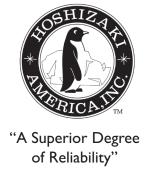
# Hoshizaki America, Inc.

# Modular Crescent Cuber

Models KM-461MAH KM-461MWH KM-461MRH



**PARTS LIST** 

www.hoshizaki.com



Number: 71265 Issued: 1-19-2007

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#### **Auxiliary Codes**

KM-461MAH	R-0	April 2006
KM-461MWH	R-0	April 2006
KM-461MRH	R-0	April 2006

#### **Auxiliary Code Breakdown**

K-0

Designates the year. "K" indicates the year 2000. Years progress or regress in alphabetical order.

"J" is 1999, "L" is 2001, "M" is 2002, and so on. The letters "I" and "O" were skipped.

Designates significant part changes within the same year for this model. Base is 0 and this number advances for each change.

Example: P-1

"P" indicates 2004.

"1" indicates the first significant part change for 2004.

### **Note About Ordering Parts**

Most assemblies cannot be ordered as complete units; parts in the assemblies generally must be ordered separately.

#### **Material Abbreviations**

**ALUMINUM** 

AL = Aluminum

**COPPER** 

CU = Copper

**PLASTIC** 

ABS = Acrylonitrile -butadiene - styrene

AC = Polyacetal

EVA = Ethylene vinyl acetate
PA = Polyamide = Nylon
PC = Polycarbonate
PE = Polyethylene

PES = Polyester

PETP = Polyethylene terephthalate = Tetlon

PP = Polypropylene PS = Polystyrene

PTFE = Polytetrafluoroethylene = Teflon

PUR = Polyurethane PVC = Polyvinyl chloride

**RUBBER** 

VN = Vinyl Nitrile EPDM = EP rubber

NBR = Nitrile butadiene rubber

NR = Natural rubber
NP = Neoprene
SI.R = Silicone rubber
SY.R = Synthetic rubber
EPH = Epichlorohydrin

**STEEL** 

GS = Galvanized steel
SS = Stainless steel
PS = Plated steel
PAS = Primed steel

# A. Ice Cuber Assembly **KM-461MAH** R-0 **G** (6a) 5 7 (7a) (15)(15a) (13) 19 (D1) D **©** (2)(2a) 3 (3a)(3b) 20

21

17

9

For Thermostat, see

D. Control Box Assembly

Title: A.	Ice Cuber Assembly Mod	el: <b>KM-461MAH</b>									
Index		Material or				Requ	ired N	lumber			
No.	Description	Model Number	Part Number	R-0							
В	Refrigeration Circuit	-	1A1133A01	1							
С	Water Circuit	-	1A0283A05	1							
D	Control Box Assembly	-	2A3765A01	1							
D1	T2 Screw	4×8	7P31-0408	4							
Е	Label Location	-	3A3874A01	1							
F	Front Panel Assembly	SS	2A3767G01	1				ĺ	İ		
F1	Truss Head Screw	4×8, SS	7C32-0408	1				İ			
G	Top Panel Assembly	SS	3A3878A01	1				İ			
		•									
1	Evaporator Case	-	1A0579G06	1							
2	Base	-	2A2146G12	1							
2a	FT Screw	4×8	7F31-0408	7							
3	Frame	-	3A2503G01	1				İ			
3a	Truss Head Screw	4×8, SS	7C32-0408	1				İ			
3b	Truss Head Screw	4×25, SS	7C32-0425	2				İ		İ	
4	Square Washer	BRASS	433537-02	1				1			
5	Screw - Grounding	BRASS	433304-02	1				<u> </u>			
6	Top Frame	GS	3A3741-01	1				İ			
6a	T2 Screw	4×8	7P31-0408	4							
7	Side Frame	GS	3A2782-01	1							
7a	T2 Screw	4×8	7P31-0408	2				1			
8	Bulb Holder	-	3A3903-01	1				1			
9	Strap	-	435487-01	1				1			
10	Thumbscrew	SS, ABS	415949G10	3				İ		İ	
11	Base Cover	SS	321525G01	1		İ		İ		İ	
12	Top Insulation	PP	215730G01	1				İ		İ	
13	Front Insulation	PP	215731G01	1				İ			
14	Side Panel (R)	SS	2A2117G01	1							
14a	T2 Screw	4×8, SS	7P32-0408	1				1			
15	Control Box Cover	GS	3A2476-01	1							
15a	T2 Screw	4×8	7P31-0408	1				İ			
16	Air Filter (A)	ABS	2A2062G01	2				İ			
17	Louver (A)	ABS	1A0547-01	2				İ		İ	
18	Push Retainer	-	4A2414-01	6		İ	İ	İ		İ	İ
19	Barrier	GS	4A0362-01	1							
19a	T2 Screw	4×8	7P31-0408	2				İ			
20	Silicone Hose	L = 670	7730 3812	1				İ			
21	Gasket	L = 554	4A0808L02	1				1			
22	Barrier - Insulation	GS	4A1167-01	1							
22a	T2 Screw	4×8	7P31-0408	2							

# A. Ice Cuber Assembly KM-461MWH R-0 G (6a) 6 7 (7a) (15)(15a) 1 (13) **D**(D1) B F 2)(2a) (11) 10 (16) 9 For Thermostat, see D. Control Box Assembly

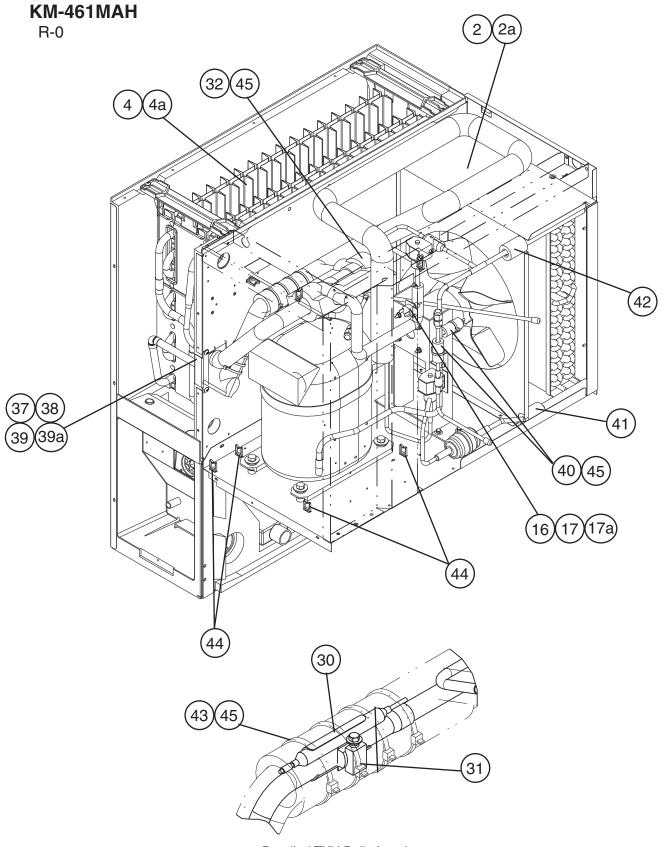
Title: A.	. Ice Cuber Assembly Model: K	M-461MWH								
						Requi	red N	umber		
Index		Material or								
No.	l I	Model Number	Part Number	R-0						
В	Refrigeration Circuit	-	1A1135A01	1						
С	Water Circuit	-	1A0283A05	1						
D	Control Box Assembly	-	2A3765A02	1						
D1	· ·	4×8	7P31-0408	4						
E	Label Location	-	3A3875A01	1						
F	Front Panel Assembly	SS	2A2150G01	1						
F1	Truss Head Screw	4×8, SS	7C32-0408	1				İ		
G	Top Panel Assembly		3A3878A01	1				İ		
1	Evaporator Case	-	1A0579G06	1						
2	Base	-	2A2146G13	1						
2a	FT Screw	4×8	7F31-0408	7						
3	Frame	-	3A2503G01	1						
3a	Truss Head Screw	4×8, SS	7C32-0408	1						
3b	Truss Head Screw	4×25, SS	7C32-0425	2						
4	Square Washer	BRASS	433537-02	1						
5	Screw - Grounding	BRASS	433304-02	1						
6	Top Frame	GS	3A3741-01	1						
6a	T2 Screw	4×8	7P31-0408	4						
7	Side Frame	GS	3A2782-01	1						
7a	T2 Screw	4×8	7P31-0408	2						
8	Bulb Holder	-	3A3903-01	1						
9	Silicone Hose	L = 670	7730 3812	1						
10	Thumbscrew	SS, ABS	415949G10	3						
11	Base Cover	SS	321525G01	1						
12	Top Insulation	PP	215730G01	1						
13	Front Insulation	PP	215731G01	1						
14	Side Panel (R)	SS	2A2117G01	1						
14a		4×8, SS	7P32-0408	1						
15	Control Box Cover	GS	3A2476-01	1						
15a	T2 Screw	4×8	7P31-0408	1						
16	Gasket	L = 554	4A0808L02	1						
17	Barrier – Insulation	GS	4A1167-01	1						
17a	T2 Screw	4×8	7P31-0408	2						
18	Strap	-	435487-01	1						

# A. Ice Cuber Assembly KM-461MRH R-0 (20) 5 (18) (18a) 6a 6 (15)(15a) 1 (13) 19 (19a **D**(D1) E F 14)(14a) (2a) (11) 3a (3b) 10 (17) 16 F1 For Thermostat, see [8] D. Control Box Assembly 9

Title: A.	. Ice Cuber Assembly Model: I	CM-461MRH	,	,						,
Index		Material or			'	Requi	red N	umber		
No.	Description	Model Number	Part Number	R-0						
В	Refrigeration Circuit	-	1A1137A01	1						
С	Water Circuit	-	1A0283A05	1						
D	Control Box Assembly	-	2A3765A02	1						
D1	T2 Screw	4×8	7P31-0408	4						
Е	Label Location	-	3A3876A01	1						
F	Front Panel Assembly	SS	2A2150G01	1						
F1	Truss Head Screw	4×8, SS	7C32-0408	1						
G	Top Panel Assembly	SS	3A3878A01	1						
1	Evaporator Case	-	1A0579G06	1						
2	Base	-	2A2146G14	1						
2a	FT Screw	4×8	7F31-0408	7						
3	Frame	-	3A2503G01	1						
3a	Truss Head Screw	4×8, SS	7C32-0408	1						
3b	Truss Head Screw	4×25, SS	7C32-0425	2						
4	Square Washer	BRASS	433537-02	1						
5	Screw - Grounding	BRASS	433304-02	1						
6	Top Frame	GS	3A3741-01	1						
6a	T2 Screw	4×8	7P31-0408	4						
7	Side Frame	GS	3A2782-01	1						
7a	T2 Screw	4×8	7P31-0408	2						
8	Bulb Holder	-	3A3903-01	1						
9	Strap	-	435487-01	1						
10	Thumbscrew	SS, ABS	415949G10	3						
11	Base Cover	SS	321525G01	1						
12	Top Insulation	PP	215730G01	1						
13	Front Insulation	PP	215731G01	1						
14	Side Panel (R)	SS	2A2117G01	1						
14a	T2 Screw	4×8, SS	7P32-0408	1						
15	Control Box Cover	-	3A2476-01	1						
15a	T2 Screw	4×8	7P31-0408	1						
16	Gasket	L = 554	4A0808L02	1						
17	Silicone Hose	L = 670	773013812	1						
18	Junction Box Cover	GS	433410-01	1						
18a	T2 Screw	4×8	7P31-0408	1						
19	Barrier - Insulation	GS	4A1167-01	1						
19a	T2 Screw	4×8	7P31-0408	2						
20	Bushing	SR-30-1	420472-03	1						

# **B. Refrigeration Circuit**

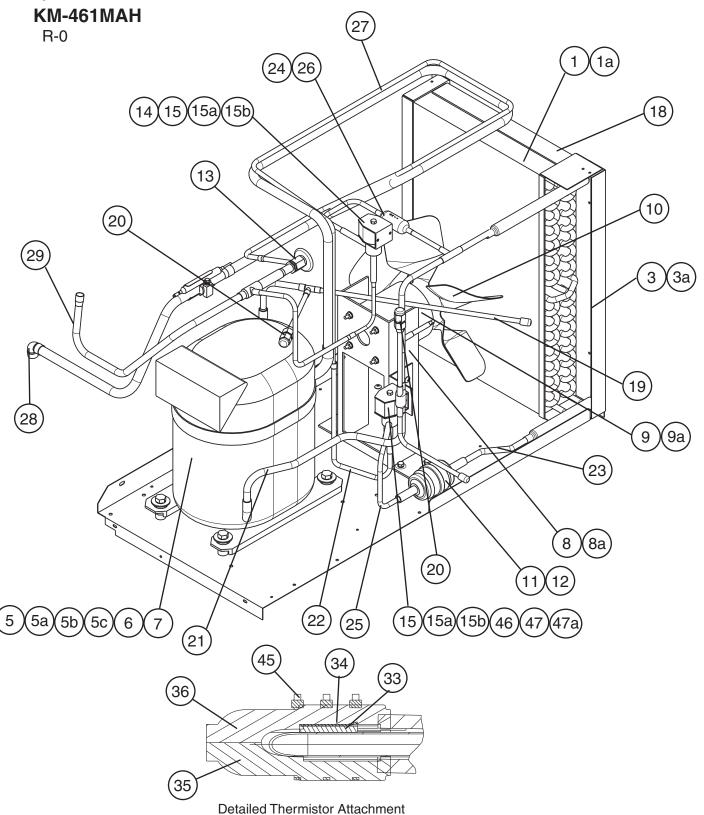
1/2



Detailed TXV Bulb Attachment

# **B. Refrigeration Circuit**

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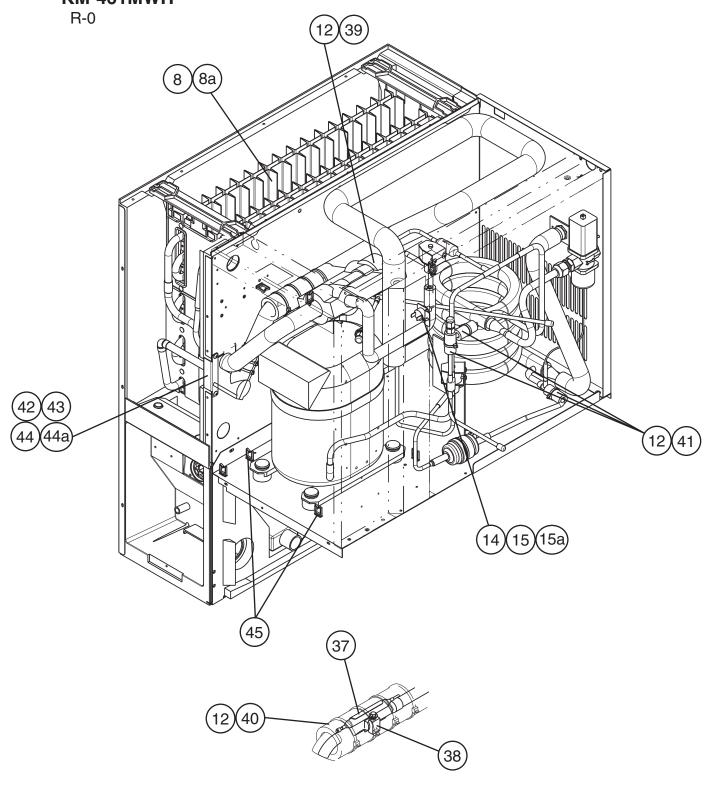


Title: B.	. Refrigeration Circuit Model:	KM-461MAH								
						Requi	red N	umber		
Index		Material or								
No.	Description	Model Number		R-0						
1	Condenser	-	2A3756-01	1						
1a	T2 Screw	4×8	7P31-0408	2					<u> </u>	
2	Shroud	GS	2A3760-01	1					<u> </u>	
2a	T2 Screw	4×8	7P31-0408	5	$\sqcup$					
3	Barrier	GS	433693-04	1	$\longmapsto$					
3a	T2 Screw	4×8	7P31-0408	2	$\vdash$			-		
4	Evaporator	-	106492G01	1				-		
4a	T2 Screw	4×16, SS	7P32-0416	4						
5	Compressor	RS43C2E-CAA	4A2300-01	1	$\vdash$				$\vdash$	
5a	Bolt	8×45	437889-01	4						
5b	Spacer	027-0072-02	434404-01	4	$\vdash \vdash \vdash$			<u> </u>		
5c	Grommet	527-0039-04	434403-01	4	$\vdash \vdash \vdash$			<u> </u>		
6	Protector	071-0527-04	4A1805-01	1	$\vdash$					
7	Protector Holder	-	437339-01	1	$\vdash$					
8	Fan Motor Bracket	GS 5×12	3A3859-01	1	$\vdash$				$\vdash$	
8a	Hex Bolt Assembly (LF)		7B0130512	4	$\vdash$					
9	Fan Motor	5KCP84DFK148S		1	$\vdash$					
9a	Self-locking Nut	NO. 8-32	7N21I0832	4	$\vdash$					
10	Fan Blade	AD10EECW40		1	$\vdash$					
11	Drier	C-03E126	4A2666-01	1	$\vdash$		_		$\vdash$	
12	Nylon Tie	-	8911-0301	1	$\vdash$					
13	Expansion Valve	HFE-10NHDU-4		1						
14 15	Valve Body - Hot Gas Coil - Valve	-	4A3978-01 4A3277-01	2						
15a	Bolt	4×6	4A3277-01 4A3277F01	2	$\vdash$					
15a	Truss Head Screw	4×8	7C31-0408	4						
16	Pressure Switch	ACB-1UB09	433441-07	1						
-	Pressure Switch Bracket		434938-01	1	$\vdash$					
		1 0			$\vdash$					
17a	T2 Screw	4×8	7P31-0408	1		<u> </u>		<u> </u>		
18	Gasket	L = 245	4A0808L01	2	$\vdash$					
19	Copper Tube Access Valve	COPPER	3A3857G01	1				<u> </u>		
20	Access Valve	-	457729-01	2						
21	Copper Tube (A) - High Side	COPPER	2A3757G01	1						
22	Copper Tube (B) - High Side	COPPER	4A3962-01	1						
23	Copper Tube (C) - High Side	COPPER	4A3961-01	1						
24	Copper Tube (D) - High Side	COPPER	3A3855G01	1						
25	Copper Tube (E) - High Side	COPPER	3A3905-01							$\vdash \vdash \vdash$
26	Strainer	(included in item 24: 3A3855G01)		1						
27	Heat Exchanger	-	2A4043G01	1						
28	Elbow	COPPER	417395-03	1						
29	Copper Tube - Hot Gas	COPPER	2A4099G01	1						
30	Holder / Exp. Valve – 3/8	SS	3A0107-01	1						
31	Clamp	SS	443461-02	1						

Title: B.	Refrigeration Circuit Model:	KM-461MAH								
						Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0						
32	Expansion Valve Cover	PE FOAM	3A0944-01	1						
33	Thermistor	-	429006-03	1						
34	Holder - Thermistor	COPPER	427430-01	1						
35	Insulation - Thermistor (A)	PE FOAM	439368-01	1						
36	Insulation - Thermistor (B)	PE FOAM	439368-02	1						
37	Rubber Insulation (A)	EPDM	3A1044-01	1						
38	Rubber Insulation (B)	EPDM	3A1045-01	1						
39	Insulation Holder	-	4A1550-01	1						
39a	T2 Screw	4×8, SS	7P32-0408	2						
40	Insulation Tube	L = 40	7762-1020	2						
41	Insulation Tube	L = 40	7762-1030	1						
42	Insulation Tube	L = 40	7762-1630	1						
43	Insulation Tube	L = 150	7762-2943	1						
44	Wire Saddle	VWS4238-C	4A0338-02	8						
45	Cable Tie	CV-200 (PLT- 2M)	8911-0200	12						
46	Valve Body - Liquid Line	-	4A3276-01	1						
47	Line Valve Bracket	-	4A4011-01	1						
47a	T2 Screw	4×8	7P31-0408	2						

