



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB99-0001

May 5, 1999

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Subject: TECHNICAL INFORMATION FOR F-500BAF & -C FLAKER

The following technical information applies to the new F-500BAF series.

Unit Size - 38" wide x 29" x deep x 36" high

Drain System - Solenoid drain valve operates in OFF cycle for reservoir flush and manual switch for service.

Voltage Requirements - 115 / 60 / 1

Maximum Circuit Amps – 20A (Recommend separate circuit)

Amperage - Compressor 7.9 RLA
Gear motor 1.6 FLA
Fan motor 0.85 FLA
Other 0.03 A

Gear Motor Protection - Manual reset circuit breaker and secondary auto reset thermal overload in motor windings.

Refrigerant Type - R-404A

Refrigerant Charge - BAF 1 lb. (453.6 g.)

Compressor Data - Copeland RS43CIE-CAA-219 Capacity (BTU) 4170
RLA – 10.1A LRA – 51
SWR- 4.08 ohms RWR- 0.59 ohms (Resistance @ 25°C)
Oil Charge - 24 FL. oz. (710 cc.)
Oil Type - Mobil EAL Arctic 22CC (POE)

Heat of Rejection for AC load – 4683 BTU/h (AT 90°F / WT 70°F)

Performance Data F-500BAF:

Ambient Temp (F°)		70	80	90	100
	Water Temp.	Air	Air	Air	Air
Production 24 hours	50	478	419	366	320
	70	458	400	359	306
	90	438	383	335	287
Evaporator outlet	50	8 (-13)	8 (-13)	12 (-11)	15 (-9)
	70	8 (-13)	12 (-11)	11 (-11)	15 (-9)
	90	8 (-13)	12 (-11)	15 (-9)	15 (-9) 25.7
Pressure High Side	50	221	253	285	327
	70	221	253	285	327
	90	221	253	285	327
Pressure Low Side	50	26	28 31	34	
	70	26	28 31	34	
	90	26	28 31	34	

Performance Data F-500BAF-C:

Ambient Temp (F°)		70	80	90	100
	Water Temp.	Air	Air	Air	Air
Production 24 hours	50	431	381	336	295
	70	415	365	333	283
	90	398	350	308	263
Evaporator outlet	50	9 (-13)	9 (-13)	12 (-11)	15 (-9)
	70	9 (-13)	12 (-11)	12 (-11)	15 (-9)
	90	9 (-13)	12 (-11)	15 (-9)	15 (-9) 25.7
Pressure High Side	50	225	258	292	332
	70	225	258	292	332
	90	225	258	292	332
Pressure Low Side	50	27	30 32	35	
	70	27	30 32	35	
	90	27	30	32	35

Wiring Diagram F-500BAF:

