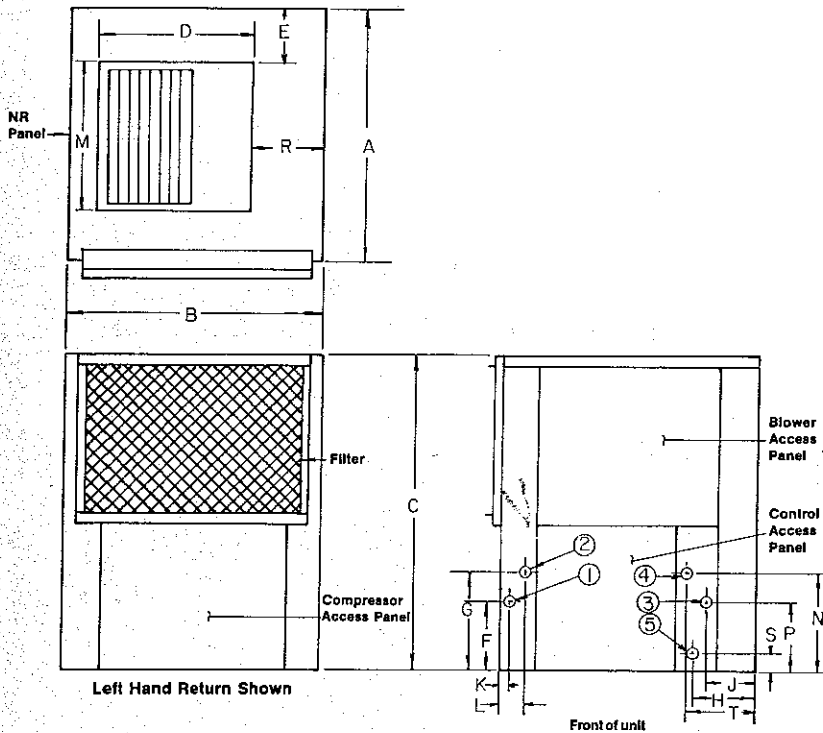


805 Series

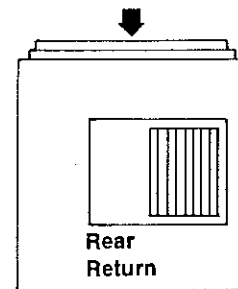
Ground Water
40°F to 85°F Entering Water Temp.

Size 024

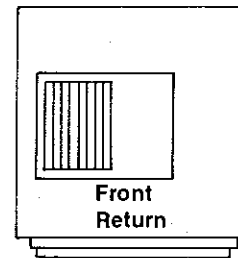
Dimensions



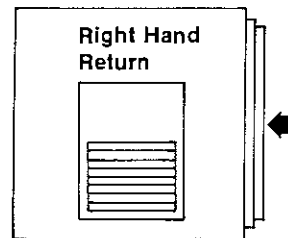
Air Flow Patterns



Front of unit



Front of unit



Front of unit

SZ.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
IN.	23	23	37 ⁷ / ₈	12 ¹ / ₁₆	5 ³ / ₄	11 ¹ / ₁₆	15 ¹ / ₁₆	4 ¹ / ₁₆	3 ³ / ₄	1 ¹ / ₈	1 ³ / ₁₆	11 ¹ / ₁₆	14 ¹ / ₄	9 ¹ / ₄	7 ⁷ / ₁₆	4	4 ¹ / ₁₆
CM.	58	58	95	32	15	28	38	10	10	3	4	30	36	23	19	10	10

FILTER SIZE	20" x 20" x 1"	SHIPPING WGT.	210 lbs.
	51 x 51 x 2.5 CM.		95 Kg

Electrical Data		Blower FLA	Compressor		Min Ckt. Ampacity	Max. Fuse or HACR Size
Voltage	Phase		RLA	LRA		
208/230	1	1.6	12.4	54	17.1	25
265	1	1.5	9.8	45	14.4	20

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Cooling Performance

Total Cooling Capacity: 26000 Btuh, Power Input: 2075 Watts, E.E.R.: 12.5 (at A.R.I. Standard 325-85 Rating Conditions)

Effect of Variation in Entering Air Temperature:

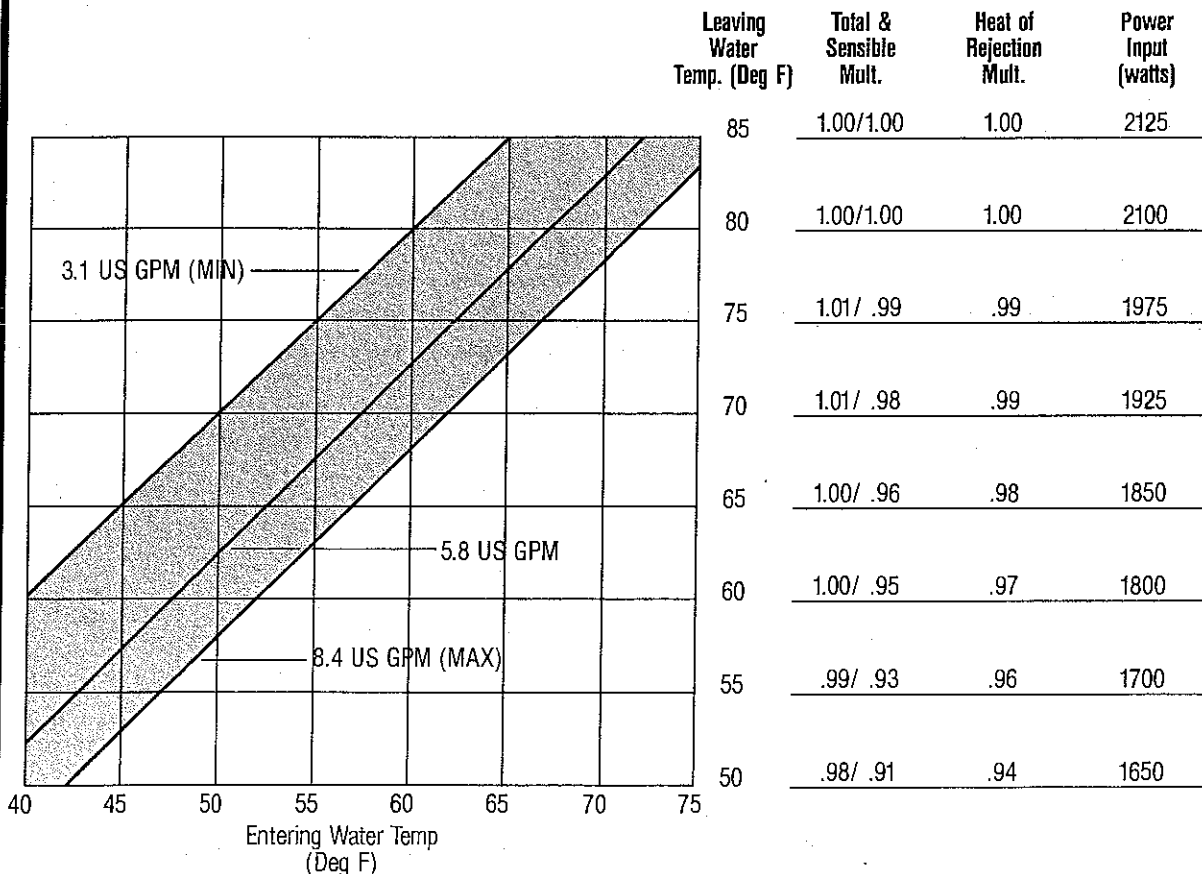
(Based upon 800 CFM & 80°F Leaving Water Temp)

Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)	Power Input (watts)
		75	80	85	90	95		
58	19708	—	—	—	—	—	26333	1943
61	21944	19384	—	—	—	—	28848	2025
64	24180	16634	20480	—	—	—	31362	2106
67	26208	13990	17835	21593	—	—	33578	2161
70	28028	11345	15190	19053	22898	—	35662	2239
73	29666	8700	12563	16443	20271	24099	37515	2302

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	620	708	796	884	972	1060
Total Capacity	.977	.992	1.008	1.023	1.039	1.055
Sensible Capacity	.949	.987	1.019	1.057	1.089	1.127
Heat of Rejection	.984	.999	1.015	1.030	1.048	1.064
Power Input	1.015	1.030	1.045	1.061	1.091	1.106

Cooling Capacity Correction for Other Leaving Water Temperatures:



Heating Performance

Heating Capacity: 35000 Btuh, Power Input: 2650 Watts, C.O.P.: 3.9 (at A.R.I. Standard 325-85 Rating Conditions)

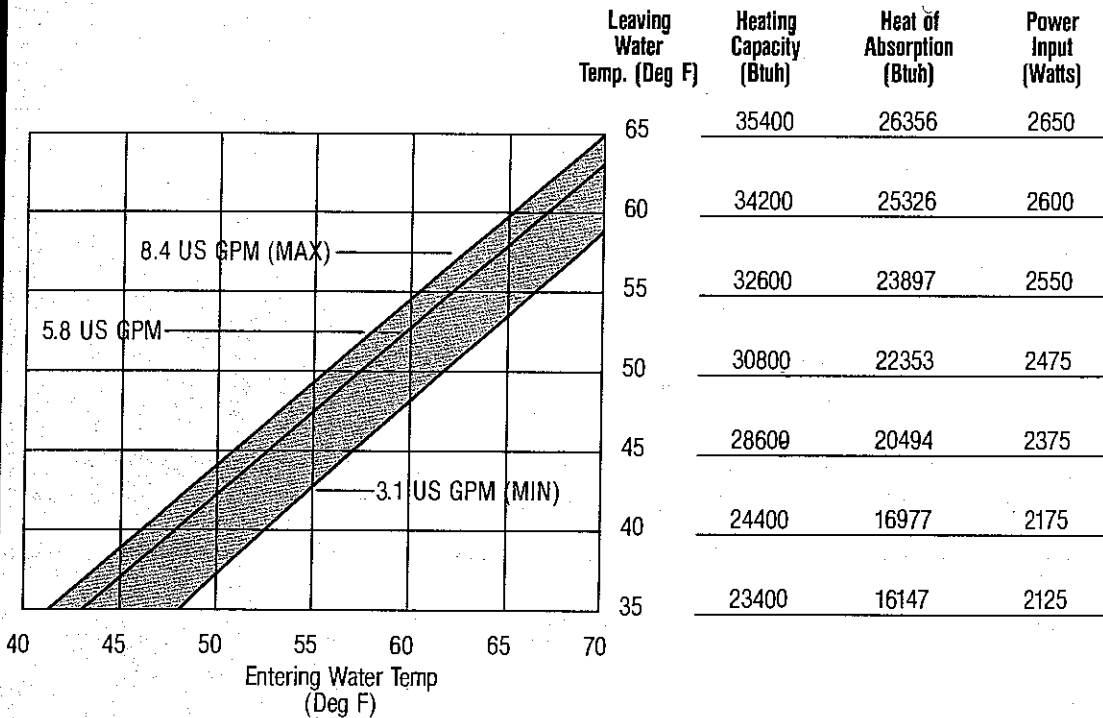
Multiplier for Effect of Variation in Entering Air Temperature:

Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.136	1.128	1.120	1.103	1.068	1.026	.984
Heat of Absorption	1.224	1.196	1.168	1.122	1.057	.979	.901
Power Input	.940	.976	1.012	1.059	1.094	1.129	1.164

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	620	708	796	884	972	1060
Heating Capacity	1.068	1.085	1.103	1.120	1.128	1.145
Heat of Absorption	1.067	1.097	1.122	1.152	1.170	1.200
Power Input	1.071	1.059	1.059	1.047	1.035	1.024

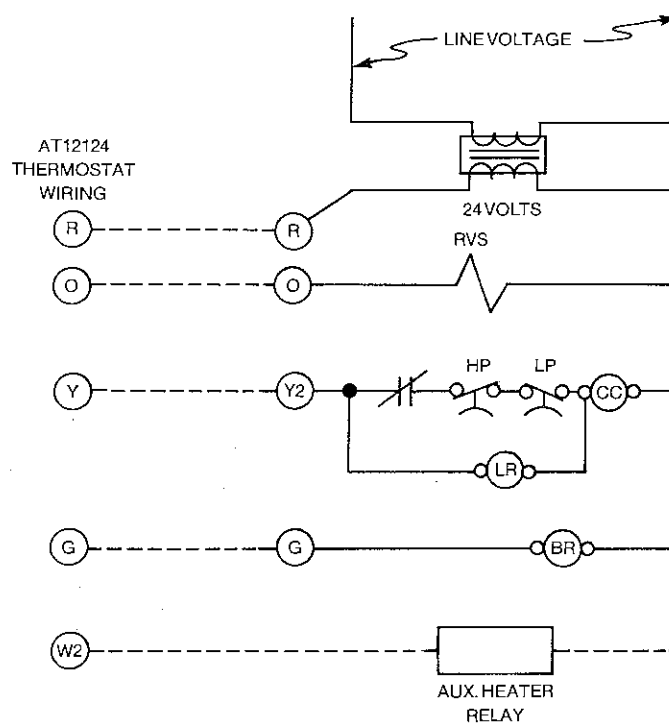
Heating Capacity Correction for Other Leaving Water Temperatures:



Water Pressure Drop:

Rate, (GPM/12 MBTU)	A.R.I. Typical Application Flow Rates:					
	3.1	1.4	2.2	2.7	3.5	3.9
Water Flow, (US GPM)	6.6	3.1	4.7	5.8	7.6	8.4
Pressure Drop, (Ft.) (H ₂ O)	12.58	3.23	6.01	9.16	15.73	19.21
	(min.)		(Recommended)			(max.)

Wiring Diagram



NOTES:
 --- Field Wiring
 Aux. Heater Relay is a field installed option.

ACO = AUTOMATIC CHANGEOVER RELAY
 AS = ANTI-SHORT CYCLE RELAY
 BM = BLOWER MOTOR
 BMC = BLOWER MOTOR CAPACITOR
 BR = BLOWER RELAY
 CC = COMPRESSOR CONTACTOR
 CCH = CRANKCASE HEATER
 COMP = COMPRESSOR
 CPC = COMPRESSOR CAPACITOR
 CR = CONTROL RELAY

DL = DEMAND LIMIT RELAY
 FS = FREEZESTAT
 HL = HIGH LEVEL CONDENSATE SWITCH
 HP = HIGH PRESSURE SWITCH
 HT = HIGH TEMPERATURE SWITCH
 LP = LOW PRESSURE SWITCH
 LR = LOCKOUT RELAY
 OL = OVERLOAD
 PR = PROGRAM RELAY
 RS = RANDOM START RELAY

RVR = REVERSING VALVE RELAY
 RVS = REVERSING VALVE SOLENOID
 SD = SHUTDOWN RELAY
 SLR = SPECIAL LOCKOUT RELAY
 SSM = SAFETY SHUTDOWN MODULE
 TB = 24-VOLT TERMINAL BLOCK
 TD = TIME DELAY RELAY
 TR = TIMER RELAY
 TRANS = LINE VOLTAGE TO 24-VOLT TRANSFORMER
 NOTE = * (DENOTES AVAILABLE AS OPTION)

Blower Performance

External Static Pressure (In wg)

Fan Speed	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	Min. CFM
Hi	1150	1070	970	895	780						620
Lo	1020	945	860	775	730						
Med	890	825	760	690	620						

Blower Performance is based on wet coil and clean filter

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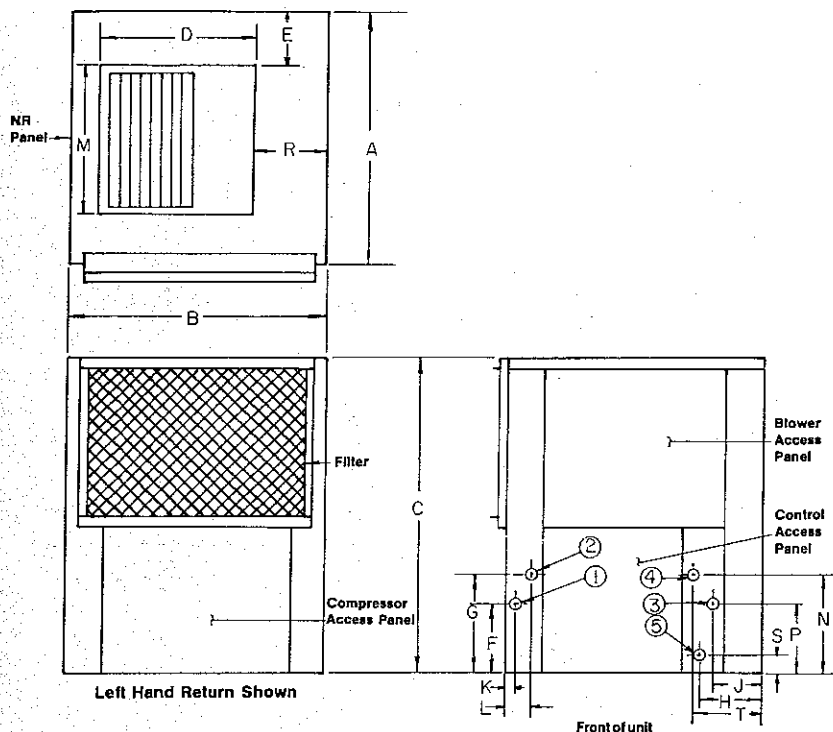
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805 Series Ground Water

40°F to 85°F Entering Water Temp.

Size 030

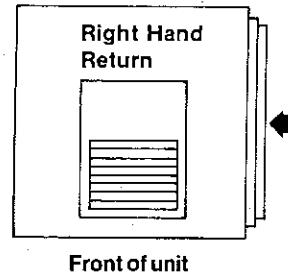
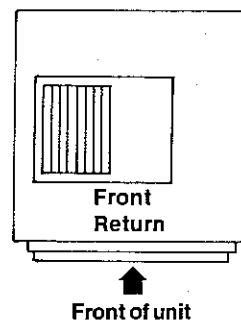
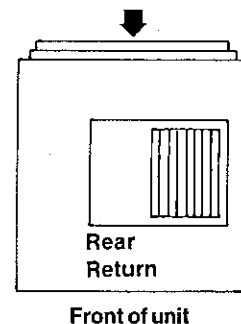
Dimensions



SZ.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
IN.	23	23	37 $\frac{3}{8}$	12 $\frac{1}{16}$	5 $\frac{3}{4}$	11 $\frac{1}{16}$	15 $\frac{7}{16}$	4 $\frac{1}{16}$	3 $\frac{3}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{16}$	11 $\frac{1}{16}$	14 $\frac{1}{4}$	9 $\frac{1}{4}$	7 $\frac{7}{16}$	4	4 $\frac{1}{16}$
CM.	58	58	95	32	15	28	38	10	10	3	4	30	36	23	19	10	10

FILTER SIZE	20" x 20" x 1"	SHIPPING WGT.	225 lbs.
	51 x 51 x 2.5 CM		100 Kg

Air Flow Patterns



Electrical Data		Blower	Compressor		Min. Ckt. Ampacity	Max. Fuse or HACR Size
Voltage	Phase	FLA	RLA	LRA		
208/230	1	2	14.7	65	20.6	35
265	1	1.6	11.8	55	17.2	25
208/230	3	2	9.7	60	14.1	20
460	3	1	4.6	28	6.8	15

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Cooling Performance

Total Cooling Capacity: 30800 Btuh, Power Input: 2650 Watts, E.E.R.: 11.6 (at A.R.I. Standard 325-85 Rating Conditions)

Effect of Variation in Entering Air Temperature:

(Based upon 1000 CFM & 80°F Leaving Water Temp)

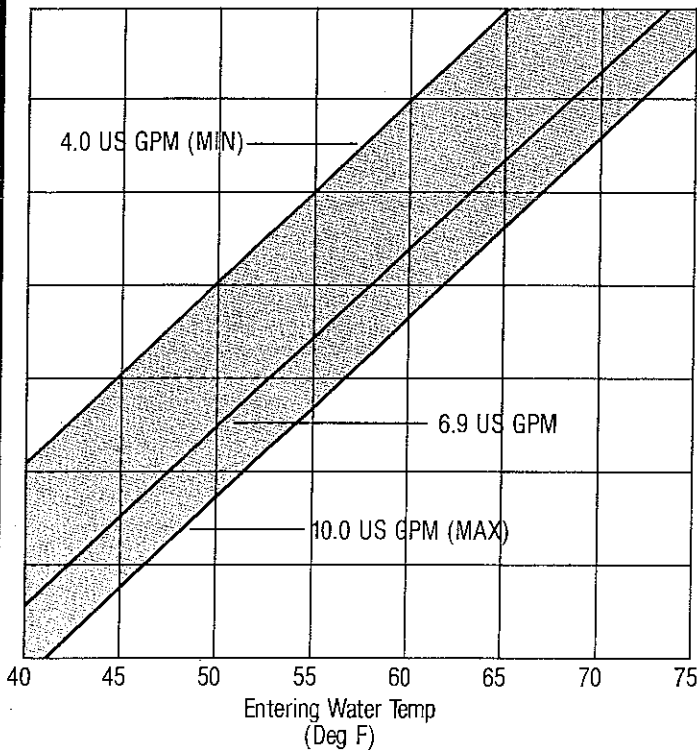
Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)	Power Input (watts)
		75	80	85	90	95		
58	23038	—	—	—	—	—	31278	2416
61	25903	23911	—	—	—	—	34545	2534
64	28767	20606	25445	—	—	—	37812	2652
67	31016	17323	22140	26762	—	—	40322	2729
70	33048	14040	18749	23458	28296	—	42713	2834
73	34866	10865	15574	20282	24991	29700	44824	2920

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	805	865	925	985	1045	1105
Total Capacity	.980	.987	1.000	1.007	1.013	1.026
Sensible Capacity	.959	.980	.995	1.015	1.036	1.056
Heat of Rejection	.984	.992	1.005	1.012	1.020	1.033
Power Input	1.000	1.012	1.024	1.035	1.047	1.059

Cooling Capacity Correction for Other Leaving Water Temperatures:

Leaving Water Temp. (Deg F)	Total & Sensible Mult.	Heat of Rejection Mult.	Power Input (watts)
85	1.00/1.00	1.00	2700
80	1.00/1.00	1.00	2650
75	1.00/ .99	.99	2500
70	1.00/ .98	.99	2475
65	1.00/ .96	.97	2350
60	.99/ .95	.97	2300
55	.99/ .93	.95	2175
50	.98/ .91	.94	2125



Heating Performance

Heating Capacity: 41000 Btuh, Power Input: 3250 Watts, C.O.P.: 3.7 (at A.R.I. Standard 325-85 Rating Conditions)

Multiplier for Effect of Variation in Entering Air Temperature:

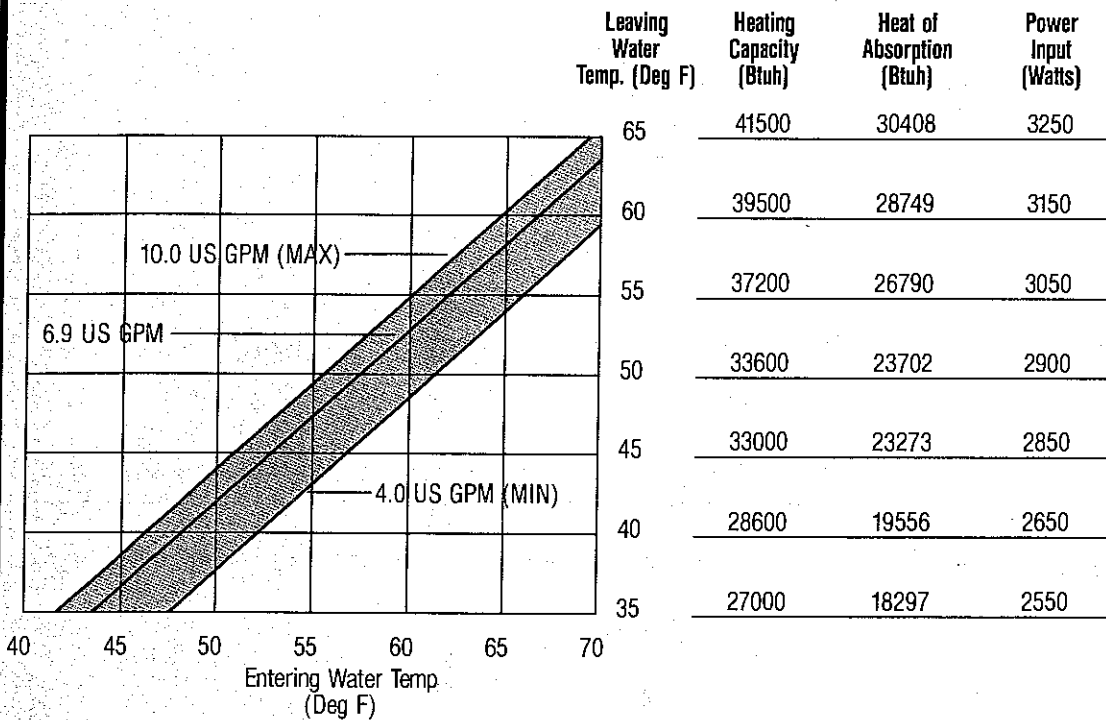
Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.133	1.126	1.119	1.104	1.074	1.044	1.014
Heat of Absorption	1.224	1.195	1.166	1.125	1.063	1.000	.937
Power Input	.940	.980	1.020	1.059	1.098	1.137	1.176

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	805	865	925	985	1045	1105
Heating Capacity	1.074	1.081	1.089	1.096	1.111	1.119
Heat of Absorption	1.072	1.083	1.103	1.114	1.136	1.147
Power Input	1.078	1.078	1.059	1.059	1.059	1.059

Figures in Bold Face Type are @ A.R.I. Rating Conditions.

Heating Capacity Correction for Other Leaving Water Temperatures:



Water Pressure Drop:

A.R.I. Typical Application Flow Rates:

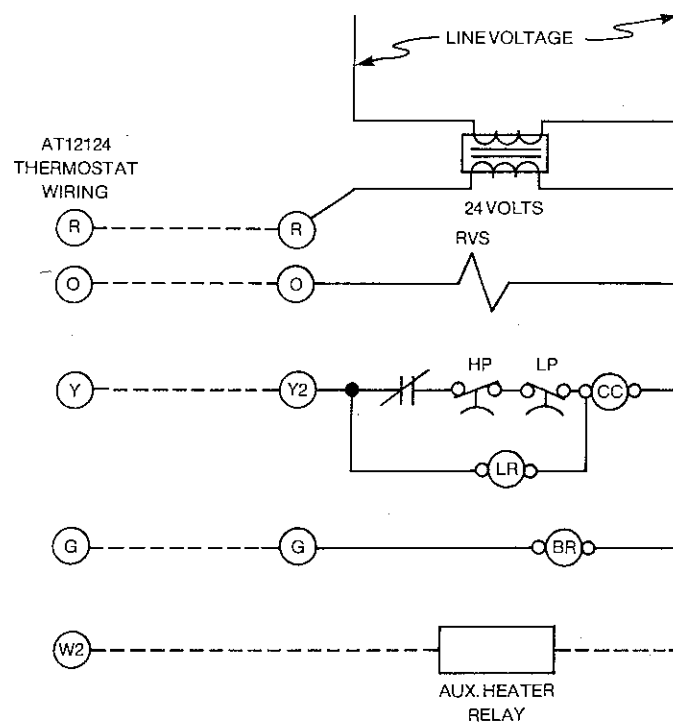
Rate, (GPM/12 MBTU)	3.1	1.6	2.2	2.7	3.5	3.9
Water Flow, (US GPM)	8.0	4.0	5.6	6.9	8.98	10.0
Pressure Drop, (Ft.) (H ₂ O)	7.8	2.24	3.66	5.55	9.40	11.66

(min.)

(Recommended)

(max.)

Wiring Diagram



NOTES:
 ---- Field Wiring
 Aux. Heater Relay is a field installed option.

ACO = AUTOMATIC CHANGEOVER RELAY
 AS = ANTI-SHORT CYCLE RELAY
 BM = BLOWER MOTOR
 BMC = BLOWER MOTOR CAPACITOR
 BR = BLOWER RELAY
 CC = COMPRESSOR CONTACTOR
 CCH = CRANKCASE HEATER
 COMP = COMPRESSOR
 CPC = COMPRESSOR CAPACITOR
 CR = CONTROL RELAY

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 HL = HIGH LEVEL CONDENSATE SWITCH
 HP = HIGH PRESSURE SWITCH
 HT = HIGH TEMPERATURE SWITCH
 LP = LOW PRESSURE SWITCH
 LR = LOCKOUT RELAY
 OL = OVERLOAD
 PR = PROGRAM RELAY
 RS = RANDOM START RELAY

RVR = REVERSING VALVE RELAY
 RVS = REVERSING VALVE SOLENOID
 SD = SHUTDOWN RELAY
 SLR = SPECIAL LOCKOUT RELAY
 SSM = SAFETY SHUTDOWN MODULE
 TB = 24-VOLT TERMINAL BLOCK
 TD = TIME DELAY RELAY
 TR = TIMER RELAY
 TRANS = LINE VOLTAGE TO 24-VOLT TRANSFORMER
 NOTE = * (DENOTES AVAILABLE AS OPTION)

Blower Performance

Fan Speed	External Static Pressure (In wg)										Min. CFM
	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
Hi	1230	1165	1100	1035	955	880					805
Lo	1110	1055	990	930	865	805					
Med	1020	965	910	850							

Blower Performance is based on wet coil and clean filter

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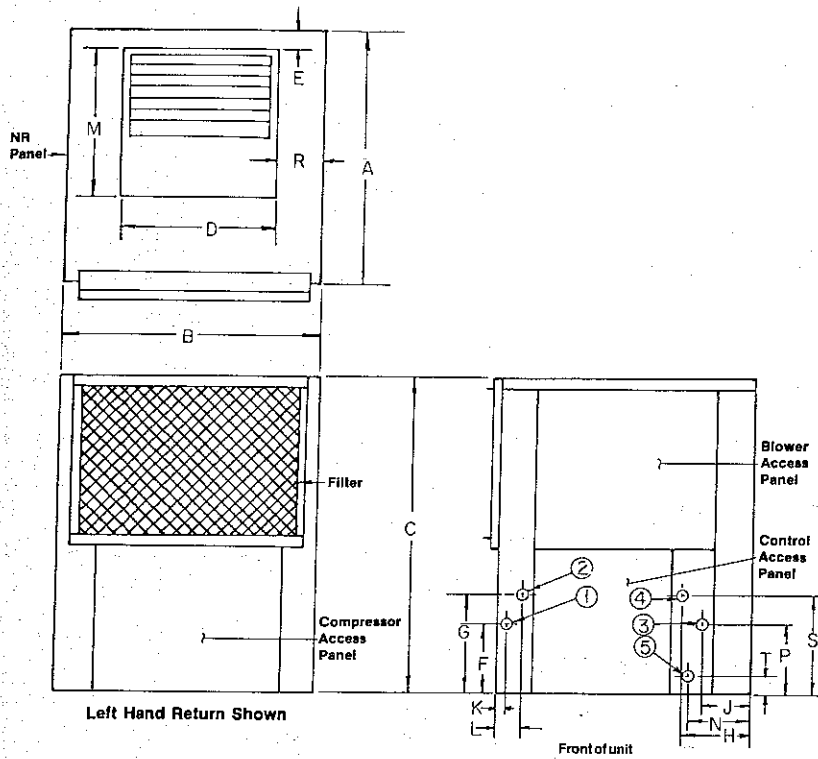
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805 Series

Ground Water
40°F to 85°F Entering Water Temp.

Size 036

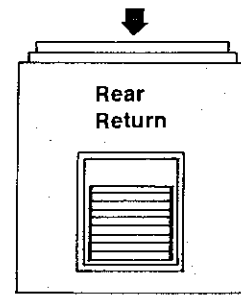
Dimensions



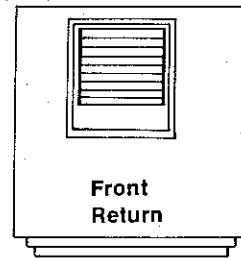
SZ.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
IN.	25 1/4	25 1/4	42	11 1/8	4 1/4	11	15	5 3/4	4 1/4	1 1/8	1 1/8	12 3/8	5	9 1/4	6 3/4	13 1/4	2
CM.	64	64	107	29	11	28	38	14	11	3	4	32	13	23	17	34	5

FILTER SIZE	24" x 24" x 1"	SHIPPING WGT.	248 lbs.
	61 x 61 x 2.5 CM		112 Kg

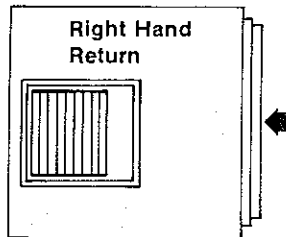
Air Flow Patterns



Front of unit



Front of unit



Front of unit

Electrical Data		Blower	Compressor		Min Ckt. Ampacity	Max. Fuse or HACR Size
Voltage	Phase	FLA	RLA	LRA		
208/230	1	3.2	16.6	75.8	24	40
265	1	3.2	14.2	70	21.6	35
208/230	3	3.2	10.9	65	16.8	25
460	3	1.8	5.5	32	8.7	15

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Cooling Performance

Total Cooling Capacity: 36400 Btuh, Power Input: 3050 Watts, E.E.R.: 11.9 (at A.R.I. Standard 325-85 Rating Conditions)

Effect of Variation in Entering Air Temperature:

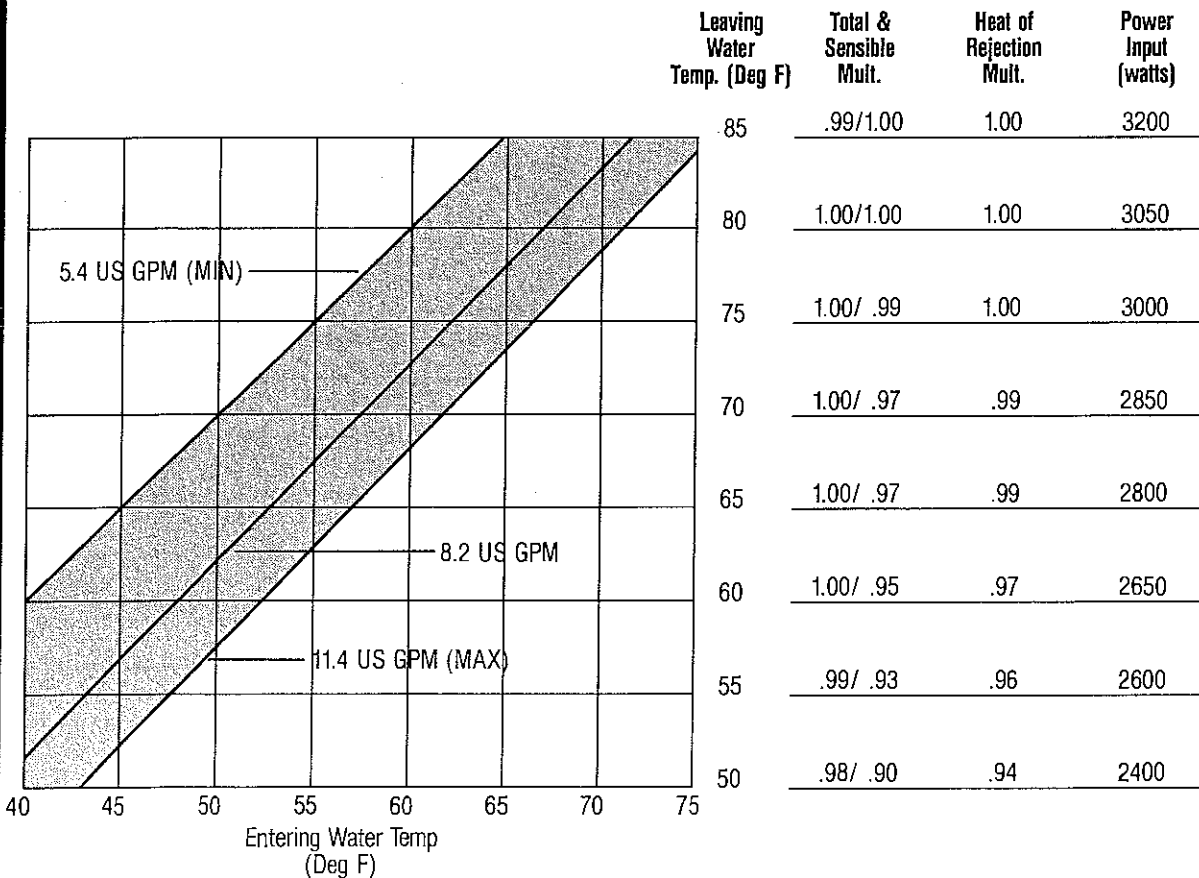
(Based upon 1250 CFM & 80°F Leaving Water Temp)

Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)	Power Input (watts)
		75	80	85	90	95		
58	31959	—	—	—	—	—	41988	2941
61	33560	26838	—	—	—	—	43861	3021
64	35162	23111	28387	—	—	—	45733	3100
67	36800	19360	24636	29911	—	—	47606	3169
70	38438	15730	21006	26402	31678	—	49478	3237
73	40149	12100	17375	22651	28169	33687	51257	3257

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1000	1083	1166	1249	1332	1415
Total Capacity	.983	.989	1.000	1.011	1.017	1.028
Sensible Capacity	.955	.982	1.000	1.018	1.045	1.064
Heat of Rejection	.986	.993	1.004	1.017	1.021	1.034
Power Input	1.000	1.010	1.020	1.041	1.041	1.061

Cooling Capacity Correction for Other Leaving Water Temperatures:



Heating Performance

Heating Capacity: 42500 Btuh, Power Input: 3550 Watts, C.O.P.: 3.5 (at A.R.I. Standard 325-85 Rating Conditions)

Multiplier for Effect of Variation in Entering Air Temperature:

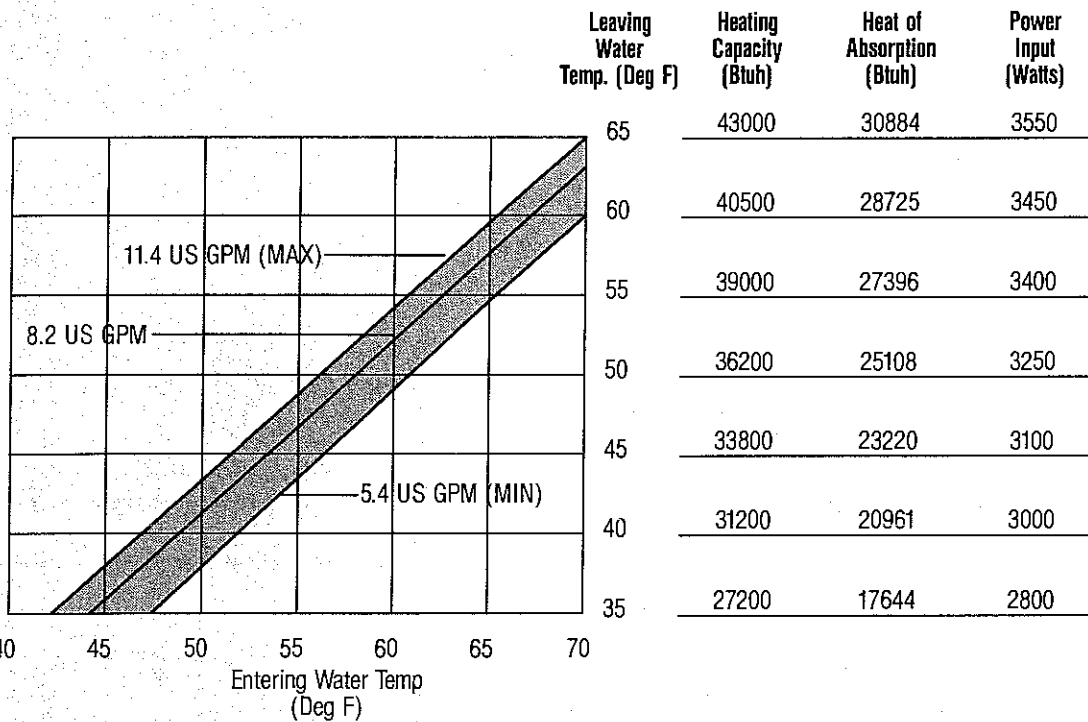
Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.155	1.134	1.113	1.099	1.085	1.070	1.055
Heat of Absorption	1.217	1.185	1.153	1.123	1.101	1.071	1.041
Power Input	1.020	1.035	1.035	1.053	1.053	1.070	1.087

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1000	1083	1166	1249	1332	1415
Heating Capacity	1.070	1.077	1.092	1.099	1.106	1.120
Heat of Absorption	1.089	1.100	1.112	1.123	1.133	1.155
Power Input	1.035	1.035	1.053	1.053	1.053	1.053

Figures in Bold Face Type are @ A.R.I. Rating Conditions.

Heating Capacity Correction for Other Leaving Water Temperatures:



Water Pressure Drop:

A.R.I. Typical Application Flow Rates:

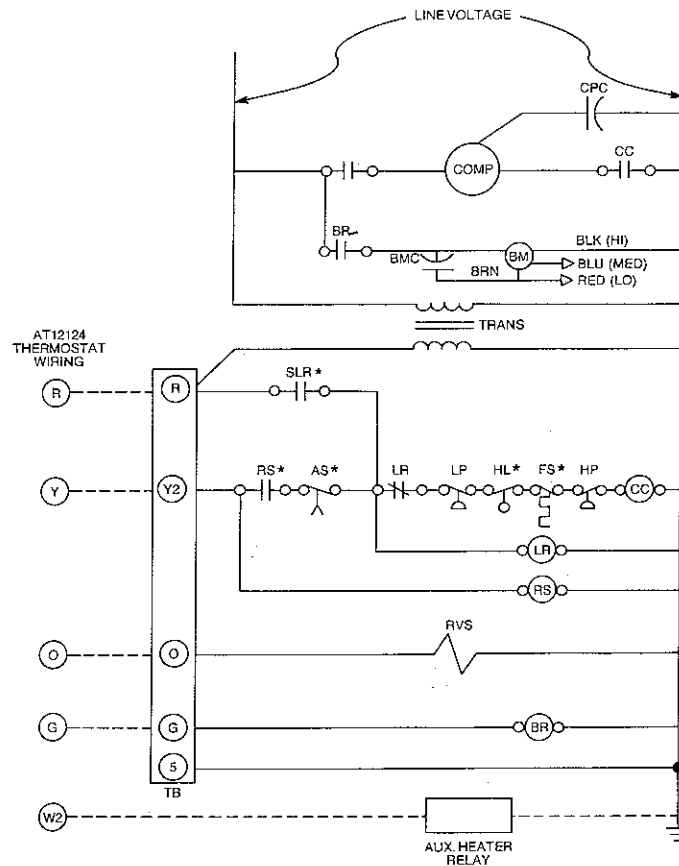
	3.1	1.8	2.2	2.7	3.5	3.8
Rate, (GPM/12 MBTU)						
Water Flow, (US GPM)	9.4	5.4	6.7	8.2	10.6	11.4
Pressure Drop, (Ft.) (H ₂ O)	12.22	4.51	5.97	8.9	14.9	17.29

(min.)

(Recommended)

(max.)

Wiring Diagram



NOTES:
 ---- Field Wiring
 Aux. Heater Relay is a field installed option.

- | | | |
|----------------------------------|-----------------------------------|---|
| ACO = AUTOMATIC CHANGEOVER RELAY | DL = DEMAND LIMIT RELAY | RVR = REVERSING VALVE RELAY |
| AS = ANTI-SHORT CYCLE RELAY | FS = FREEZESTAT | RVS = REVERSING VALVE SOLENOID |
| BM = BLOWER MOTOR | HL = HIGH LEVEL CONDENSATE SWITCH | SD = SHUTDOWN RELAY |
| BMC = BLOWER MOTOR CAPACITOR | HP = HIGH PRESSURE SWITCH | SLR = SPECIAL LOCKOUT RELAY |
| BR = BLOWER RELAY | HT = HIGH TEMPERATURE SWITCH | SSM = SAFETY SHUTDOWN MODULE |
| CC = COMPRESSOR CONTACTOR | LP = LOW PRESSURE SWITCH | TB = 24-VOLT TERMINAL BLOCK |
| CCH = CRANKCASE HEATER | LR = LOCKOUT RELAY SWITCH | TD = TIME DELAY RELAY |
| COMP = COMPRESSOR | OL = OVERLOAD | TR = TIMER RELAY |
| CPC = COMPRESSOR CAPACITOR | PR = PROGRAM RELAY | TRANS = LINE VOLTAGE TO 24-VOLT TRANSFORMER |
| CR = CONTROL RELAY | RS = RANDOM START RELAY | NOTE = * (DENOTES AVAILABLE AS OPTION) |

Blower Performance

External Static Pressure (In wg)

Fan Speed	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	Min. CFM
Hi	1500	1420	1340	1250	1170	1080					1000
Lo	1360	1310	1250	1190	1110	1000					
Med	1290	1240	1190	1120	1030						

Blower Performance is based on wet coil and clean filter

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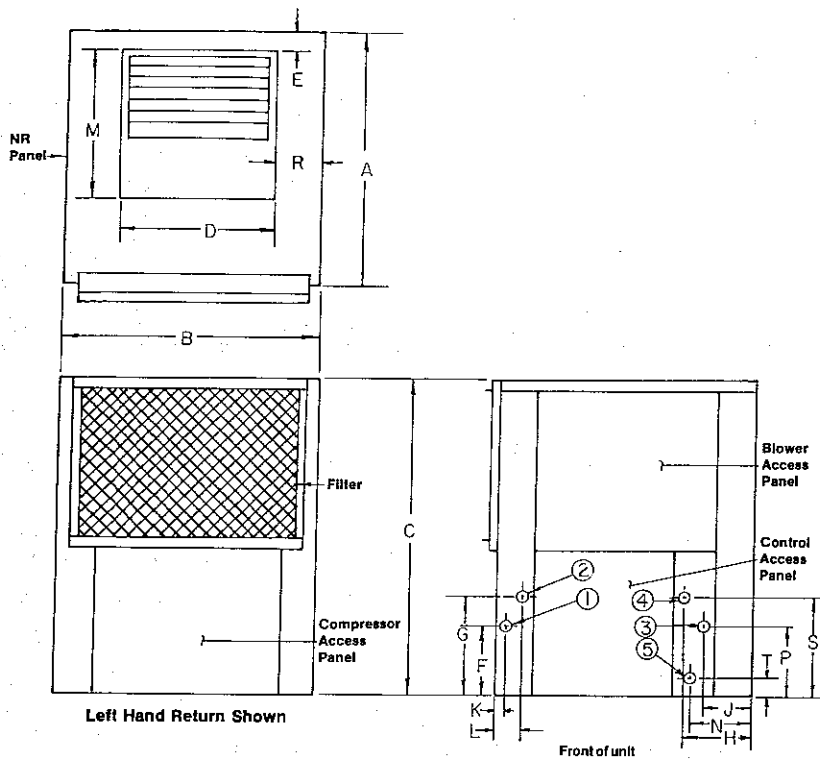
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805 Series

Ground Water
40°F to 85°F Entering Water Temp.

Size 042

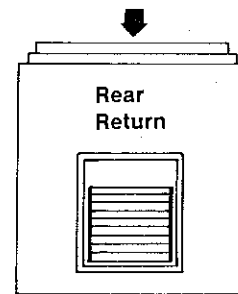
Dimensions



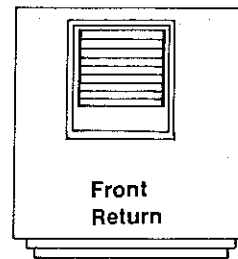
SZ.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
IN.	25 $\frac{1}{4}$	25 $\frac{1}{4}$	42	12 $\frac{9}{16}$	1 $\frac{3}{4}$	11	15	5 $\frac{5}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	13 $\frac{3}{16}$	5	9 $\frac{1}{4}$	6	14 $\frac{1}{2}$	2
CM.	64	64	107	32	5	28	38	14	11	3	4	35	13	23	15	37	5

FILTER SIZE	24" x 24" x 1" 61 x 61 x 2.5 CM	SHIPPING WGT.	278 lbs. 126 Kg
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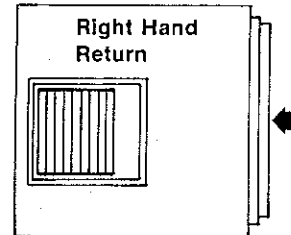
Air Flow Patterns



Front of unit



Front of unit



Front of unit

Electrical Data		Blower	Compressor		Min Ckt. Ampacity	Max. Fuse or HACR Size
Voltage	Phase	FLA	RLA	LRA		
208/230	1	3.4	20.4	93	28.9	45
208/230	3	3.4	13.1	74	19.8	30
460	3	1.7	6.6	41	9.9	15

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Cooling Performance

Total Cooling Capacity: 43000 Btuh, Power Input: 3700 Watts, E.E.R.: 11.6 (at A.R.I. Standard 325-85 Rating Conditions)

Effect of Variation in Entering Air Temperature:

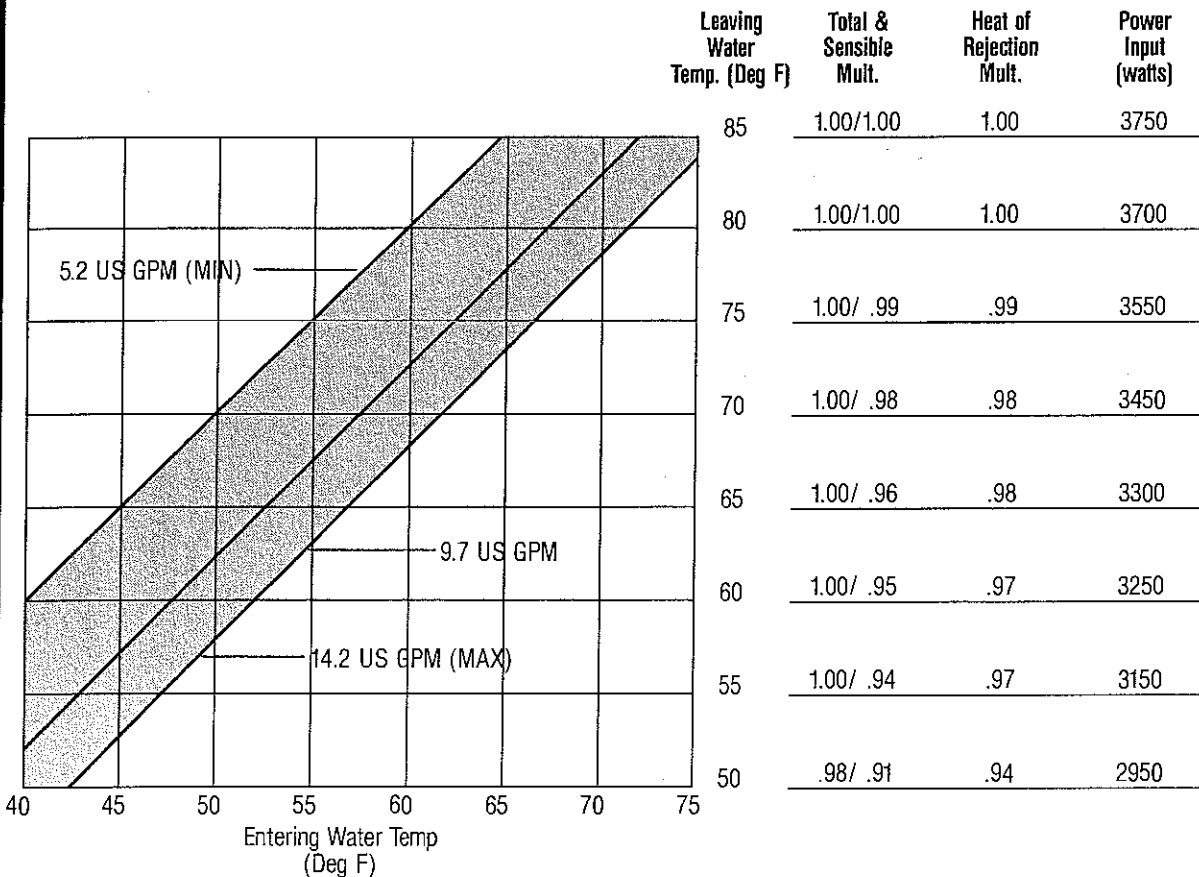
(Based upon 1450 CFM & 80°F Leaving Water Temp)

Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)	Power Input (watts)
		75	80	85	90	95		
58	33970	—	—	—	—	—	46282	3610
61	37453	34503	—	—	—	—	50065	3698
64	40936	29667	36487	—	—	—	53848	3786
67	43516	24831	31868	38688	—	—	56518	3813
70	46053	20212	27032	33852	40672	—	59355	3895
73	47601	15624	22413	29233	36053	42873	61190	3985

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1190	1277	1364	1450	1538	1625
Total Capacity	.988	1.000	1.102	1.012	1.024	1.036
Sensible Capacity	.972	.986	1.007	1.028	1.043	1.064
Heat of Rejection	.994	1.003	1.016	1.016	1.029	1.042
Power Input	1.017	1.017	1.034	1.034	1.057	1.068

Cooling Capacity Correction for Other Leaving Water Temperatures:



Heating Performance

Heating Capacity: 56500 Btuh, Power Input: 4450 Watts, C.O.P.: 3.7 (at A.R.I. Standard 325-85 Rating Conditions)

Multiplier for Effect of Variation in Entering Air Temperature:

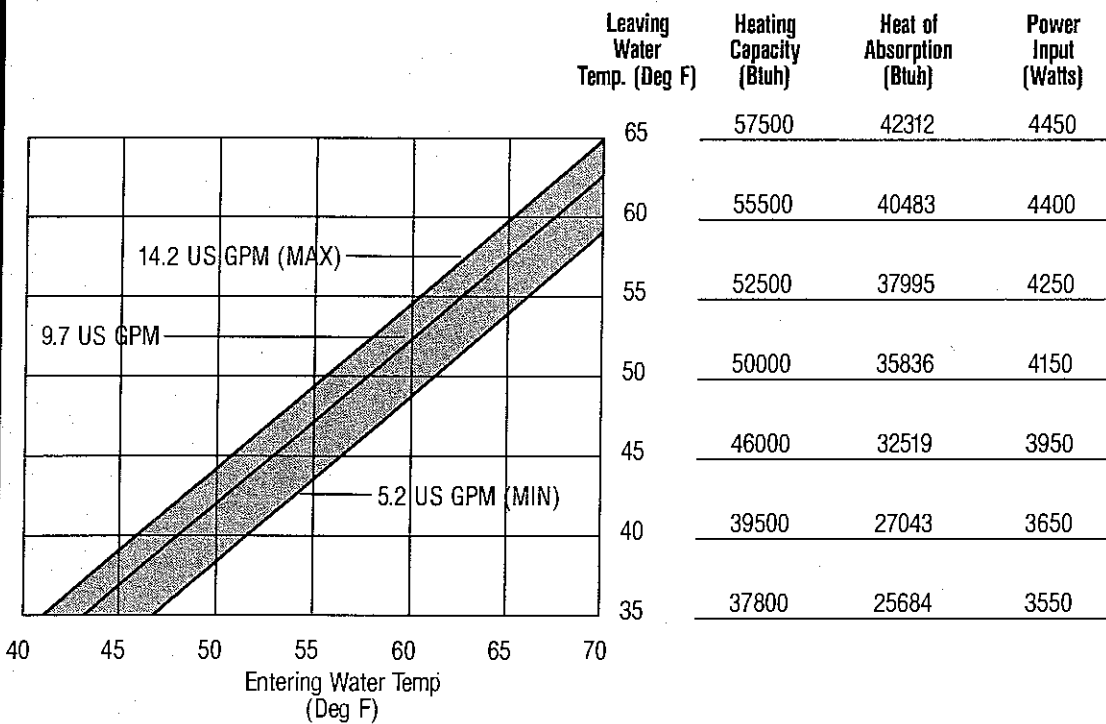
Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.137	1.124	1.111	1.098	1.085	1.085	1.075
Heat of Absorption	1.216	1.183	1.150	1.117	1.085	1.071	1.057
Power Input	.972	1.000	1.028	1.056	1.085	1.113	1.141

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1190	1277	1364	1450	1538	1625
Heating Capacity	1.071	1.085	1.098	1.098	1.111	1.124
Heat of Absorption	1.059	1.085	1.111	1.117	1.144	1.170
Power Input	1.099	1.085	1.070	1.056	1.042	1.028

Figures in Bold Face Type are @ A.R.I. Rating Conditions.

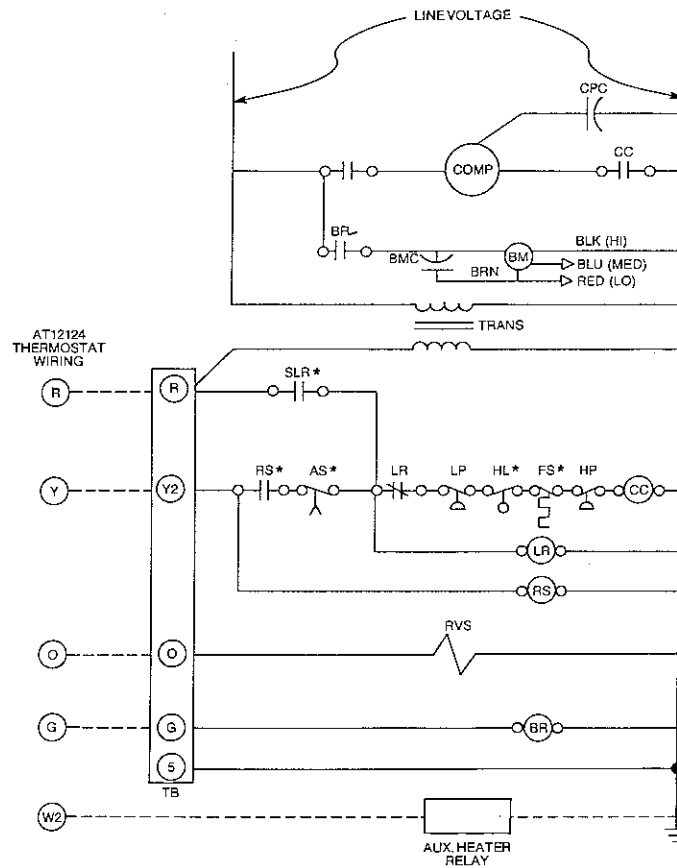
Heating Capacity Correction for Other Leaving Water Temperatures:



Water Pressure Drop:

	A.R.I.	Typical Application Flow Rates:				
Rate, (GPM/12 MBTU)	3.1	1.5	2.2	2.7	3.5	3.9
Water Flow, (US GPM)	11.2	5.2	7.9	9.7	12.5	14.2
Pressure Drop, (Ft.) (H ₂ O)	17.15	4.31	8.1	12.26	20.4	26.29
		(min.)	(Recommended)			(max.)

Wiring Diagram



NOTES:
 ---- Field Wiring
 Aux. Heater Relay is a field installed option.

ACO = AUTOMATIC CHANGEOVER RELAY
 AS = ANTI-SHORT CYCLE RELAY
 BM = BLOWER MOTOR
 BMC = BLOWER MOTOR CAPACITOR
 BR = BLOWER RELAY
 CC = COMPRESSOR CONTACTOR
 CCH = CRANKCASE HEATER
 COMP = COMPRESSOR
 CPC = COMPRESSOR CAPACITOR
 CR = CONTROL RELAY

DL = DEMAND LIMIT RELAY
 FS = FREEZESTAT
 HL = HIGH LEVEL CONDENSATE SWITCH
 HP = HIGH PRESSURE SWITCH
 HT = HIGH TEMPERATURE SWITCH
 LP = LOW PRESSURE SWITCH
 LR = LOCKOUT RELAY
 OL = OVERLOAD
 PR = PROGRAM RELAY
 RS = RANDOM START RELAY

RVR = REVERSING VALVE RELAY
 RVS = REVERSING VALVE SOLENOID
 SD = SHUTDOWN RELAY
 SLR = SPECIAL LOCKOUT RELAY
 SSM = SAFETY SHUTDOWN MODULE
 TB = 24-VOLT TERMINAL BLOCK
 TD = TIME DELAY RELAY
 TR = TIMER RELAY
 TRANS = LINE VOLTAGE TO 24-VOLT TRANSFORMER
 NOTE = * (DENOTES AVAILABLE AS OPTION)

Blower Performance

Fan Speed	External Static Pressure (In wg)										Min. CFM
	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
Hi	1780	1700	1620	1540	1440	1340					1260
Lo	1670	1610	1540	1460	1370	1260					
Med	1540	1500	1450	1400	1330						

Blower Performance is based on wet coil and clean filter

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Continuing engineering research results in steady improvements.
 Therefore, these specifications are subject to change without notice.

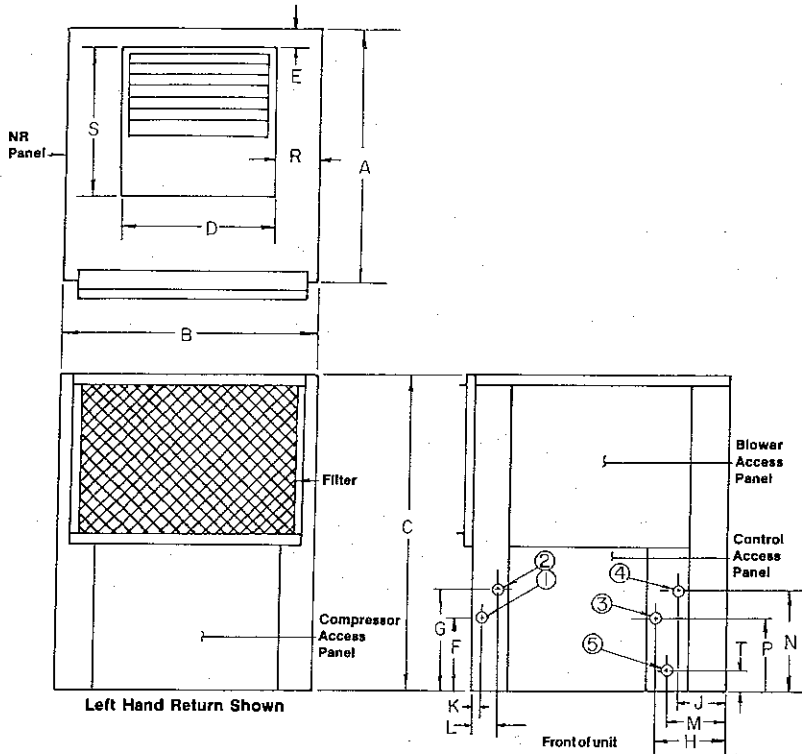
© 1987 Climate Master Printed in U.S.A. 12/87

805 Series

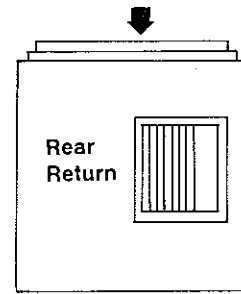
Ground Water
40°F to 85°F Entering Water Temp.

Size 060

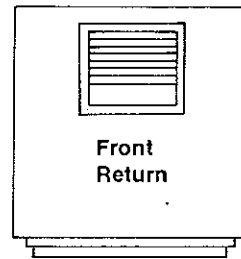
Dimensions



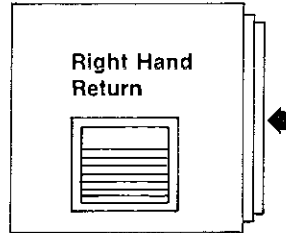
Air Flow Patterns



Front of unit



Front of unit



Front of unit

SZ.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T
IN.	28	28	43	15½	1½	11	15	5	3¾	1	1½	5½	14¾	9½	8½	14¾	1¾
CM.	71	71	109	39	4	28	38	13	9	2.5	4	13	38	24	16	37	4

FILTER SIZE	28" x 25" x 1"	SHIPPING WGT.	339 lbs.
	71 x 64 x 2.5 CM		154 Kg

Electrical Data		Blower	Compressor		Min Ckt. Ampacity	Max. Fuse or HACR Size
Voltage	Phase	FLA	RLA	LRA		
208/230	1	5.8	27.3	132	39.9	60
208/230	3	5.8	16.9	103	26.9	40
460	3	2.6	8.3	54	13	20

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Cooling Performance

Total Cooling Capacity: 63500 Btuh, Power Input: 5600 Watts, E.E.R.: 11.3 (at A.R.I. Standard 325-85 Rating Conditions)

Effect of Variation in Entering Air Temperature:

(Based upon CFM & °F Leaving Water Temp)

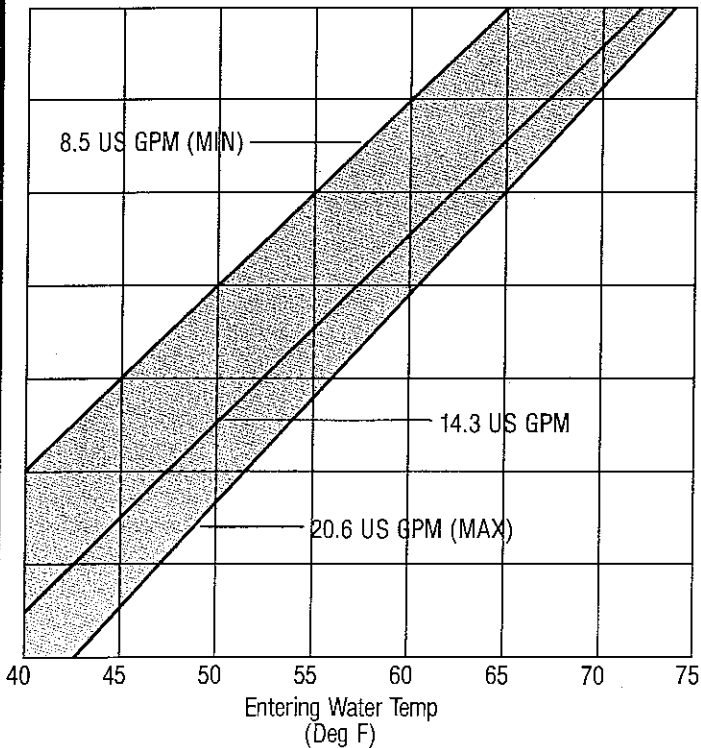
Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)	Power Input (watts)
		75	80	85	90	95		
58	54356	---	---	---	---	---	72699	5379
61	57404	52033	---	---	---	---	76251	5527
64	60452	44826	54823	---	---	---	79804	5675
67	64008	37432	47616	58125	---	---	83852	5819
70	68072	30318	40734	50917	61426	---	88478	5984
73	71120	23482	33666	43710	54265	64820	92031	6132

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1700	1783	1866	1949	2032	2115
Total Capacity	.984	.992	1.000	1.000	1.008	1.016
Sensible Capacity	.976	.988	1.000	1.024	1.036	1.048
Heat of Rejection	.989	.998	1.007	1.007	1.015	1.024
Power Input	1.011	1.022	1.034	1.034	1.045	1.056

Cooling Capacity Correction for Other Leaving Water Temperatures:

Leaving Water Temp. (Deg F)	Total & Sensible Mult.	Heat of Rejection Mult.	Power Input (watts)
85	1.00/1.00	1.00	5700
80	1.00/1.00	1.00	5600
75	1.00/ .98	.99	5300
70	1.01/ .98	.99	5200
65	1.01/ .96	.97	4950
60	1.01/ .95	.97	4800
55	.98/ .92	.94	4550
50	.97/ .90	.93	4500



Heating Performance

Heating Capacity: 68000 Btuh, Power Input: 5600 Watts, C.O.P.: 3.6 (at A.R.I. Standard 325-85 Rating Conditions)

Multiplier for Effect of Variation in Entering Air Temperature:

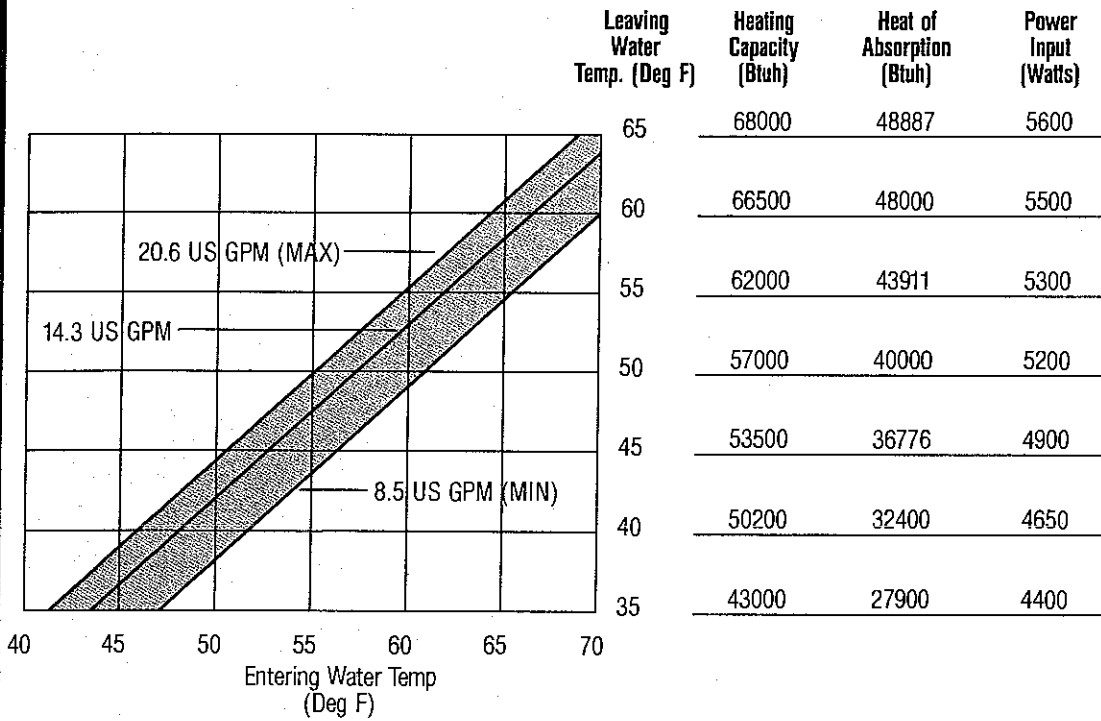
Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.121	1.110	1.099	1.099	1.088	1.077	1.066
Heat of Absorption	1.194	1.166	1.138	1.127	1.093	1.065	1.037
Power Input	.978	1.000	1.022	1.044	1.078	1.100	1.122

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	1700	1783	1866	1949	2032	2115
Heating Capacity	1.077	1.077	1.088	1.088	1.099	1.110
Heat of Absorption	1.093	1.093	1.110	1.110	1.121	1.138
Power Input	1.044	1.044	1.044	1.044	1.056	1.056

Figures in Bold Face Type are @ A.R.I. Rating Conditions.

Heating Capacity Correction for Other Leaving Water Temperatures:

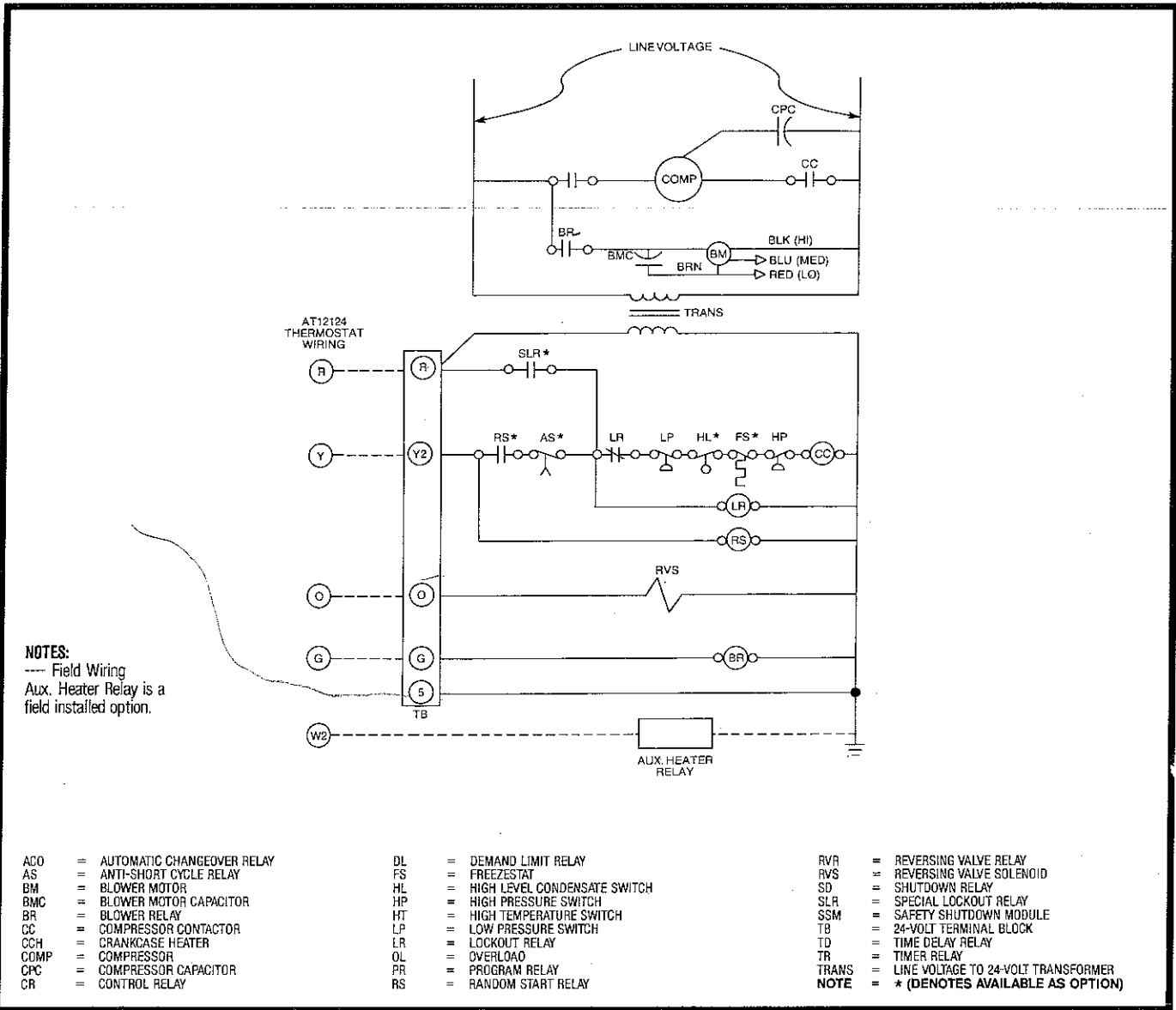


Water Pressure Drop:

A.R.I. Typical Application Flow Rates:

Rate, (GPM/12 MBTU)	3.1	1.6	2.2	2.7	3.5	3.9
Water Flow, (US GPM)	16.6	8.5	11.6	14.3	18.5	20.6
Pressure Drop, (Ft.) (H ₂ O)	15.28	4.73	8.8	11.3	22.4	23.5
	(min.)		(Recommended)			(max.)

Wiring Diagram



Blower Performance

External Static Pressure (In wg)

Fan Speed	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	Min. CFM
Hi	2200	2140	2080	2010	1940	1860					1700
Lo	2110	2050	2000	1940	1870	1800					
Med	2060	2000	1940	1880	1820	1760	1700				

Blower Performance is based on wet coil and clean filter

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