



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB99-0008

June 7, 1999

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Subject: Technical information for KM-1300SWF & KM-1300SAF3/SWF3/SRF3 Cuber

The following technical information applies to the KM-1300S series cubers. See SB98-0009 for KM-1300SAF & SRF models.

Voltage Requirements: SWF - 208-230 / 60 / 1 (3 wire with neutral for 115 V)
SAF3/SWF3/SRF3 - 208-230 / 60 / 3

Ice production / cycle - 30.1 lbs. (13.7 kg.) 1440 pcs.

Maximum Circuit Amp: 20A

Amperage: SWF - 9.7A SAF3 - 7.8A SWF3 - 6.9A SRF3 - 10.8

Refrigerant Type: R-404A

Refrigerant Charge: SWF1&3 - 2 lbs. 2 oz. (950g.)
SAF3 - 3 lbs. 14 oz. (1750g.)
SRF3 Unit 9 lbs. 4 oz.
Cond. 2 lbs. 3 oz.
Total 11 lbs. 7 oz. (5200g.)

Compressor Data: SWF- Copeland CS14K6E-PFV Capacity (BTU) 14,120
RLA - 12.4 LRA - 61
(Resistance @25°C) SWR- 2.474~2.846 ohms RWR- 1.004~1.156 ohms
Oil Charge - 45 FL. oz. (1331cc)
Type - Mobil EAL Arctic 22CC (POE)

Compressor Data 3 Æ:

SAF3, SWF3,SRF3 - Copeland CS14K6E-TF5 Capacity (BTU) 13,920

RLA – 9.1 LRA - 55

Resistance line to line: 1.496 ~ 1.722 (Resistance @25°C)

Oil Charge - 45 FL. oz. (1331cc)

Type - Mobil EAL Arctic 22CC (POE)

Control Board Settings (dip switch) : SWF1&3 - OFF ~ 1, 2, 7, 8, 9, & 10

SAF3&SRF3 – OFF ~ 1, 2, 7, 8, & 10

Heat of Rejection for AC Load: SWF - 2,650 BTU/h

SAF3 - 18,130 BTU/h

SWF3 - 2,560 BTU/h

SRF3 - 2,500 BTU/h

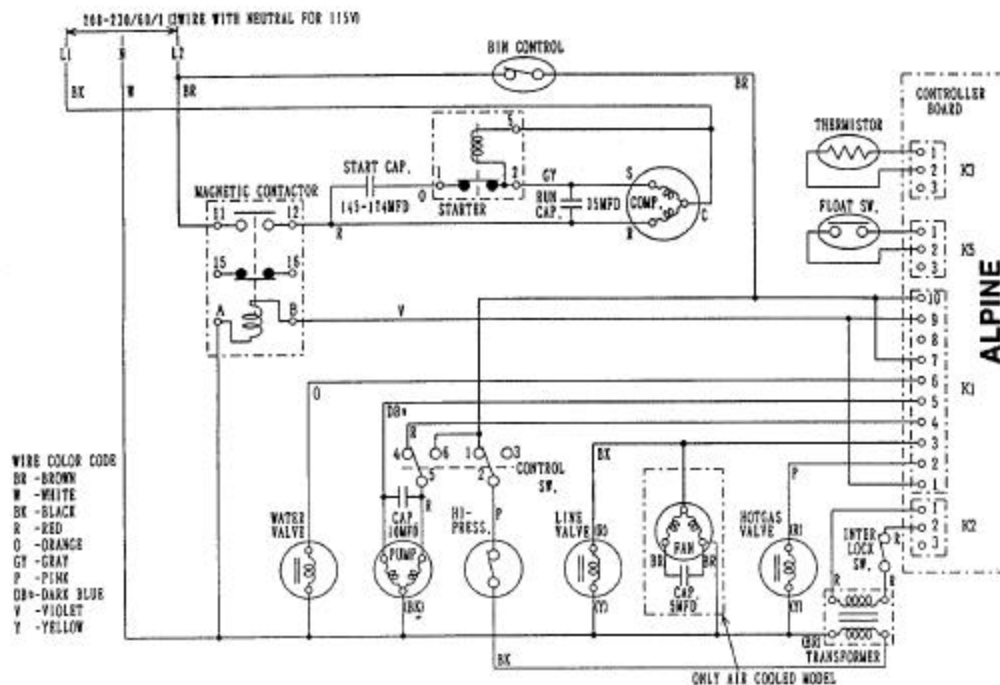
Performance Data KM-1300SWF:

Ambient Temp (F°)		70	80	90	100
	Water Temp.	Water	Water	Water	Water
Production 24 hours	50	1252	1238	1233	1211
	70	1233	1209	1188	1172
	90	1176	1134	1119	1056
Cycle Time Freeze	50	31.75	32	32	33
	70	32	33	33.6	34
	90	35	36	36	39
Cycle Time Harvest	50	4.3	4	4	4
	70	4	3	2.25	2
	90	3	3	2	2
Pressure High Side	50	275	277	278	288
	70	278	282	285	288
	90	288	295	297	308
Pressure Low Side	50	47	47	48	48
	70	48	48	49	49
	90	49	49	50	51

Performance Data KM-1300SAF3, SWF3, SRF3:

Ambient Temp (F°)	70				80				90				100			
	Water Temp.	Air	Water	Remote	Air	Water	Remote	Air	Water	Remote	Air	Water	Remote			
Production 24 hours	50	1320	1301	1308	1272	1279	1288	1257	1273			1282	1230	1250	1252	
	70	1257	1273	1282	1174	1235	1247	1105	1204			1218	1079	1186	1196	
	90	1153	1205	1203	1060	1152	1145	993	1126			1125	890	1055	1039	
Cycle Time Freeze	50	30	30.2	30	32	31	30	32	31	31		33	32	31		
	70	32	31	31	35	32	32	37.4	32.75	33		38	33	34		
	90	36	33	33	39	34	35	41	35	36		44.75	36.5	39		
Cycle Time Harvest	50	4	4.2	4.8	4	4	4	4	4	4		4	4	4		
	70	3	4	4	3	3	3	2.1	2.2	2.2		2	2	2	4	
	90	3	3	4	3	3	3	2	2	2		2	2	2		
Pressure High Side	50	255	270	230	270	273	239	274	274	242		277	277	246	249	
	70	274	274	242	299	280	257	320	285	270		325	287	274		
	90	296	284	259	318	291	275	341	295	288		360	305	305		
Pressure Low Side	50	47	48	50	48	49	51	48	49	51		49	49	52		
	70	48	49	51	50	50	52	52	51	53		52	51	54		
	90	50	50	53	52	51	55	54	52	56		55	53	58		

WIRING DIAGRAM KM-1300SWF:

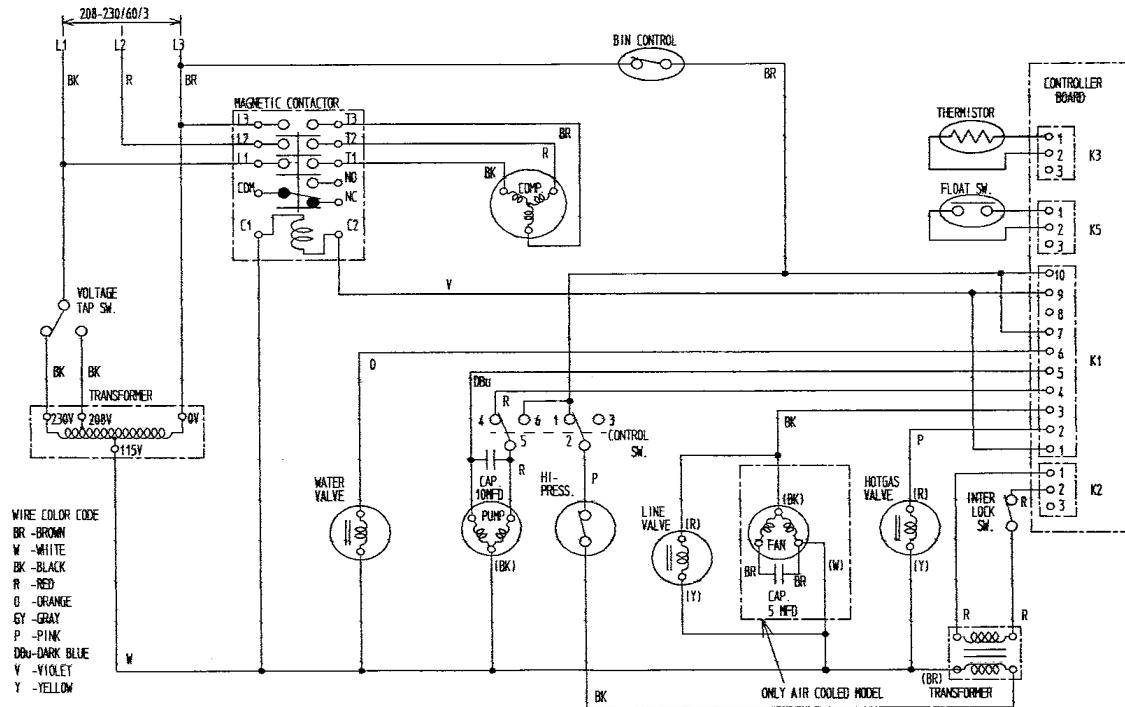


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WIRING DIAGRAM KM-1300SAF3/SWF3:



WIRING DIAGRAM KM-1300SRF3:

