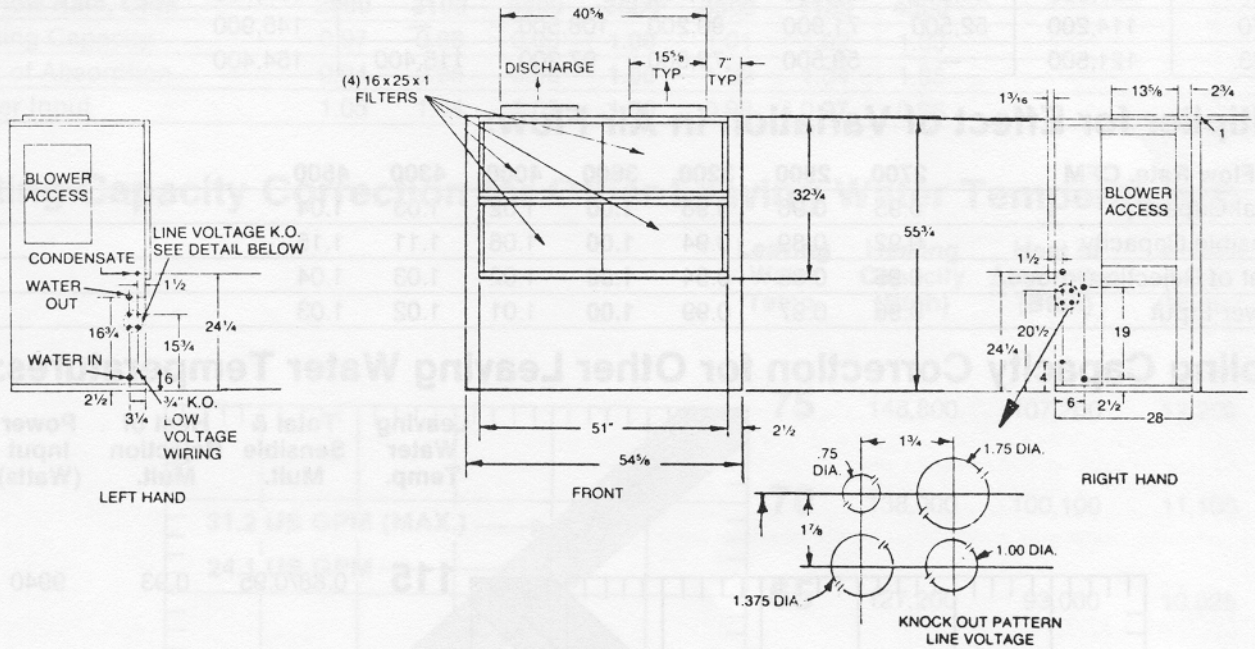


LHP/LGP 9

U.S. & International
60Hz — English
Performance Data

Dimensions



Blower Performance

Std. Air Flow Ft. ³ /Min.	External Static Pressure						Inches of Water					
	.2		.4		.6		.8		1.0		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2800	660	.55	730	.75	800	.97	855	1.20	905	1.45	965	1.72
3000	705	.67	780	.91	850	1.18	920	1.46	970	1.77	1030	2.00
3200	750	.81	835	1.10	910	1.42	980	1.76	1035	2.00	1100	2.52
3400	800	.98	885	1.33	965	1.72	1040	2.00	1100	2.59	—	—
3600	850	1.16	940	1.58	1020	2.00	1100	2.54	—	—	—	—
3800	895	1.37	990	1.86	1080	2.40	—	—	—	—	—	—
4000	940	1.60	1040	2.00	—	—	—	—	—	—	—	—
4200	990	1.84	1095	2.50	—	—	—	—	—	—	—	—
4400	1035	2.00	—	—	—	—	—	—	—	—	—	—

NOTE: Standard Motor LHP/LGP 9 — 1½ hp.

Oversized Motor LHP/LGP 9 — 2 hp.

Do not select in shaded areas — for interpolation only.

For other performance contact Climate Control.

Evaporator blower performance data includes internal pressure losses for-cabinet, dry evaporator coil, standard throw-away filters.

Cooling Performance

Sales Model Types LHP/LGP 9

Total Cooling Capacity, 107,000 Btuh / Power Input, 9000 Watts / E.E.R. 11.9 (at A.R.I. Standard 320-81 Rating Conditions)

Effect of Variation in Entering Air Temperature:

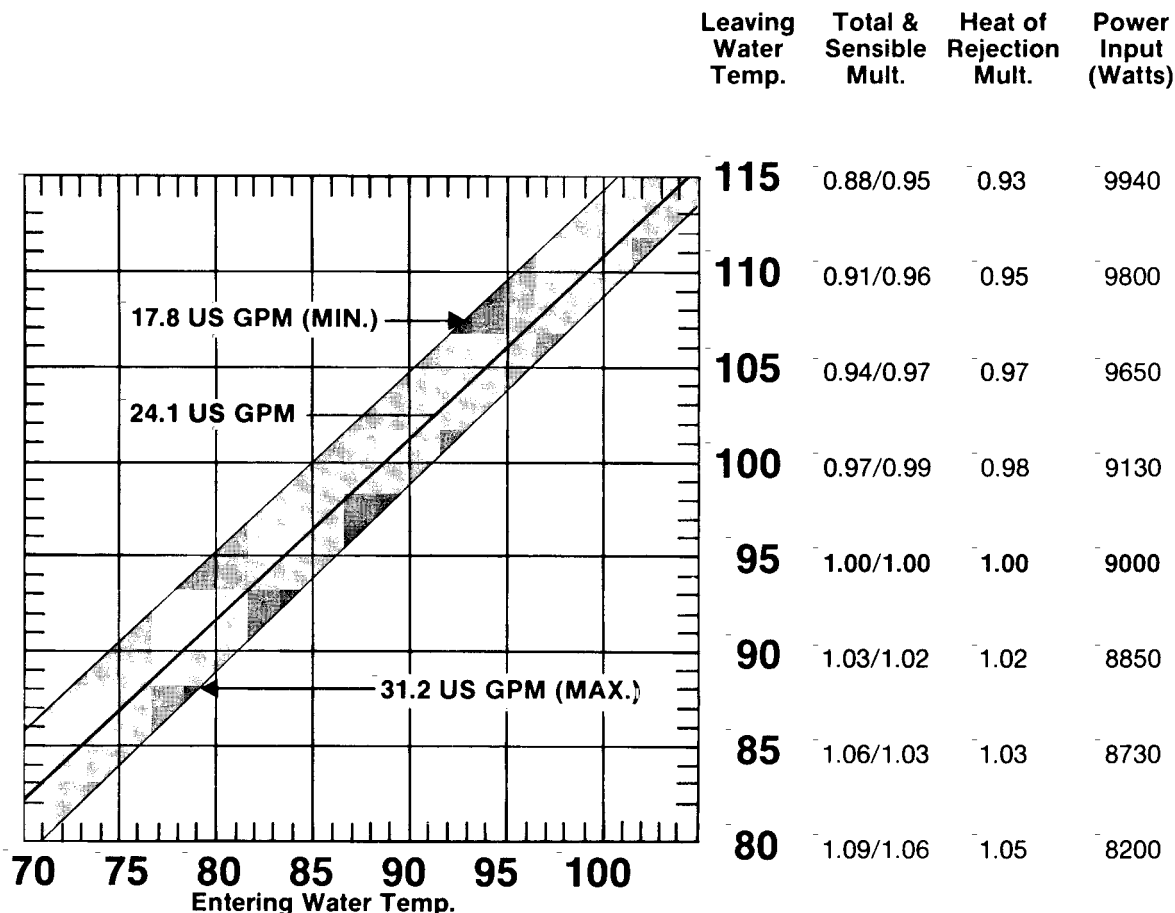
(Based upon 3600 CFM & 95°F Leaving Water Temp)

Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)
		75	80	85	90	95	
58	91,200	90,800	—	—	—	—	
	96,000	88,300	—	—	—	—	
	100,900	75,700	94,900	—	—	—	
	107,000	64,200	83,500	101,700	—	—	
	114,200	52,500	71,900	90,200	108,500	—	
	121,500	—	59,500	79,000	97,200	115,400	

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	2700	2900	3200	3600	4000	4300	4500
Total Capacity	0.95	0.96	0.98	1.00	1.02	1.03	1.04
Sensible Capacity	0.92	0.89	0.94	1.00	1.06	1.11	1.15
Heat of Rejection	0.95	0.96	0.94	1.00	1.02	1.03	1.04
Power Input	0.96	0.97	0.99	1.00	1.01	1.02	1.03

Cooling Capacity Correction for Other Leaving Water Temperatures:



Heating Performance

Sales Model Types LHP 9

Heating Capacity, 120,000 Btuh / Power Input, 9200 Watts / C.O.P. 3.8 (at A.R. Standard 320-81 Rating Conditions)

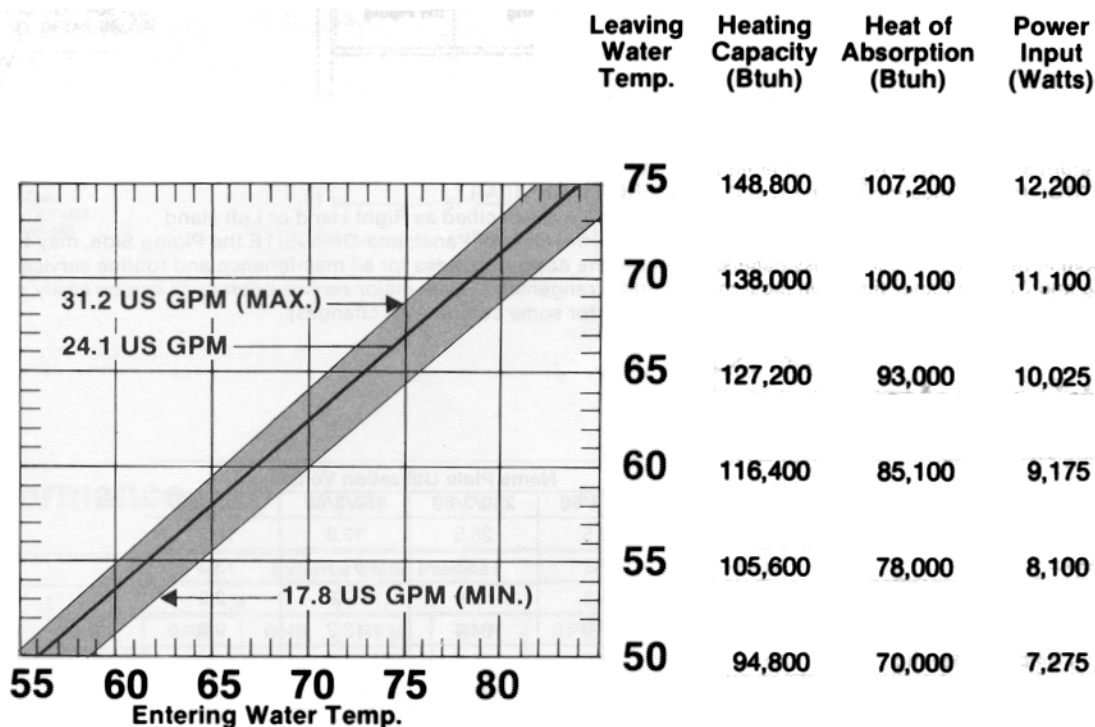
Multiplier for Effect of Variation in Entering Air Temperature:

Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.04	1.03	1.01	1.00	0.99	0.98	0.97
Heat of Absorption	1.09	1.07	1.02	1.00	0.98	0.95	0.92
Power Input	0.90	0.93	0.97	1.00	1.03	1.07	1.10

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	2900	3100	3400	3600	3800	4100	4300
Heating Capacity	0.97	0.98	0.99	1.00	1.01		
Heat of Absorption	0.94	0.96	0.98	1.00	1.02	1.04	1.05
Power Input	1.05	1.04	1.02	1.00	0.98	0.97	0.96

