

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 48: Hot Water Heating Coil Performance

Fan Powered Air Terminals

D

	Water Flow (GPM)	Water PD (ft. w.g.)	MBH	AIR FLOW CFM								
				100	130	165	195	225	255	290	320	350
QPT-1-17 1 Row 1/6 H.P.	2.00	0.25	MBH	7.9	9.4	11.0	12.2	13.3	14.3	15.4	16.3	17.1
	3.00	0.53		8.1	9.7	11.4	12.7	13.8	15.0	16.2	17.1	18.0
	4.00	0.91		8.2	9.8	11.6	12.9	14.1	15.3	16.6	17.6	18.5
	5.00	1.37		8.2	9.9	11.7	13.1	14.3	15.5	16.8	17.9	18.9
	6.00	1.93		8.3	10.0	11.8	13.2	14.5	15.7	17.0	18.1	19.1
QPT-1-17 2 Row 1/6 H.P.	2.00	1.56	MBH	11.5	14.2	16.9	19.1	21.1	22.9	25.0	26.6	28.1
	3.00	3.30		11.7	14.4	17.3	19.6	21.8	23.8	26.0	27.8	29.5
	4.00	5.63		11.8	14.6	17.6	19.9	22.1	24.2	26.6	28.4	30.2
	5.00	8.52		11.8	14.7	17.7	20.1	22.4	24.5	26.9	28.8	30.7
	6.00	11.96		11.9	14.7	17.8	20.2	22.5	24.7	27.1	29.1	31.0

	Water Flow (GPM)	Water PD (ft. w.g.)	MBH	AIR FLOW CFM								
				300	345	390	430	475	520	565	605	650
QPT-1-25 1 Row 1/4 H.P.	2.00	0.25	MBH	15.7	17.0	18.1	19.1	20.0	21.0	21.8	22.5	23.3
	3.00	0.53		16.5	17.9	19.2	20.2	21.3	22.4	23.4	24.2	25.1
	4.00	0.91		16.9	18.4	19.7	20.9	22.1	23.2	24.3	25.2	26.1
	5.00	1.37		17.2	18.7	20.1	21.3	22.5	23.7	24.8	25.8	26.8
	6.00	1.93		17.4	18.9	20.4	21.6	22.9	24.1	25.3	26.2	27.3
QPT-1-25 2 Row 1/4 H.P.	3.00	3.30	MBH	26.6	29.2	31.6	33.6	35.7	37.7	39.6	41.1	42.8
	4.00	5.63		27.2	29.9	32.5	34.6	36.9	39.0	41.0	42.7	44.6
	5.00	8.52		27.5	30.4	33.0	35.2	37.6	39.8	41.9	43.7	45.7
	6.00	11.96		27.8	30.7	33.4	35.6	38.1	40.4	42.6	44.5	46.5
	7.00	15.94		28.0	30.9	33.7	36.0	38.4	40.8	43.1	45.0	47.0

	Water Flow (GPM)	Water PD (ft. w.g.)	MBH	AIR FLOW CFM								
				200	240	275	315	350	390	425	465	500
QPT-2-17 1 Row 1/6 H.P.	2.00	0.30	MBH	14.1	15.8	17.1	18.6	19.7	21.0	22.0	23.1	24.0
	3.00	0.64		14.5	16.4	17.8	19.4	20.7	22.1	23.2	24.5	25.5
	4.00	1.08		14.8	16.7	18.2	19.9	21.2	22.7	23.9	25.2	26.3
	5.00	1.63		14.9	16.9	18.5	20.2	21.6	23.1	24.3	25.7	26.9
	6.00	2.28		15.0	17.0	18.7	20.4	21.8	23.4	24.7	26.1	27.2
QPT-2-17 2 Row 1/6 H.P.	2.00	1.08	MBH	28.9	24.7	27.2	29.9	32.2	34.6	36.6	38.7	40.5
	3.00	1.82		21.8	25.1	27.8	30.6	33.0	35.6	37.7	40.0	42.0
	4.00	2.73		30.0	25.4	28.1	31.1	33.5	36.2	38.4	40.8	42.9
	5.00	3.80		22.2	25.6	28.4	31.4	33.9	36.6	38.9	41.4	43.5
	6.00	5.03		30.5	25.7	28.5	31.6	34.1	36.9	39.2	41.8	43.9

