pressure and an easy prep kit (tubing connections needed only) for installation. All self contained KPM series use the following equipment: capillary tube, finned coil ventilated systems (condenser/evaporator), hermetic compressor, electrical water evaporation system.

Model	Hide Circuit Pressure (psig)	_ow side	Refrigerant and charge (OZ)	Defrost
KPM-CG/FG/OF-60-S	331	174	R 404A 19,40	Automatic 3/day
KPM-CG/FG/OF-80-S	331	174	R 404A 25,39	Automatic 3/day
KPM-CG/FG/OF-100-S	5 331	174	R 404A 37,74	Automatic 3/day

3.2 Refrigeration loads (remotes only)



Installation of remote equipment must be done by a qualified technician.

- ---

Model	BTU*/h	Expansior valve type	
KPM-CG/SC/FG/SF/OF/SO-60-R	2959	TS2	00
KPM-CG/SC/FG/SF/OF/SO-80-R	3253	TS2	00
KPM-CG/SC/FG/SF/OF/SO-100-R	4372	TS2	00

*values presented are indicative for 14°F evap, and 90°F ambient.

4 Electrical

4.1. Electrical specifications data

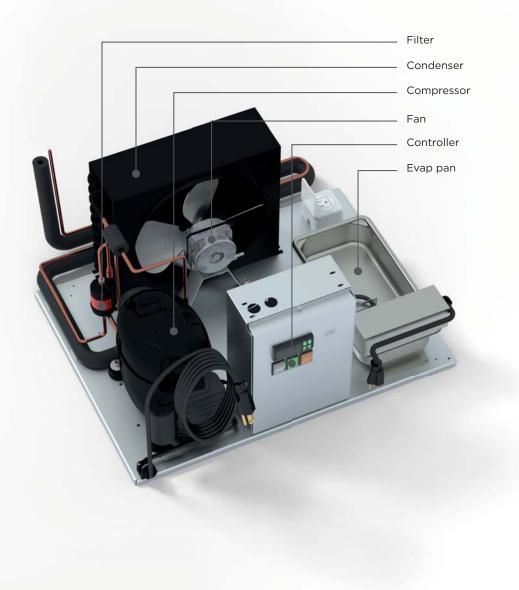


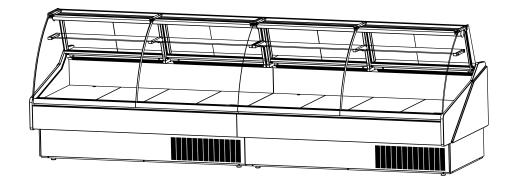
Electrical data can be found on the marking plate.

Standard equipment include led lighting and anti condensation system.

2.9 Joining

For joining follow the steps described.







3x - PAR00601013 DIN933 M6x80

2x - PAR00601007 DIN933 M6x20



14x- ANL00501006 DIN9021 M6



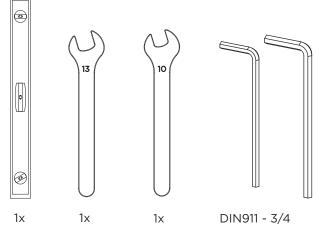
5x - PRC00101006 DIN934 M6



2X FIT00000427 A100 04 (915%4")



2X PRN00101002 DIN916 M6x16

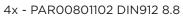


2x - PAR00902003 DIN 7380 M5x10



 \square

10

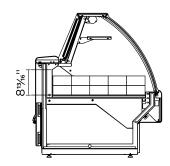


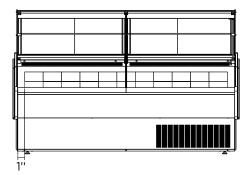


4x - ANL00101006 DIN 127-B



2x - BRA09M02000 VA 71







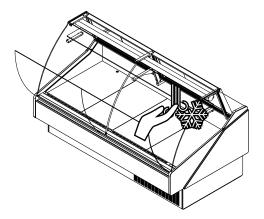
Maintain doors closed after servicing.

9 - If any problem encountered, see troubleshooting or call a qualified technician!

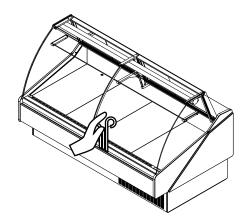
3 Refrigeration

3.1 Self contained refrigeration equipment and defrost

The refrigeration equipment it's laid out in the base of the equipment.







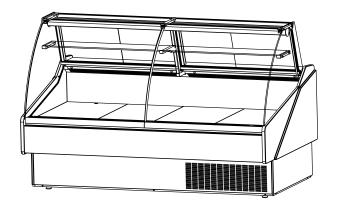
- 7 Before loading, leave the equipment working for about 2h.
- 8 Load your KPM-Series.



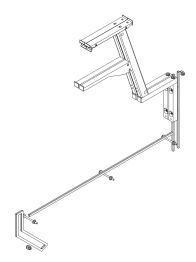
Loading must be done respecting loading limits and weight per square foot mentioned in page xx. This equipment is intended for maintaining temperature, be sure the products are cold, and not ambient temperature.



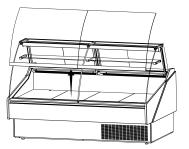
After loading check for any obstruction in the discharge and return air grilles.

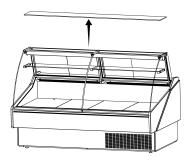


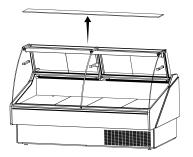
2x KPM-CG

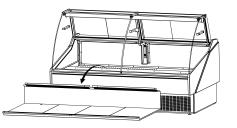


KIT0012U02000









2.10 Plugging and start

To start your equipment follow the steps:

1 - Check for page with parameters inside the manual.

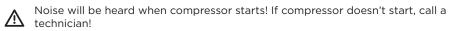
2 - After uncrating and placed the equipment respecting all warnings set in 2.1 chapter, and all switches are set to off position, connect the equipment.

Make sure you have the correct outlet!

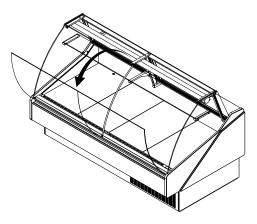


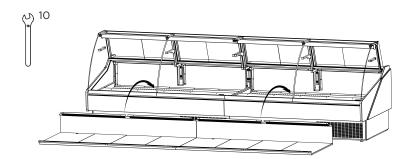
3 - Check lights, using button referenced on chapter 2.4. If not working consult the maintenance chapter.

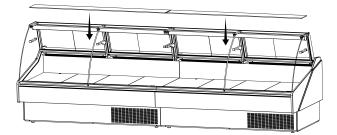
4 - Turn ON power button referenced in 2.4 chapter.

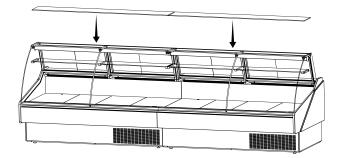


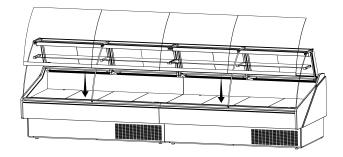
5 - Open the door and check for air movement in the discharge air grille.

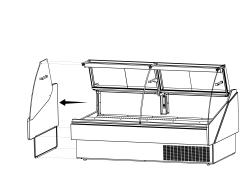




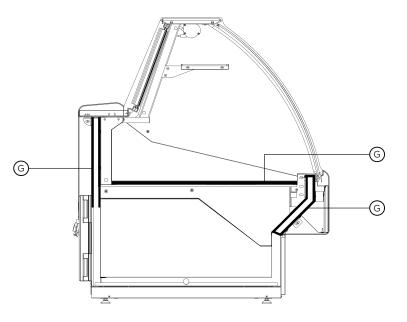


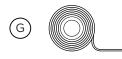






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2X - FIT00000427 (914%4")