# B. Refrigeration Circuit 1/2

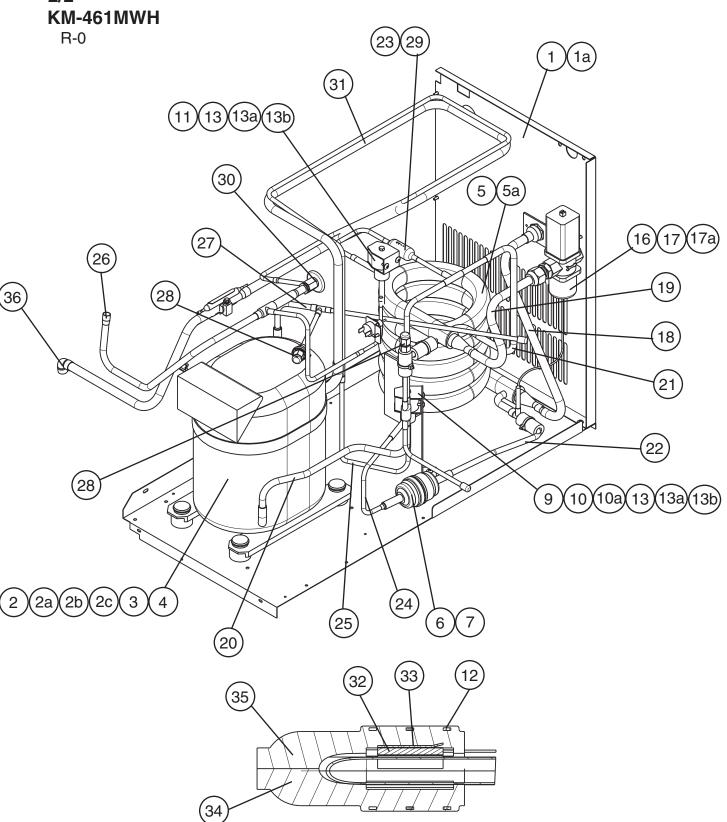
### KM-461MWH



Detailed TXV Bulb Attachment

## **B. Refrigeration Circuit**

2/2



**Detailed Thermistor Attachment** 

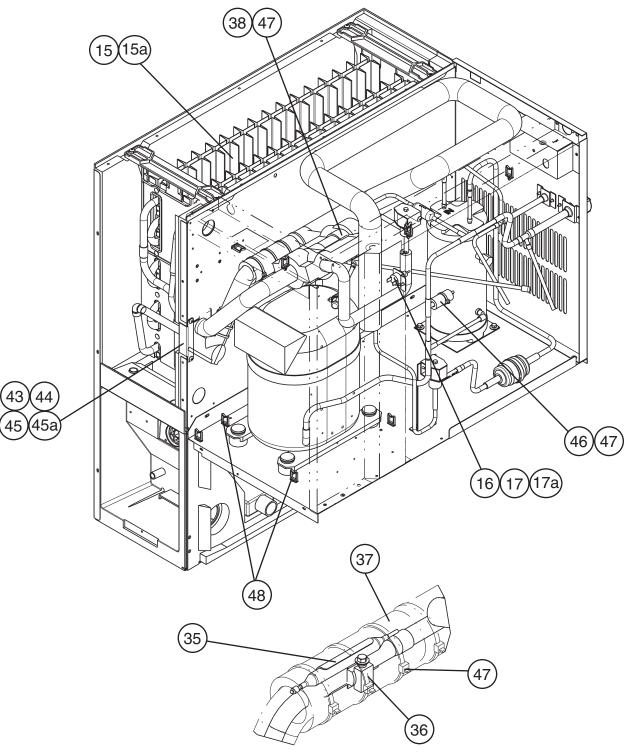
Title: B.	Refrigeration Circuit Model: I	KM-461MWH								
	<u> </u>					Requi	red N	umber		
Index		Material or		_						
No.	Description	Model Number		R-0						
1	Rear Panel	GS	2A1426-01	1						
1a	T2 Screw	4×8	7P31-0408	5						
2	Compressor	RS43C2E-CAA	4A2300-01	1						
2a	Bolt	8×45	437889-01	4						
2b	Spacer	027-0072-02	434404-01	4						
2c	Grommet	027-0073-00	434403-01	4						
3	Protector	-	4A1805-01	1						
4	Protector Holder	-	437339-01	1						
5	Condenser - Water-Cooled	-	2A3759-01	1						
5a	Hex Bolt Assembly (LF)	8×20	7B0130820	2						
6	Drier	C-03E 126	4A2666-01	1						
7	Nylon Tie	NYLON	8911-0301	1	 					
8	Evaporator	-	106492G01	1						
8a	T2 Screw	4×16, SS	7P32-0416	4						
9	Valve Body - Liquid Line	-	4A3276-01	1						
10	Valve - Bracket	-	436893-01	1						
10a	T2 Screw	4×8	7P31-0408	2						
11	Valve Body - Hot Gas		4A3978-01	1						
12	Cable Tie	PLT-2M	8911-0200	14						
13	Coil - Valve	AMS-C12HDU-3		2						
13a	Bolt	-	4A3277F01	2						
13b	Truss Head Screw	4×8	7C31-0408	4						
14	Pressure Switch	ACB-2UB04	433441-05	1						
15	Pressure Switch Bracket	GS	434938-01	1						
15a	T2 Screw	4×8	7P31-0408	1						
16	Male Connector	-	4A1087-01	1						
17	Water Regulator	V46DA-5	4A0911-06	1						
17a	Truss Head Screw	4×6	7C31-0406	2						
18	Copper Tube (A) - Water Circuit	COPPER	4A3966G01	1						
19	Copper Tube (B) - Water Circuit	COPPER	3A3863G01	1						
20	Copper Tube (A) - High Side	COPPER	2A3757G01	1						
21	Copper Tube (B) - High Side	COPPER	3A3864-01	1						
22	Copper Tube (C) - High Side	COPPER	4A3974G01	1						
23	Copper Tube (D) - High Side	COPPER	3A3855G01	1						
24	Copper Tube (E) - High Side	COPPER	3A3541-01	1						
25	Copper Tube (F) - High Side	COPPER	4A3971-01	1						
26	Copper Tube - Hot Gas	COPPER	2A4099G01	1						
27	Copper Tube – Access Valve	-	3A3857G01	1						
28	Access Valve	TCJ-2F20NHDU- 1	457729-01	2						
29	Strainer	(Included in item 23: 3A3855G01)	441569-01	1						
30	Expansion Valve	HFE-10NHDU-4	4A4008-01	1						
31	Heat Exchanger	-	2A4043G01	1						
32	Thermistor	-	429006-03	1						
33	Holder - Thermistor	-	427430-01	1						

Title: B.	Refrigeration Circuit Model:	KM-461MWH								
						Requi	red N	umber		
Index		Material or								
No.	Description	Model Number	Part Number	R-0						
34	Insulation - Thermistor (A)	PE FOAM	439368-01	1						
35	Insulation - Thermistor (B)	PE FOAM	439368-02	1						
36	Elbow	COPPER	417395-03	1						
37	Holder/Expansion Valve - 3/8	-	3A0107-01	1						
38	Clamp	SS	443461-02	1						
39	Expansion Valve Cover	PE FOAM	3A0944-01	1						
40	Insulation Tube	L = 150	7762-2943	1						
41	Insulation Tube	L = 40	7762-1020	3						
42	Rubber Insulation (A)	EPDM	3A1044-01	1						
43	Rubber Insulation (B)	EPDM	3A1045-01	1						
44	Insulation Holder	-	4A1550-01	1						
44a	T2 Screw	4×8, SS	7P32-0408	2						
45	Wire Saddle	-	4A0338-02	8						

