



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB94-0007

May 9, 1994

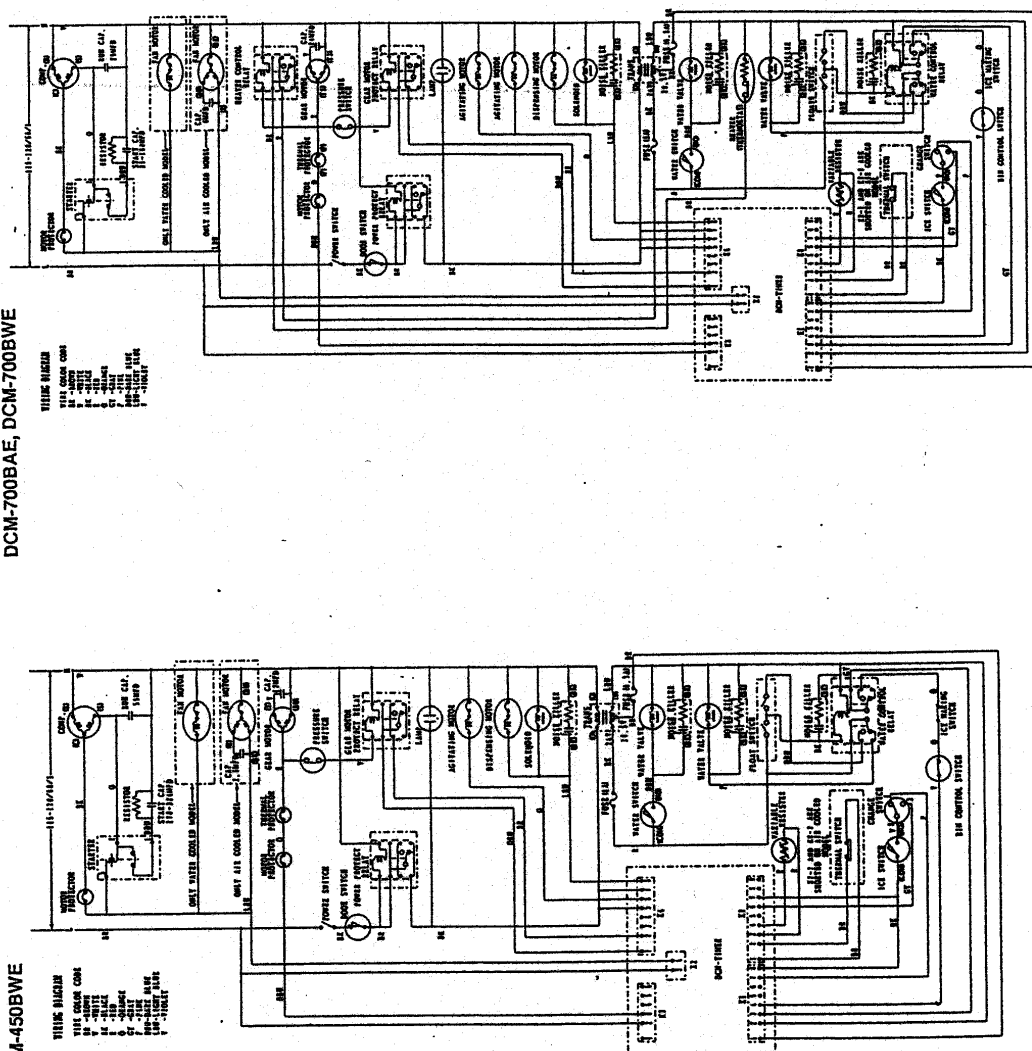
SUBJECT: SERVICE INFORMATION FOR R-22 UNITS

Utilize the following wiring diagrams and performance data to trouble shoot the new R-22 units.