	Water Flow (GPM)	Water PD (ft. w.g.)	MBH	AIR FLOW CFM								
				400	475	550	625	700	775	850	925	1000
QPT-2-25 1 Row 1/4 H.P.	2.00	0.30	MBH	21.3	23.4	25.2	26.9	28.4	29.8	31.1	32.3	33.4
	3.00	0.64		22.4	24.8	26.9	28.8	30.6	32.2	33.7	35.1	36.5
	4.00	1.08		23.1	25.5	27.8	29.9	31.8	33.6	35.2	36.8	38.3
	5.00	1.63		23.5	26.0	28.4	30.6	32.6	34.5	36.2	37.9	39.5
	6.00	2.28		23.7	26.4	28.8	31.1	33.2	35.1	37.0	38.7	40.3
QPT-2-25 2 Row 1/4 H.P.	3.00	1.08	MBH	35.2	39.3	43.0	46.3	49.4	52.3	54.9	57.4	59.7
	4.00	1.82		36.2	40.6	44.6	48.3	51.7	54.9	57.8	60.6	63.2
	5.00	2.73		36.8	41.4	45.6	49.5	53.2	56.6	59.7	62.7	65.5
	6.00	3.80		37.3	42.0	46.4	50.4	54.2	57.7	61.1	64.2	67.2
	7.00	5.03		37.6	42.4	46.9	51.0	54.9	58.6	62.0	65.3	68.4

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

Table 49: Hot Water Heating Coil Performance

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			600	700	800	900	1000	1100	1200	1300	1400	
QPT-2-50 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
QPT-2-50 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	900	1000	1100	1200	1300	1400	1500	1600	
QPT-3-50 1 Row 1/2 H.P.	2.00	0.32	MBH	32.6	34.4	36.1	37.6	39.0	40.3	41.5	42.6	43.7
	3.00	0.68		35.2	37.4	39.4	41.3	43.0	44.6	46.1	47.5	48.8
	4.00	1.16		36.7	39.1	41.3	43.4	45.3	47.1	48.8	50.4	51.9
	5.00	1.74		37.7	40.2	42.6	44.8	46.8	48.7	50.6	52.3	53.9
	6.00	2.44		38.4	41.0	43.5	45.8	47.9	49.9	51.9	53.7	55.4
QPT-3-50 2 Row 1/2 H.P.	3.00	1.17	MBH	56.5	60.2	63.6	66.7	69.5	72.2	74.7	77.0	79.2
	4.00	1.98		59.3	63.5	67.3	70.9	74.2	77.3	80.2	82.9	85.5
	5.00	2.96		61.1	65.6	69.7	73.6	77.3	80.7	83.9	86.9	89.8
	6.00	4.12		62.4	67.1	71.5	75.6	79.4	83.0	86.5	89.7	92.8
	7.00	5.45		63.3	68.2	72.7	77.0	81.0	84.8	88.4	91.9	95.1

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			1000	1125	1250	1375	1500	1625	1750	1875	2000	
QPT-3-75 1 Row 3/4 H.P.	2.00	0.32	MBH	36.1	38.0	39.7	41.2	42.6	44.0	45.2	46.3	47.3
	3.00	0.68		39.4	41.7	43.8	45.7	47.5	49.2	50.7	52.1	53.5
	4.00	1.16		41.3	43.9	46.2	48.4	50.4	52.2	54.0	55.7	57.2
	5.00	1.74		42.6	45.3	47.8	50.1	52.3	54.3	56.2	58.1	59.8
	6.00	2.44		43.5	46.3	48.9	51.4	53.7	55.8	57.9	59.8	61.6
QPT-3-75 2 Row 3/4 H.P.	3.00	1.17	MBH	63.6	67.4	70.9	74.1	77.0	79.7	82.2	84.5	86.6
	4.00	1.98		67.3	71.7	75.8	79.5	82.9	86.1	89.1	91.9	94.6
	5.00	2.96		69.7	74.6	79.0	83.1	86.9	90.5	93.8	96.9	99.9
	6.00	4.12		71.5	76.5	81.3	85.6	89.7	93.6	97.2	100.6	103.8
	7.00	5.45		72.7	78.0	83.0	87.6	91.9	95.9	99.7	103.3	106.8

	Water Flow (GPM)	Water PD (ft. w.g.)	AIR FLOW CFM									
			1200	1325	1450	1575	1700	1825	1950	2075	2200	
QPT-3-10 1 Row 1 H.P.	2.00	0.32	MBH	39.0	40.6	42.1	43.4	44.7	45.9	46.9	47.9	48.9
	3.00	0.68		43.0	45.0	46.8	48.5	50.1	51.6	52.9	54.3	55.5
	4.00	1.16		45.3	47.5	49.6	51.5	53.3	55.0	56.6	58.1	59.6
	5.00	1.74		46.8	49.2	51.4	53.5	55.5	57.4	59.1	60.8	62.3
	6.00	2.44		47.9	50.4	52.8	55.0	57.1	59.0	60.9	62.7	64.3
QPT-3-10 2 Row 1 H.P.	3.00	1.17	MBH	69.5	72.8	75.9	78.6	81.2	83.6	85.8	87.9	89.8
	4.00	1.98		74.2	78.0	81.6	84.9	87.9	90.8	93.5	96.1	98.4
	5.00	2.96		77.3	81.5	85.4	89.1	92.5	95.7	98.7	101.6	104.3
	6.00	4.12		79.4	83.9	88.1	92.1	95.7	99.2	102.5	105.6	108.6
	7.00	5.45		81.0	85.8	90.2	94.3	98.2	101.9	105.4	108.7	111.9

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