

hot water coils

APPLICATION

- Hot water (glycol)-to-air heat exchanger
- Attached to air terminal to provide heat into a space
- Typically used in perimeter zones

PRODUCT FEATURES

- Designed for maximum heat transfer and low water pressure drops using single and multi-circuited designs.
- Performance data per ARI Standard 410.
- Factory pressure tested for leaks with dry nitrogen to 400 psi with a minimum burst pressure of 2500 psi.
- 20 gauge galvanized sheet metal casing with 18 gauge end plates
- 1/2" O.D. copper tubes, .016" wall thickness, mechanically expanded in fins. Manifolds are minimum .028" wall thickness.
- Aluminum corrugated fins with rippled edges, .0055" thick, 10 per inch.
- Connections are male solder headers. Refer to submittal sheet for diameter.
- Factory installed to air terminal

OPTIONS

- Right hand or left hand connections – factory configured
- 1, 2, and 4 row coils (see specific model for availability)
- Clean-out access doors factory installed in air terminal casing.
- "Steam" construction available. Contact your local Anemostat representative.

PERFORMANCE NOTES

- Data is based on ARI 410 test standards. Water flows below the allowed lower limit may reduce heat transfer due to laminar water flow through tubes.



Model EZT Single Duct
with 2 row hot water coil,
right hand header connections



Table 43: Hot Water Heating Coil Performance

	Water Flow (GPM)	Water PD (ft. w.g.)		AIR FLOW CFM									
				200	300	400	500	600	700	800	900	1000	
EST-33 1 Row 1/3 H.P.	2.00	0.30	MBH	14.1	18.1	21.3	24.0	26.3	28.4	30.2	31.9	33.4	
	3.00	0.64		14.5	18.8	22.4	25.5	28.2	30.6	32.7	34.7	36.5	
	4.00	1.08		14.8	19.3	23.0	26.3	29.2	31.8	34.1	36.3	38.3	
	5.00	1.63		14.9	19.6	23.5	26.9	29.9	32.6	35.1	37.4	39.5	
	6.00	2.28		15.0	19.8	23.7	27.2	30.3	33.2	35.7	38.1	40.3	
EST-33 2 Row 1/3 H.P.	3.00	1.08	MBH	21.5	28.9	35.2	40.5	45.2	49.4	53.2	56.6	59.7	
	4.00	1.82		21.8	29.6	36.2	42.0	47.1	51.7	55.9	59.7	63.2	
	5.00	2.73		22.0	30.0	36.8	42.9	48.3	53.2	57.6	61.7	65.5	
	6.00	3.80		22.2	30.3	37.3	43.5	49.1	54.2	58.9	63.2	67.2	
	7.00	5.03		22.3	30.5	37.6	43.9	49.7	54.9	59.8	64.2	68.4	

	Water Flow (GPM)	Water PD (ft. w.g.)		AIR FLOW CFM									
				600	700	800	900	1000	1100	1200	1300	1400	
EST-50 1 Row 1/2 H.P.	2.00	0.30	MBH	26.3	28.4	30.2	31.9	33.4	34.8	36.0	37.2	38.3	
	3.00	0.64		28.2	30.6	32.7	34.7	36.5	38.1	39.7	41.1	42.5	
	4.00	1.08		29.2	31.8	34.1	36.3	38.3	40.1	41.8	43.5	45.0	
	5.00	1.63		29.9	32.6	35.1	37.4	39.5	41.4	43.3	45.0	46.6	
	6.00	2.28		30.3	33.2	35.7	38.1	40.3	42.4	44.3	46.1	47.9	
EST-50 2 Row 1/2 H.P.	3.00	1.08	MBH	45.2	49.4	53.2	56.6	59.7	62.6	65.2	67.6	69.9	
	4.00	1.82		47.1	51.7	55.9	59.7	63.2	66.5	69.5	72.3	75.0	
	5.00	2.73		48.3	53.2	57.6	61.7	65.5	69.1	72.4	75.5	78.4	
	6.00	3.80		49.1	54.2	58.9	63.2	67.2	70.9	74.4	77.7	80.9	
	7.00	5.03		49.7	54.9	59.8	64.2	68.4	72.3	76.0	79.4	82.7	

	Water Flow (GPM)	Water PD (ft. w.g.)		AIR FLOW CFM									
				800	920	1040	1155	1275	1395	1515	1630	1750	
EST-75 1 Row 3/4 H.P.	2.00	0.32	MBH	32.6	34.8	36.7	38.4	40.0	41.5	42.8	44.0	45.2	
	3.00	0.68		35.2	37.8	40.2	42.2	44.2	46.0	47.7	49.2	50.7	
	4.00	1.16		36.7	39.6	42.2	44.4	46.6	48.7	50.6	52.3	54.0	
	5.00	1.74		37.7	40.7	43.5	45.9	48.3	50.5	52.5	54.4	56.2	
	6.00	2.44		38.4	41.5	44.4	47.0	49.5	51.8	54.0	55.9	57.9	
EST-75 2 Row 3/4 H.P.	3.00	1.17	MBH	56.5	60.9	64.8	68.3	71.6	74.6	77.4	79.8	82.2	
	4.00	1.98		59.3	64.3	68.8	72.7	76.5	80.1	83.3	86.3	89.1	
	5.00	2.96		61.1	66.4	71.3	75.7	79.8	83.7	87.3	90.6	93.8	
	6.00	4.12		62.4	68.0	73.1	77.7	82.2	86.3	90.2	93.7	97.2	
	7.00	5.45		63.3	69.1	74.5	79.2	83.9	88.3	92.4	96.1	99.7	

	Water Flow (GPM)	Water PD (ft. w.g.)		AIR FLOW CFM									
				900	1055	1215	1370	1525	1980	1840	1995	2150	
EST-10 1 Row 1 H.P.	2.00	0.32	MBH	34.4	36.9	39.2	41.2	42.9	44.5	46.0	47.3	48.5	
	3.00	0.68		37.4	40.4	43.2	45.6	47.8	49.8	51.7	53.4	55.0	
	4.00	1.16		39.1	42.5	45.6	48.3	50.7	53.0	55.2	57.2	59.0	
	5.00	1.74		40.2	43.8	47.1	50.0	52.7	55.2	57.6	59.7	61.7	
	6.00	2.44		41.0	44.8	48.2	51.3	54.1	56.7	59.3	61.5	63.7	
EST-10 2 Row 1 H.P.	3.00	1.17	MBH	60.2	65.3	70.0	74.0	77.6	80.8	83.9	86.5	89.0	
	4.00	1.98		63.5	69.3	74.7	79.4	83.6	87.5	91.1	94.4	97.5	
	5.00	2.96		65.6	71.9	77.8	82.9	87.6	92.0	96.1	99.8	103.2	
	6.00	4.12		67.1	73.7	80.0	85.5	90.5	95.2	99.6	103.7	107.4	
	7.00	5.45		68.2	75.1	81.6	87.4	92.7	97.6	102.3	106.6	110.6	

1 MBH = 1,000 BTU / HR
GPM = Gallons / Min
CFM = Cubic Feet / Min

Note: All selections based on 180°F EWT and 55°F EAT (125°ΔT). For other ΔT's adjust capacities by the following factors:											
ΔT	65	75	85	95	105	115	125	135	145	155	165
Factor	.51	.59	.67	.75	.83	.92	1.00	1.08	1.17	1.25	1.33