



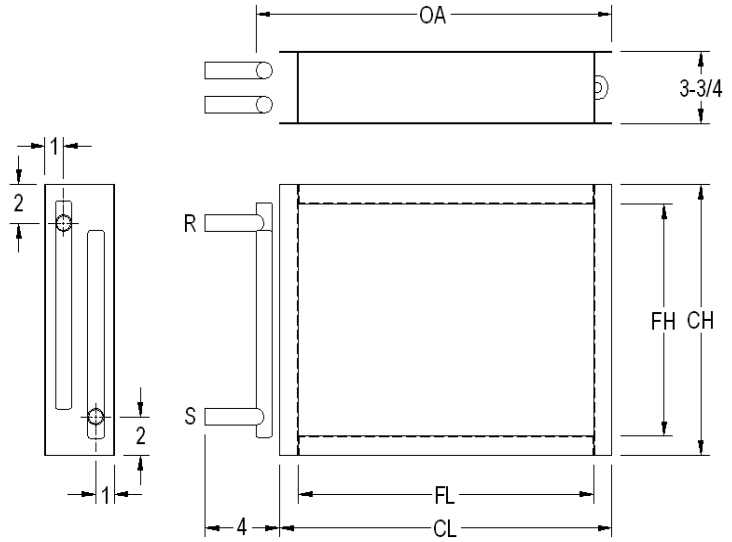
AQH Series
High Performance Duct Water Coils
Performance Data

Vol. 1

06-08-09

The **AQH Series** water coils are designed to provide High Performance output over a broad range of operating conditions. Within the ranges of applications for Primary Heat, Booster Heat, and Chilled Water Cooling, the AQH Series is available to meet most Residential needs and many Commercial applications.

Model	FH	FL	CH	CL	OA	S/R Norm.
AQH-2-1216	12"	16"	14"	18"	19-1/4"	3/4
AQH-2-1620	16"	20"	18"	22"	23-1/4"	3/4
AQH-2-2020	20"	20"	22"	22"	23-1/2"	1
AQH-2-2026	20"	26"	22"	28"	29-1/2"	1
AQH-2-2032	20"	32"	22"	34"	35-1/2"	1
AQH-2-2424	24"	24"	26"	26"	27-1/2"	1
AQH-3-1620	16"	20"	18"	22"	23-1/4"	3/4
AQH-3-2020	20"	20"	22"	22"	23-1/2"	1
AQH-3-2026	20"	26"	22"	28"	29-1/2"	1
AQH-3-2032	20"	32"	22"	34"	35-1/2"	1
AQH-3-2424	24"	24"	26"	26"	27-1/2"	1



Hot Water Heating - Design and Performance Ranges							
Coil	MBH	Air Side			Water Side		
		CFM	FPM	PD ("wg)	GPM	FPS	PD (ft H2O)
AQH-2-1216	23.8 - 61.5	300 - 1200	225 - 900	0.05 - 0.55	2 - 8	1.04 - 4.14	0.4 - 5.5
AQH-2-1620	39.8 - 101.3	500 - 2000	225 - 900	0.05 - 0.55	3 - 11	1.16 - 4.27	0.6 - 7.6
AQH-2-2020	46.3 - 127.0	600 - 2500	216 - 900	0.05 - 0.55	3 - 14	0.93 - 4.35	0.3 - 6.3
AQH-2-2026	58.5 - 162.3	800 - 3300	222 - 914	0.05 - 0.55	3 - 14	0.93 - 4.35	0.4 - 6.8
AQH-2-2032	66.1 - 193.8	900 - 4000	202 - 900	0.05 - 0.55	3 - 14	0.93 - 4.35	0.4 - 7.3
AQH-2-2424	68.1 - 180.5	900 - 3600	225 - 900	0.05 - 0.55	4 - 17	1.04 - 4.40	0.5 - 7.6
AQH-3-1620	50.1 - 123.9	500 - 1600	225 - 720	0.08 - 0.55	4 - 17	1.04 - 4.40	0.7 - 10.7
AQH-3-2020	61.0 - 154.7	600 - 2000	216 - 720	0.07 - 0.55	5 - 21	1.04 - 4.35	0.5 - 8.4
AQH-3-2026	78.8 - 192.2	800 - 2600	222 - 720	0.08 - 0.55	5 - 21	1.04 - 4.35	0.6 - 8.9
AQH-3-2032	89.4 - 240.2	900 - 3200	202 - 720	0.07 - 0.55	5 - 21	1.04 - 4.35	0.6 - 9.4
AQH-3-2424	83.3 - 221.2	800 - 2900	200 - 725	0.07 - 0.55	6 - 25	1.04 - 4.31	0.7 - 10.3

Chilled Water Cooling - Design and Performance Ranges							
Coil	MBH	Air Side			Water Side		
		CFM	FPM	PD ("wg)	GPM	FPS	PD (ft H2O)
AQH-3-1620	12.6 - 31.5	500 - 1200	225 - 540	0.09 - 0.40	4 - 17	1.04 - 4.40	0.7 - 10.7
AQH-3-2020	15.5 - 40.3	600 - 1600	216 - 576	0.08 - 0.40	5 - 21	1.04 - 4.35	0.5 - 8.4
AQH-3-2026	19.3 - 50.7	800 - 2000	222 - 554	0.08 - 0.40	5 - 21	1.04 - 4.35	0.6 - 8.9
AQH-3-2032	22.0 - 60.6	900 - 2400	202 - 540	0.07 - 0.40	5 - 21	1.04 - 4.35	0.6 - 9.4
AQH-3-2424	20.9 - 56.2	800 - 2200	200 - 550	0.07 - 0.40	6 - 25	1.04 - 4.31	0.7 - 10.3



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AQH-2-1216 5 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
300	0.05	27.1	168.9	133.9
400	0.09	32.5	166.7	126.2
500	0.12	37.0	164.8	120.2
600	0.17	40.9	163.2	115.3
700	0.22	44.2	161.8	111.2
800	0.27	47.2	160.6	107.8
900	0.33	49.8	159.5	104.8
1000	0.40	52.2	158.5	102.2
1100	0.47	54.3	157.7	99.9
1200	0.55	56.3	156.9	97.8

AQH-2-1620 7 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
500	0.05	45.0	166.8	133.3
600	0.07	50.5	165.2	128.5
700	0.09	55.4	163.7	124.3
800	0.12	59.8	162.4	120.7
900	0.14	63.9	161.3	117.5
1000	0.17	67.6	160.2	114.7
1100	0.20	70.9	159.2	112.1
1200	0.23	74.0	158.3	109.9
1300	0.26	76.9	157.4	107.8
1400	0.30	79.6	156.6	105.9
1500	0.33	82.1	155.9	104.1
1600	0.37	84.5	155.2	102.5
1700	0.41	86.7	154.5	101.1
1800	0.46	88.8	153.9	99.7
1900	0.50	90.7	153.3	98.4
2000	0.55	92.6	152.8	97.2

AQH-2-2020 8 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
600	0.05	54.2	166.1	133.6
700	0.06	59.8	164.6	129.5
800	0.08	64.9	163.3	125.9
900	0.10	69.7	162.1	122.7
1000	0.12	73.9	161.0	119.8
1100	0.14	77.8	160.0	117.2
1200	0.16	81.5	159.1	114.9
1300	0.18	84.9	158.2	112.7
1400	0.20	88.0	157.4	110.8
1500	0.23	91.0	156.6	108.9
1600	0.25	93.8	155.9	107.3
1700	0.28	96.5	155.2	105.7
1800	0.31	99.0	154.6	104.3
1900	0.34	101.3	154.0	102.9
2000	0.37	103.6	153.4	101.6
2100	0.40	105.7	152.8	100.4
2200	0.44	107.7	152.3	99.3
2300	0.47	109.7	151.8	98.3
2400	0.51	111.5	151.3	97.3
2500	0.55	113.3	150.9	96.3

Performance data based upon
60°F entering air temperature,
180°F entering water temperature
and gallons per minute at each
coils mid-way design range.