# B. Refrigeration Circuit 1/2

#### KM-461MRH

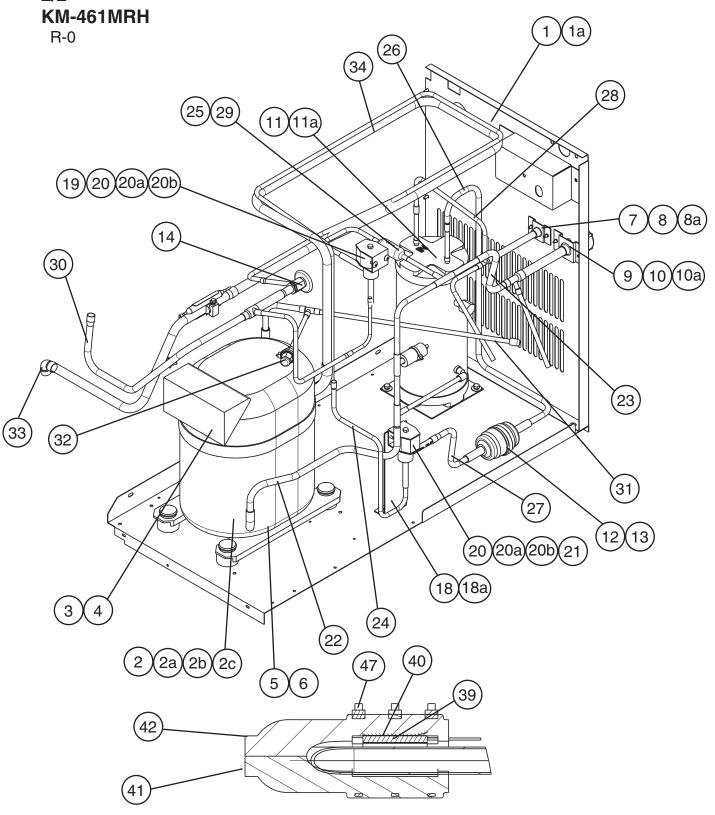
R-0



Detailed TXV Bulb Attachment

## **B. Refrigeration Circuit**

2/2

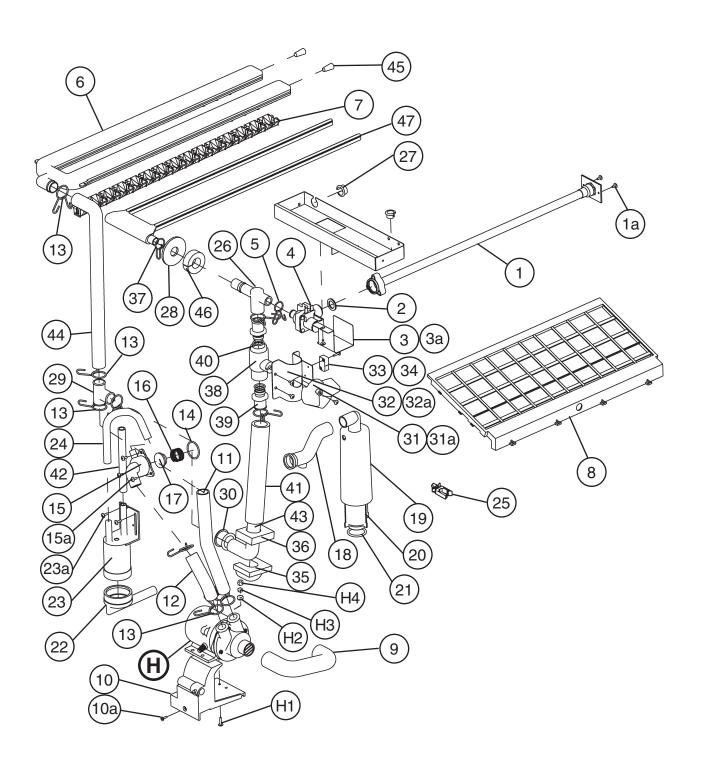


**Detailed Thermistor Attachment** 

Title: B.	Refrigeration Circuit Model:	KM-461MRH								
	-					Requi	red N	umber		
j j										
Index		Material or								
No.	Description	Model Number		R-0						
1	Rear Panel	GS	220468G03	1						
1a	T2 Screw	4×8	7P31-0408	5						
2	Compressor	RS43C2E-CAA	4A2300-01	1						
2a	Bolt	8×45	437889-01	4						
2b	Spacer	027-0072-02	434404-01	4						
2c	Grommet	527-0073-00	434403-01	4						
3	Protector	-	4A1805-01	1						
4	Protector Holder	-	437339-01	1						
5	Crankcase Heater	-	4A1869-01	1						
6	Silicone Hose	L = 20	7730-0912	1					<u> </u>	
7	Coupling	-	4A3972G01	1				<u> </u>		igsquare
8	Tube Holder-S	-	438246-01	1				<u> </u>		$oxed{oxed}$
8a	T2 Screw	4×8	7P31-0408	2					<u> </u>	
9	Coupling	-	434136G01	1						
10	Tube Holder-L	-	438245-01	1						
10a	T2 Screw	4×8	7P31-0408	2						
11	Receiver Tank	RR KN WP450		1						
11a	Hex Bolt Assembly (LF)	5×10, SS	7B0230510	3						
12	Drier	-	4A2666-01	1						
13	Nylon Tie	-	8911-0301	1						
14	Expansion Valve	HFE-10NHDU-4	4A4008-01	1						
15	Evaporator	-	106492G01	1						
15a	T2 Screw	4×16, SS	7P32-0416	4						
16	Pressure Switch	ACB-1UB09	433441-07	1						
17	Pressure Switch Bracket	GS	434938-01	1						
17a	T2 Screw	4×8	7P31-0408	1						
18	Valve Bracket	-	436893-01	1						
18a	T2 Screw	4×8	7P31-0408	2						
19	Valve Body - Hot Gas	70	4A3978-01	1						
20	Coil - Valve	AMS-C12HDU-3	4A3277-01	2						
20a	Bolt	4×6	4A3277F01	2						
20b	Truss Head Screw	4×8	7C31-0408	4						
21	Valve Body - Liquid Line	-	4A3276-01	1						
22	Copper Tube (A) - High Side	COPPER	2A3779G01	1						
23	Copper Tube (B) - High Side	COPPER	3A3867G01	1						
24	Copper Tube (C) - High Side	COPPER	3A3973-01	1						
25	Copper Tube (D) - High Side	COPPER	3A3855G01	1						
26	Copper Tube (E) - High Side	COPPER	332445-01	1						
27	Copper Tube (F) - High Side	COPPER	4A2768-01	1						
28	Copper Tube (G) - High Side	COPPER	3A3868G01	1				$\vdash$	$\vdash$	Н
29	Strainer	(Included in item		1				$\vdash$	$\vdash$	$\vdash$
		25: 3A3855G01)	141000-01							
30	Copper Tube - Hot Gas	COPPER	2A4099G01	1						
31	Copper Tube - Access Valve	COPPER	3A3857G01	1						
32	Access Valve	-	457729-01	1						

Title: B.	. Refrigeration Circuit Model:	KM-461MRH								
						Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0						
33	Elbow	COPPER	417395-03	1						
34	Heat Exchanger	-	2A4043G01	1						
35	Holder - Expansion Valve – 3/8	SS	3A0107-01	1						
36	Clamp	-	443461-02	1						
37	Insulation Tube	L = 150	7762-2943	1						
38	Expansion Valve Cover	PE FOAM	3A0944-01	1						
39	Thermistor	-	429006-03	1						
40	Holder - Thermistor	COPPER	427430-01	1						
41	Insulation - Thermistor (A)	PE FOAM	439368-01	1						
42	Insulation - Thermistor (B)	PE FOAM	439368-02	1						
43	Rubber Insulation (A)	EPDM	3A1044-01	1						
44	Rubber Insulation (B)	EPDM	3A1045-01	1						
45	Insulation Holder	-	4A1550-01	1						
45a	T2 Screw	4×8, SS	7P32-0408	2						
46	Insulation Tube	L = 40	7762-1020	1						
47	Cable Tie	-	8911-0200	12						
48	Wire Saddle	VWS4238-C	4A0338-02	9						

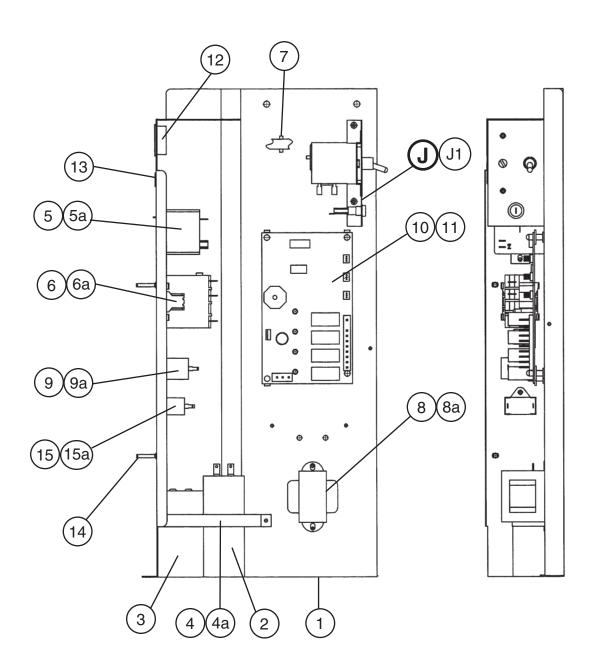
#### C. Water Circuit KM-461MAH, KM-461MWH, KM-461MRH R-0



Title: C.	Water Circuit Model: KM-46	1MAH, KM-461M	WH, KM-461N	IRH				-			
		,	,			Requ	ired N	umber	,		
Index		Material or									
No.	Description	Model Number		R-0							
Н	Pump Motor Assembly	HS-0176	3A2638A03	1					ļ		
H1	Truss Head Screw	4×16, SS	7C32-0416	1							
H2	Flat Washer	M4, SS	7W22-0400	1							
H3	Split Lock Washer	M4, SS	7L22-0400	1							
H4	Hex Nut	M4, SS	7N12-0400	1							
1	Water Supply Pipe	COPPER	4A0768G04	1		<u> </u>		<u> </u>		<u> </u>	
1a	T2 Screw	4×8	7P31-0408	2							
2	Rubber Gasket	NR	413854-03	1							
3	Water Valve Bracket	GS	321443-01	1							
3a	T2 Screw	4×8	7P31-0408	1							
4	Water Valve	J248-072	3U0111-04	1							
5	Hose Clamp	SS, 18MM	427443-05	1							
6	Spray Tube	PE	1A0260-02	1							
7	Spray Guide (A)	PE	208586-01	6							
8	Cube Guide	ABS	212088-01	1							
9	Suction Hose	EPDM	433466-01	1							
10	Pump Motor Bracket	PC	211408-01	1							
10a	Flat Head Screw	4×12, SS	7F32-0412	1							
11	Vinyl Hose	L = 250	7716-2025	1							
12	Vinyl Hose	L = 110	7716-2025	1							
13	Hose Clamp	SS, 25MM	427443-03	9							
14	"O" Ring	1AG35	7611-G035	1							
15	Valve Housing - Drain	ABS	321001-01	1							
15a	T2 Screw	4×10, SS	7P32-0410	3							
16	Spring	SS	322110-01	1							
17	Valve Seat	EPDM	433705-01	1							
18	Drain Hose	SANTO- PRENE	433468-01	1							
19	Overflow Cap	PE	321002-01	1							
20	Overflow Pipe	ABS	430722-03	1							
21	"O" Ring	EPDM	4A1234-01	1							
22	Connector – Float Switch	EPDM	426799-01	1							
23	Float Switch	-	4A3624-01	1							
23a	T2 Screw	4×12, SS	7P32-0412	2		<u> </u>	İ	†		<u> </u>	
24	Silicone Hose	L = 140	773013896	1							
25	Wire Saddle	VWS4238-C	4A0338-02	4							
26	Tee	SANTO- PRENE	4A0177-01	1							
27	Bushing	OCB-750	428394-01	1							
28	Flange	EPDM	439267-01	1							
29	Distributor	EPDM	432426-01	1				<u> </u>			
30	Rubber Ring	EPDM	439236-01	1	İ	İ		†		İ	İ
31	Handle	JH1352	215383-01	1		İ		1		İ	
31a	T2 Screw	4×8	7P31-0408	1	İ	İ	İ	†		İ	İ

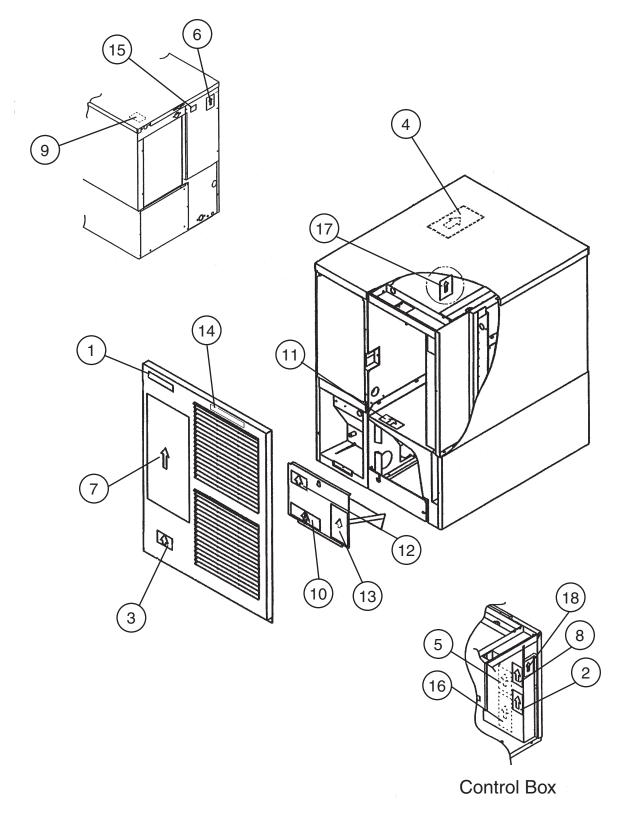
Title: C.	. Water Circuit Model: KM-461	MAH, KM-461M	WH, KM-461M	IRH						$\Box$
						Requi	ired N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0						
32	Valve Holder	GS	3A1178-01	1						
32a	FT Screw	4×8	7F31-0408	3						
33	Microswitch	V7-1C17D8-207	4A2546-01	1						
34	Tapping Screw	3×14	431415-02	2						
35	Corner Insulation (A)	PE FOAM	439376-01	1						
36	Corner Insulation (B)	PE FOAM	439392-01	1						
37	Hose Clamp	SS, 20 MM	427443-06	1						
38	Ball Valve (Included in S-0761)	PVC	439293-01	1						
39	Male Adaptor (Included in S-0761)	ABS	325826-01	2						
40	"O" Ring (Included in S-0761)	1AP18	7611-P018	2						
41	Insulation Tube	L = 190	7762-2636	1						
42	Silicone Hose	L = 140	773013812	1						
43	Rubber Hose (D)	EPDM	4A1551-04	1						
44	Rubber Hose (C)	SANTO- PRENE	4A1551-03	1						
45	Plug	EPDM	4A0176-01	2						
46	Insulation (E)	PE FOAM	4A0392-01	1						
47	Water Supply Tube	PE	2A0079-01	1						

### D. Control Box Assembly KM-461MAH, KM-461MWH, KM-461MRH R-0



Title: D.	. Control Box Assembly Mode	el: KM-461MAH,	KM-461MWH,	KM-4	61MR	Н					
							Requi	red N	umber		
Index		Material or									
No.	Description	Model Number		R-0							Щ
J	Control Assembly	-	4A2911A01	1							Щ
J1	T2 Screw	4×8	7P31-0408	2							
1	Control Box	-	2A1851-01	1							
2	Capacitor – Run	15MFD, 370 VAC	3A2005-08	1							
3	Capacitor – Starting	243-292 MFD 115V	3A0076-10	1							
4	Strap	GS	4A2262-03	1							
4a	T2 Screw	4×8	7P31-0408	1							
5	Starter	3ARR3CT5M5	4A1107-11	1							
5a	T2 Screw	4×8	7P31-0408	1							
6	Magnetic Contactor	VC-20	428393-01	1							
6a	T2 Screw	4×8	7P31-0408	2							
7	Fuse (Spare)	-	4A0893-07	1							
8	Transformer	26D285H	3A0172-01	1							
8a	T2 Screw	4×8	7P31-0408	2							
9	Capacitor - Pump Motor	5.5 MFD 250VAC	443192-03	1							
9a	T2 Screw	4×10	7P31-0410	1							
10	Controller Board	-	2A1410-01	1							
11	Board Support	CBLS37-M	4A0336-03	4							
12	Bushing	SB-1093-15	420470-03	1							
13	Bushing	OCB-500	428394-02	1							
14	Clamp	-	4A2338-01	2							
15	Capacitor (KM-461MAH Only)	5 MFD, 250VAC	443192-02	1							
15a	T2 Screw (KM-461MAH Only)	4×10	7P31-0410	1							

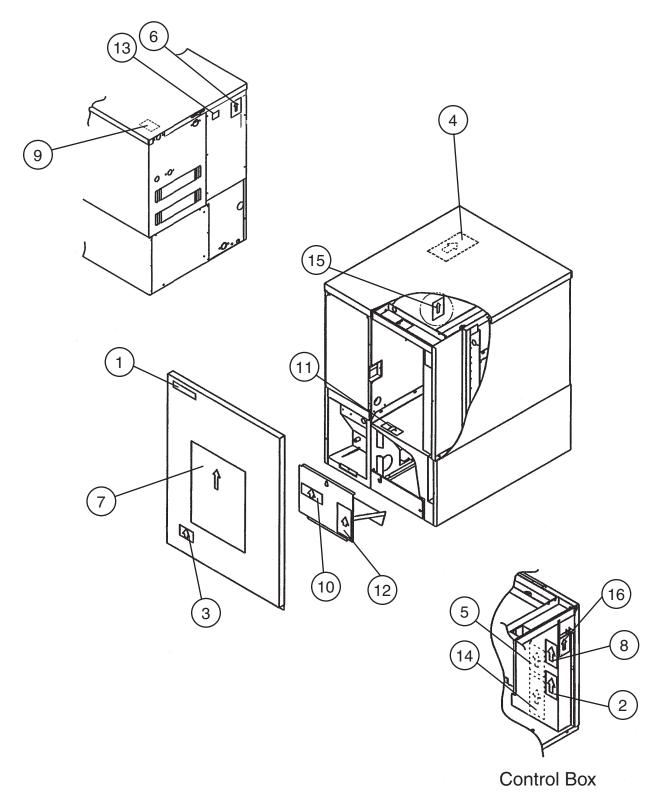
### E. Label Location KM-461MAH R-0



Title: E.	Label Location Model: KM-46	51MAH								
						Requi	red N	umber		
Index		Material or								
No.	Description	Model Number	Part Number	R-0						
1	Emblem	PETP FILM	4A0560-01	1						
2	Label - Alarm	-	4A3517-01	1						
3	Label – Penguin – HA (R)	PETP FILM	4A0526-01	1						
4	Maintenance Label	PVC FILM	326218-01	1						
5	Wiring Label	PVC FILM	3A3888-01	1						
6	Nameplate	PES FILM	2A3771-01	1						
7	Instruction Sheet	PAPER	2A3807-01	1						
8	Manual Label	PVC FILM	446564-01	1						
9	Tag – Warning: Electrical Connection	PAPER	435005-01	1						
10	Operation Label – Valve	PVC FILM	439541-01	1						
11	Label – R404A	PES FILM	4A0960-01	1						
12	Caution Label (F)	PVC FILM	439146-01	1						
13	Caution Label (H)	PVC FILM	439148-01	1						
14	Label – Air Filter	PETP FILM	426177-01	1						
15	Instruction Label	PVC FILM	444575-01	1						
16	Label - Control Board	PVC FILM	3A2220-01	1						
17	Rating Label	-	2A3772-01	1						
18	Label – Fuse	-	4A2817-01	1						

# E. Label Location KM-461MWH

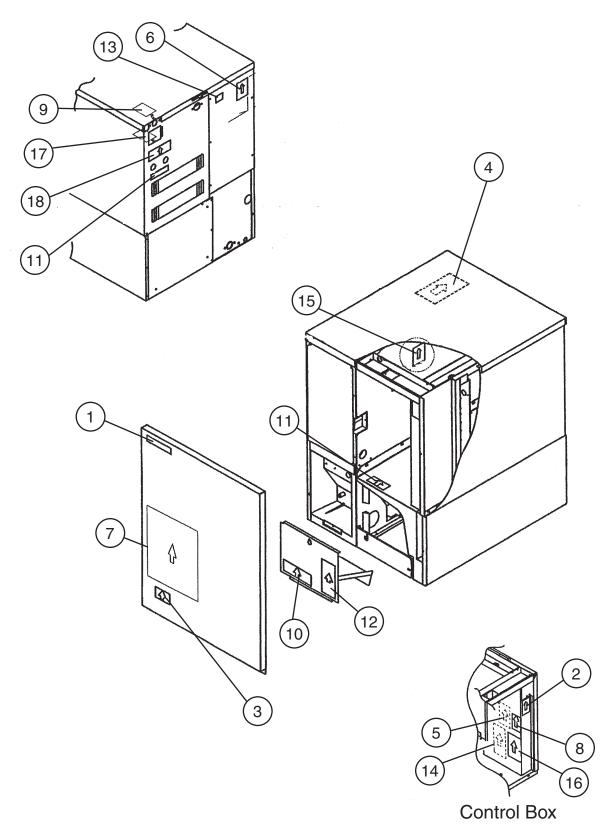
R-0



						Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0						
1	Emblem	PETP FILM	4A0560-01	1						
2	Label - Alarm	PETP FILM	4A3517-01	1						
3	Label – Penguin – HA (R)	PETP FILM	4A0526-01	1						
4	Maintenance Label	PVC FILM	326218-01	1						
5	Wiring Label	PVC FILM	3A3888-01	1						
6	Nameplate	PES FILM	2A3771-02	1						
7	Instruction Sheet	PAPER	2A3807-01	1						
8	Manual Label	PVC FILM	446564-01	1						
9	Tag – Warning: Electrical Connection	PAPER	435005-01	1						
10	Operation Label – Valve	PVC FILM	439541-01	1						
11	Label – R404A	PES FILM	4A0960-01	1						
12	Caution Label (H)	PVC FILM	439148-01	1						
13	Instruction Label	PVC FILM	444575-01	1						
14	Label - Control Board	PVC FILM	3A2220-01	1						
15	Rating Label	-	2A3772-02	1						
16	Label – Fuse	-	4A2817-01	1						

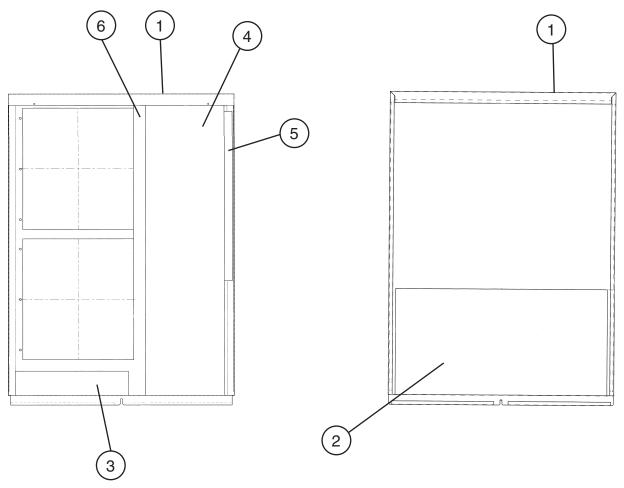
# E. Label Location KM-461MRH

R-0



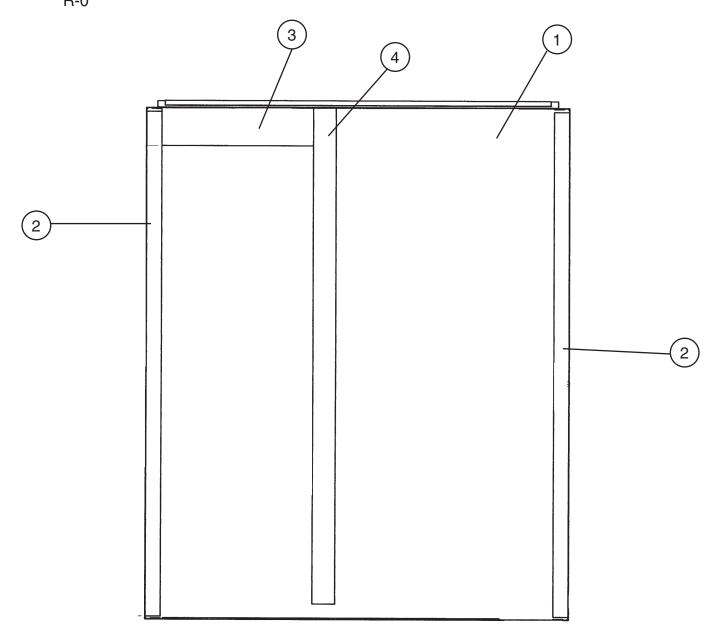
Title: E.	Label Location Model: KM-46	61MRH								
						Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0						
1	Emblem	PETP FILM	4A0560-01	1						
2	Label - Fuse	PETP FILM	4A2817-01	1						
3	Label – Penguin – HA (R)	PETP FILM	4A0526-01	1						
4	Maintenance Label	PVC FILM	326218-01	1						
5	Wiring Label	PVC FILM	3A3889-01	1						
6	Nameplate	PES FILM	2A3771-03	1						
7	Instruction Sheet	PAPER	2A3807-01	1						
8	Manual Label	PVC FILM	446564-01	1						
9	Tag – Warning: Electrical Connection	PAPER	435005-01	1						
10	Operation Label – Valve	PVC FILM	439541-01	1						
11	Label – R404A	PES FILM	4A0960-01	2						
12	Caution Label (H)	PVC FILM	439148-01	1						
13	Instruction Label	PVC FILM	444575-01	1						
14	Label – Control Board	PVC FILM	3A2220-01	1						
15	Rating Label	PES FILM	2A3772-03	1						
16	Label – Alarm	-	4A3517-01	1						
17	Tag – Fan Motor Leads	-	4A1494-01	1						
18	Caution – Remote Label	-	4A1491-01	1						

# F. Front Panel Assembly KM-461MAH, KM-461MWH, KM-461MRH R-0



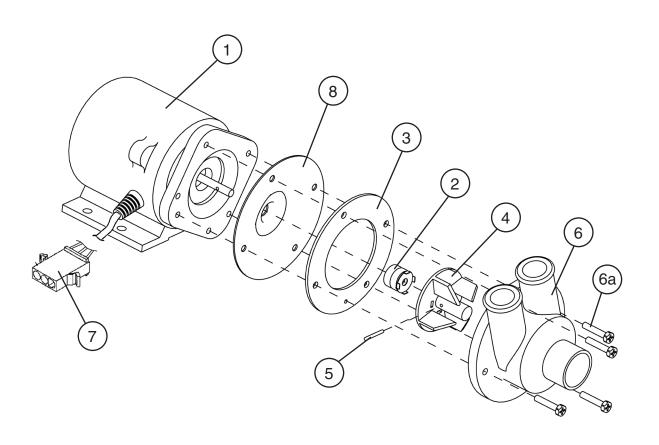
Title: <b>F.</b>	Front Panel Assembly Model:	KM-461MAH, K	M-461MWH, F	CM-46	1MRH	l				1	
							Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0							
1	Front Panel	KM-461MAH	2A2130-04	1							
		KM-461MWH, KM-461MRH	2A2130-05	1							
2	Insulation (A)	-	4A2507-01	1							
3	Insulation (B)	-	4A1872-01	1							
4	Front Insulation (C)	-	3A3885-01	1							
5	Foam Seal	L = 420	4A1163L01	1							
6	Foam Seal	L = 530	4A1163L01	1							

### G. Top Panel Assembly KM-461MAH, KM-461MWH, KM-461MRH R-0



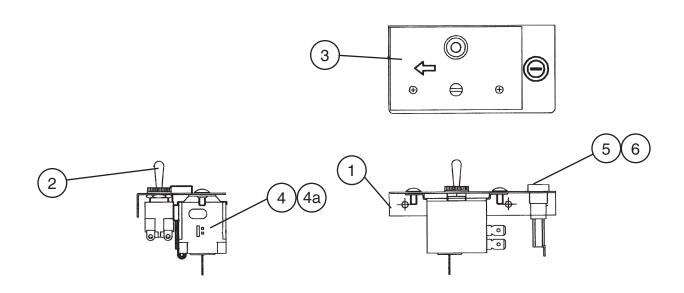
Title: G	.Top Panel Assembly Model: I	KM-461MAH, KI	M-461MWH, K	M-461	IMRH					
						Requi	red N	umber		
Index		Material or								
No.	Description	Model Number	Part Number	R-0						
1	Top Panel	-	2A2133-01	1						
2	Gasket	-	427014-04	2						
3	Insulation	-	438012-01	1						
4	Foam Seal	L = 658	4A1163L01	1						

### H. Pump Motor Assembly KM-461MAH, KM-461MWH, KM-461MRH R-0



Title: H	. Pump Motor Assembly Mode	el: <b>KM-461MAH</b> ,	KM-461MWH	, KM-4	161MR	RH					
							Requi	red N	umber		
Index No.	Description	Material or Model Number	Part Number	R-0							
1	Pump Motor	APTA9210WD1 120V	2A2758-01	1							
2	Mechanical Seal / R	HKU90-J9001	465627-01	1							
3	Pump Gasket	EPDM	4A2974-01	1							
4	Impeller	ABS	433522-01	1							
5	Pin	SS	4A0648-01	1							
6	Pump Housing	ABS	211409-01	1							
6a	Screw	4×20, Geomet 321coated SS	4A3871-01	4							
7	Plug Housing	-	412832-06	1							
8	Pump Flange	-	3A2988-01	1							

### J. Control Assembly KM-461MAH, KM-461MWH, KM-461MRH R-0



Title: J.	Control Assembly Model: KN	I-461MAH, KM-4	161MWH, KM-	461MI	RH					
						Requi	red N	umber		
Index		Material or								
No.	Description	Model Number	Part Number	R-0						
1	Control Box (C)	-	4A2816-01	1						
2	Toggle Switch	8966K84	443119-01	1						
3	Control Label	-	4A2909-01	1						
4	Thermostat	-	4A2879-01	1						
4a	Truss Head Screw	-	7C31-0408	2						
5	Fuse Holder	-	4A0892-01	1						
6	Fuse	AGC10	4A0893-07	1						

### K. Accessories KM-461MAH, KM-461MWH, KM-461MRH R-0

Title: <b>K</b>	. Accessories Model: KM-4	61MAH, KM-461M\	WH, KM-461M	RH						
						Requ	ired N	umber		
Index		Material or								
No.	Description	Model Number	Part Number	R-0						
1	Instruction Manual	PAPER	91A1MK10B	1						
2	Universal Brace	GS	4A0363-01	2						
3	Hex Head Bolt	5×12, SS	7B0230512	4						
		•								
Packaç	ging		2A3865A01							
1	Tray Asembly - Top	-	1A1222G01	1						
2	Tray Assembly - Bottom	-	1A1223G01	1						
3	Pallet	-	2A3684-01	1						
4	Carton	-	2A3862-29	1						
5	Plastic Support	-	2A3865-09	4						
6	Corner Post	-	3A4040-03	4						
7	Bar Code Label	-	4A2999-01	4						