

Advanced Series Heaters

The Ruffneck™ Advanced Series heaters are designed for rugged industrial applications and are available in 37 models from 6,000 to 1,200,000 Btu/hr with a maximum operating pressure and temperature rating of 550 psi and 600°F (315°C) respectively, the Advanced Series

is perfect for steam, circulating hot water, and glycol heating systems or liquid cooling applications that include: flash stream condensers, lube oil coolers, and pump seal coolers, etc.

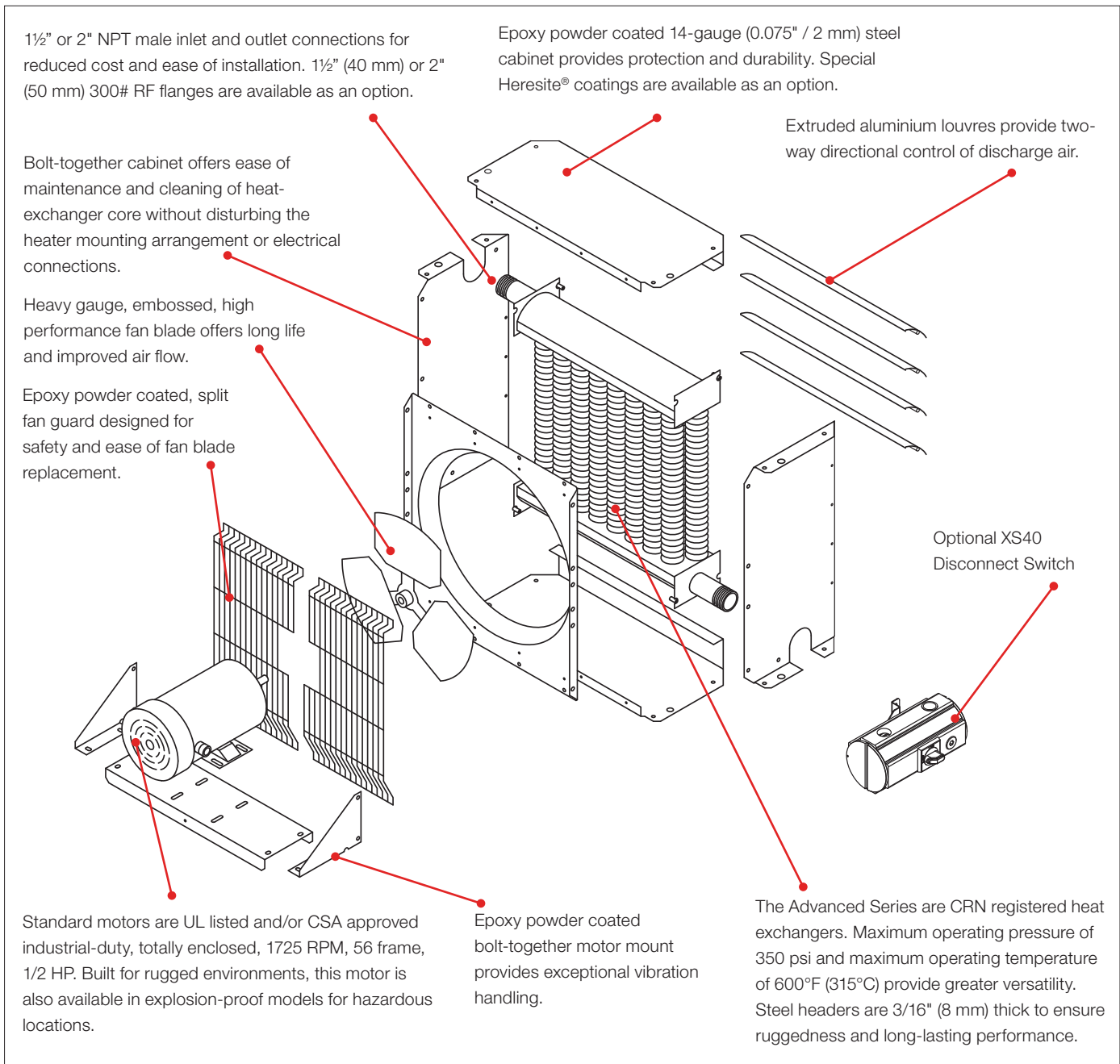


Figure 41

AH Series - Advanced Horizontal Model



The Advanced Horizontal unit heater exchanger can be customised for your application. The heat exchanger is comprised of extruded finned tubing in 10, 9 and 5 fins per inch for varying steam conditions and/or where atmospheric particulate may cause premature fouling of the heater core. Additionally, the AH can handle more pressure than the HP and FR.

Available with Disconnect Switch (not shown).

AH - Advanced Horizontal Tandem Model (below)



The 24" (610 mm) Tandem Advanced Horizontal Series is the largest unit in our line-up. Rather than expanding the cabinet and heat exchanger in both height and width, we just doubled the width to produce this unique model. This side-by-side arrangement also produces the lowest mounting profile in its class for a heater of equivalent output.

The dual fan arrangement allows for two smaller fans that can be operated at the standard 1725 RPM. Furthermore, dual fans provide for output modulation if separate motor thermostats are used. Separate motor thermostats produce better control of heating during periods of low demand by reducing the output of the heater.

Available with Disconnect Switch (shown).

AV Series - Advanced Vertical Model



Ruffneck's Advanced Series unit heaters are designed for rugged industrial applications meeting the most demanding service and long life requirements.

While perfect for steam, circulating hot water or glycol heating systems, the Ruffneck™ Vertical Throw heaters are also suitable for a wide range of other heating fluids. In addition, they can be used for both space heating and liquid cooling applications.

Extruded Finned Tubing Types



Figure 42 – 5/8" (16 mm) Tension-Wound Finned Tubing 10 Fins per Inch

Recommended for glycol or water applications, we offer our standard 5/8" (16 mm) outside diameter (16-gauge, 0.065" / 1.65 mm wall thickness) carbon steel tubes with tension wound aluminum fins (10 per inch). In most cases, the 5/8" (16 mm) tubing will be the most economical choice on a cost per Btu basis.

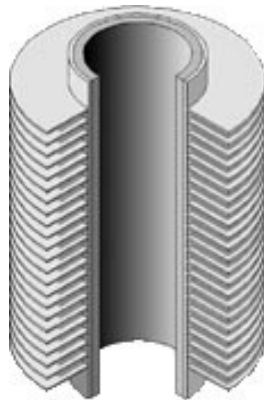


Figure 43 – 1" (25 mm) Extruded Finned Tubing 9 Fins per Inch

Select this configuration of extruded finned tubing for more demanding applications. It utilizes 1" (25 mm) outside diameter (14-gauge, 0.083" / 2 mm wall thickness) carbon steel tubes with extruded aluminum fins (9 per inch)..



Figure 44 – 1" (25 mm) Extruded Finned Tubing 5 Fins per Inch

For the harshest steam applications and/or where atmospheric particulate may cause premature fouling of the heater core, use the 1" (25 mm) outside diameter (10 gauge, 0.135" / 3.4 mm wall thickness) carbon steel tubes with extruded aluminum fins (5 per inch).

Table 48 – AH Series - Model Specifications

Base Model	Air Delivery*	Air Throw @15 psi Stream	Motor† Requirements	Tube Passes	Max. Allowable Pressure for Steam Units	Net Weight†Δ	Shipping Weight†Δ	Air Velocity	Max. Mounting Height	
	CFM				ft (m)					HP
AH-12A-A_	1150	28 (8.5)	1/2	1 or 3	150	102 (46.3)	146 (66.2)	1441	12 (3.66)	
AH-12A-B_	1160			1 or 3	200	107 (48.5)	151 (68.5)	1454	12 (3.66)	
AH-12A-C1	1030			1	300	118 (53.5)	164 (74.4)	1291	12 (3.66)	
AH-16A-A_	1840	40 (12.2)		1, 3 or 5	135	127 (57.6)	174 (80.0)	1301	16 (4.88)	
AH-16A-B_	1780			1, 3 or 5	150	138 (62.6)	177 (80.3)	1259	16 (4.88)	
AH-16A-C1	1840			1	395	153 (69.4)	199 (90.3)	1301	16 (4.88)	
AH-20A-A_	2930			1, 3 or 5	180	155 (70.3)	209 (94.8)	1499	18 (5.49)	
AH-20A-B_	2700			1, 3 or 5	140	170 (77.1)	209 (94.8)	1382	18 (5.49)	
AH-20A-C1	3000			1	450	195 (88.5)	242 (109.8)	1535	18 (5.49)	
AH-24A-A_	3890	65 (19.8)		2 x 1/2	1, 3, 5 or 7	165	189 (85.7)	247 (112.0)	1288	20 (6.10)
AH-24A-B_	3640				1, 3, 5 or 7	190	212 (96.1)	251 (113.9)	1205	20 (6.10)
AH-24A-C1	3490				1	335	258 (117.0)	293 (132.9)	1115	20 (6.10)
AH-24B-A_	7650		1, 3, 5 or 7		235	313 (142.0)	361 (163.7)	—	20 (6.10)	
AH-24B-B_	7420		1, 3, 5 or 7		295	376 (170.6)	424 (192.3)	—	20 (6.10)	
AH-24B-C1	6690		1		450	440 (200.0)	488 (221.4)	—	20 (6.10)	

See Model Coding, page 89.

* at 70°F (21°C) at sea level.

† Thermon Heating Systems, Inc. reserves the right to substitute motors of higher horsepower.

‡ Add 12 lbs to flanged units.

Δ Add 15 lbs (6.8 kg) to Disconnect units

° Pressure restrictions for CSA Certified heaters only

Table 49 – AV Series - Model Specifications

Base Model	Air Delivery*	Air Throw @15 psi Stream	Motor† Requirements	Tube Passes	Net Weight†	Shipping Weight†	Air Velocity	Max. Mounting Height	
	CFM				ft (m)				HP
AV-12A-A_	1150	28 (8.5)	1/2	1 or 3	102 (46.3)	146 (66.2)	1441	12 (3.66)	
AV-12A-B_	1160			1 or 3	107 (48.5)	151 (68.5)	1454	12 (3.66)	
AV-12A-C1	1030			1	118 (52.5)	164 (74.4)	1291	12 (3.66)	
AV-16A-A_	1840	40 (12.2)		1, 3 or 5	127 (57.6)	174 (78.9)	1301	16 (4.88)	
AV-16A-B_	1780			1, 3 or 5	138 (62.6)	177 (80.3)	1259	16 (4.88)	
AV-16A-C1	1840			1	153 (69.4)	199 (90.3)	1301	16 (4.88)	
AV-20A-A_	2930			1, 3 or 5	155 (70.3)	209 (94.8)	1499	18 (5.49)	
AV-20A-B_	2700			1, 3 or 5	170 (77.1)	209 (94.8)	1382	18 (5.49)	
AV-20A-C1	3000			1	195 (88.5)	242 (109.8)	1535	18 (5.49)	
AV-24A-A_	3890	65 (19.8)		2 x 1/2	1, 3, 5 or 7	189 (85.7)	247 (112.0)	1288	20 (6.10)
AV-24A-B_	3640				1, 3, 5 or 7	212 (96.2)	251 (113.9)	1205	20 (6.10)
AV-24A-C1	3490				1	258 (117.0)	293 (132.9)	1115	20 (6.10)

See Model Coding, page 89.

* at 70°F (21°C) at sea level.

† Thermon Heating Systems, Inc. reserves the right to substitute motors of higher horsepower.

‡ Add 12 lbs to flanged units.

AH Physical Dimensions

Table 50 – Advanced Horizontal

Dim.	AH-12A	AH-16A	AH-20A	AH-24A
	in (mm)	in (mm)	in (mm)	in (mm)
A	15 ³ / ₁₆ (401)	19 ¹³ / ₁₆ (503)	23 ¹³ / ₁₆ (605)	27 ⁷ / ₈ (707)
B	19 ⁷ / ₁₆ (494)	23 ¹ / ₂ (596)	27 ¹ / ₂ (698)	31 ¹ / ₂ (800)
C	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)
D	7 ¹⁵ / ₁₆ (201)	7 ⁹ / ₁₆ (192)	7 ³ / ₁₆ (183)	6 ⁷ / ₈ (174)
E	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)
F	18 ³ / ₁₆ (462)	22 ³ / ₁₆ (564)	26 ³ / ₁₆ (665)	30 ³ / ₁₆ (766)
G	9 ⁹ / ₁₆ (14.3)	9 ⁹ / ₁₆ (14.3)	9 ⁹ / ₁₆ (14.3)	9 ⁹ / ₁₆ (14.3)
H	23 ⁷ / ₈ (606.5)	27 ⁷ / ₈ (708.5)	31 ⁷ / ₈ (809.5)	35 ⁷ / ₈ (911.5)
I	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)
J	5 ⁵ / ₈ (16)	5 ⁵ / ₈ (16)	5 ⁵ / ₈ (16)	5 ⁵ / ₈ (16)
K	27 ¹ / ₂ (698.5)	31 ⁵ / ₈ (802.5)	35 ¹ / ₂ (903)	39 ⁵ / ₈ (1005)

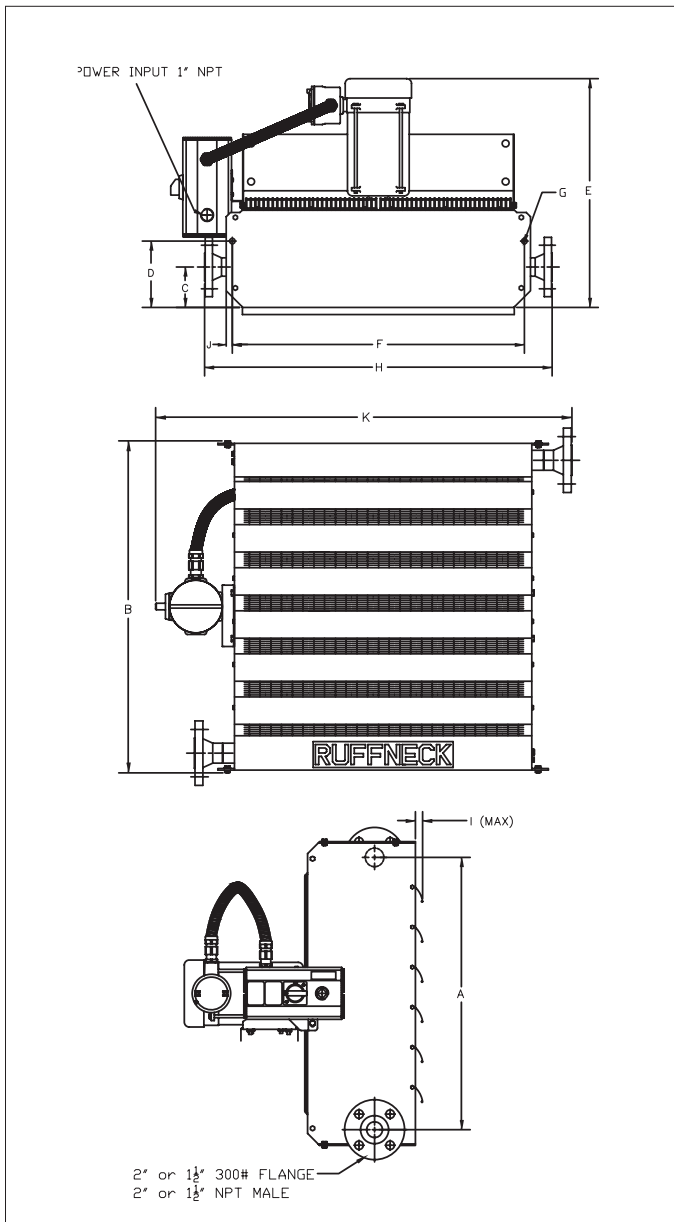


Figure 45 – Advanced Horizontal Heater

Table 51 – Advanced Horizontal Tandem

Dim.	AH-24B TANDEM	Dim.	AH-24B TANDEM
	in (mm)		in (mm)
A	52 ¹⁵ / ₁₆ (1345)	G	9 ⁹ / ₁₆ (14.3)
B	31 ¹ / ₂ (800)	H	36 ⁷ / ₈ (937)
C	4 ³ / ₁₆ (122)	I	2 ⁷ / ₁₆ (53)
D	7 ⁷ / ₁₆ (189)	J	5 ⁵ / ₈ (16)
E	24 ³ / ₁₆ (615)	K	59 ¹ / ₂ (1512)
F	58 ¹ / ₄ (1480)	L	65 ¹ / ₂ (1662.5)

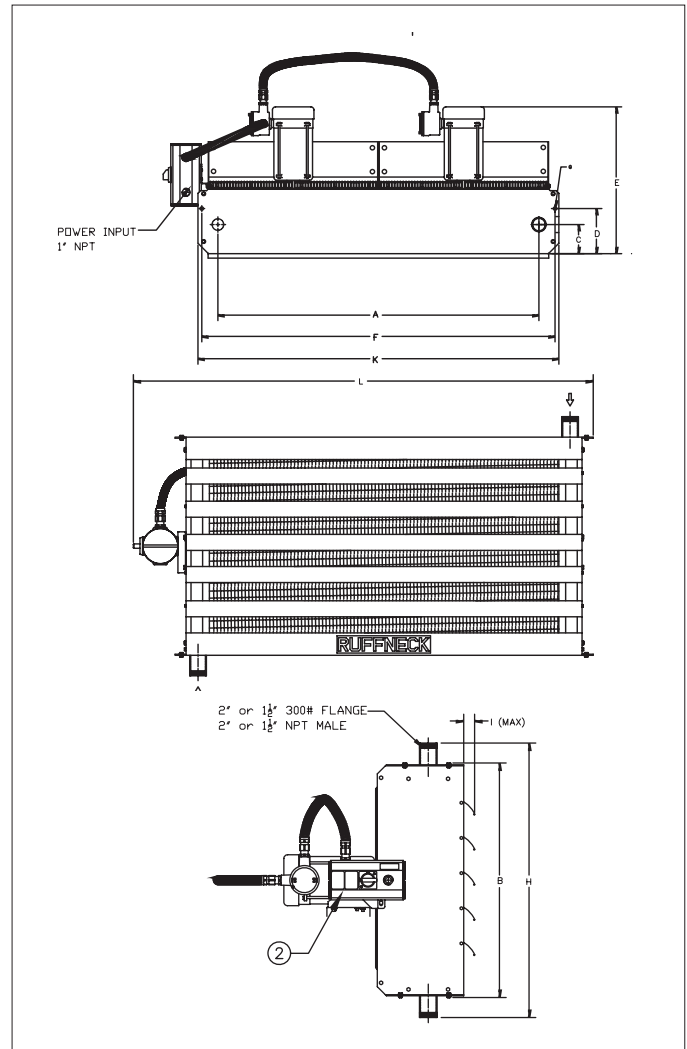


Figure 46 – Advanced Horizontal Tandem Heater

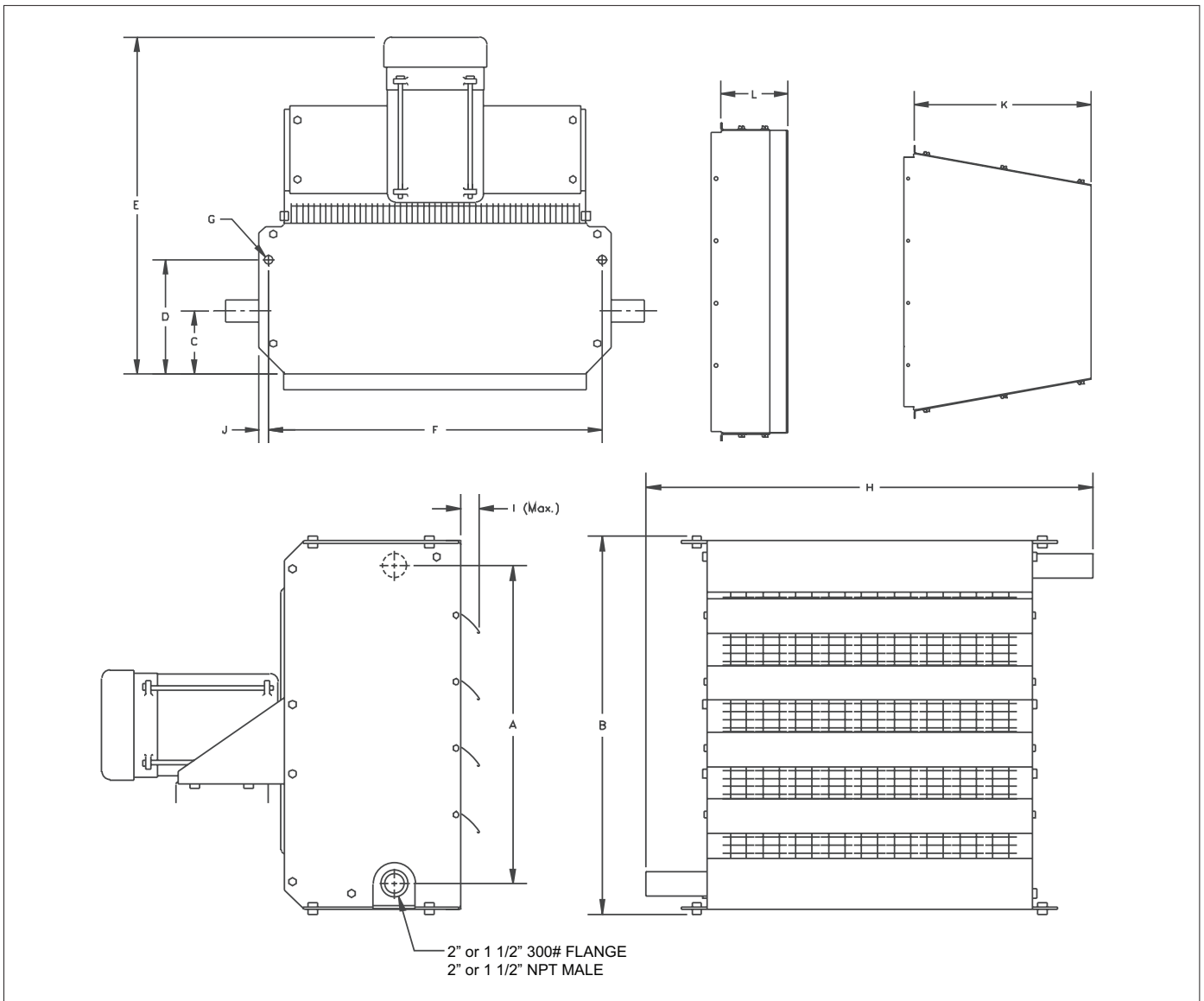
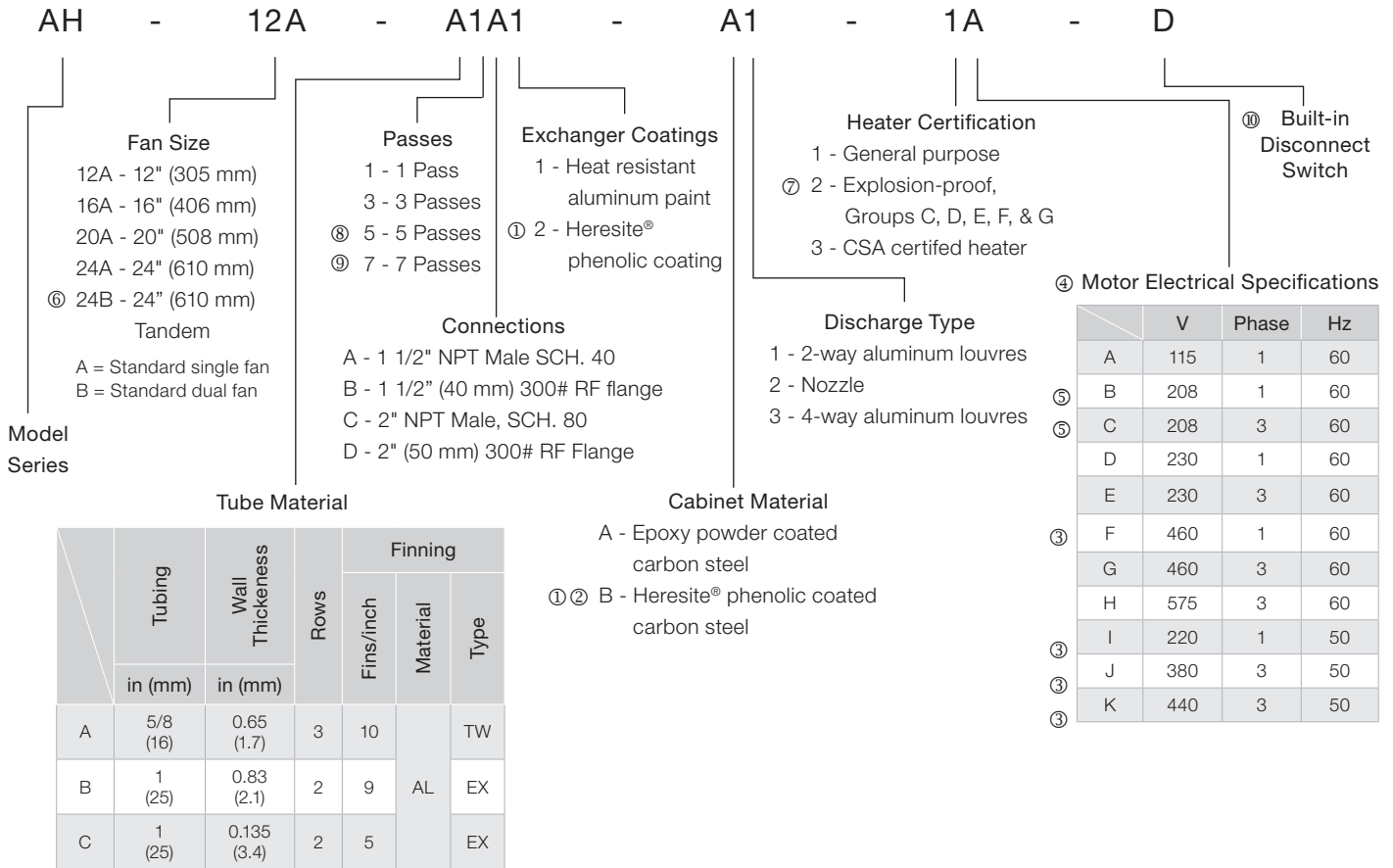


Figure 47 – Advanced Vertical Heater

Table 52 – Advanced Vertical

Dim.	AV-12A	AV-16A	AV-20A	AV-24A
	in (mm)	in (mm)	in (mm)	in (mm)
A	15 ¹³ / ₁₆ (401)	19 ¹³ / ₁₆ (503)	23 ¹³ / ₁₆ (605)	27 ⁷ / ₈ (707)
B	19 ⁷ / ₁₆ (494)	23 ¹ / ₂ (596)	27 ¹ / ₂ (698)	31 ¹ / ₂ (800)
C	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)	4 ³ / ₁₆ (107)
D	7 ¹⁵ / ₁₆ (201)	7 ⁹ / ₁₆ (192)	7 ³ / ₁₆ (183)	6 ⁷ / ₈ (174)
E	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)	23 ⁵ / ₈ (600)
F	18 ³ / ₁₆ (462)	22 ³ / ₁₆ (564)	26 ³ / ₁₆ (665)	30 ³ / ₁₆ (766)
G	⁹ / ₁₆ (14.3)	⁹ / ₁₆ (14.3)	⁹ / ₁₆ (14.3)	⁹ / ₁₆ (14.3)
H	23 ⁷ / ₈ (606.5)	27 ⁷ / ₈ (708.5)	31 ⁷ / ₈ (809.5)	35 ⁷ / ₈ (911.5)
I	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)	1 ⁹ / ₁₆ (39)
J	⁵ / ₈ (16)	⁵ / ₈ (16)	⁵ / ₈ (16)	⁵ / ₈ (16)
K	11 ¹³ / ₁₆ (300)	11 ¹³ / ₁₆ (300)	15 ¹¹ / ₁₆ (398)	15 ¹¹ / ₁₆ (398)
L	4 ¹⁵ / ₁₆ (122)	4 ¹⁵ / ₁₆ (122)	4 ¹⁵ / ₁₆ (122)	4 ¹⁵ / ₁₆ (122)

Model Coding



NOTE:

Thermon Heating Systems Inc. units utilize a standard motor. Specifying any other O.E.M. motor may result in longer lead times.

They are approved for use in all provinces and territories in Canada.

- ① Heresite® coated exchangers and cabinets: contact factory for quote.
- ② Louvres and fan blades are also Heresite® coated.
- ③ Contact factory for shipping lead time.
- ④ Motor designed to be used at rated voltage with tolerances of ±15%.
- ⑤ Motor may be marked 230V, but is suitable for 208V operation.
- ⑥ Tandem configuration not available on AV models.
- ⑦ 460 1-phase motors are only certified for groups D, F, and G.
- ⑧ Only available in 16" (406 mm) and larger units.
- ⑨ Only available in 24" (610 mm) and larger units.
- ⑩ Built-in Disconnect only available with CSA certified heater.

AH-12A-A1 (Single Pass)

Table 53 – 5/8" (16 mm) Tension-Wound Finned Tubing (10 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	117.6	111.6	100.1	88.8	77.9	72.5	67.3
	COND. (lbs/hr)	120.1	114.0	102.2	90.7	79.5	74.1	68.7
	FAT °F (°C)	72.9 (22.7)	80.2 (26.8)	94.4 (34.7)	108.2 (42.3)	121.7 (49.8)	128.4 (53.6)	134.9 (57.2)
50	OUTPUT (MBH)	162.0	155.7	143.2	131.2	119.5	113.7	108.1
	COND. (lbs/hr)	175.1	168.2	154.7	141.7	129.0	122.8	116.7
	FAT °F (°C)	105.2 (40.7)	112.6 (44.8)	127.2 (52.7)	141.5 (60.8)	155.4 (68.6)	162.2 (72.3)	168.9 (76.1)
100	OUTPUT (MBH)	184.7	178.1	165.3	152.8	140.8	134.9	129.0
	COND. (lbs/hr)	206.3	198.9	184.5	170.6	157.1	150.5	143.9
	FAT °F (°C)	121.8 (49.9)	129.4 (54.1)	144.2 (62.3)	158.7 (70.4)	172.8 (78.2)	179.7 (82.1)	186.5 (85.8)
200	OUTPUT (MBH)	213.0	206.2	192.8	179.9	167.4	161.2	155.2
	COND. (lbs/hr)	249.1	241.1	225.4	210.3	195.6	188.4	181.3
	FAT °F (°C)	142.6 (61.4)	150.4 (65.8)	165.5 (74.2)	180.3 (82.4)	194.7 (90.4)	201.7 (94.3)	208.7 (98.2)

AH-12A-B1 (Single Pass)

Table 54 – 1" (25 mm) Extruded Finned Tubing (9 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	110.0	104.5	93.7	83.2	73.0	68.0	63.0
	COND. (lbs/hr)	112.2	160.6	95.6	84.9	74.5	69.4	64.3
	FAT °F (°C)	66.9 (19.4)	74.3 (23.5)	88.9 (31.6)	103.2 (39.6)	117.2 (47.3)	124.1 (51.2)	130.9 (54.9)
50	OUTPUT (MBH)	151.7	145.8	134.2	123.0	112.0	106.7	101.4
	COND. (lbs/hr)	163.8	157.8	144.8	132.7	120.9	115.1	109.4
	FAT °F (°C)	96.8 (36)	104.4 (40.2)	119.4 (48.6)	134.1 (56.7)	148.4 (64.7)	155.4 (68.6)	162.4 (72.4)
100	OUTPUT (MBH)	173.1	166.9	155.0	143.4	132.1	126.6	121.1
	COND. (lbs/hr)	193.1	186.2	172.8	159.8	147.2	141.1	135.0
	FAT °F (°C)	112.2 (44.6)	119.9 (48.8)	135.1 (52.3)	150.0 (65.6)	164.5 (73.6)	171.7 (77.6)	178.7 (81.5)
200	OUTPUT (MBH)	199.7	193.3	180.9	168.8	157.1	151.4	145.8
	COND. (lbs/hr)	233.3	225.8	211.2	197.1	183.4	176.7	170.1
	FAT °F (°C)	131.5 (55.3)	139.4 (59.7)	154.9 (68.3)	170.1 (76.7)	184.8 (84.4)	192.1 (88.9)	199.3 (92.9)

AH-12A-C1 (Single Pass)

Table 55 – 1" (25 mm) Extruded Finned Tubing 5 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	88.2	83.8	75.1	66.7	58.5	54.5	50.5
	COND. (lbs/hr)	89.7	85.1	76.3	67.8	59.4	55.4	51.3
	FAT °F (°C)	59.1 (15.1)	66.8 (19.3)	77.8 (25.4)	86.1 (30.6)	94.2 (34.6)	101.7 (38.7)	108.5 (42.5)
50	OUTPUT (MBH)	121.4	116.7	107.4	98.4	89.6	85.3	81.1
	COND. (lbs/hr)	130.5	125.4	115.4	105.7	96.3	91.7	87.7
	FAT °F (°C)	85.6 (29.8)	93.5 (34.2)	102.8 (39.3)	111.3 (44.6)	119.9 (49.4)	127.6 (53.1)	134.5 (57.5)
100	OUTPUT (MBH)	138.4	133.5	123.9	114.6	105.6	101.2	96.9
	COND. (lbs/hr)	153.7	148.3	137.6	127.2	117.2	112.3	107.4
	FAT °F (°C)	99.2 (37.3)	107.3 (41.8)	116.3 (47.4)	125.1 (52.3)	133.7 (56.5)	141.1 (61.7)	147.2 (65.1)
200	OUTPUT (MBH)	159.6	154.5	144.6	135.0	125.6	121.1	116.6
	COND. (lbs/hr)	185.6	179.7	168.1	156.8	145.9	140.6	135.6
	FAT °F (°C)	116.3 (46.8)	124.5 (51.4)	133.1 (56.7)	141.3 (61.8)	149.1 (66.2)	156.4 (70.8)	163.1 (74.5)

AH-16A-A1 (Single Pass)

Table 56 – 5/8" (16 mm) Tension-Wound Finned Tubing (10 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	194.3	184.5	165.3	146.7	128.6	119.7	111.0
	COND. (lbs/hr)	199.0	188.9	169.3	150.2	131.7	122.6	113.7
	FAT °F (°C)	75.9 (24.4)	83.0 (28.3)	97.0 (36.1)	110.6 (43.7)	123.8 (51)	130.4 (54.7)	138.8 (59.3)
50	OUTPUT (MBH)	267.6	257.0	236.4	216.4	197.0	187.6	178.0
	COND. (lbs/hr)	290.0	278.6	256.2	234.5	213.5	203.2	193.0
	FAT °F (°C)	109.2 (42.9)	116.6 (47.0)	131.0 (55.0)	145.0 (62.8)	158.6 (70.3)	165.3 (74.1)	171.9 (77.7)
100	OUTPUT (MBH)	305.0	294.0	272.7	252.1	232.1	222.3	212.7
	COND. (lbs/hr)	341.7	329.4	305.5	282.3	259.9	248.9	238.1
	FAT °F (°C)	126.4 (52.4)	133.9 (56.6)	148.5 (64.7)	162.8 (72.7)	176.6 (80.3)	183.4 (84.1)	190.1 (87.8)
200	OUTPUT (MBH)	351.5	340.2	318.0	296.6	275.9	265.7	255.7
	COND. (lbs/hr)	412.6	399.2	373.2	348.0	323.6	311.6	299.9
	FAT °F (°C)	148.0 (64.4)	155.6 (68.7)	170.6 (77)	185.1 (85.1)	199.3 (92.9)	206.2 (96.8)	213.0 (100.1)

AH-16A-B1 (Single Pass)

Table 57 – 1" Extruded Finned Tubing (9 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-23 (-10)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	182.5	173.3	155.2	137.7	120.7	112.4	104.2
	COND. (lbs/hr)	186.8	177.4	158.9	141.0	123.5	115.0	106.6
	FAT °F (°C)	73.2 (22.9)	80.4 (26.9)	94.5 (34.7)	108.3 (42.4)	121.8 (49.9)	128.4 (53.6)	135.0 (57.2)
50	OUTPUT (MBH)	251.5	241.5	222.1	203.3	185.0	176.1	167.3
	COND. (lbs/hr)	272.4	261.6	240.5	220.1	200.3	190.6	181.1
	FAT °F (°C)	105.4 (40.8)	112.8 (44.9)	127.4 (53)	141.6 (60.9)	155.4 (68.6)	162.2 (72.3)	168.9 (76.1)
100	OUTPUT (MBH)	286.7	276.4	256.3	236.9	218.0	208.8	199.8
	COND. (lbs/hr)	321.0	309.4	286.9	265.1	243.9	233.6	233.4
	FAT °F (°C)	122.0 (50.0)	129.6 (54.2)	144.4 (62.4)	158.8 (70.4)	172.8 (78.2)	179.7 (82.1)	186.5 (85.8)
200	OUTPUT (MBH)	330.6	319.9	299.0	278.8	259.2	249.7	240.3
	COND. (lbs/hr)	387.7	375.1	350.5	326.8	303.8	292.6	281.5
	FAT °F (°C)	142.9 (61.6)	150.6 (65.9)	165.6 (74.2)	180.3 (82.4)	194.7 (90.4)	201.7 (94.3)	208.6 (98.1)

AH-16A-C1 (Single Pass)

Table 58 – 1" Extruded Finned Tubing (5 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10(-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	146.4	139.1	124.7	110.8	97.2	90.6	84.0
	COND. (lbs/hr)	149.5	142.0	127.3	113.1	99.2	92.4	85.7
	FAT °F (°C)	54.1 (12.3)	61.9 (16.6)	77.5 (25.3)	92.8 (33.8)	107.8 (72.1)	115.3 (46.3)	122.6 (50.3)
50	OUTPUT (MBH)	201.4	193.5	178.2	163.3	148.8	141.7	134.7
	COND. (lbs/hr)	217.4	208.9	192.3	176.2	160.6	152.9	145.4
	FAT °F (°C)	78.5 (25.8)	86.6 (30.3)	102.5 (39.2)	118.2 (47.9)	133.6 (56.4)	141.1 (60.6)	148.7 (64.8)
100	OUTPUT (MBH)	229.5	221.4	205.5	190.2	175.3	168.0	160.8
	COND. (lbs/hr)	256.0	247.0	229.3	212.1	195.5	187.3	179.3
	FAT °F (°C)	91.1 (32.8)	99.3 (37.4)	115.4 (46.3)	131.3 (55.2)	146.8 (63.8)	154.5 (68.1)	162.1 (72.3)
200	OUTPUT (MBH)	264.5	256.1	239.7	223.8	208.4	200.8	193.4
	COND. (lbs/hr)	309.1	299.2	280.0	261.3	243.3	234.4	225.7
	FAT °F (°C)	106.9 (41.6)	115.2 (46.2)	131.6 (55.3)	147.7 (64.3)	163.5 (73.1)	171.3 (77.4)	179.0 (81.7)

AH-10A-A1 (Single Pass)

Table 59 – 5/8" (16 mm) Tension-Wound Finned Tubing (10fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	285.6	271.2	243.1	215.9	189.3	176.3	163.5
	COND. (lbs/hr)	293.0	278.3	249.5	221.5	194.2	180.9	167.7
	FAT °F (°C)	20.8 (69.4)	76.8 (24.9)	91.3 (32.9)	105.4 (40.8)	119.2 (48.4)	126.0 (52.2)	132.7 (55.9)
50	OUTPUT (MBH)	392.5	377.1	347.0	317.9	289.5	275.7	262.0
	COND. (lbs/hr)	426.3	409.5	376.8	345.1	314.3	299.2	284.4
	FAT °F (°C)	100.0 (37.8)	107.6 (42.0)	122.5 (50.3)	137.0 (58.3)	151.2 (66.2)	158.2 (70.1)	165.1 (73.9)
100	OUTPUT (MBH)	447.1	431.2	400.1	370.0	340.8	326.6	312.5
	COND. (lbs/hr)	501.9	484.0	449.1	415.3	382.5	366.4	350.6
	FAT °F (°C)	115.8 (46.6)	123.5 (50.8)	138.6 (59.2)	153.4 (67.4)	167.8 (75.4)	174.8 (79.3)	181.8 (83.2)
200	OUTPUT (MBH)	514.9	498.4	466.2	435.0	404.8	390.0	375.4
	COND. (lbs/hr)	605.8	586.3	548.3	511.5	475.9	458.5	441.3
	FAT °F (°C)	135.5 (57.5)	143.4 (61.9)	158.8 (70.4)	173.9 (78.8)	188.6 (87.0)	195.8 (91.0)	202.9 (94.9)

AH-20A-B1 (Single Pass)

Table 60 – 1" (25 mm) Extruded Finned Tubing (9 /inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	283.4	269.0	240.8	213.5	187.1	174.1	161.4
	COND. (lbs/hr)	209.8	276.0	247.1	219.1	191.9	178.6	165.6
	FAT °F (°C)	74.8 (23.8)	81.9 (27.7)	96.0 (35.6)	109.7 (43.2)	123.0 (50.5)	129.6 (54.2)	136.1 (57.8)
50	OUTPUT (MBH)	390.6	375.0	344.6	315.2	286.8	272.9	259.2
	COND. (lbs/hr)	424.1	407.2	374.1	342.2	311.3	296.2	281.3
	FAT °F (°C)	107.6 (42.0)	115.0 (46.1)	129.4 (54.1)	143.5 (61.9)	157.3 (69.6)	164.0 (73.3)	170.6 (77.0)
100	OUTPUT (MBH)	445.3	429.2	397.7	367.3	337.9	323.6	309.4
	COND. (lbs/hr)	499.9	481.7	446.4	412.2	379.2	363.0	347.2
	FAT °F (°C)	124.5 (51.4)	132.0 (55.6)	146.7 (63.5)	161.0 (71.7)	175.0 (79.4)	181.8 (83.2)	188.6 (87.0)
200	OUTPUT (MBH)	513.5	496.7	464.0	432.4	401.8	386.9	372.2
	COND. (lbs/hr)	604.1	584.2	545.6	508.4	472.3	454.8	437.5
	FAT °F (°C)	145.7 (63.2)	153.4 (67.4)	168.4 (75.8)	183.0 (83.9)	197.2 (91.8)	204.2 (95.7)	211.1 (99.5)

AH-20A-C1 (Single Pass)

Table 61 – 1" (25 mm) Extruded Finned Tubing (5 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	224.9	213.6	191.7	170.3	149.5	139.3	129.2
	COND. (lbs/hr)	230.2	218.7	196.2	174.3	153.0	142.5	132.2
	FAT °F (°C)	50.6 (10.3)	14.8 (58.6)	74.4 (23.6)	90.0 (32.2)	105.3 (40.7)	112.9 (44.9)	120.4 (49.1)
50	OUTPUT (MBH)	309.2	297.2	273.7	250.9	228.7	217.9	207.2
	COND. (lbs/hr)	334.9	321.8	296.4	271.6	247.6	235.9	224.2
	FAT °F (°C)	73.7 (23.2)	27.7 (81.9)	98.1 (36.7)	114.0 (45.6)	129.7 (52.3)	137.4 (58.6)	145.0 (62.8)
100	OUTPUT (MBH)	352.2	339.8	315.6	292.2	269.4	258.2	247.2
	COND. (lbs/hr)	394.3	380.4	353.3	326.9	301.4	288.9	276.5
	FAT °F (°C)	85.6 (29.8)	34.4 (93.9)	110.3 (43.5)	126.4 (52.4)	142.2 (61.2)	150.0 (65.6)	157.8 (69.9)
200	OUTPUT (MBH)	405.9	393.0	368.0	343.7	320.1	308.6	297.2
	COND. (lbs/hr)	476.0	460.9	431.4	402.8	375.1	361.6	348.2
	FAT °F (°C)	100.5 (38.1)	108.9 (42.7)	125.6 (52.0)	141.9 (61.1)	158.0 (70.0)	165.9 (74.4)	173.8 (78.8)

AH-24A-A1 (Single Pass)

Table 62 – 5/8" (16 mm) Tensions-Wound Finned Tubing (10fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	390.0	370.4	332.0	294.6	258.4	240.6	223.0
	COND. (lbs/hr)	399.6	379.4	340.0	301.8	264.6	246.4	228.4
	FAT °F (°C)	71.5 (21.9)	78.8 (26.0)	93.1 (33.9)	107.0 (41.7)	120.7 (49.3)	127.4 (53.0)	134.0 (56.7)
50	OUTPUT (MBH)	536.0	514.9	473.7	433.8	395.0	376.1	357.4
	COND. (lbs/hr)	581.1	558.2	513.4	470.1	428.1	407.5	387.2
	FAT °F (°C)	102.8 (39.3)	110.3 (43.5)	125.1 (51.7)	139.4 (59.7)	153.4 (67.4)	160.3 (71.3)	167.1 (75.1)
100	OUTPUT (MBH)	610.5	588.7	546.2	505.0	465.0	445.4	426.2
	COND. (lbs/hr)	684.1	659.6	611.8	565.6	520.8	498.9	477.3
	FAT °F (°C)	119.0 (48.3)	126.6 (52.6)	141.6 (69.0)	156.2 (69.0)	170.4 (76.9)	177.4 (80.8)	184.3 (84.6)
200	OUTPUT (MBH)	703.1	680.5	636.4	593.7	552.3	532.1	512.1
	COND. (lbs/hr)	825.5	798.8	746.9	696.6	647.9	624.1	600.7
	FAT °F (°C)	139.2 (59.6)	147.0 (63.9)	162.3 (72.4)	177.2 (80.7)	191.7 (88.7)	198.8 (92.7)	205.9 (96.6)

AH-24A-B1 (Single Pass)

Table 63 – 1" (25 mm) Extruded Finned Tubing (9 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	353.9	336.0	300.9	266.9	233.9	217.8	202.8
	COND. (lbs/hr)	362.2	343.8	307.9	273.1	239.3	222.8	206.5
	FAT °F (°C)	68.4 (20.2)	75.7 (24.8)	90.3 (32.4)	104.5 (40.3)	118.3 (47.9)	125.2 (51.8)	131.9 (55.5)
50	OUTPUT (MBH)	486.6	467.3	429.6	393.2	357.9	340.6	323.6
	COND. (lbs/hr)	526.9	505.9	465.1	425.6	387.3	368.6	350.1
	FAT °F (°C)	98.4 (36.9)	106.0 (41.1)	120.9 (49.4)	135.5 (57.5)	149.8 (65.4)	156.8 (69.3)	163.7 (73.2)
100	OUTPUT (MBH)	554.4	534.4	495.5	457.9	421.4	403.6	386.1
	COND. (lbs/hr)	620.5	598.0	554.4	512.2	471.3	451.4	431.7
	FAT °F (°C)	113.8 (45.4)	121.5 (49.7)	136.7 (58.2)	151.5 (66.4)	166.0 (74.4)	173.1 (78.4)	180.1 (82.3)
200	OUTPUT (MBH)	638.9	618.1	577.7	538.6	500.8	482.3	464.2
	COND. (lbs/hr)	749.0	724.6	677.0	631.1	586.7	565.0	543.6
	FAT °F (°C)	133.2 (56.2)	141.1 (60.6)	156.5 (69.2)	171.6 (77.6)	186.4 (85.8)	193.6 (89.8)	200.8 (93.8)

