

HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB93-0002

JANUARY 15, 1993

SUBJECT: SERVICE INFORMATION KM-1200S_E SERIES

KM-1200SRE Series units utilizing R-22 refrigerant are now available through our Sales Department. KM-1200SAE and SWE will be made available as inventory of SAB/SWB R-502 units are depleted.

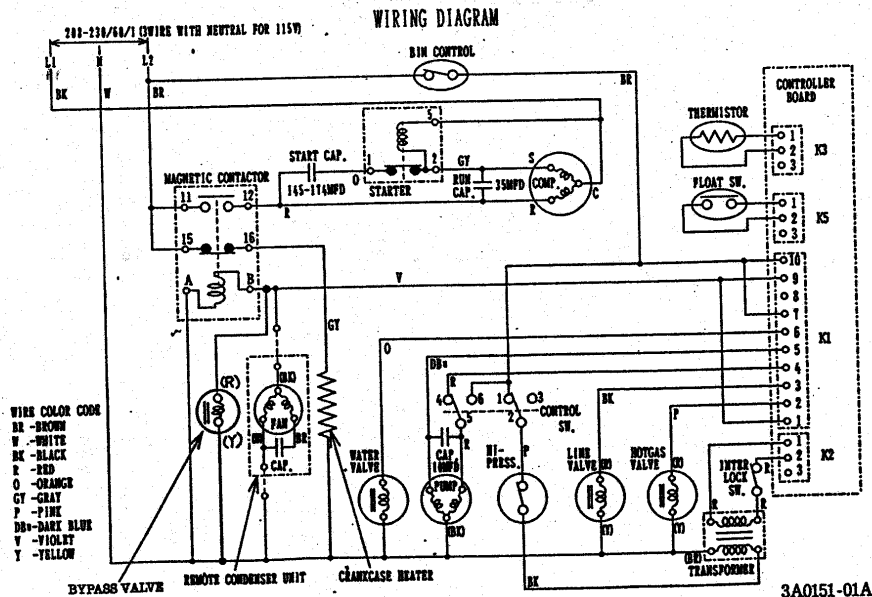
Utilize the following information for service trouble shooting as required. You will notice that the air cooled models use a by-pass valve to supply compressor cooling.

DM/ss

KM-1200SRE

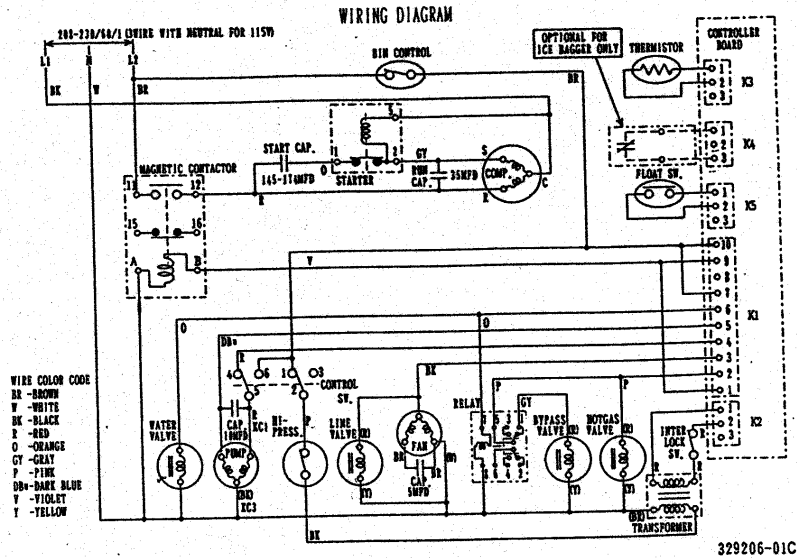
By-pass valve
is energized
with compressor
contactor coil
circuit.

By-passes
continually.



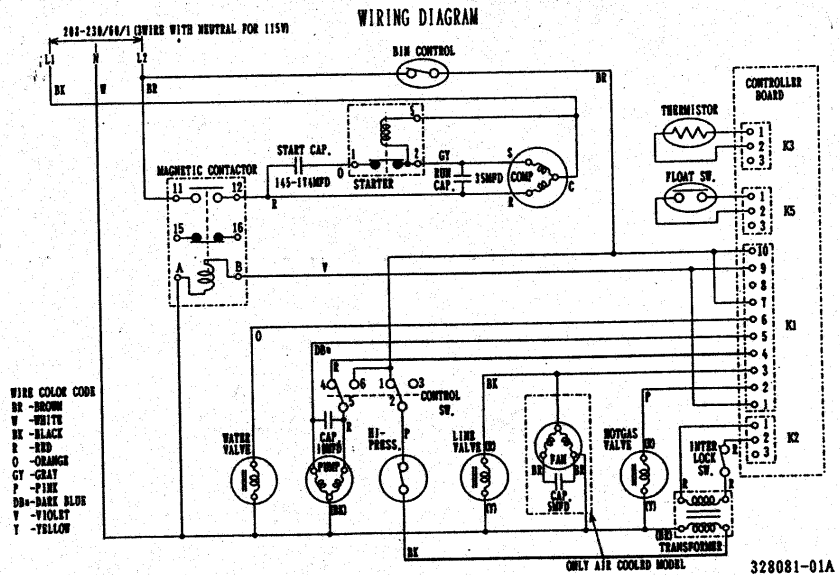
KM-1200SAE

Air cooled R-22 unit has by-pass valve operated by relay.