See Page 4
For correction factors
for other GPM and EAT.
And water pressure drops
in feet H₂O

AQH-2-2032 8 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
900	0.05	80.7	159.3	133.0
1000	0.05	86.3	157.8	130.1
1100	0.06	91.4	156.5	127.5
1200	0.07	96.3	155.3	125.1
1300	0.08	100.8	154.1	122.9
1400	0.09	105.1	153.0	120.8
1500	0.10	109.1	152.0	118.9
1600	0.12	112.9	151.0	117.1
1700	0.13	116.5	150.1	115.4
1800	0.14	119.9	149.2	113.8
1900	0.15	123.1	148.3	112.3
2000	0.17	126.2	147.5	110.9
2100	0.18	129.1	146.8	109.6
2200	0.20	131.9	146.1	108.4
2300	0.21	134.6	145.4	107.2
2400	0.23	137.2	144.7	106.1
2500	0.24	139.6	144.1	105.0
2600	0.26	142.0	143.5	104.0
2700	0.28	144.3	142.9	103.0
2800	0.30	146.5	142.3	102.1
2900	0.31	148.6	141.8	101.2
3000	0.33	150.6	141.3	100.4
3100	0.35	152.5	140.7	99.6
3200	0.37	154.4	140.3	98.8
3300	0.39	156.2	139.8	98.0
3400	0.41	158.0	139.3	97.3
3500	0.43	159.7	138.9	96.6
3600	0.45	161.4	138.5	96.0
3700	0.48	163.0	138.0	95.4
3800	0.50	164.6	137.6	94.8
3900	0.52	166.1	137.2	94.2
4000	0.55	167.6	136.9	93.6

AQH-2-2026 8 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
800	0.05	70.5	161.9	131.7
900	0.06	75.9	160.5	128.5
1000	0.08	80.9	159.2	125.7
1100	0.09	85.5	158.0	123.0
1200	0.10	89.8	156.9	120.6
1300	0.12	93.8	155.9	118.4
1400	0.13	97.6	154.9	116.4
1500	0.15	101.2	154.0	114.5
1600	0.16	104.5	153.1	112.8
1700	0.18	107.7	152.3	111.1
1800	0.20	110.7	151.6	109.6
1900	0.22	113.5	150.8	108.2
2000	0.24	116.2	150.1	106.8
2100	0.26	118.8	149.5	105.6
2200	0.28	121.2	148.8	104.4
2300	0.30	123.5	148.2	103.2
2400	0.32	125.9	147.7	102.2
2500	0.35	127.9	147.1	101.1
2600	0.37	130.0	146.6	100.2
2700	0.40	132.0	146.1	99.3
2800	0.42	133.8	145.6	98.4
2900	0.45	135.7	145.1	97.6
3000	0.48	137.4	144.7	96.8
3100	0.50	139.1	144.2	96.0
3200	0.53	140.7	143.8	95.3
3300	0.55	142.3	143.4	94.6

AQH-2-2424 10 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
900	0.05	79.7	163.6	132.0
1000	0.06	85.2	162.5	129.2
1100	0.07	90.3	161.4	126.6
1200	0.09	95.1	160.5	124.2
1300	0.10	99.6	159.5	122.0
1400	0.11	103.8	158.7	120.0
1500	0.12	107.8	157.8	118.1
1600	0.14	111.6	157.1	116.4
1700	0.15	115.2	156.3	114.7
1800	0.17	118.6	155.6	113.2
1900	0.18	121.7	154.9	111.7
2000	0.20	125.0	154.3	110.4
2100	0.21	128.0	153.7	109.1
2200	0.23	130.8	153.1	107.9
2300	0.25	133.5	152.6	106.7
2400	0.27	136.0	152.0	105.6
2500	0.29	138.5	151.5	104.6
2600	0.31	140.9	151.0	103.6
2700	0.33	143.2	150.5	102.6
2800	0.35	145.4	150.1	101.7
2900	0.37	147.6	149.6	100.9
3000	0.40	149.6	149.2	100.0
3100	0.42	151.6	148.8	99.3
3200	0.44	153.6	148.4	98.5
3300	0.47	155.4	148.0	97.8
3400	0.50	157.2	147.7	97.1
3500	0.52	159.0	147.3	96.4
3600	0.55	160.7	146.9	95.8