Heating Capacity Correction for Other Leaving Water Temperatures:

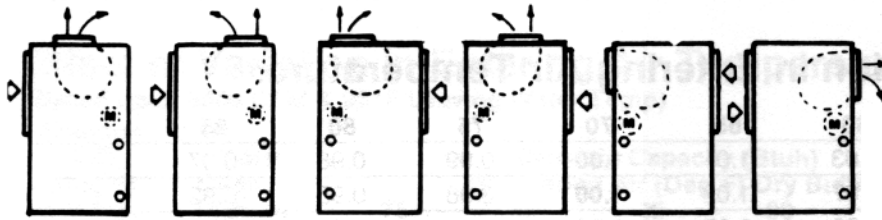


Water Pressure Drop:

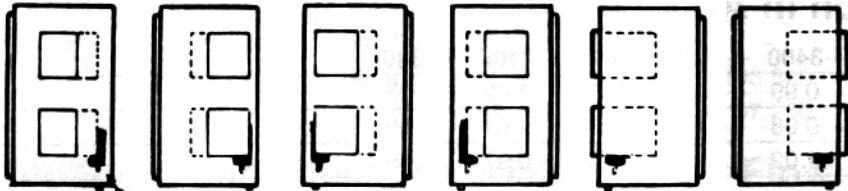
	A.R.I.	Typical Application Flow Rates:				
Rate, (GPM/12 MBTU)	3.1	2.0	2.4	2.7	3.0	3.5
Water Flow, (US GPM)	27.6	17.8	21.4	24.1	26.8	31.2
Pressure Drop, (Ft.) (H ₂ O)	12.5	5.2	7.5	9.5	11.9	16.0
		(min.)				(max.)

Large Heat Pump Fan Deck Arrangements

Elevation — Piping End



Plan View



Rear (or Top)
Discharge 6th
Digit R
RH Piping

Front (or Top)
Discharge 6th
Digit F
RH Piping

Front (or Top)
Discharge 6th
Digit F
LH Piping

Rear (or Top)
Discharge 6th
Digit R
LH Piping

Rear Horizontal
Discharge 6th
Digit H
LH Piping

Rear Horizontal
Discharge 6th
Digit H
RH Piping

Notes:

1. The Blower Motor is ALWAYS located at the piping end.
2. 6th Digit "R" & "F" Fan Deck Assemblies, and the Blower Motor location, are field reversible, without the need for any extra or different components, except for a possible change in V-Belt length.
3. The return air side is ALWAYS considered to be the "FRONT" of the unit.
4. CONTROL PANEL location may be specified as "FRONT" or "REAR."
5. PIPING & POWER SUPPLY are on the same end, and may be specified as Right Hand or Left Hand.
6. Climate Control assumes that the unit sides OPPOSITE the Control Panel, and OPPOSITE the Piping Side, may be up against walls, prohibiting removal of those access panels; therefore, the design provides for all maintenance and routine service operations through the Piping and Control Panel sides. On most models and arrangements, even major service operations can be easily performed through the assessible sides (water pipe removal may be necessary for some compressor changes).

Electrical Data:

Standard, 1½ HP Fan Motor

	Name Plate Utilization Voltage			
	208/3/60	230/3/60	460/3/60	575/3/60
Compressor R.L.A.	28.5	25.5	12.8	10.3
Compressor L.R.A.	183	183	91.1	73.3
Fan Motor F.L.A.	5.8	5.6	2.8	2.3
Operating Amps. — Cooling	26.9	24.4	12.2	9.8
Operating Amps. — Heating	28.5	25.5	12.8	10.3
Minimum Circuit Amps.	41.5	37.5	18.8	15.2
Maximum Fuse Size, (Time Delay)	60	60	30	25

w/Optional 2 HP Fan Motor

Fan Motor F.L.A.	7.4	6.6	3.3	2.9
Minimum Circuit Amps.	49.1	38.5	19.3	
Maximum Fuse Size, (Time Delay)	70	60	30	

CLIMATE CONTROL

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