

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 AHRI Standard 410.
- Factory pressure tested for leaks with dry nitrogen to 500 psi for tubing with a rated 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 AHRI 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 31: Hot Water Heating Coil Performance

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			200	250	300	350	400	450	500	550	600	
QST-17 1 Row 1/6 H.P.	2.00	0.25	MBH	12.4	14.2	15.7	17.1	18.4	19.5	20.6	21.5	22.5
	3.00	0.53		12.9	14.8	16.5	18.0	19.4	20.7	21.9	23.1	24.1
	4.00	0.91		13.1	15.1	16.9	18.5	20.0	21.4	22.7	23.9	25.0
	5.00	1.37		13.3	15.3	17.2	18.9	20.4	21.9	23.2	24.5	25.7
	6.00	1.93		13.4	15.5	17.4	19.1	20.7	22.2	23.6	24.9	26.1
QST-17 2 Row 1/6 H.P.	2.00	1.56	MBH	19.4	22.6	25.5	28.1	30.4	32.6	34.6	36.4	38.1
	3.00	3.30		20.0	23.5	26.6	29.5	32.1	34.5	36.8	38.9	40.9
	4.00	5.63		20.3	23.9	27.2	30.2	33.0	35.6	38.0	40.4	42.5
	5.00	8.52		20.5	24.2	27.5	30.7	33.6	36.3	38.8	41.2	43.5
	6.00	11.96		20.6	24.4	27.8	31.0	34.0	36.7	39.4	41.9	44.2

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			600	665	725	790	850	915	975	1040	1100	
QST-25 1 Row 1/4 H.P.	2.00	0.30	MBH	26.3	27.7	28.9	30.1	31.1	32.1	33.0	34.0	34.8
	3.00	0.64		28.2	29.8	31.1	32.5	33.7	35.0	36.0	37.2	38.1
	4.00	1.08		29.2	30.9	32.4	33.9	35.2	36.6	37.8	39.0	40.1
	5.00	1.63		29.9	31.7	33.2	34.8	36.2	37.7	39.0	40.3	41.4
	6.00	2.28		30.3	32.2	33.8	35.5	37.0	38.5	39.8	41.2	42.4
QST-25 2 Row 1/4 H.P.	3.00	1.08	MBH	45.2	48.0	50.4	52.8	54.9	57.1	59.0	60.9	62.6
	4.00	1.82		47.1	50.1	52.8	55.5	57.8	60.3	62.4	64.6	66.5
	5.00	2.73		48.3	51.5	54.3	57.2	59.7	62.3	64.6	67.0	69.1
	6.00	3.80		49.1	52.5	55.4	58.4	61.1	63.8	66.2	68.7	70.9
	7.00	5.03		49.7	53.2	56.2	59.3	62.0	64.9	67.4	70.0	72.3

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			1000	1075	1150	1225	1300	1375	1450	1525	1600	
QST-50 1 Row 1/2 H.P.	2.00	0.30	MBH	33.4	34.4	35.4	36.3	37.2	38.0	38.8	39.5	40.2
	3.00	0.64		36.5	37.7	38.9	40.0	41.1	42.1	43.1	44.0	44.9
	4.00	1.08		38.3	39.7	41.0	42.3	43.5	44.6	45.7	46.7	47.7
	5.00	1.63		39.5	41.0	42.4	43.7	45.0	46.2	47.4	48.6	49.6
	6.00	2.28		40.3	41.9	43.4	44.8	46.1	47.4	48.7	49.9	51.0
QST-50 2 Row 1/2 H.P.	3.00	1.08	MBH	59.7	61.9	63.9	65.8	67.6	69.3	71.0	72.5	74.0
	4.00	1.82		63.2	65.7	68.0	70.2	72.3	74.3	76.2	78.1	79.8
	5.00	2.73		65.5	68.2	70.8	73.2	75.5	77.7	79.8	81.8	83.8
	6.00	3.80		67.2	70.0	72.7	75.3	77.7	80.1	82.4	84.5	86.6
	7.00	5.03		68.4	71.4	74.2	76.9	79.4	81.9	84.3	86.6	88.8

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			1200	1300	1400	1500	1600	1700	1800	1900	2000	
QST-75 1 Row 3/4 H.P.	2.00	0.32	MBH	39.0	40.3	41.5	42.6	43.7	44.7	45.6	46.5	47.3
	3.00	0.68		43.0	44.6	46.1	47.5	48.8	50.1	51.3	52.4	53.5
	4.00	1.16		45.3	47.1	48.8	50.4	51.9	53.3	54.7	56.0	57.2
	5.00	1.74		46.8	48.7	50.6	52.3	53.9	55.5	57.0	58.4	59.8
	6.00	2.44		47.9	49.9	51.9	53.7	55.4	57.1	58.7	60.2	61.6
QST-75 2 Row 3/4 H.P.	3.00	1.17	MBH	69.5	72.2	74.7	77.0	79.2	81.2	83.1	84.9	86.6
	4.00	1.98		74.2	77.3	80.2	82.9	85.5	87.9	90.3	92.5	94.6
	5.00	2.96		77.3	80.7	83.9	86.9	89.8	92.5	95.1	97.6	99.9
	6.00	4.12		79.4	83.0	86.5	89.7	92.8	95.7	98.6	101.2	103.8
	7.00	5.45		81.0	84.8	88.4	91.9	95.1	98.2	101.2	104.0	106.8

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			1600	1690	1775	1865	1950	2040	2125	2215	2300	
QST-10 1 Row 1 H.P.	2.00	0.32	MBH	43.7	44.6	45.4	46.2	46.9	47.7	48.3	49.0	49.6
	3.00	0.68		48.8	50.0	51.0	52.0	52.9	53.9	54.8	55.6	56.4
	4.00	1.16		51.9	53.2	54.4	55.5	56.6	57.7	58.7	59.8	60.7
	5.00	1.74		53.9	55.3	56.6	57.9	59.1	60.3	61.4	62.5	63.5
	6.00	2.44		55.4	56.9	58.3	59.6	60.9	62.2	63.3	64.5	65.6
QST-10 2 Row 1 H.P.	3.00	1.17	MBH	79.2	81.0	82.6	84.3	85.8	87.3	88.6	90.0	91.2
	4.00	1.98		85.5	87.7	89.7	91.7	93.5	95.4	97.0	98.7	100.2
	5.00	2.96		89.8	92.2	94.4	96.7	98.7	100.8	102.7	104.6	106.4
	6.00	4.12		92.8	95.5	97.9	100.3	102.5	104.8	106.8	109.0	110.9
	7.00	5.45		95.1	97.9	100.5	103.0	105.4	107.8	110.0	112.3	114.3

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