

# AHCC Series

Cased Hydronic Heating Units



## DIVERSIFIED HEAT TRANSFER, INC.

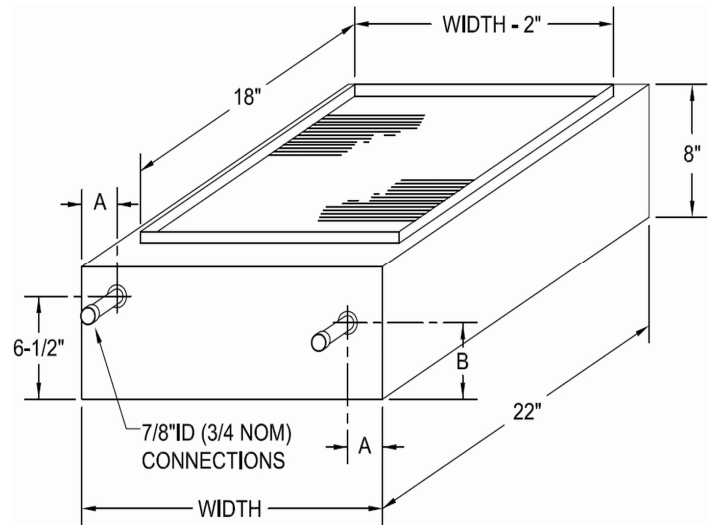
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Manufactures and Designers Since 1938

The AHCC Series Cased Hydronic Heating Units are designed to provide exceptional hydronic heating when matched with any residential air handling system and a hot water source. The unit may be mounted upflow, counterflow or horizontally on the return end of the air handler or within the duct system. The coils are designed and tested in accordance with the current AHRI Standard 410 and manufactured with UL listed components.

- *High Performance Aluminum Fins*
- *Fully Insulated*
- *Embossed Galvanized Casing with Access Panel*
- *Simple Installation in Multiple Configurations*



Available through our large network of wholesale distributors

2 Row Units			
Model	Width	A	B
AHCC-2-143	14.25"	2.00"	5.63"
AHCC-2-155	15.50"	2.63"	
AHCC-2-175	17.50"	2.00"	
AHCC-2-195	19.50"	3.00"	
AHCC-2-210	21.00"	2.00"	
AHCC-2-225	22.50"	2.75"	
AHCC-2-235	23.50"	3.25"	
AHCC-2-245	24.50"	2.00"	
AHCC-2-260	26.00"	2.75"	

3 Row Units			
Model	Width	A	B
AHCC-3-143	14.25"	2.00"	4.75"
AHCC-3-155	15.50"	2.63"	
AHCC-3-175	17.50"	2.00"	
AHCC-3-195	19.50"	3.00"	
AHCC-3-210	21.00"	2.00"	
AHCC-3-225	22.50"	2.75"	
AHCC-3-245	24.50"	2.00"	



### 2 Row Units - Nominal Coil Performance

<b>AHCC-2-143 / AHCC-2-155</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
600	0.05	4.1	4.0	124	41
700	0.09	4.4	4.6	120	44
800	0.11	4.7	5.2	117	47
900	0.15	5.0	5.8	114	50
1000	0.19	5.2	6.4	111	52
1100	0.23	5.5	6.9	109	55
1200	0.27	5.7	7.5	107	57

<b>AHCC-2-175 / AHCC-2-195</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
600	0.08	4.7	6.3	134	47
700	0.10	5.2	7.5	130	52
800	0.12	5.6	8.7	126	56
900	0.15	5.9	9.8	123	59
1000	0.18	6.3	10.8	120	63
1100	0.20	6.6	11.8	117	66
1200	0.23	6.9	12.8	115	69
1300	0.27	7.1	13.8	113	71
1400	0.30	7.4	14.7	111	74
1500	0.33	7.6	15.6	109	76

<b>AHCC-2-210 / AHCC-2-225 / AHCC-2-235</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
800	0.05	6.2	7.3	133	62
900	0.07	6.6	8.3	129	66
1000	0.09	7.0	9.2	126	70
1100	0.11	7.4	10.2	124	74
1200	0.13	7.7	11.1	121	77
1300	0.16	8.1	12.0	119	81
1400	0.18	8.4	12.9	117	84
1500	0.21	8.7	13.7	115	87
1600	0.24	8.9	14.5	114	89
1700	0.27	9.2	15.3	112	92
1800	0.30	9.4	16.1	111	94

<b>AHCC-2-245 / AHCC-2-260</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
1000	0.10	7.6	8.1	131	76
1100	0.12	8.0	9.0	129	80
1200	0.14	8.4	9.8	126	84
1300	0.15	8.8	10.7	124	88
1400	0.17	9.1	11.5	122	91
1500	0.19	9.5	12.3	120	95
1600	0.21	9.8	13.1	119	98
1700	0.24	10.1	13.8	117	101
1800	0.26	10.4	14.6	115	104
1900	0.28	10.7	15.3	114	107
2000	0.31	10.9	16.0	113	109
2100	0.33	11.2	16.7	112	112

Data based upon 65°F entering air, 180°F entering water, 160°F leaving water - See page 4 for calculating other factors



### 3 Row Units - Nominal Coil Performance

<b>AHCC-3-143 / AHCC-3-155</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
600	0.11	5.5	5.9	145	55
700	0.15	6.1	7.1	141	61
800	0.20	6.6	8.3	137	66
900	0.25	7.1	9.4	134	71
1000	0.31	7.5	10.6	131	75

<b>AHCC-3-175 / AHCC-3-195</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
600	0.12	5.8	4.9	150	58
700	0.15	6.5	6.0	146	65
800	0.18	7.0	7.1	142	70
900	0.22	7.6	8.1	139	76
1000	0.26	8.1	9.2	136	81
1100	0.30	8.6	10.2	133	86
1200	0.35	9.0	11.2	131	90

<b>AHCC-3-210 / AHCC-3-225</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
800	0.14	7.8	9.7	150	78
900	0.09	8.4	11.3	147	84
1000	0.15	9.0	12.8	144	90
1100	0.19	9.6	14.4	141	96
1200	0.22	10.0	15.9	139	100
1300	0.26	10.6	17.4	136	106
1400	0.29	11.1	18.9	134	111

<b>AHCC-3-245</b>					
CFM	Air "wg	GPM	Fluid DP'	Lvg Air Temp °F	Heat MBH
1000	0.15	9.5	7.0	148	95
1100	0.18	10.1	7.9	145	101
1200	0.20	10.7	8.8	143	107
1300	0.23	11.3	9.7	141	113
1400	0.26	11.8	10.6	139	118
1500	0.29	12.3	11.5	137	123
1600	0.32	12.8	12.4	135	128
1700	0.35	13.2	13.2	133	132
1800	0.38	13.7	14.1	131	137

Data based upon 65°F entering air, 180°F entering water, 160°F leaving water - See page 4 for calculating other factors



### Coil Performance - Formulas & Correction Factors

The performance listed on pages 2 and 3 are based upon:

- 65°F Entering Air Temperature
- 180°F Entering Water Temperature
- 160° Leaving Water Temperature (20°F ΔT)

Use the following correction factors and formulas to adjust per the expected operating conditions.

#### Adjust for Entering Air Temperature °F

Adjust For	Entering Air Temperature Correction Factors			
	67°F	70°F	73°F	75°F
GPM	0.98	0.95	0.91	0.89
DP'	0.96	0.90	0.85	0.81
LAT °F	1.01	1.02	1.03	1.04

#### Adjust for Entering Water Temperature °F

Adjust For	Entering Water Temperature Correction Factors		
	160°F	140°F	120°F
GPM	0.79	0.58	0.38
DP'	0.66	0.38	0.19
LAT °F	0.90	0.80	0.69

#### Adjust for 30°F ΔT Water:

- Multiply PD' x 0.40 for adjusted Water Pressure Drop in Feet
- Multiply Lvg Air Temp °F x 0.96 for adjusted Leaving Air Temperature °F
- Multiply GPM x 0.61 for required Gallons per Minute of Water Flow
- Multiply New GPM x 15 for adjusted Heat MBH

#### Propylene Glycol Correction Factors:

Adjust For	PG Percentage Correction Factors				
	10%	20%	30%	40%	50%
GPM	0.98	0.97	0.96	0.96	0.93
DP'	1.00	1.02	1.05	1.09	1.11
MBH	0.98	0.97	0.95	0.92	0.89
LAT °F	0.99	0.98	0.97	0.96	0.95

#### Notes:

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