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AQH-3-1620 10 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
500	0.08	55.0	168.7	141.4
600	0.11	62.9	167.1	137.3
700	0.14	70.1	165.6	133.6
800	0.17	76.7	164.2	130.2
900	0.21	82.8	163.0	127.1
1000	0.25	88.4	161.8	124.3
1100	0.29	93.6	160.8	121.8
1200	0.34	98.5	159.8	119.4
1300	0.39	103.0	158.8	117.2
1400	0.44	107.2	158.0	115.2
1500	0.49	111.2	157.1	113.3
1600	0.55	114.9	156.4	111.6

AQH-3-2020 13 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
600	0.07	66.8	169.5	142.4
700	0.10	75.0	168.2	139.1
800	0.12	82.6	167.0	136.0
900	0.14	89.7	165.8	133.1
1000	0.17	96.3	164.8	130.5
1100	0.20	102.5	163.8	128.0
1200	0.23	108.3	162.9	125.7
1300	0.26	113.7	162.0	123.6
1400	0.30	118.9	161.2	121.6
1500	0.34	123.8	160.4	119.7
1600	0.38	128.4	159.7	118.0
1700	0.42	132.8	159.0	116.3
1800	0.46	136.9	158.4	114.8
1900	0.50	140.9	157.7	113.3
2000	0.55	144.7	157.1	111.9

AQH-3-2026 13 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
800	0.08	87.9	166.1	141.2
900	0.09	95.9	164.9	138.5
1000	0.11	103.4	163.7	136.0
1100	0.13	110.5	162.5	133.7
1200	0.15	117.2	161.5	131.5
1300	0.17	123.5	160.5	129.5
1400	0.19	129.6	159.5	127.5
1500	0.22	135.3	158.6	125.7
1600	0.24	140.7	157.8	123.9
1700	0.27	145.9	156.9	122.3
1800	0.29	150.8	156.2	120.7
1900	0.32	155.5	155.4	119.2
2000	0.35	160.1	154.7	117.8
2100	0.38	164.4	154.0	116.5
2200	0.41	168.5	153.3	115.2
2300	0.45	172.5	152.7	114.0
2400	0.48	176.3	152.1	112.8
2500	0.51	180.0	151.5	111.7
2600	0.55	183.5	151.0	110.6

AQH-3-2032 13 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
900	0.07	100.3	164.2	142.4
1000	0.08	108.5	162.8	140.1
1100	0.09	116.3	161.6	137.9
1200	0.11	123.7	160.4	135.8
1300	0.12	130.8	159.3	133.8
1400	0.14	137.5	158.3	131.9
1500	0.15	143.9	157.3	130.1
1600	0.17	150.0	156.3	128.4
1700	0.19	155.8	155.4	126.8
1800	0.21	161.4	154.5	125.3
1900	0.23	166.8	153.6	123.8
2000	0.25	171.9	152.8	122.4
2100	0.27	176.8	152.0	121.0
2200	0.29	181.5	151.3	119.7
2300	0.31	186.0	150.6	118.5
2400	0.34	190.4	149.9	117.3
2500	0.36	194.6	149.2	116.2
2600	0.39	198.6	148.6	115.1
2700	0.41	202.7	147.9	114.0
2800	0.44	206.3	147.3	113.0
2900	0.46	210.0	146.8	112.0
3000	0.49	213.5	146.2	111.1
3100	0.52	216.9	145.7	110.2
3200	0.55	220.2	145.1	109.3