KM-1200SWE

No extra safety's relating to R-22 operation.



KM-1200SAE

KM-1200SWE

KM-1200SRE

	Ambient Temp. (° F)	Water Temp. (° F)			Ambient Temp. (° F)	Water Temp. (° F)			Ambient Temp. (° F)	Water Temp. (° F)		
		50	70	90		50	70	90		50	70	90
APPROXIMATE ICE PRODUCTION PER 24 HR.	70 80 90 100	*1240(562) 1210(550) 1180(530) 1140(520)	1210(550) 1160(530) 1130(513) 1060(480)	1100(500) 1050(477) 1010(460) 950(430)	70 80 90 100	*1200(545) 1150(520) 1120(508) 1110(505)	1150(520) 1120(508) 1130(498) 1080(490)	1125(510) 1110(497) 1070(485) 950(480)	70 80 90 100	*1245(565) 1150(525) 1100(500) 1060(480)	1210(550) 1145(520) 1090(495) 1050(475)	1190(540) 1110(503) 1040(470) 990(450)
lbs./day (kg/day)												
APPROXIMATE ELECTRIC CONSUMPTION	70 80 90 100	*2150 2120 2130 2240	2170 2130 2150 2300	2180 2140 2260 2370	70 80 90 100	*2100 2050 2050 2050	2040 2020 *2010 2030	2030 2040 2020 2030	70 80 90 100	*2010 2050 2070 2120	2000 2000 2100 2180 2240	2000 2100 2180 2240
watts												
APPROXIMATE WATER CONSUMPTION PER 24 HR.	70 80 90 100	578(2.18) 497(1.88) 489(1.85) 410(1.55)	350(1.32) 340(1.29) 333(1.26) 217(0.82)	283(1.07) 264(1.00) 207(0.78) 195(0.74)	70 80 90 100	1190(4.5) 1217(4.6) 1217(4.6) 1349(5.1)	1296(4.9) 1322(5.0) 1406(5.3) 1450(5.5)	1878(7.1) 1958(7.4) 2090(7.9) 2143(8.1)	70 80 90 100	540(2.04) 440(1.65) 345(1.30) 251(0.95)	345(1.30) 328(1.24) 316(1.19) 220(0.83)	243(0.92) 220(0.83) 204(0.77) 195(0.74)
gal./day (m³/day)												
FREEZING CYCLE TIME	70 80 90 100	32 34 34 36	33 36 36 39	36 38 39 41	70 80 90 100	32 32 32 34	35 35 35 35	35 37 37 38	70 80 90 100	33 37 40 42	36 39 41 43	37 40 43 44
min.												
HARVEST CYCLE TIME	70 80 90 100	4.5 4 4 3.5	2.5 2.5 2 2	2.5 2.5 2 2	70 80 90 100	4.5 4 4 3	3 3 2.5 2.5	2.2 2 2 2	70 80 90 100	4.5 4 3 2.5	2.5 2.5 2.5 2	2 2 2 2
min.												
HEAD PRESSURE	70 80 90 100	199(14.0) 222(15.6) 237(16.5) 270(19.0)	203(14.3) 225(15.8) 245(17.2) 292(20.5)	199(14.0) 228(16.0) 256(18.0) 294(20.7)	70 80 90 100	235(16.5) 235(16.5) 235(16.5) 235(16.5)	235(16.5) 235(16.5) 236(16.6) 236(16.6)	243(17.1) 245(17.2) 249(17.5) 249(17.5)	70 80 90 100	206(14.5) 240(17.0) 263(18.5) 298(21.0)	213(15.0) 248(17.5) 270(19.0) 306(21.5)	220(15.5) 256(18.0) 284(20.0) 313(22.0)
PSIG (kg/cm²)												
SUCTION PRESSURE	70 80 90 100	50(3.5) 50(3.5) 50(3.5) 53(3.7)	50(3.5) 50(3.6) 50(3.5) 55(3.9)	50(3.5) 51(3.6) 54(3.8) 58(4.1)	70 80 90 100	53(3.7) 53(3.7) 53(3.7) 53(3.7)	53(3.7) 53(3.7) 53(3.7) 53(3.7)	57(4.0) 57(4.0) 57(4.0) 57(4.0)	70 80 90 100	36(2.5) 38(2.7) 38(2.7) 41(2.9)	36(2.5) 38(2.7) 43(3.0) 43(3.0)	37(2.6) 38(2.7) 47(3.3) 47(3.3)
PSIG (kg/cm²)												

Note: Pressure data is recorded first 5 minutes in freezing cycle.
The data without marks should be used for reference.