

Undercounter & Food Prep Tables Installation & Operation Manual

Please read this manual completely before attempting to install or operate this equipment!



IMPORTANT SAFETY INSTRUCTIONS (SAVE THESE INSTRUCTIONS) Visit us on the web at www.mvpgroupcorp.com



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RECEIVING AND INSPECTING THE EQUIPMENT

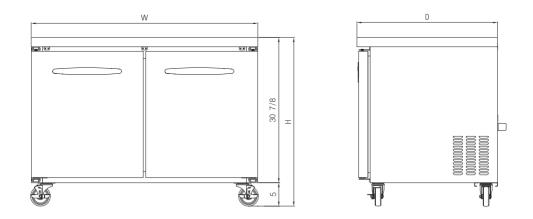
Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into the building.

- 1. Visually inspect the exterior of the package and skid or container. Any damage should be noted on the delivery slip and reported to MVP Group immediately at 1-888-275-4538; 514-737-9701.
- 2. If damaged, open and inspect the contents with the carrier.
- 3. WITHIN 48 HOURS OF RECEIPT : In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment, notify MVP Group immediately at 1-888-275-4538; 514-737-9701.
- 4. Be certain to check the compressor compartment housing and visually inspect the refrigeration package. Be sure lines are secure and base is still intact.
- 5. Retain all crating material until an inspection has been made or waived.

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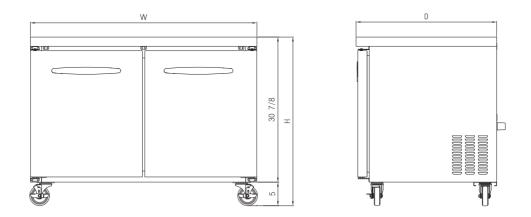
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Product		Undercounter Refrigerator					
Model		KUCR-27-1	KUCR-36-2	KUCR-48-2	KUCR-60-2	KUCR-72-3	
Capacity(cu.ft)		7	9.5	13.1	16.7	20.2	
Exterior Dimensions	W	27 1/2	36 3/8	48 3/8	60 3/8	72 3/8	
(Including 4" Casters)	D	30	30	30	30	30	
[in]	Н	35 7/8	35 7/8	35 7/8	35 7/8	35 7/8	
Net Weight (Ibs)		132	157	181	212	247	
Type of refrigeration sys	tem	Indirect cooling (Fan blowing)					
Control		ELECTRONIC PCB					
Number of Shelves	S	2	4	4	4	6	
Number of Doors		1	2	2	2	3	
Rated Voltage		115V/60Hz					
Type of Power Core	d		NEMA 5-15				
Amps		3.6	3.8	3.9	4.7	5.2	
Compressor(HP)		1/4	1/4	1/4	1/4	1/4	
R-290 Refrigerant (oz	<u>;</u>)	1.41	1.62	1.98	2.12	2.89	
Operating Range			33°F ~ 41°F				



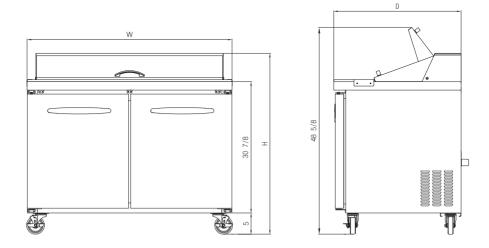
- Specifications and Designs are subject to change without notice.
- The rating plate (including Serial No.) is located on the upper left side of the cabinet interior.

Product	Undercounter Freezer						
Model		KUCF-27-1	KUCF-36-2	KUCF-48-2	KUCF-60-2		
Capacity(cu.ft)		7	9.5	13.1	16.7		
Exterior Dimensions	W	27 1/2	36 3/8	48 3/8	60 3/8		
(Including 4" Casters)	D	30	30	30	30		
[in]	Н	35 7/8	35 7/8	35 7/8	35 7/8		
Net Weight (Ibs)		139	165	190	223		
Type of refrigeration sys	tem	Indirect cooling (Fan blowing)					
Control		ELECTRONIC PCB					
Number of Shelve	s	2	4	4	4	6	
Number of Doors		1	2	2	2	3	
Rated Voltage		115V/60Hz					
Type of Power Core	d		NEMA 5-15				
Amps		3.2	5.2	6.0	6.2		
Compressor(HP)	1/4	1/2	1/2	1/2			
Refrigerant (oz)		1.98 (R-290)	2.58 (R-290)	2.96 (R-290)	3.03 (R-290)		
Operating Range			-3°F to	-7°F or 5°F to	-9.4°F		



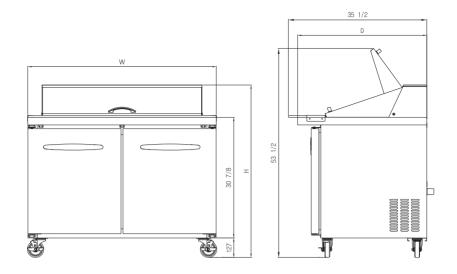
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Product		Salad Table unit						
Model	KST-27-1	KST-36-2	KST-48-2	KST-60-2	KST-72-3			
Capacity(cu.ft)		7	9.5	13.1	16.7	20.2		
Exterior Dimensions	W	27 1/2	36 3/8	48 3/8	60 3/8	72 3/8		
(Including 4" Casters)	D	30	30	30	30	30		
[in]	Н	42 1/2	42 1/2	42 1/2	42 1/2	42 1/2		
Net Weight (Ibs)		146	176	214	236	273		
Type of refrigeration sys	tem		Indirect cooling (Fan blowing)					
Control		ELECTRONIC PCB						
Number of Shelve	S	1	2	2	2	3		
Number of Doors		1	2	2	2	3		
4" Deep PE Pans		8	10	12	16	18		
Cutting Board		9 3/8 X 27 1/2	9 3/8 X 36 3/8	9 3/8 X 48 3/8	9 3/8 X 60 3/8	9 3/8 X 72 3/8		
Rated Voltage		115V/60Hz						
Type of Power Core	d	NEMA 5-15						
Amps		4.0	4.1	4.5	4.7	5.3		
Compressor(HP)		1/4	1/4	1/4	1/4	1/4		
R-290 Refrigerant (oz	:)	1.41	1.62	2.33	2.47	3.39		
Operating Range			33°F ~ 41°F					



- Specifications and Designs are subject to change without notice.
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Product	Mega Top Table unit						
Model		KSTM-27-1	KSTM-36-2	KSTM-48-2	KSTM-60-2	KSTM-72-3	
Capacity(cu.ft)		7	9.5	13.1	16.7	20.2	
Exterior Dimensions	W	27 1/2	36 3/8	48 3/8	60 3/8	72 3/8	
(Including 4" Casters)	D		33 1/8 (Inclue	ding cutting bo	oard 35 1/2)		
[in]	Н	44 1/4	44 1/4	44 1/4	44 1/4	44 1/4	
Net Weight (Ibs)		165	196	234	256	293	
Type of refrigeration sys	tem		Indirect of	cooling (Fan bl	lowing)		
Control		ELECTRONIC PCB					
Number of Shelves	S	1	2	2	2	3	
Number of Doors		1	2	2	2	3	
4" Deep PE Pans		12	15	18	24	27	
Cutting Board		9 3/8 X 27 1/2	9 3/8 × 36 3/8	9 3/8 X 48 3/8	9 3/8 × 60 3/8	9 3/8 X 72 3/8	
Rated Voltage		115V/60Hz					
Type of Power Core	d	NEMA 5-15					
Amps		4.1	4.1	4.7	4.9	5.4	
Compressor(HP)		1/4	1/4	1/4	1/4	1/4	
R-290 Refrigerant (oz	4.1	4.1	4.7	4.9	5.4		
Range of Temperatu	ire			33°F ~ 41°F			



- Specifications and Designs are subject to change without notice.
- The rating plate (including Serial No.) is located on the upper left side of the cabinet interior.

Serial number

The serial number is located on the rating label which is on the left interior wall. Please retain the unit's serial number for service purposes.

INSTALLATION

- 1. GOOD AIR CIRCULATION Inside and Outside the Unit
 - Make sure to avoid any object which will interrupt or block the air flow inside the unit.
 - Make sure to leave enough space toward the interior rear wall to ensure good air circulation
 - Make sure to keep 7 inches space at the rear and sides of the unit.

2. PLACE ON SOLID SURFACE

- A fully loaded unit can weigh over 1,000 pounds.

3. DO NOT PLACE NEAR HEAT SOURCE

- Make sure to avoid hot corner or any location near stove, oven, or other heat source.

- High ambient temperature will cause cooling efficiency to drop.

4. INDOOR USAGE ONLY

-This equipment is intended for indoor use only.

5. STABILIZING

- Make sure the unit is installed on a solid surface with the front wheels locked while in use.

6. LEVELING

- Make sure that the unit is leveled well from front to back and side to side.

7. Unit should be connected to a dedicated electrical circuit.

- Do not use extension cords.
- Plug the unit to a dedicated electrical circuit & adequate capacity.

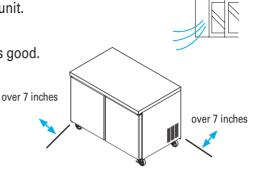
8. Install plastic condensate pan in the bottom of the unit.

- Make sure pads are installed upwards and drain hose is in pan.

9. Install the unit in a place where the air circulation is good.

- Maintain enough spaces around the unit since air
- to ensure the best cooling performance
- If air circulation is obstructed, then cooling

performance will drop, thus consuming more electricity as a result.



% Reference

- If a door for left hand is necessary, please contact the sales representative in your area.
- · A set of door & Door hinge can be purchased separately to convert between Right Hand and Left Hand side

CLEANING



WARNING - To reduce the risk of electric shock, unplug before cleaning or servicing.

1. CLEANING THE INTERIOR AND EXTERIOR

-The interior and exterior of the unit can be cleaned using warm water with soap.

- Do not use an abrasive cleaner because it will scratch the surface.

2. CLEANING THE GASKET

-The door gasket should be cleaned frequently to maintain proper sealing. Use warm water and a mild soap.

3. CLEANING THE EVAPORATOR

-The condenser coil must be cleaned a minimum of every 90 days or more frequently if there is a large accumulation of dust.

-Clean the condenser coil with a soft brush or a vacuum. Brush only in the direction of the fins.

-If using compressed air, always blow the air from top to botton and never from left to right to avoid bending the fins.

-If there is a buildup of grease or you cannot remove the dust, call for service. This is not a warranty issue.

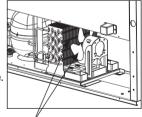
4. CHECK AFTER CLEANING

- Check the unit again for safety.

- Check if the unit is operating properly.

5. CONDENSER CLEANING

- ① Disconnect power to unit
- ② Take off rear cover at the bottom by removing screws.
- ③ Clean off accumulated dirt from condensing coil and fan blades with a soft brush. Make sure to brush in the direction of the fins and not across them to avoid any damage.
- ④ After brushing condenser coil, vacuum dirt from coil and interior floor.
- ⑤ Reinstall rear cover onto unit. Tighten all screws.
- ⑥ Connect unit to power and check to see if compressor is running.



Condensing coil & fan blades

Caution

1. POWER CORD

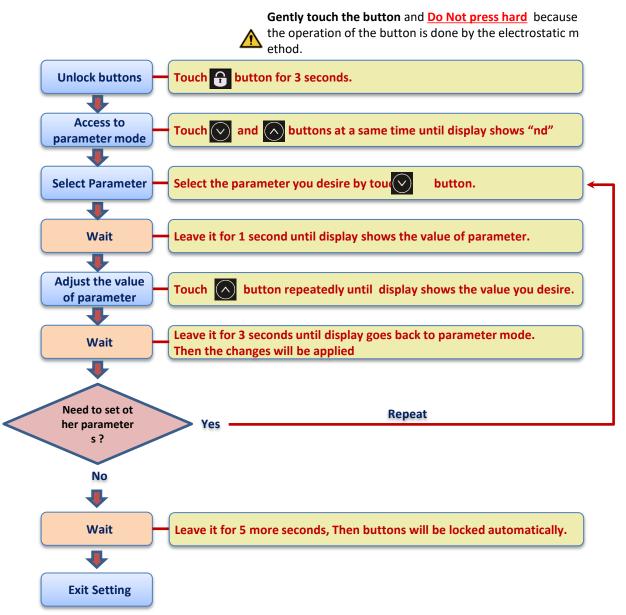
- Make sure the power cord is connected to the proper voltage.
- Compressor warranties are void if compressor burns out due to improper voltage.
- A protected circuit of the correct voltage and amperage must be used for connection of the power cord.
- -Turn 'off ' the power switch before disconnecting the power cord whenever performing maintenance functions or cleaning the refrigerated cabinet.
- If the power cord of the unit is damaged, it should be replaced by an authorized service agent.

2. RE-STARTING

- If disconnected, wait 5 minutes before re-starting.

Parameter Setting

Follow the steps to set the value of parameter.



<Blue air> Default Value of Parameter

					Tabl	le Units				
	Para	- "	Control or Range of	control or Range of REF						
No	-meters	Function	control	KUCR	KST/KSTM	KUCR-72-3 KST-72-3 KSTM-72-3	KUCF	Remarks		
1	nd	Model Code See the table below	Not recommended to change.	UCr	UCS	UC7	UCF	Factory use Only		
2	as	Forced Defrost, When select "dF"	dS ; Normal operation dF ; Forced Defrost	dS	dS	dS	dS			
3		Cabin Temperature Calibration	"-50 ~50"	10	10	0	10	Factory or Service technician use Only		
4	od	Differential for set point	"025~50"	10	10	10	10			
5	ĊA	Cabin Sensor Calibration	"-50~50"	-10	-10	0	-10	Factory or Service technician use Only		
6	ар	Display temperature calibration	"1~10"	4	4	4	4	Factory use Only		
7	đt	Interval between defrost cycles	"0,5,6,7,8,9,10" Hr(s)	5	5	5	8			
8	nt	Maximum Defrost interval control	"0~99"	N/A	N/A	N/A	8	Factory use Only		
9	dC	Defrost termination Temperature control	"10~20°C" Control by °C only	N/A	N/A	N/A	12			
10	HI	Cord Heater ON/OFF c ontrol	"OF,1,2,3,-1,-2,-3,ON"	-2	-2	-2	-2	Factory use Only		
11	Fn	Evaporator fan control	Co ; runs continuously "" ; runs with the comp		Co	Co				
12	Ld	Light ON/OFF control	OFF; Light ON or OFF by door switch ON; ON continuously	OFF	OFF	OFF	OFF			
13	UFn	Vaporizer fan set	OFF; For the model doesn't have Vap Fan ON; For the model has Vap Fan	OFF	OFF	OFF	OFF	Factory or Service technician use Only		
14	Cr	Alarm interval for cleaning condenser coil	"0,3,6,9" months	0	0	0	0			
15	aa	Display by every (0.1,0.5, or 1 °F/°C)	"01,05,10"	10	10	10	10	Factory use Only		
16	HL	Maximum set point	FRZ; -22 ~ 32°F REF; 23 ~ 59°F	40	40	40	6			
17	LL	Minimum set point	FRZ; -22 ~ 32°F REF; 23 ~ 59°F	33	33	33	-10			
18	CF	Measurement unit "°C" or "°F"	Display will show "°C" or "°F"	F	F	F	F			
19	Er	Error test mode			Factory	y use Only				
20	tE	Test Mode	See the following instruc tion for more details		Factory	y use Only				
21	- C.	Parameter reset to Defa ult at factory			Factory	Factory use Only				

Terms :

- REF ; Refrigerator
- FRZ ; Freezer
- BOT ; Bottom mounted compressor model
- •TOP ; Top mounted compressor model
- Vap Fan ; Vaporizer Fan [for condensate water]

Details of Parameter

nd Select a program by model.

• It is not recommended to change. Keep the default. Changes may invalidate the warranty.

UCr	KUCR-27,36,48,60-***
UCS	KST/KSTM28 36 48 60-***

- UC7 KUCR/KST/KSTM72-***
- UCF KUCF28,36,48,60-***
- ds Defrost Control

• dS default – operation in normal.
 • dF Perform defrost 5 sec after it is selected.

oF Cabin temperature control : Factory use Only. Unit will be controlled with Set Temp + oF value

onit will be controlled with set temp + of value									
Code	Value	Code	Value	Code	Value				
"00"	0	"-35"	-6.3°F	" 35"	6.3°F				
"- 5"	-0.9°F	"-40"	-7.2°F	" 30"	5.4°F				
"-10"	-1.8°F	"-45"	-8.1°F	" 25"	4.5°F				
"-15"	-2.7°F	"-50"	-9.0°F	" 20"	3.6°F				
"-20"	-3.6°F	" 50"	9.0°F	" 15"	2.7°F				
"-25"	-4.5°F	" 45"	8.1°F	" 10"	1.8°F				
"-30"	-5.4°F	" 40"	7.2°F	" 5"	0.9°F				

Od Differential, Intervention deferential for set point, Compressor cut in is Set Point + Od value and cut out is Set Point - Od value

• . JE I I L/IIII -	CHI VIIIIE.		
Code	Value	Code	Value
"025"	±0.45°F	" 20"	±3.6°F
"050"	±0.9°F	" 30"	±5.4°F
"075"	±1.35°F	" 40"	±7.2°F
" 10"	±1.8°F	" 50"	±9.0°F
" 15"	±2.7°F		

CA Calibration of the temperature difference between the actual temperature of cabinet and the temperatur e of display. The display will show "Sensing tempera ture + the value of CA.

Code	Value	Code	Value
" 00"	0	" 50"	9.0°F
"-10"	-0.9°F	" 40"	7.2°F
"-20"	-3.6°F	" 30"	5.4°F
"-30"	-5.4°F	" 20"	3.6°F
"-40"	-7.2°F	" 10"	1.8°F
"-50"	-9.0°F		

- *dp* Temperature sensor calibration :Factory use Only. *keep the default.*
- *dt* Interval between defrost cycles.
 0,5,6,7,8,9,10 Hour(s) can be selected.
- *nt* Maximum Defrost interval control. :Factory use Only.*keep the default.*

- **dc** Defrost termination temperature control. • 10~20°C (Controlled by °C base only)
- *Ht* Cord Heater ON/OFF time control : Factory use Only. *keep the default.*

		Hea	ter ON	/ OFF	Difference between cabin te				
Code	X=10 ↓	20↓	30↓	40↓	50↓	60↓	60个	mperature(T1) and Ambient t emperature(T2), X= T1-T2	
"OF"			Cord ⊦	leater	is OFF				
1	14/20	12/10	21/7	45/5	ON	ON	ON		
2	11/20	10/10	16/7	26/5	90/5	ON	ON	If the cabin temperature is hig	
3	9/20	8/10	12/7	17/5	45/5	ON	ON	her than 76 ° F, the cord heat	
-1	7/20	7/10	9/7	12/5	28/5	90/5	ON	er remains on. When the temperature is 76 °	
-2	5/20	5/10	7/7	8/5	15*5	28/5	90/5	F or below, the heater operat	
-3	4/20	4/10	5/7	5/5	9/5	18/5	45/5	es according to the time (ON /	
0	2/20	3/10	3/7	3/5	5/5	11/5	28/5	OFF) of the table.	
"ON"		Cord H	leater	is ON d	ontinu	ously			

- **Fn** Evaporator Fan operation control
 - •Co; runs continuously except door open.
 - •--; runs with the compressor.
- Ld Light control
 - •OFF ; Turns ON or OFF by the door switch.
 - •ON ; Turns ON continuously.

UFn Light control

f.

- OFF; For the model doesn't have Vap Fan.
- •ON; For the model has Vap Fan.
- **Cr** Alarm interval for cleaning condenser coil.
 - Kicks on by the interval selected. (0,3,6,9 Months) Touch and buttons at a same time to turn it of

Make sure the condenser coil clean before it.

- HL Maximum set point ; FRZ; -22 ~ 32°F, REF; 23 ~ 59°F
- **LL** Minimum set point ; **FRZ**; -22 ~ 32°F, **REF**; 23 ~ 59°F
- **dd** Temperature display steps by the value selected. **01** = 0.1°F, **05** = 0.5°F, **10** = 1.0°F
- **CF** Measurement unit °C or °F.
- **Er** Error check mode.

If there are no errors, "**no**" is displayed. If the produc t has problems, display the error code in turn on th e display. See the error code table.

- See the error code table
- **tE** Test mode Each time you select a code, you can check the oper ation status of the corresponding part. See the test c ode table.
- **EC** After 1 second after "**EC**" is displayed, all parameters are reset to initial default state.

Error Code Table

Error Code	Cause	Error Conditions	Display before accessing Error Check mode	Status of Unit
"S1 "	Defective Temperature (Cabin)senor	Sensor is disconnected, opened or Cabinet Te mperature is below -58°F	ESL	Show "ESL" on display with alarm sou
"S1_"	Defective Temperature (Cabin)senor	Sensor is shorted or Cabinet Temperature is ab ove 149°F	ESL	nd(beep)
"rt "	Defective Ambient Temperature sensor	Sensor is disconnected or opened	Shows cabin temperature	Decomizes the ambient temperature
"rt_"	Defective Ambient Temperature sensor	Sensor is shorted	Shows cabin temperature	Recognizes the ambient temperature as 90°F and operates normally.
"D1 "	Defective Defrost Sensor	· •	Shows cabin temperature or display "tO"	
"D1_"	Defective Defrost Sensor	Sensor is shorted or Cabinet Temperature is ab ove 149°F	Shows cabin temperature or display "tS"	
"dF1"	Fail to defrost	Defrosting time is more than 50 minutes	Shows cabin temperature	
"CF1"	Fail to cool	30 minutes after Comp operation, if the defrost sensor is sensing 32°F or above,	Shows cabin temperature	
"EHF"	Freezer cabin temperat ure high	If the cabin temperature is above 45°F for 8 hou rs after the compressor starts up	Shows cabin temperature	
"EHr"	Refrigerator cabin temp erature high	If the cabin temperature is above 45°F for 8 hou rs after the compressor starts up	Shows cabin temperature	
"Edr"	Door Open	When Door is open for more than 1 hour (Door Switch)	Edr	Alarm (Beeping sound)
"EF1"	E-FAN1 Error		EF1	Alarm (Beeping sound)
"Ufn"	V-FAN Error	V-FAN is disconnected, opened or not running.	Ufn"	Alarm (Beeping sound)