AH-24A-C1 (Single Pass)

Table 64 – 1" (25 mm) Extruded Finned Tubing (5 fins/inch), Single Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	290.8	276.2	247.6	219.9	192.9	179.6	166.6
	COND. (lbs/hr)	296.9	281.9	252.7	224.4	196.8	183.3	170.0
	FAT °F (°C)	57.2 (14.0)	65.0 (18.3)	80.3 (26.8)	95.3 (35.2)	110.1 (43.4)	117.4 (47.4)	124.6 (51.4)
50	OUTPUT (MBH)	399.3	383.6	353.1	323.4	294.7	280.6	266.7
	COND. (lbs/hr)	431.1	414.1	381.1	349.1	318.0	302.8	287.7
	FAT °F (°C)	82.7 (28.2)	90.7 (32.6)	106.4 (41.3)	121.8 (49.9)	136.9 (58.8)	144.4 (62.4)	151.8 (66.6)
100	OUTPUT (MBH)	454.6	438.5	407.0	376.5	346.9	332.4	318.1
	COND. (lbs/hr)	507.3	489.2	453.9	419.8	386.7	370.5	354.6
	FAT °F (°C)	95.9 (35.5)	103.9 (39.9)	119.9 (48.8)	135.5 (57.5)	150.8 (66.0)	158.3 (70.2)	165.8 (74.3)
200	OUTPUT (MBH)	523.6	506.9	474.2	442.7	412.0	397.0	382.3
	COND. (lbs/hr)	611.9	592.3	554.0	516.9	481.0	463.5	446.2
	FAT °F (°C)	112.3 (44.6)	120.5 (49.2)	136.7 (58.2)	152.6 (67.0)	168.1 (75.6)	175.8 (79.9)	183.4 (84.1)

AH-24B-A1, Single Pass

Table 65 – 5/8" (16 mm) Tensions-Wound Finned Tubing (10 fins/inch), Tandem Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	694.1	659.3	591.1	524.8	460.4	428.8	397.6
	COND. (lbs/hr)	713.3	677.5	607.4	539.3	473.1	440.6	408.5
	FAT °F (°C)	63.8 (17.7)	71.3 (21.8)	86.2 (30.1)	100.8 (38.2)	115.0 (46.1)	122.1 (50.1)	129.0 (53.9)
50	OUTPUT (MBH)	951.4	914.1	841.3	770.7	702.2	668.6	635.4
	COND. (lbs/hr)	1035.0	994.4	915.2	838.3	763.7	727.1	691.0
	FAT °F (°C)	91.9 (32.3)	99.7 (37.6)	114.9 (46.1)	129.9 (54.4)	144.6 (62.6)	151.8 (66.6)	158.9 (70.5)
100	OUTPUT (MBH)	1082.5	1044.1	969.1	896.4	825.8	791.3	757.2
	COND. (lbs/hr)	1217.6	1174.3	1089.8	1007.9	928.5	889.6	851.2
	FAT °F (°C)	106.3 (41.3)	114.2 (45.7)	129.7 (54.3)	144.9 (62.7)	159.8 (71.0)	167.1 (75.1)	174.3 (79.1)
200	OUTPUT (MBH)	1245.6	1205.7	1128.1	1052.8	979.9	944.2	909.0
	COND. (lbs/hr)	1468.2	1421.1	1329.4	1240.5	1154.4	1112.3	1070.7
	FAT °F (°C)	124.4 (51.3)	132.5 (55.8)	148.3 (64.6)	163.8 (73.2)	178.9 (81.6)	186.4 (85.8)	193.7 (89.8)

AH-24B-B1

Table 66 – 1" (25 mm) Extruded Finned Tubing (9 fins/inch), Tandem Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	637.6	605.5	542.8	481.8	422.6	393.6	364.9
	COND. (lbs/hr)	654.9	621.9	557.4	494.8	434.0	404.2	374.7
	FAT °F (°C)	59.7 (15.4)	67.4 (19.7)	82.5 (28.1)	97.4 (36.3)	112.0 (44.4)	119.2 (48.4)	126.3 (52.4)
50	OUTPUT (MBH)	874.3	839.9	772.9	707.9	644.8	614.0	583.5
	COND. (lbs/hr)	950.4	913.0	840.1	769.4	700.8	667.2	634.1
	FAT °F (°C)	86.2 (30.1)	94.1 (34.5)	109.6 (43.1)	124.8 (51.6)	139.8 (59.9)	147.1 (63.9)	154.4 (68.0)
100	OUTPUT (MBH)	994.9	959.5	890.4	823.5	758.5	726.8	695.5
	COND. (lbs/hr)	1118.2	1078.3	1000.5	925.2	852.2	816.4	781.2
	FAT °F (°C)	99.8 (37.7)	107.8 (42.1)	123.5 (50.8)	139.0 (59.4)	154.1 (67.8)	161.6 (72.0)	169.0 (76.1)
200	OUTPUT (MBH)	1147.2	1108.4	1036.8	967.5	900.3	867.5	835.1
	COND. (lbs/hr)	1348.7	1305.3	1220.8	1139.0	1059.8	1021.1	982.9
	FAT °F (°C)	116.8 (47.1)	125.0 (51.7)	141.0 (60.6)	156.7 (69.3)	172.1 (77.8)	179.7 (82.4)	187.2 (86.2)

AH-24B-C1, Single Pass

Table 67 – 1" (25 mm) Extruded Finned Tubing (5 fins/inch), Tandem Fan

Operating Pressure		Entering Air Temperature °F (°C)						
		-10 (-23)	0 (-18)	20 (-7)	40 (4)	60 (16)	70 (21)	80 (27)
2	OUTPUT (MBH)	499.4	474.3	425.3	377.7	331.4	308.7	286.3
	COND. (lbs/hr)	511.8	486.1	435.8	387.1	339.6	316.3	293.4
	FAT °F (°C)	50.3 (10.2)	58.3 (14.6)	74.1 (23.4)	89.7 (32.1)	105.5 (40.8)	112.6 (44.8)	120.1 (48.9)
50	OUTPUT (MBH)	683.6	656.8	604.7	554.1	504.9	480.9	457.1
	COND. (lbs/hr)	741.3	712.2	655.6	600.7	547.4	521.2	495.5
	FAT °F (°C)	73.0 (22.8)	81.2 (27.3)	97.4 (36.3)	113.3 (45.2)	128.9 (53.8)	136.7 (58.2)	144.4 (62.4)
100	OUTPUT (MBH)	777.5	750.5	696.3	644.2	593.7	569.0	544.6
	COND. (lbs/hr)	871.5	840.6	780.3	721.9	665.2	637.4	610.1
	FAT °F (°C)	84.6 (29.2)	92.9 (33.8)	109.3 (42.9)	125.4 (51.9)	141.3 (60.7)	149.1 (65.1)	156.9 (69.4)
200	OUTPUT (MBH)	894.4	865.9	810.4	756.6	704.4	678.9	653.8
	COND. (lbs/hr)	1050.4	1016.9	951.5	888.1	826.8	796.7	767.1
	FAT °F (°C)	99.1 (37.3)	107.6 (42.0)	124.2 (51.2)	140.6 (60.3)	156.7 (69.3)	164.6 (73.7)	172.5 (78.1)

50% Ethylene Glycol - 60°F (16°C) EAT

Table 68 – 5/8" (16 mm) Tension-Wound Finned Tubing (10 fins/inch)

Model	ΔT °F (°C)	Entering Glycol Temperature											
		180°F (82°C)				200°F (93°C)				220°F (104°C)			
		Output MBH	Flow USGPM	FAT	PD	Output MBH	Flow USGPM	FAT	PD	Output MBH	Flow USGPM	FAT	PD
				°F (°C)	psi			°F (°C)	psi			°F (°C)	psi
AH-12A-A1* One pass	10 (5.6)	17.6	3.69	73.3 (22.9)	0.00	21.5	4.45	76.3 (24.6)	0.00	33.6	6.95	85.8 (29.9)	0.01
	20 (11.1)	13.0	1.35	69.7 (20.9)	0.00	16.1	1.65	72.0 (22.2)	0.00	19.3	1.95	74.4 (23.6)	0.00
	40 (22.2)	8.9	0.45	66.4 (19.1)	0.00	11.2	0.56	68.1 (20.1)	0.00	13.6	0.68	69.9 (21.1)	0.00
AH-12A-A3 Three pass	10 (5.6)	43.0	9.26	93.7 (34.3)	0.31	56.5	12.0	104.5 (40.3)	0.52	68.1	14.3	113.7 (45.4)	0.73
	20 (11.1)	19.0	2.00	74.4 (23.6)	0.02	34.0	3.59	86.3 (30.2)	0.05	48.8	5.12	98.1 (36.7)	0.10
	40 (22.2)	13.3	0.69	69.9 (21.1)	0.00	16.7	0.86	72.5 (22.5)	0.00	20.4	1.04	75.3 (24.1)	0.01
AH-16A-A1* One pass	10 (5.6)	32.1	6.82	75.4 (24.1)	0.01	54.3	11.5	86.4 (30.2)	0.01	80.0	16.8	99.2 (37.3)	0.03
	20 (11.1)	24.0	2.53	71.4 (21.9)	0.00	29.6	3.09	74.1 (23.4)	0.00	35.4	3.65	76.9 (24.9)	0.00
	40 (22.2)	15.8	0.82	67.3 (19.6)	0.00	20.7	1.06	69.6 (20.9)	0.00	25.1	1.28	71.7 (22.1)	0.00
AH-16A-A3 Three pass	10 (5.6)	80.3	17.4	99.5 (37.5)	0.74	99.2	21.2	109.0 (42.8)	1.08	118.1	24.9	118.5 (48.1)	1.48
	20 (11.1)	48.6	5.23	83.6 (28.7)	0.08	72.5	7.73	95.5 (35.3)	0.16	97.3	10.3	107.9 (42.2)	0.27
	40 (22.2)	24.3	1.29	71.5 (21.9)	0.01	30.6	1.61	74.6 (23.7)	0.01	37.2	1.93	77.7 (25.4)	0.01
AH-16A-A5 Five pass	10 (5.6)	88.0	19.1	103.4 (39.7)	3.96	106.7	22.8	112.8 (44.9)	5.60	125.3	26.5	122.2 (50.1)	7.46
	20 (11.1)	69.0	7.46	93.8 (34.3)	0.65	90.9	9.73	104.8 (40.4)	1.08	109.9	11.6	114.3 (45.7)	1.52
	40 (22.2)	28.6	1.53	73.7 (23.2)	0.03	49.5	2.63	84.0 (28.9)	0.09	74.5	3.94	96.4 (35.8)	0.19
AH-20A-A1* One pass	10 (5.6)	61.1	13.1	78.7 (25.9)	0.01	101.6	21.7	91.3 (32.9)	0.03	134.4	28.4	101.6 (38.7)	0.05
	20 (11.1)	40.7	4.34	72.3 (22.4)	0.00	50.1	5.28	75.2 (24.0)	0.00	59.9	6.24	78.1 (25.6)	0.00
	40 (22.2)	25.0	1.32	67.4 (19.7)	0.00	35.0	1.83	70.4 (21.3)	0.00	43.1	2.23	72.9 (22.7)	0.00
AH-20A-A3 Three pass	10 (5.6)	123.0	26.7	98.2 (26.8)	1.09	150.4	32.2	106.8 (41.6)	1.56	177.7	37.6	115.5 (46.4)	3.09
	20 (11.1)	86.9	9.41	86.8 (30.4)	0.15	118.5	12.7	96.7 (35.9)	0.26	151.7	16.07	107.2 (41.8)	0.41
	40 (22.2)	40.8	2.19	72.3 (22.4)	0.01	51.3	2.72	75.5 (24.2)	0.02	79.8	4.21	84.4 (29.1)	0.03
AH-20A-A5 Five pass	10 (5.6)	132.3	28.7	101.2 (38.4)	5.58	159.4	34.2	109.7 (43.2)	7.77	186.4	39.5	118.2 (47.9)	10.3
	20 (11.1)	111.6	12.1	94.6 (34.8)	1.07	139.3	14.9	103.3 (39.6)	1.59	166.8	17.7	112.0 (44.4)	2.18
	40 (22.2)	49.4	2.66	75.0 (23.9)	0.06	91.1	4.89	88.0 (31.1)	0.19	123.6	6.57	98.2 (26.8)	0.33
AH-24A-A1* One pass	10 (5.6)	110.2	23.7	85.4 (29.7)	0.03	156.3	33.3	96.3 (35.7)	0.06	205.1	43.2	107.8 (42.1)	0.09
	20 (11.1)	60.0	6.37	73.6 (23.1)	0.00	73.8	7.75	76.7 (24.8)	0.00	87.7	9.01	79.9 (26.6)	0.01
	40 (22.2)	35.1	1.83	67.8 (19.9)	0.00	49.2	2.56	71.0 (21.7)	0.00	64.0	3.30	74.3 (23.5)	0.00
AH-24A-A3 Three pass	10 (5.6)	173.0	37.4	100.4 (38.0)	1.68	210.1	44.9	109.1 (42.8)	2.37	247.1	52.2	117.9 (47.7)	3.15
	20 (11.1)	131.7	14.2	90.5 (32.5)	0.27	177.5	19.0	101.3 (38.5)	0.46	215.4	22.8	110.3 (43.5)	0.64
	40 (22.2)	59.8	3.20	73.6 (23.1)	0.02	74.0	3.91	76.8 (24.9)	0.03	137.5	7.26	91.7 (33.2)	0.08
AH-24A-A5 Five pass	10 (5.6)	183.8	39.8	103.0 (39.4)	8.39	220.5	47.2	111.7 (44.3)	11.6	—	—	—	—
	20 (11.1)	158.3	17.2	96.9 (36.1)	1.68	195.7	21.0	105.7 (40.9)	2.45	233.0	24.7	114.5 (45.8)	3.32
	40 (22.2)	93.2	5.04	81.4 (27.4)	0.17	139.6	7.48	92.3 (33.5)	0.35	187.1	9.94	103.5 (39.7)	0.59
AH-24A-A7 Seven pass	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	167.2	18.1	99.0 (37.2)	4.98	204.3	21.9	107.8 (42.1)	7.09	241.3	25.6	116.5 (46.9)	9.48
	40 (22.2)	118.1	6.41	87.3 (30.7)	0.69	163.6	8.80	98.0 (36.7)	1.25	201.6	10.7	107.0 (41.7)	1.80
AH-24B-A1* One pass Tandem	10 (5.6)	286.4	62.1	94.0 (34.4)	0.25	352.4	75.6	101.9 (38.8)	0.36	418.1	88.6	43.3 (109.9)	0.48
	20 (11.1)	173.8	18.8	80.5 (26.9)	0.03	260.1	27.9	90.8 (32.7)	0.06	335.6	35.6	37.7 (99.8)	0.09
	40 (22.2)	69.2	3.69	67.9 (19.9)	0.00	96.7	5.12	71.2 (21.8)	0.00	156.0	8.22	25.7 (78.2)	0.01
AH-24B-A3 Three pass Tandem	10 (5.6)	330.2	71.7	99.3 (37.4)	7.73	394.6	84.7	107.1 (41.7)	10.4	458.8	97.3	114.9 (46.1)	13.5
	20 (11.1)	290.2	31.6	94.5 (34.7)	1.67	355.7	38.3	102.3 (39.1)	2.35	420.8	44.7	110.2 (43.4)	3.12
	40 (22.2)	194.0	10.6	82.9 (28.3)	0.22	269.8	14.6	91.9 (33.3)	0.39	348.2	18.6	101.4 (38.6)	0.61
AH-24B-A5 Five pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	308.7	33.6	96.7 (35.9)	8.14	373.4	40.2	104.5 (40.3)	11.12	437.9	46.6	112.3 (44.6)	14.7
	40 (22.2)	239.5	13.1	88.3 (31.3)	1.41	312.2	16.9	97.1 (36.2)	2.23	378.3	20.2	105.0 (40.6)	3.07
AH-24B-A7 Seven pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	—	—	—	—	—	—	—	—	—	—	—	—
	40 (22.2)	261.0	14.3	90.9 (32.7)	4.35	326.9	17.7	98.9 (37.2)	6.37	392.4	21.0	106.7 (41.5)	8.65

* Single-pass heaters are not recommended for liquid service. In many cases, a smaller multi-pass model would be a more economical choice.

For 50 Hz power supply, derate output by 10%. For complete model coding, refer to Model Coding, page 89. Above figures are based on calculations at sea level.

50% Ethylene Glycol - 60°F (16°C) EAT

Table 69 – 1" (25 mm) Tension-Wound Finned Tubing (9 fins/inch)

Model	ΔT °F (°C)	Entering Glycol Temperature											
		180°F (82°C)				200°F (93°C)				220°F (104°C)			
		Output MBH	Flow USGPM	FAT °F (°C)	PD psi	Output MBH	Flow USGPM	FAT °F (°C)	PD psi	Output MBH	Flow USGPM	FAT °F (°C)	PD psi
AH-12A-A1* One pass	10 (5.6)	9.1	1.83	66.6 (19.2)	0.00	11.2	2.22	68.0 (20.0)	0.00	13.3	2.61	69.6 (21.1)	0.00
	20 (11.1)	6.6	0.64	64.6 (18.1)	0.00	8.2	0.78	65.6 (18.7)	0.00	9.7	0.93	66.8 (19.3)	0.00
	40 (22.2)	4.4	0.21	62.9 (17.2)	0.00	5.6	0.26	63.7 (17.6)	0.00	6.8	0.31	64.5 (18.1)	0.00
AH-12A-A3 Three pass	10 (5.6)	26.7	5.68	80.4 (26.9)	0.05	42.0	8.88	92.4 (33.6)	0.11	53.1	11.1	101.2 (38.4)	0.17
	20 (11.1)	10.1	1.03	67.3 (19.6)	0.00	12.5	1.25	69.1 (20.6)	0.00	14.6	1.47	70.6 (21.4)	0.00
	40 (22.2)	6.8	0.34	64.8 (18.2)	0.00	8.6	0.42	66.0 (18.9)	0.00	10.5	0.51	67.4 (19.7)	0.00
AH-16A-A1* One pass	10 (5.6)	17.4	3.61	68.4 (20.2)	0.00	21.4	4.37	70.3 (21.3)	0.00	25.4	5.13	72.3 (22.4)	0.00
	20 (11.1)	12.6	1.27	65.9 (18.8)	0.00	15.5	1.56	67.3 (19.6)	0.00	18.6	1.84	68.8 (20.4)	0.00
	40 (22.2)	8.4	0.41	63.8 (17.7)	0.00	10.6	0.51	64.8 (18.2)	0.00	12.9	0.62	65.9 (18.8)	0.00
AH-16A-A3 Three pass	10 (5.6)	57.2	12.3	88.9 (31.6)	0.13	78.6	16.8	99.9 (37.7)	0.23	96.7	20.4	109.2 (42.9)	0.34
	20 (11.1)	19.2	2.01	69.3 (20.7)	0.00	32.9	3.44	76.2 (24.6)	0.01	59.6	6.24	89.9 (32.2)	0.03
	40 (22.2)	13.0	0.66	66.1 (18.9)	0.00	16.4	0.83	67.8 (19.9)	0.00	20.0	1.00	69.5 (20.8)	0.00
AH-16A-A5 Five pass	10 (5.6)	72.5	15.7	96.8 (36.0)	0.91	90.3	19.3	106.0 (41.1)	1.37	108.1	22.8	115.2 (46.2)	1.91
	20 (11.1)	44.1	4.73	82.1 (27.8)	0.09	68.6	7.31	94.7 (24.8)	0.21	86.9	9.16	104.1 (40.1)	0.32
	40 (22.2)	15.8	0.82	67.6 (19.8)	0.00	20.0	1.03	69.6 (20.9)	0.00	24.3	1.24	71.7 (22.1)	0.01
AH-20A-A1* One pass	10 (5.6)	29.2	6.14	69.4 (20.8)	0.00	36.1	7.43	71.5 (21.9)	0.00	80.3	16.8	86.5 (30.3)	0.01
	20 (11.1)	21.0	2.18	66.7 (19.3)	0.00	26.3	2.66	68.2 (20.1)	0.00	31.1	3.15	69.9 (21.1)	0.00
	40 (22.2)	14.0	0.71	64.3 (17.9)	0.00	18.0	0.88	65.4 (18.6)	0.00	21.5	1.06	66.6 (19.2)	0.00
AH-20A-A3 Three pass	10 (5.6)	102.9	22.2	94.3 (34.6)	0.28	130.8	28.0	103.8 (39.9)	0.43	158.6	33.5	113.2 (45.1)	0.62
	20 (11.1)	32.1	3.37	70.4 (21.3)	0.01	79.3	8.45	86.3 (30.2)	0.04	119.2	12.6	99.7 (37.6)	0.09
	40 (22.2)	21.7	1.13	66.9 (19.4)	0.00	27.5	1.42	68.7 (20.4)	0.00	33.4	1.71	70.6 (21.4)	0.00
AH-20A-A5 Five pass	10 (5.6)	118.6	25.7	99.7 (37.6)	1.65	146.0	31.3	109.0 (42.8)	2.43	173.3	36.7	118.3 (47.9)	3.32
	20 (11.1)	83.0	8.98	87.6 (30.9)	0.22	116.5	12.5	98.9 (37.2)	0.41	144.6	15.3	108.4 (42.4)	0.60
	40 (22.2)	26.4	1.39	68.5 (20.3)	0.01	33.4	1.74	70.7 (21.5)	0.01	78.1	4.12	85.7 (29.8)	0.05
AH-24A-A1* One pass	10 (5.6)	43.6	9.14	70.4 (21.3)	0.00	79.4	16.7	79.3 (26.3)	0.01	127.2	26.6	91.8 (33.2)	0.01
	20 (11.1)	31.9	3.29	67.5 (19.7)	0.00	39.4	4.02	69.2 (20.7)	0.00	47.2	4.76	71.1 (21.7)	0.00
	40 (22.2)	21.4	1.08	64.9 (18.3)	0.00	27.1	1.35	66.2 (19.0)	0.00	32.9	1.63	67.5 (19.7)	0.00
AH-24A-A3 Three pass	10 (5.6)	136.2	29.4	93.7 (34.3)	0.35	170.4	36.4	102.3 (39.1)	0.53	204.5	43.1	110.8 (43.8)	0.74
	20 (11.1)	74.3	7.94	78.1 (25.6)	0.03	117.7	12.5	88.9 (31.6)	0.07	162.3	17.1	100.1 (37.8)	0.12
	40 (22.2)	32.7	1.70	67.7 (19.8)	0.00	41.3	2.13	69.7 (20.9)	0.00	50.2	2.56	71.8 (22.1)	0.00
AH-24A-A5 Five pass	10 (5.6)	152.5	33.0	97.8 (36.6)	1.99	186.1	39.8	106.3 (41.3)	2.86	219.7	46.4	114.7 (45.9)	3.86
	20 (11.1)	119.9	13.0	89.6 (32.0)	0.33	154.3	16.5	98.2 (36.8)	0.52	188.7	19.9	106.8 (41.6)	0.75
	40 (22.2)	39.2	2.06	69.3 (20.7)	0.01	73.8	3.90	77.9 (25.5)	0.03	119.7	6.31	89.3 (31.8)	0.08
AH-24A-A7 Seven pass	10 (5.6)	160.2	34.6	99.8 (37.7)	5.90	193.5	41.4	108.1 (42.3)	8.34	226.9	47.9	116.5 (46.9)	11.2
	20 (11.1)	133.1	14.4	92.9 (38.3)	1.07	167.2	17.9	101.4 (38.6)	1.63	201.2	21.3	110.0 (43.3)	2.28
	40 (22.2)	65.9	3.53	76.0 (24.4)	0.07	109.4	5.84	86.8 (30.4)	0.19	153.1	8.11	97.8 (36.6)	0.35
AH-24B-A1* One pass Tandem	10 (5.6)	202.8	43.9	84.7 (29.3)	0.04	277.9	59.5	93.9 (34.4)	0.07	339.4	71.8	101.5 (38.6)	0.10
	20 (11.1)	81.3	8.66	69.7 (20.9)	0.00	117.0	12.4	23.3 (74.0)	0.00	214.9	22.7	86.0 (30.0)	0.01
	40 (22.2)	44.1	2.30	65.1 (18.4)	0.00	65.6	3.42	19.8 (67.7)	0.00	85.3	4.41	70.0 (21.1)	0.00
AH-24B-A3 Three pass Tandem	10 (5.6)	282.8	61.4	94.6 (34.8)	1.81	342.5	73.4	102.0 (38.9)	2.53	402.1	85.2	109.4 (43.0)	3.36
	20 (11.1)	231.7	25.2	88.3 (31.3)	0.33	292.7	31.4	95.8 (35.4)	0.50	353.6	37.5	103.3 (39.6)	0.70
	40 (22.2)	81.9	4.39	69.7 (20.9)	0.01	176.6	9.47	81.4 (27.4)	0.05	249.3	13.3	90.3 (32.4)	0.10
AH-24B-A5 Five pass Tandem	10 (5.6)	298.9	64.9	96.6 (35.9)	8.94	358.1	76.8	104.0 (40.0)	12.3	—	—	—	—
	20 (11.1)	259.7	28.2	91.7 (33.2)	1.82	319.9	34.3	99.2 (37.3)	2.63	379.9	40.3	106.6 (41.4)	3.55
	40 (22.2)	173.1	9.42	81.0 (27.2)	0.23	247.4	13.3	90.1 (32.3)	0.44	309.1	16.5	97.8 (36.6)	0.64
AH-24B-A7 Seven pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	273.0	29.7	93.4 (34.1)	5.33	332.7	35.8	100.8 (38.2)	7.56	392.2	41.7	108.2 (42.3)	10.1
	40 (22.2)	208.3	11.4	85.4 (29.7)	0.86	269.7	14.6	92.9 (33.8)	1.36	330.7	17.6	100.5 (38.1)	1.95

* Single-pass heaters are not recommended for liquid service. In many cases, a smaller multi-pass model would be a more economical choice. For 50 Hz power supply, derate output by 10%. For complete model coding, refer to page 69. Above figures are based on calculations at sea level.

Water - 60°F (16°C) EAT

Table 70 – 5/8" (16 mm) Tension-Wound Finned Tubing (10 fins/inch)

Model	ΔT	Entering Water Temperature											
		180°F (82°C)				200°F (93°C)				220°F (104°C)			
	°F (°C)	Output MBH	Flow USGPM	FAT	PD	Output MBH	Flow USGPM	FAT	PD	Output MBH	Flow USGPM	FAT	PD
				°F (°C)	psi			°F (°C)	psi			°F (°C)	psi
AH-12A-A1* One pass	10 (5.6)	37.6	7.29	89.4 (31.9)	0.01	50.4	9.75	99.5 (37.5)	0.01	64.3	12.4	110.6 (43.7)	0.02
	20 (11.1)	18.9	1.79	74.4 (23.6)	0.00	23.6	2.23	78.0 (25.6)	0.00	37.2	3.55	88.7 (31.5)	0.00
	40 (22.2)	13.2	0.61	69.8 (21.0)	0.00	16.9	0.79	72.7 (22.6)	0.00	20.9	0.97	75.7 (24.3)	0.00
AH-12A-A3 Three pass	10 (5.6)	53.7	10.5	102.3 (39.1)	0.35	64.9	12.6	111.3 (44.1)	0.51	76.1	14.7	120.3 (49.1)	0.69
	20 (11.1)	42.5	4.13	93.3 (34.1)	0.06	55.6	5.39	103.7 (39.8)	0.10	67.0	6.48	112.8 (44.9)	0.14
	40 (22.2)	18.6	0.88	74.2 (23.4)	0.00	31.7	1.52	84.4 (29.1)	0.01	46.0	2.21	95.8 (35.4)	0.02
AH-16A-A1* One pass	10 (5.6)	72.3	14.1	95.5 (35.3)	0.02	94.2	18.3	106.5 (41.4)	0.03	113.0	21.9	115.9 (46.6)	0.04
	20 (11.1)	34.2	3.28	76.4 (24.7)	0.00	58.2	5.62	88.3 (31.3)	0.00	81.7	7.89	100.0 (37.8)	0.01
	40 (22.2)	24.0	1.14	71.4 (21.9)	0.00	30.8	1.46	74.7 (23.7)	0.00	38.0	1.80	78.1 (25.6)	0.00
AH-16A-A3 Three pass	10 (5.6)	91.7	17.9	105.3 (40.7)	0.69	110.1	21.4	114.5 (45.8)	0.98	128.5	25.0	123.8 (51.0)	1.32
	20 (11.1)	78.2	7.63	98.5 (36.9)	0.13	96.9	9.43	107.8 (42.1)	0.20	115.6	11.2	117.2 (47.3)	0.28
	40 (22.2)	44.0	2.13	81.3 (27.4)	0.01	67.0	3.25	92.7 (33.7)	0.03	87.9	4.26	103.2 (39.6)	0.04
AH-16A-A5 Five pass	10 (5.6)	95.6	18.7	107.3 (41.8)	3.37	113.9	22.2	116.5 (26.9)	4.73	132.2	25.7	125.7 (52.1)	6.30
	20 (11.1)	85.1	8.31	102.0 (38.9)	0.70	103.6	10.1	111.2 (44.0)	1.02	122.1	11.9	120.5 (49.2)	1.39
	40 (22.2)	62.2	3.03	90.4 (32.4)	0.10	83.8	4.08	101.2 (38.4)	0.18	102.7	4.98	110.7 (43.7)	0.26
AH-20A-A1* One pass	10 (5.6)	117.1	22.9	96.3 (35.7)	0.03	144.4	28.1	104.9 (40.5)	0.04	171.6	33.4	113.5 (45.3)	0.06
	20 (11.1)	68.1	6.61	72.2 (22.3)	0.00	103.4	10.0	91.9 (33.3)	0.01	134.6	13.1	101.7 (38.7)	0.01
	40 (22.2)	40.3	1.93	72.2 (22.3)	0.00	51.4	2.47	75.6 (24.2)	0.00	63.2	3.02	79.2 (26.2)	0.00
AH-20A-A3 Three pass	10 (5.6)	136.7	26.7	102.5 (39.2)	0.95	163.4	31.9	111.0 (43.9)	1.34	190.2	37.0	119.5 (48.6)	1.79
	20 (11.1)	119.3	11.7	97.0 (36.1)	0.19	146.4	14.3	105.6 (40.9)	0.28	173.5	16.9	114.1 (45.6)	0.39
	40 (22.2)	78.4	3.82	84.1 (28.9)	0.02	109.2	5.31	93.7 (34.3)	0.04	142.0	6.90	104.1 (40.1)	0.07
AH-20A-A5 Five pass	10 (5.6)	141.4	27.7	104.0 (40.0)	4.58	168.0	32.8	112.5 (44.7)	6.37	194.6	37.9	120.9 (49.4)	8.45
	20 (11.1)	127.6	12.5	99.6 (37.6)	0.98	154.4	15.1	108.1 (42.3)	1.41	181.3	17.6	116.6 (47.0)	1.91
	40 (22.2)	100.7	4.92	91.2 (32.9)	0.17	128.2	6.25	99.8 (37.7)	0.26	155.6	7.57	108.4 (42.4)	0.37
AH-24A-A1* One pass	10 (5.6)	165.9	32.4	98.7 (37.1)	0.04	202.9	39.5	107.4 (41.9)	0.07	239.9	46.6	116.2 (46.8)	0.09
	20 (11.1)	113.2	11.0	86.2 (30.1)	0.01	156.3	15.2	96.3 (35.7)	0.01	196.9	19.1	105.9 (41.1)	0.02
	40 (22.2)	59.0	2.82	73.4 (23.0)	0.00	75.2	3.59	77.1 (25.1)	0.00	92.2	4.40	81.0 (27.2)	0.00
AH-24A-A3 Three pass	10 (5.6)	188.8	36.9	104.2 (40.1)	1.42	225.2	43.9	112.8 (44.9)	1.98	261.6	50.8	121.4 (49.7)	2.63
	20 (11.1)	167.3	16.3	99.0 (37.2)	0.30	204.1	19.9	107.7 (42.1)	0.43	240.9	23.4	116.6 (47.0)	0.59
	40 (22.2)	118.7	5.77	87.4 (30.8)	0.04	159.0	7.73	96.9 (36.1)	0.07	201.3	9.77	104.1 (40.1)	0.11
AH-24A-A5 Five pass	10 (5.6)	194.4	38.0	105.5 (40.8)	6.73	230.6	44.9	114.1 (45.6)	9.32	266.7	51.8	122.7 (50.4)	12.3
	20 (11.1)	176.9	17.3	101.3 (38.5)	1.47	213.4	20.8	110.0 (43.3)	2.09	249.9	24.3	118.6 (48.1)	2.82
	40 (22.2)	142.8	6.97	93.2 (34.0)	0.26	180.0	8.76	102.0 (38.9)	0.40	217.2	10.6	110.8 (43.8)	0.57
AH-24A-A7 Seven pass	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	181.5	17.7	102.4 (39.1)	4.13	217.8	21.2	111.0 (43.9)	5.85	254.2	24.7	119.7 (48.7)	7.85
	40 (22.2)	150.6	7.35	95.0 (35.0)	0.77	187.7	9.14	103.8 (39.9)	1.16	224.7	10.91	112.6 (44.8)	1.62
AH-24B-A1* One pass Tandem	10 (5.6)	323.2	63.3	98.5 (36.9)	0.22	387.5	75.7	106.2 (41.2)	0.30	451.7	88.0	114.0 (45.6)	0.40
	20 (11.1)	278.4	27.3	93.0 (33.9)	0.05	343.6	33.6	100.9 (32.3)	0.07	408.7	39.8	108.7 (42.6)	0.09
	40 (22.2)	155.7	7.58	78.3 (25.7)	0.00	239.4	11.7	88.3 (31.3)	0.01	313.4	15.2	97.1 (36.2)	0.02
AH-24B-A3 Three pass Tandem	10 (5.6)	345.6	67.8	101.2 (38.4)	5.92	409.2	80.0	108.9 (42.7)	8.09	472.7	92.2	116.6 (47.0)	10.6
	20 (11.1)	317.3	31.1	97.8 (36.6)	1.35	381.4	37.3	105.5 (40.8)	1.89	445.4	43.4	113.2 (45.1)	2.51
	40 (22.2)	261.4	12.8	91.0 (32.8)	0.26	326.7	16.0	98.8 (37.1)	0.39	391.8	19.1	106.0 (41.5)	0.54
AH-24B-A5 Five pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	326.7	32.0	98.9 (37.2)	6.26	390.5	38.2	106.6 (41.4)	8.72	454.2	44.3	114.3 (45.7)	11.5
	40 (22.2)	277.8	13.6	93.0 (33.9)	1.26	342.7	16.8	100.8 (38.2)	1.83	407.3	19.9	108.0 (42.6)	2.50
AH-24B-A7 Seven pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	—	—	—	—	—	—	—	—	—	—	—	—
	40 (22.2)	285.5	14.0	93.9 (34.4)	3.48	350.2	17.1	101.7 (38.7)	5.03	414.6	20.2	109.5 (43.1)	6.88

* Single-pass heaters are not recommended for liquid service. In many cases, a smaller multi-pass model would be a more economical choice. For 50 Hz power supply, derate output by 10%. For complete model coding, refer to page 69. Above figures are based on calculations at sea level.

Water - 60°F (16°C) EAT

Table 71 – 1" (25 mm) Extruded Finned Tubing (9 fins/inch)

Model	ΔT °F (°C)	Entering Glycol Temperature											
		180°F (82°C)				200°F (93°C)				220°F (104°C)			
		Output MBH	Flow USGPM	FAT °F (°C)	PD psi	Output MBH	Flow USGPM	FAT °F (°C)	PD psi	Output MBH	Flow USGPM	FAT °F (°C)	PD psi
AH-12A-B1* One pass	10 (5.6)	13.8	2.55	70.2 (21.2)	0.00	31.5 12.8 8.8	6.03	84.1 (28.9)	0.00	44.3	8.48	94.1 (34.5)	0.00
	20 (11.1)	10.2	0.93	67.4 (19.7)	0.00		1.17	69.3 (20.7)	0.00	15.6	1.43	71.4 (21.9)	0.00
	40 (22.2)	6.8	0.30	64.8 (18.2)	0.00		0.39	66.2 (19.0)	0.00	10.9	0.49	67.7 (19.8)	0.00
AH-12A-B3 Three pass	10 (5.6)	44.5	8.64	94.6 (34.8)	0.09	55.2	10.7	103.0 (39.4)	0.14	65.9	12.7	111.5 (44.2)	0.20
	20 (11.1)	28.3	2.72	81.7 (27.6)	0.01	42.4	4.09	92.8 (33.8)	0.02	53.3	5.13	101.4 (38.6)	0.03
	40 (22.2)	10.3	0.47	67.5 (19.7)	0.00	13.2	0.61	69.7 (20.9)	0.00	18.1	0.84	73.4 (23.0)	0.00
AH-16A-B1* One pass	10 (5.6)	46.8	9.06	83.5 (28.6)	0.00	67.2	13.0	93.9 (34.4)	0.00	89.2	17.2	105.3 (40.7)	0.01
	20 (11.1)	19.3	1.82	69.4 (20.8)	0.00	24.3	2.28	71.8 (22.1)	0.00	29.4	2.70	74.3 (23.5)	0.00
	40 (22.2)	13.0	0.60	66.1 (18.9)	0.00	16.8	0.77	68.0 (20.0)	0.00	20.8	0.96	69.9 (21.1)	0.00
AH-16A-B3 Three pass	10 (5.6)	78.3	15.3	99.8 (37.7)	0.17	95.7	18.6	108.8 (42.7)	0.25	113.2	22.0	117.9 (47.7)	0.35
	20 (11.1)	60.5	5.88	90.6 (32.6)	0.03	78.2	7.59	99.7 (37.6)	0.04	96.0	9.29	108.8 (42.7)	0.07
	40 (22.2)	19.5	0.92	69.5 (20.8)	0.00	32.5	1.55	76.0 (24.4)	0.00	57.3	2.75	88.7 (31.5)	0.01
AH-16A-B5 Five pass	10 (5.6)	84.5	16.5	103.0 (39.4)	0.91	101.8	19.8	112.0 (44.4)	1.31	119.1	23.1	121.0 (49.4)	1.78
	20 (11.1)	70.9	69.1	96.0 (35.6)	0.17	88.5	8.60	105.0 (40.6)	0.25	106.1	10.3	114.1 (45.6)	0.36
	40 (22.2)	40.4	1.95	80.2 (26.8)	0.01	60.6	2.93	90.5 (32.5)	0.03	81.9	3.96	101.5 (38.6)	0.06
AH-20A-B1* One pass	10 (5.6)	87.6	17.1	89.1 (31.7)	0.01	120.9	23.5	100.4 (38.0)	0.01	148.6	28.8	109.8 (43.2)	0.02
	20 (11.1)	32.3	3.07	70.4 (21.3)	0.00	41.0	3.89	73.3 (22.9)	0.00	88.4	8.52	89.2 (31.8)	0.00
	40 (22.2)	21.7	1.01	66.9 (19.4)	0.00	28.0	1.31	68.9 (20.5)	0.00	34.7	1.62	71.1 (21.7)	0.00
AH-20A-B3 Three pass	10 (5.6)	126.0	24.6	102.2 (39.0)	0.30	153.0	29.8	111.4 (44.1)	0.44	179.9	35.0	120.6 (49.2)	0.60
	20 (11.1)	101.6	9.92	93.9 (34.4)	0.05	129.0	12.6	103.2 (39.6)	0.08	156.4	15.2	112.5 (44.7)	0.12
	40 (22.2)	31.7	1.52	70.3 (21.3)	0.00	74.8	3.62	84.7 (29.3)	0.01	106.7	5.16	95.4 (35.2)	0.01
AH-20A-B5 Five pass	10 (5.6)	134.1	26.2	105.0 (40.6)	1.54	160.8	31.4	114.1 (45.6)	2.20	187.5	36.5	123.2 (50.7)	2.97
	20 (11.1)	115.3	11.3	98.6 (37.0)	0.30	142.5	13.9	107.8 (42.1)	0.44	169.6	16.5	117.0 (47.2)	0.62
	40 (22.2)	75.4	3.67	85.0 (29.4)	0.03	108.1	5.26	96.0 (35.6)	0.07	135.8	6.59	105.4 (40.8)	0.10
AH-24A-B1* One pass	10 (5.6)	126.2	24.5	91.2 (32.9)	0.01	160.0	31.1	99.6 (37.6)	0.01	193.9	37.5	108.1 (42.3)	0.02
	20 (11.1)	47.5	4.50	71.4 (21.9)	0.00	90.1	8.65	81.9 (27.7)	0.00	132.5	12.7	92.5 (33.6)	0.00
	40 (22.2)	32.5	1.51	67.6 (19.8)	0.00	41.8	1.95	69.9 (21.1)	0.00	51.8	2.41	72.2 (22.3)	0.00
AH-24A-B3 Three pass	10 (5.6)	160.2	31.3	99.8 (37.7)	0.35	193.3	37.6	108.1 (42.3)	0.51	226.5	43.9	116.4 (46.9)	0.69
	20 (11.1)	133.5	13.0	93.0 (33.9)	0.06	167.1	16.2	101.4 (28.6)	0.10	200.8	19.5	109.9 (43.3)	0.14
	40 (22.2)	68.2	3.28	76.6 (24.8)	0.00	109.6	5.29	86.9 (30.5)	0.01	153.3	7.40	97.8 (36.6)	0.02
AH-24A-B5 Five pass	10 (5.6)	168.5	32.9	101.9 (38.8)	1.77	201.4	39.2	110.1 (43.4)	2.50	234.3	45.5	118.4 (48.0)	3.35
	20 (11.1)	147.8	14.4	96.6 (35.9)	0.35	181.1	17.6	105.0 (40.6)	0.52	214.4	20.8	113.3 (45.2)	0.72
	40 (22.2)	108.8	5.29	86.8 (30.4)	0.05	142.7	6.92	95.2 (35.1)	0.09	176.7	8.55	103.7 (39.8)	0.13
AH-24A-B7 Seven pass	10 (5.6)	172.4	33.7	102.9 (39.4)	5.01	205.2	40.0	111.1 (43.9)	7.02	238.0	46.2	119.4 (48.6)	9.37
	20 (11.1)	154.6	15.1	98.3 (36.8)	1.04	187.7	18.3	106.7 (41.5)	1.51	220.8	21.4	115.0 (46.1)	20.7
	40 (22.2)	120.3	5.86	89.7 (32.1)	0.17	154.1	7.48	98.1 (36.7)	0.27	187.8	9.10	106.6 (41.4)	0.39
AH-24B-B1* One pass Tandem	10 (5.6)	272.2	53.3	93.3 (34.1)	0.05	331.8	64.8	100.7 (38.2)	0.07	391.3	76.2	108.1 (42.3)	0.10
	20 (11.1)	203.2	19.8	84.7 (29.3)	0.01	275.0	26.8	93.6 (34.2)	0.01	335.5	32.6	101.1 (38.4)	0.02
	40 (22.2)	80.9	3.89	69.6 (20.9)	0.00	112.1	5.39	73.4 (23.0)	0.00	204.3	9.88	84.7 (29.3)	0.00
AH-24B-B3 Three pass Tandem	10 (5.6)	306.5	60.0	97.6 (36.4)	1.51	365.1	71.3	104.8 (40.4)	2.10	243.7	82.5	112.1 (44.5)	2.79
	20 (11.1)	273.1	26.7	93.4 (34.1)	0.32	332.4	32.5	100.7 (38.2)	0.46	391.6	38.1	108.1 (42.3)	0.63
	40 (22.2)	209.4	10.2	85.5 (29.7)	0.05	269.8	13.2	92.9 (33.8)	0.08	330.2	16.1	100.4 (38.0)	0.12
AH-24B-B5 Five pass Tandem	10 (5.6)	314.7	61.7	98.6 (37.0)	7.13	373.1	72.9	105.8 (41.0)	9.86	431.5	84.0	113.1 (45.1)	13.0
	20 (11.1)	287.5	28.2	95.2 (35.1)	1.56	346.3	33.8	102.5 (39.2)	2.23	405.2	39.5	109.8 (43.2)	3.00
	40 (22.2)	234.1	11.5	88.6 (31.4)	0.28	294.0	14.4	95.5 (35.5)	0.34	353.9	17.2	103.4 (39.7)	0.61
AH-24B-B7 Seven pass Tandem	10 (5.6)	—	—	—	—	—	—	—	—	—	—	—	—
	20 (11.1)	294.2	28.8	96.0 (35.6)	4.39	352.9	34.5	103.3 (39.6)	6.21	411.5	40.1	110.6 (43.7)	8.31
	40 (22.2)	245.8	12.0	90.0 (32.2)	0.82	305.5	14.9	97.4 (36.3)	1.23	365.0	17.8	104.8 (40.4)	1.72

General Specifications

- 1. Approvals** CRN (Canada) - Steam and HVAC liquids only. CSA certified Class I, Division 1 & 2, Groups C & D; Class II, Division 1 & 2, Groups E, F, & G; Class III, Division 1 & 2, Temperature Code T3B 329°F (165°C)
- 2. Fan** Three blade aluminum, steel spider and hub with 5/8" (16 mm) bore
- 3. Fan Guard** Two piece design with close wire spacing. 3/8" (9.5 mm) diameter probe will not enter.
Epoxy coated to match cabinet colour
- 4. Mounting Holes** 9/16" (14 mm) diameter holes, two at top and two at bottom of heater
- 5. Cabinet Material and Nozzle** 14-gauge (0.075" / 2 mm) epoxy coated steel
- 6. Motors** CSA and/or UL listed 1725 RPM permanently lubricated ball bearing type with rigid base.
Explosion-proof or general purpose construction. All 50 and 60 hertz standard voltages are available.
- 7. Louvre Blades** Anodized extruded aluminum
- 8. Header Material** 3/16" (5 mm) carbon steel
- 9. Fluid Connections** 1 1/2" or 2" NPT Male or 1 1/2" (40 mm) or 2" (50 mm) 300# RF Flanges
- 10. Maximum Operating Pressure** 550 psi. Contact manufacturer for steam operating restrictions.
- 11. Maximum Operating Temperature** 600°F (315°C)
- 12. Finned Tubes** 5/8" (16 mm) outside diameter (16-gauge, 0.065" / 1.7 mm wall thickness) carbon steel tubes
Tension wound aluminum fins @ 10 fins per inch, or 1" (25 mm) outside diameter (14-gauge, 0.083" / 2 mm wall thickness) carbon steel tubes.
Extruded aluminum fins @ 9 fins per inch or 1" (25 mm) outside diameter (10-gauge, 0.135" / 3.4 mm wall thickness) carbon steel tubes.
Extruded aluminum fins @ 5 fins per inch.
- 13. Optional Disconnect** XS40 Disconnect Switch suitable for 1 or 3 phase motors.