DCM-450BAE, BWE
DCM-700BAE, BWE

DM/ss

DCM-450BAE, DCM-450BWE



DCM-450BAE

APPROXIMATE
ICE PRODUCTION
PER 24 HR. (MAX. CUBE SIZE)

lbs./day (kg/day)

APPROXIMATE ELECTRIC
CONSUMPTION

watts

APPROXIMATE WATER
CONSUMPTION PER 24 HR.

gal./day (L/day)

EVAPORATOR OUTLET TEMP.

° F (° C)

HEAD PRESSURE

PSIG (kg/cm²G)

TOTAL HEAT OF REJECTION

Ambient Temp. (° F)	Water Temp. (° F)		
	50	70	90
70	* 494 (224)	421 (191)	392 (178)
80	463 (210)	401 (182)	370 (168)
90	425 (193)	* 377 (171)	342 (155)
100	359 (163)	315 (143)	293 (133)
70	* 1100	-	-
80	-	-	-
90	-	* 1000	-
100	-	-	-
70	59.2 (224)	50.5 (191)	47.0 (178)
80	55.5 (210)	48.1 (182)	44.4 (168)
90	51.0 (193)	45.2 (171)	40.9 (155)
100	43.1 (163)	37.8 (143)	35.1 (133)
70	12.2 (-11)	12.2 (-11)	12.2 (-11)
80	14.0 (-10)	14.0 (-10)	14.0 (-10)
90	14.0 (-10)	14.0 (-10)	14.0 (-10)
100	14.0 (-10)	14.0 (-10)	14.0 (-10)
70	183 (12.9)	183 (12.9)	183 (12.9)
80	214 (15.0)	214 (15.0)	214 (15.0)
90	245 (17.2)	245 (17.2)	245 (17.2)
100	276 (19.4)	276 (19.4)	276 (19.4)
9000 BTU/h (AT 90° / WT 70° F)			

Note: The data without *marks should be used for reference.

DCM-450BWE

APPROXIMATE
ICE PRODUCTION
PER 24 HR. (MAX. CUBE SIZE)

lbs./day (kg/day)

APPROXIMATE ELECTRIC
CONSUMPTION

watts

APPROXIMATE WATER
CONSUMPTION PER 24 HR.

gal./day (L/day)

EVAPORATOR OUTLET TEMP.

° F (° C)

HEAD PRESSURE

PSIG (kg/cm²G)

Ambient Temp. (° F)	Water Temp. (° F)		
	50	70	90
70	* 547 (248)	516 (234)	470 (213)
80	531 (241)	505 (229)	456 (207)
90	522 (237)	* 481 (218)	437 (198)
100	516 (234)	478 (217)	430 (195)
70	* 1040	-	-
80	-	-	-
90	-	* 1026	-
100	-	-	-
70	515 (1948)	712 (2594)	1284 (4862)
80	555 (2101)	721 (2729)	1369 (5183)
90	554 (2097)	718 (2718)	1367 (5174)
100	564 (2134)	765 (2897)	1471 (5569)
70	6.8 (-13)	6.8 (-13)	6.8 (-13)
80	8.6 (-13)	8.6 (-13)	8.6 (-13)
90	8.6 (-13)	8.6 (-13)	8.6 (-13)
100	8.6 (-13)	8.6 (-13)	8.6 (-13)
70	213 (15.0)	213 (15.0)	216 (15.2)
80	213 (15.0)	213 (15.0)	216 (15.2)
90	215 (15.1)	213 (15.0)	216 (15.2)
100	215 (15.1)	215 (15.1)	216 (15.2)
7750 BTU/h (AT 90° /WT 70° F)			

HEAT OF REJECTION FROM CONDENSER

HEAT OF REJECTION FROM COMPRESSOR

WATER FLOW FOR CONDENSER

PRESSURE DROP OF COOLING WATER LINE

Note: The data without *marks should be used for reference.

ISSUED : FEB. 10. 1994
REVISED :

PERFORMANCE DATA NO. 93226

ITEM HOSHIZAKI CUBELET ICE DISPENSER
MODEL DCN-700BWE

APPROXIMATE ICE PRODUCTION PER 24 HR. (MAX. CUBE SIZE)	Ambient Temp. (° F)	Water Temp. (° F)		
		50	70	90
lbs./day (kg/day)	70	* 631 (286)	584 (265)	534 (242)
	80	617 (280)	567 (257)	514 (233)
	90	602 (273)	* 547 (248)	496 (225)
	100	591 (268)	534 (242)	478 (217)
APPROXIMATE ELECTRIC CONSUMPTION watts	70	* 1340	-	-
	80	-	-	-
	90	-	* 1430	-
	100	-	-	-
APPROXIMATE WATER CONSUMPTION PER 24 HR. gal./day (m ³ /day)	70	416 (1.57)	444 (1.68)	827 (3.13)
	80	420 (1.59)	489 (1.85)	914 (3.46)
	90	423 (1.60)	534 (2.02)	1006 (3.81)
	100	428 (1.62)	579 (2.19)	1094 (4.14)
EVAPORATOR OUTLET TEMP. ° F (° C)	70	15.8 (-9)	15.8 (-9)	17.6 (-8)
	80	15.8 (-9)	15.8 (-9)	17.6 (-8)
	90	17.6 (-8)	17.6 (-8)	17.6 (-8)
	100	17.6 (-8)	17.6 (-8)	17.6 (-8)
HEAD PRESSURE PSIG (kg/cm ²)	70	212 (14.9)	213 (15.0)	215 (15.1)
	80	213 (15.0)	213 (15.0)	215 (15.1)
	90	213 (15.0)	215 (15.1)	215 (15.1)
	100	213 (15.0)	215 (15.1)	216 (15.2)
HEAT OF REJECTION FROM CONDENSER		9680 BTU/h (AT 90° /WT 70° F)		
HEAT OF REJECTION FROM COMPRESSOR		1450 BTU/h (AT 90° /WT 70° F)		
WATER FLOW FOR CONDENSER		46 gal./h (AT 100° /WT 90° F)		
PRESSURE DROP OF COOLING WATER LINE		less than 7 PSIG		

Note: The data without *marks should be used for reference.

ISSUED : FEB. 10. 1994
REVISED :

PERFORMANCE DATA NO. 93225

ITEM HOSHIZAKI CUBELET ICE DISPENSER
MODEL DCN-700BAE

APPROXIMATE ICE PRODUCTION PER 24 HR. (MAX. CUBE SIZE)	Ambient Temp. (° F)	Water Temp. (° F)		
		50	70	90
lbs./day (kg/day)	70	* 664 (301)	631 (286)	597 (271)
	80	608 (276)	582 (264)	547 (248)
	90	553 (251)	* 547 (248)	503 (228)
	100	498 (226)	478 (217)	456 (207)
APPROXIMATE ELECTRIC CONSUMPTION watts	70	* 1320	-	-
	80	-	-	-
	90	-	* 1390	-
	100	-	-	-
APPROXIMATE WATER CONSUMPTION PER 24 HR. gal./day (l./day)	70	79.5 (301)	75.6 (286)	71.6 (271)
	80	72.9 (276)	69.7 (264)	65.5 (248)
	90	66.3 (251)	65.5 (248)	60.2 (228)
	100	59.7 (226)	57.3 (217)	54.7 (207)
EVAPORATOR OUTLET TEMP. ° F (° C)	70	14.0 (-10)	14.0 (-10)	15.8 (-9)
	80	14.0 (-10)	14.0 (-10)	15.8 (-9)
	90	15.8 (-9)	15.8 (-9)	17.6 (-8)
	100	17.6 (-8)	17.6 (-8)	19.4 (-7)
HEAD PRESSURE PSIG (kg/cm ²)	70	149 (10.5)	152 (10.7)	155 (10.9)
	80	171 (12.0)	176 (12.4)	182 (12.8)
	90	199 (14.0)	201 (14.1)	208 (14.6)
	100	232 (16.3)	233 (16.4)	235 (16.5)
TOTAL HEAT OF REJECTION		10500 BTU/h (AT 90° /WT 70° F)		

Note: The data without *marks should be used for reference.