AQH-3-2424 16 GPM - 60 EAT - 180 EWT				
CFM	APD	MBH	LWT	LAT
800	0.07	90.4	168.4	143.6
900	0.08	98.9	167.3	141.2
1000	0.09	107.0	166.3	138.8
1100	0.11	114.6	165.3	136.6
1200	0.13	121.8	164.4	134.5
1300	0.14	128.7	163.5	132.6
1400	0.16	135.3	162.6	130.7
1500	0.18	141.6	161.8	128.9
1600	0.20	147.5	161.1	127.2
1700	0.23	153.3	160.3	125.6
1800	0.25	158.7	159.6	124.1
1900	0.27	164.0	158.9	122.6
2000	0.30	169.0	158.3	121.2
2100	0.32	173.8	157.7	119.9
2200	0.35	178.5	157.1	118.6
2300	0.38	183.0	156.5	117.4
2400	0.40	187.3	155.9	116.2
2500	0.43	191.4	155.4	115.1
2600	0.46	195.4	154.9	114.1
2700	0.49	199.3	154.4	113.0
2800	0.52	203.0	153.9	112.0
2900	0.55	206.7	153.4	111.1



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Correction Factors - Heating							
Entering Water Temp °F	Entering Air Temperature °F						
	50	55	60	65	70	75	80
100	0.3998	0.3587	0.3179	0.2774	0.2372	0.1972	0.1575
110	0.4864	0.4445	0.4029	0.3615	0.3205	0.2798	0.2394
120	0.5735	0.5306	0.4880	0.4458	0.4041	0.3627	0.3216
130	0.6590	0.6154	0.5723	0.5296	0.4873	0.4455	0.4040
140	0.7449	0.7008	0.6571	0.6139	0.5712	0.5288	0.4869
150	0.8312	0.7865	0.7423	0.6987	0.6554	0.6127	0.5704
160	0.9179	0.8727	0.8281	0.7838	0.7401	0.6969	0.6542
170	1.0048	0.9591	0.9138	0.8692	0.8251	0.7815	0.7384
180	1.0920	1.0457	-	0.9549	0.9103	0.8663	0.8228
190	1.1793	1.1325	1.0865	1.0408	0.9957	0.9513	0.9075
200	1.2668	1.2195	1.1729	1.1268	1.0814	1.0366	0.9924

2 Row Coils - Water Pressure Drop Ft of H2O						
GPM	AQH-2-					
	1216	1620	2020	2026	2032	2424
2	0.4	-	-	-	-	-
3	0.9	0.6	0.3	0.4	0.4	-
4	1.5	1.1	0.6	0.6	0.7	0.5
5	2.3	1.7	0.9	1.0	1.1	0.7
6	3.2	2.4	1.3	1.4	1.5	1.1
7	4.3	3.2	1.7	1.8	2.0	1.4
8	5.5	4.1	2.2	2.4	2.6	1.8
9	-	5.1	2.7	2.9	3.2	2.3
10	-	6.3	3.3	3.6	3.9	2.8
11	-	7.6	4.0	4.3	4.6	3.3
12	-	-	4.7	5.1	5.5	3.9
13	-	-	5.5	5.9	6.3	4.5
14	-	-	6.3	6.8	7.3	5.2
15	-	-	-	-	-	6.0
16	-	-	-	-	-	6.7
17	-	-	-	-	-	7.6

3 Row Coils - Water Pressure Drop Ft of H2O					
GPM	AQH-3-				
	1620	2020	2026	2032	2424
4	0.7	-	-	-	-
5	1.1	0.5	0.6	0.6	-
6	1.6	0.8	0.8	0.9	0.7
7	2.2	1.0	1.1	1.2	0.9
8	2.8	1.3	1.4	1.5	1.2
9	3.5	1.6	1.8	1.9	1.4
10	4.3	2.0	2.1	2.3	1.8
11	5.2	2.4	2.6	2.7	2.1
12	6.1	2.9	3.0	3.2	2.5
13	7.1	3.3	3.5	3.8	2.9
14	8.3	3.8	4.1	4.3	3.4
15	9.4	4.4	4.7	4.9	3.8
16	10.7	5.0	5.3	5.6	4.4
17	12.0	5.6	5.9	6.3	4.9
18	-	6.2	6.6	7.0	5.5
19	-	6.9	7.3	7.8	6.1
20	-	7.6	8.1	8.5	6.7
21	-	8.4	8.9	9.4	7.3
22	-	-	-	-	8.0
23	-	-	-	-	8.7
24	-	-	-	-	9.5
25	-	-	-	-	10.3

Call for more detailed performance data on Chilled Water Coil applications