Test mode

Code	Test Time or Display	Test what	Remarks
"St"	10 Sec	Stand by	REF/FRZ
"CP1"	Continuous	Comp/Fan ON	REF/FRZ
"dHt"	Continuous	Defrost Heater ON	FRZ Only
"CHt"	Continuous	Code Heater ON	REF/FRZ
"LP"	Continuous	Light ON	REF/FRZ
"rS"	Display "rS"	Cabin sensor	REF/FRZ
"rt"	Display "rt"	Ambien Sensor	REF/FRZ
"ds"	Display "ds"	Difrost sensor	REF/FRZ

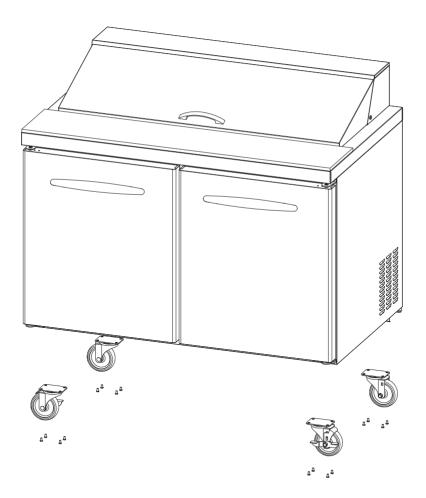
Trouble-Shooting

Problem	Possible Cause	Action
Compressor not working	Power connection failure	Check Power Cord and plug it in
Compressor not working	Power switch is in off position	Change it on position
	Temperature set point is too high	Correct temperature set point
	The door is opened too frequently	-
The unit does not	Loading of too much warm or moist product	-
refrigerate well	Not enough ventilation	Move the unit in a well Ventilated place with at least 7 Inches of clearance on all sides
	Condenser is clogged	Clean it
Condensation on cabinet exterior	High humidity can cause surface condensation. Also, make sure that the door seals are clean and in good condition.	Wipe with cloth

• A water-flowing sound can be heard when the unit is operating. This is the sound of refrigerant flowing.

Installing Castors

- 1. Remove the outer packing.
- 2. Install the castors as illustrated.
- 3. Maker sure that the castors with brakes are installed at the front of the unit.





warranty

THREE YEAR PARTS & LABOR WARRANTY

MVP GROUP CORP. (KOOL-IT) warrants to the original purchaser of every new KOOL-IT refrigerated unit to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by MVP Group Corp. and upon proper installation and start-up in accordance with the instruction packet supplied with each unit. MVP Group's obligation under this warranty is limited to a period of three (3) years from the date of original installation.

Any original part covered under this warranty that is determined by MVP Group Corp. to have been defective within three (3) years of original installation shall be limited to the repair or replacement, including the labor charge for defective parts or assemblies. The labor warranty shall include standard straight time labor charges only and reasonable travel time, as determined by MVP Group Corp.

Warranty shall not cover standard wear and tear parts which include door gaskets, incandescent bulbs, LED lamps, or fluorescent bulbs. Warranty also does not cover issues caused by improper installation or lack of basic preventative maintenance which includes, but not limited to regular cleaning of condenser coils.

ADDITIONAL TWO YEAR COMPRESSOR WARRANTY

In addition to the three (3) year warranty stated above, MVP Group Corp. hereby warrants its hermetically and semihermetically sealed compressors to be free from defects in both material and workmanship under normal and proper use and maintenance service for a period of two (2) additional years from the date of original installation, but shall at no times exceed five (5) years after shipment from the manufacturer.

Compressors determined by MVP Group Corp. to have been defective within this extended time period will, at MVP Group Corp's option, be either repaired or replaced with a compressor or compressor parts of a similar capacity. The two (2) year extended compressor warranty applies only to hermetically and semi-hermetically sealed parts of the compressor and does not apply to any other parts of components, including but not limited to: cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly or any other electrical component, Etc.



5659 Royalmount Ave. Montreal, QC H4P2P9 CANADA Telephone: (514) 737-9701 Toll Free Telephone: 1-888-275-4538 Fax: (514) 342-3854

For service call 1-888-275-4538

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