



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB99-0009

June 8, 1999

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Subject: Technical information for KM-1600MRF1&3 Cuber.

The following technical information applies to the KM1600M series:

Voltage Requirements: **MRF** - 208-230 / 60 / 1 (3 wire with neutral for 115 V)

MRF3 - 208-230 / 60 / 3

Ice production / cycle: 28.6 lbs. 1440 pcs.

Maximum Circuit Amps: **MRF** - 30A **MRF3** - 20A

Amperage: **MRF** - 18 A **MRF3** - 11 A

Refrigerant type: R-404A

Refrigerant Charge: MRF1&3 - Unit	7 lbs. 1 oz.
Cond.	7 lbs. 11 oz.
Total	14 lbs. 12 oz. (6700g.)

Compressor Data: **MRF** - Copeland CS20K6E-PFV Capacity (BTU) 20,050

RLA - 18.6A LRA - 96A

SWR- 2.204~2.536 ohms (Resistance @ 25°C)

RWR- 0.605~0.697 ohms

Oil Charge - 45 fl. oz. / 1331cc.

Type - Mobil EAL Arctic 22CC (POE)

MRF3 Copeland CS20K6E-TF5 Capacity (BTU) 19,760

RLA - 11.4A LRA - 75A

Line to line - 0.984 ~ 1.132 ohms (Resistance @ 25°C)

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

Type - Mobil EAL Arctic 22CC (POE)

Control Board Settings (dip switch): **MRF1/3** OFF ~ 1, 2, 4, 7, 8, & 9

Heat of rejection for AC Load: MRF1&3 - 3,350 BTU/h

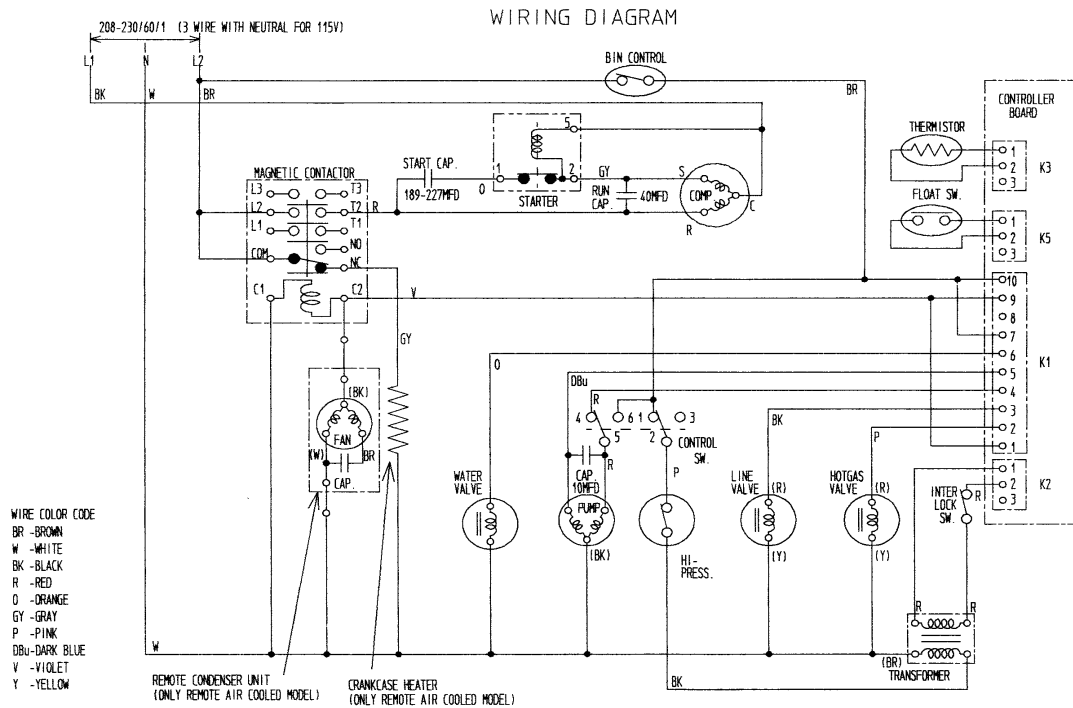
SB99-0009**June 8, 1999****Page 2 of 3****Performance Data KM-1600MRF:**

Ambient Temp (F°)		70	80	90	100
	Water Temp.	Remote	Remote	Remote	Remote
Production 24 hours	50	1486	1450	1438	1411
	70	1438	1375	1323	1299
	90	1347	1270	1221	1128
Cycle Time Evaporator	50	23	24	24	25
	70	24	26	27	27
	90	26	28	29	31
Cycle Time Harvest	50	4.5	4.2	4.1	4.0
	70	4.1	3.5	3.0	2.9
	90	3.5	3.0	2.5	2.0
Pressure High Side	50	227	236	239	244
	70	239	254	267	272
	90	259	277	289	310
Pressure Low Side	50	40	41	42	42
	70	42	44	46	46
	90	44	46	48	50

Performance Data KM-1600MRF3:

Ambient Temp (F°)		70	80	90	100
	Water Temp.	Remote	Remote	Remote	Remote
Production 24 hours	50	1524	1480	1467	1453
	70	1467	1391	1328	1311
	90	1392	1319	1253	1185
Cycle Time Evaporator	50	23	24	24	25
	70	24	26	27	27
	90	26	28	29	31
Cycle Time Harvest	50	4.5	4.2	4.1	4.0
	70	4.1	3.5	3.0	2.9
	90	3.5	3.0	2.5	2.0
Pressure High Side	50	225	234	237	244
	70	237	252	265	271
	90	260	279	291	315
Pressure Low Side	50	35	37	37	38
	70	37	40	42	43
	90	40	42	45	47

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KM-1600MRF3:

