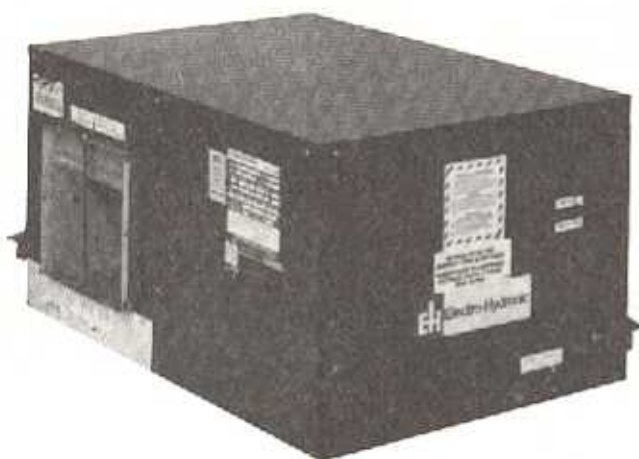


CC or UC 330

Water Source Heat Pumps

Application Ratings and Dimensions

CLICK ANYWHERE on THIS PAGE to RETURN to SNYDER GENERAL HVAC INFORMATION at InspectApedia.com



Blower Performance:

Maximum Air Volume, External To Unit and Filter, (Dry Coil)

Ext. S.P. In. W.G.	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60
CFM	1380	1350	1315	1270	1215	1175	1130	1020	960	895	N.R.

(N.R. — Not Recommended)

The AAV (adjustable air volume) feature permits adjustment to a lesser air quantity at any external static pressure, providing that the minimum air flow limits are observed.

Deduct 6% from the above values for wet coil operation.

Multiply CFM values shown by the air density ratio for the actual CFM at higher altitudes.

Δ p Across Coil and Filter @ Various Air Flow Rates

CFM	1400	1350	1300	1250	1200	1150	1100	1050	1000	950	900
Δp	.530	.490	.465	.440	.410	.380	.355	.340	.320	.290	.265

Utilize this information to adjust fan capacity to specified CFM.

Additional Physical Information:

Filter Size	25 x 19 x 1
Supply and Return Conn.	¾" F.P.T.
Condensate Conn.	¾" F.P.T.
Weight, Operating/Shipping (lb.)	211/214
Blower Motor HP	½ (except 460V-¾ HP)
Blower Wheel Size (d x w)	10 x 9½
Coil Face Area (Sq. Ft.)	2.81
Coil Face Dimension (w x h)	22½ x 18
No. of Rows	4
Refrigerant Charge (R-22, oz.)	60

Since product improvement and development are ongoing activities at McQuay Inc., we reserve the right to make reasonable changes without notice.

McQuay
Air Conditioning

Cooling Performance

Types CC/UC 330F or G

Total Cooling Capacity, 33,000 Btuh/Power Input, 3,050 Watts / E.E.R. 10.8 (at A.R.I. Standard 320-81 Rating Conditions)

Effect of Variation in Entering Air Temperature:

(Based upon 1,200 CFM & 95°F Leaving Water Temp)

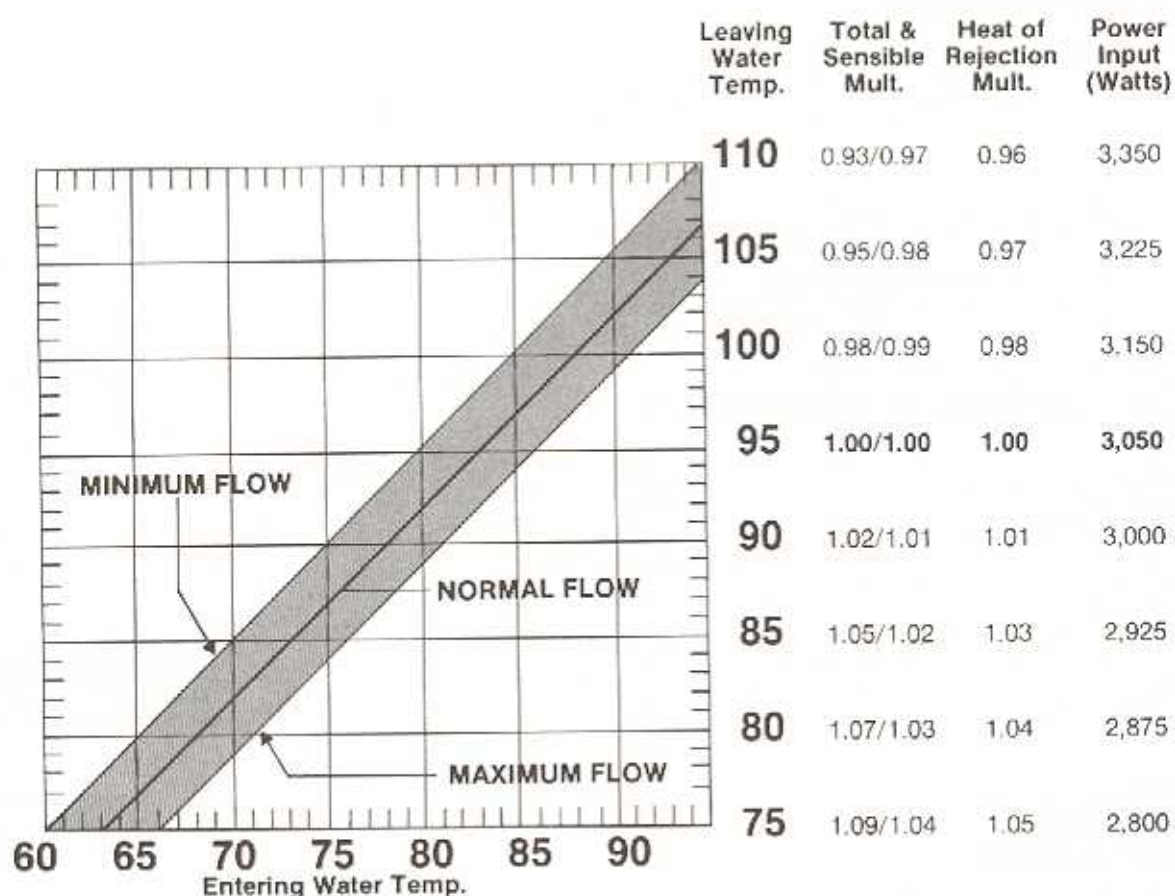
Entering AIR (Deg F) Wet Bulb	Total Capacity (Btuh)	Sensible Capacity (Btuh) @ Entering Air (Deg F) Dry Bulb:					Heat of Rejection (Btuh)
		75	80	85	90	95	
61	28,700	25,300	—	—	—	—	38,800
64	30,700	21,800	28,500	—	—	—	40,900
67	33,000	18,100	25,400	31,700	—	—	43,400
70	35,100	—	21,100	27,700	34,000	—	45,700
73	37,300	—	—	23,500	29,800	36,500	48,000

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	900	960	1,080	1,200	1,320
Total Capacity	0.95	0.96	0.98	1.00	1.02
Sensible Capacity	0.84	0.87	0.93	1.00	1.06
Heat of Rejection	0.95	0.96	0.98	1.00	1.01
Power Input	0.98	0.98	0.99	1.00	1.01

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

Cooling Capacity Correction for Other Leaving Water Temperatures:



Data on this page also applies to Cooling-only units, types CG/UG.

Heating Performance

Types CC/UC 330F or G

Heating Capacity, 39,000 Btuh/Power Input, 3,080 Watts / C.O.P. 3.7 (at A.R.I. Standard 320-81 Rating Conditions)

Multiplier for Effect of Variation in Entering Air Temperature:

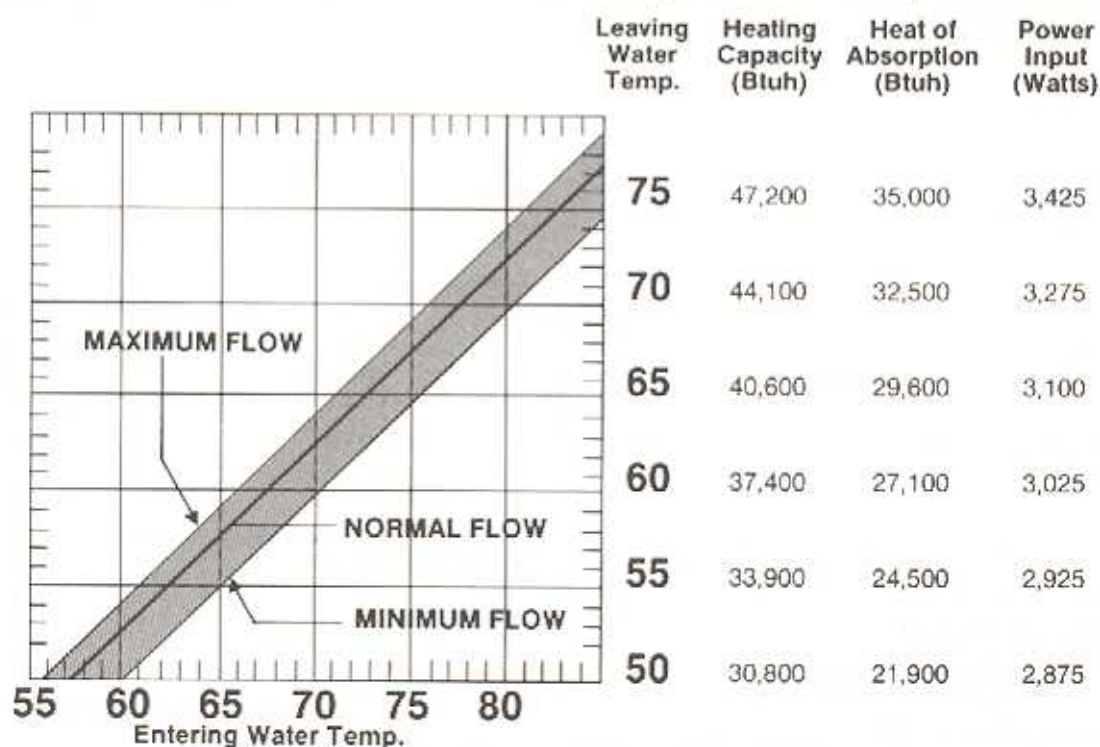
Entering Air Temp. Deg. F.	55	60	65	70	75	80	85
Heating Capacity	1.04	1.03	1.01	1.00	0.99	0.97	0.95
Heat of Absorption	1.07	1.05	1.02	1.00	0.98	0.95	0.93
Power Input	0.94	0.95	0.97	1.00	1.03	1.06	1.09

Multiplier for Effect of Variation in Air Flow:

Air Flow Rate, CFM	900	960	1,080	1,200	1,320
Heating Capacity	0.97	0.98	0.99	1.00	1.01
Heat of Absorption	0.96	0.97	0.98	1.00	1.01
Power Input	1.05	1.04	1.02	1.00	0.99

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

Heating Capacity Correction for Other Leaving Water Temperatures:

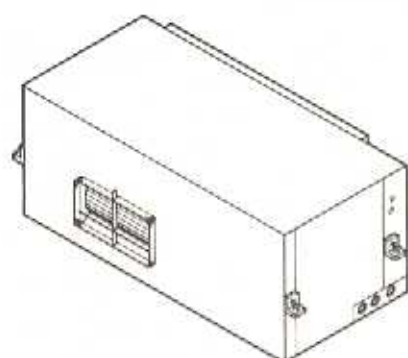


Water Flow & Pressure Drop: A.R.I. Typical Application Flow Rates:

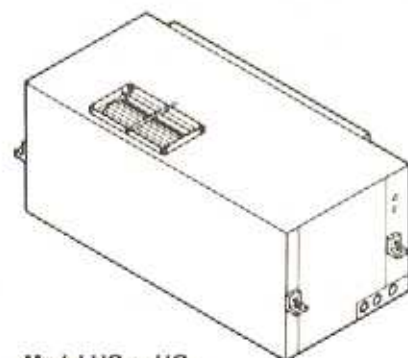
Rate, (GPM/12 MBTU)	3.16	2.00	2.20	2.40	2.60	2.80	3.00
Water Flow, (GPM)	8.7	5.50	6.05	6.60	7.15	7.70	8.25
Pressure Drop, (Ft.)	18.00	7.88	9.36	10.95	12.64	14.45	16.36
	(max.)	(min.)		(Rec.)			

Dimensions

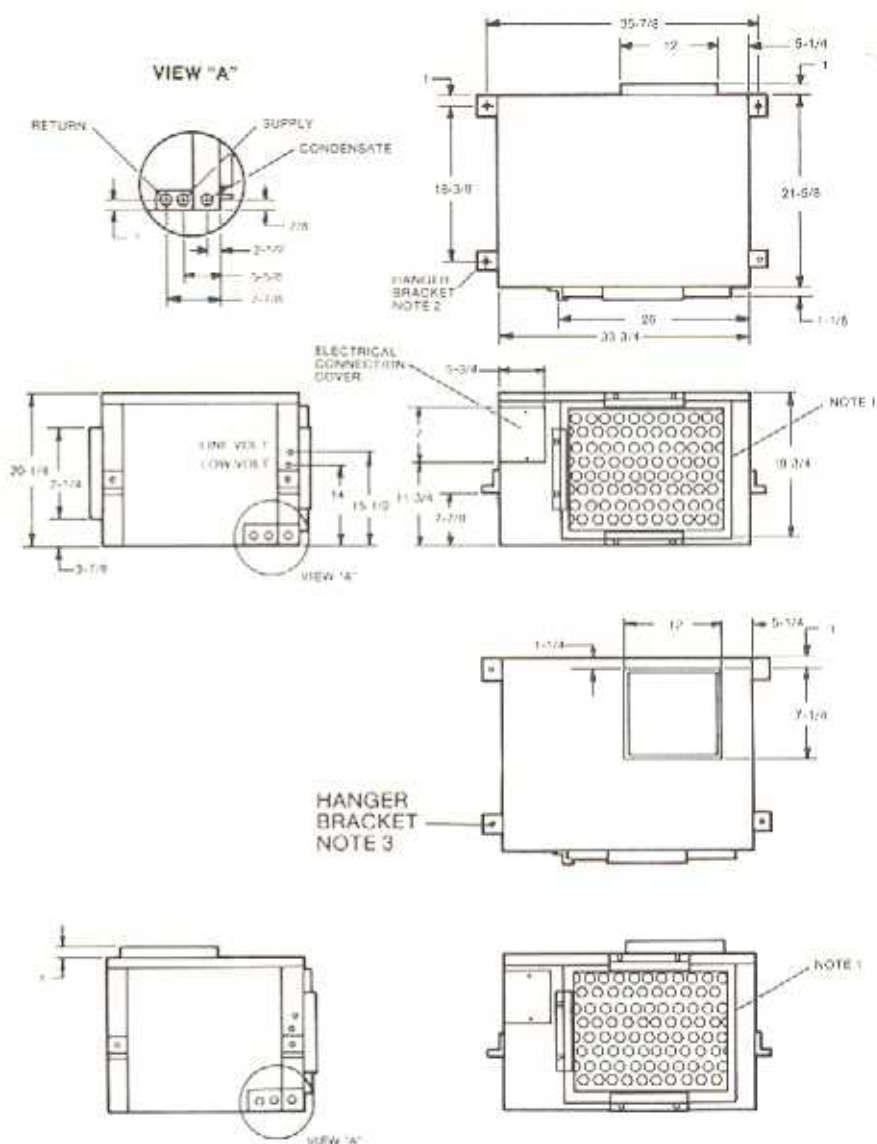
Types CC/UC 330F or G



Model CC or CG
Horizontal Discharge



Model UC or UG
Vertical Discharge



- Notes: 1. Factory-installed filter brackets (3) for side pull filter removal. Installer may rearrange filter brackets for up or down pull.
2. Hanger kits are packed with each CC or CG unit, requires 1/4"-16 threaded rods (not supplied).
3. Hanger kits are optional accessories for UC or UG, as these units are normally shelf- or floor-mounted. (Order Kit No. 59004250.)

Electrical Data: Heat Pumps or Cooling-Only Units

Unit Nameplate Utilization Voltage:

	208-1 60 Hz	230-1 60 Hz	265-1 60 Hz	208-3 60 Hz	230-3 60 Hz	460-3 60 Hz
Comp. R.L.A.	13.5	12.2	10.6	10.4	9.4	4.7
Comp. L.R.A.	75.0	75.0	72.0	70.0	70.0	30.0
Fan F.L.A.	2.3	2.1	1.7	(2.3)	(2.1)	(0.9)
Min. Ckt. Amps	19.2	17.4	15.0	15.3	13.9	6.8
Max. Fuse	30.0	25.0	25.0	25.0	20.0	15.0

- Note: 1. Where the Fan F.L.A. is enclosed within parentheses, it indicates a single phase blower motor in a unit designed for operation from a three phase power supply. It may be necessary for the installer to connect multiple units in progressive sequence in order to ensure System Phase Balance (e.g. the first unit is connected Phases A, B, C; the second unit, Phases B, C, A; the third unit Phases C, A, B, etc.). It may be additionally necessary to reconnect certain units to achieve Phase Balance by controlled "Zone" when certain control schemes are implemented, such as night setback systems.

McQuay
Snyder General Corporation

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