

HE Series A1 Refrigerants
Evaporator Coils

Specification Guide

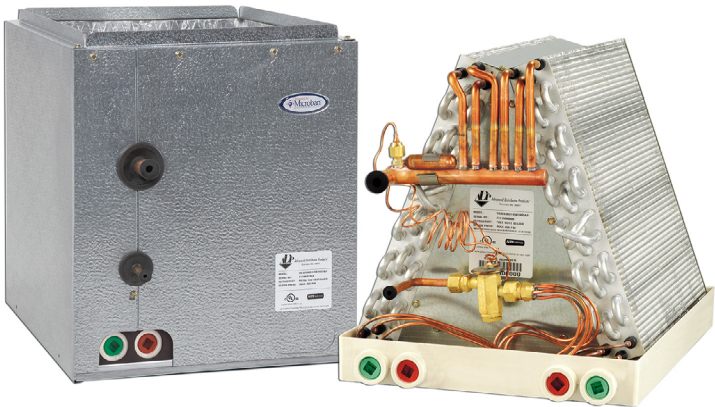


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Product improvement is a continuous process at Advanced Distributor Products. Therefore, product specifications are subject to change without notice and without obligation on our part. Please contact your ADP representative or distributor to verify details.

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HE Series - Product Features

- High efficiency lanced fin design.
- “No-hassle” 5 year warranty. 10 year Limited Warranty available.
- R-22, R-410A, AC & Heat Pump compatible.
- All coils have durable packaging with bar coded labels on the box.
- Threaded expansion valves available factory installed or as a field installed kit.
- Coils are air pressure tested at 500 psi, leak tested with helium, sealed with rubber plugs, then charged with dry air.
- Piston options include externally accessible body for easy piston change out and/or TXV installation.
- Microban® antimicrobial additive to inhibit the growth of mold and mildew in the drain pan.
- UV resistant drain pans are molded of high temperature (450 deg. F) engineered polymer.
- Dual 3/4” FPT condensate drains on front-left and front-right side of drain pans.
- Patented HydroTEC™ low water retention drain pan.
- Copper refrigerant connections for easy brazing on both copper and aluminum slab models.
- Intertek lab tested 1% or less cabinet air leakage for better efficiency.
- Cased coil cabinets are fully lined with 5/8” foil faced insulation.
- Optional painted or embossed galvanized steel cabinets.
- Short cabinet with easy access.
- Non-captive refrigerant lines with long stubs make for easy installation.
- Enhanced refrigerant pipe grommets: secure, tight, and easy to install.
- Copper distributor tube assembly provides brass to brass threads for trouble-free service of TXV.
- Expansion valve with improved temperature sensing:
 1. Mounted inside cabinet to prevent external sweating
 2. Bulb clamped standard factory installed
- Multi-position coils are upflow, left or right airflow capable.
- See chart for downflow capable coils (page 8).
- Cabinet insulation hold down tabs for easy drain pan removal.
- Interlocking doors reduce air leakage and allow for easy access.
- Foam drain seal for reduced air leakage.
- All multi-position coils are field convertible from horizontal right-to-left airflow and horizontal left-to-right airflow.
- Suction line refrigerant connections are 3/4” ODF (A-Coil 18-36 size models) or 7/8” ODF (A-Coil 42-60 size models)
- Corrosion resistant coil header plates.

HE Series - Nomenclature

H	G30	9	24	D	145	B	12	05	S														
Cabinet Color H = Embossed A = Armstrong D = Ducane/Aire-Flo G = ICP J = Goodman / Amana N = Nordyne P = Carrier / Bryant / Payne R = Rheem / Ruud T = Trane / American Standard Y = York / Luxaire / Coleman					Service Coil																		
Slab Number Core/Non-Core: See specs E & A = Copper slab G = Aluminum slab					Configuration^[3] Core/Non-Core: Based on color, see below 00 = Right-hand uncased 01 = Right-hand cased 04 = Left-hand uncased 05 = Left-hand cased 20 = Right-hand cased multi-position 22 = Left-hand cased multi-position																		
Metering Device 1 = Piston (R-410A) ^[1] 7 = Bleed HP-A/C TXV (R-410A) 9 = Non-bleed HP-A/C TXV (R-410A)					Cabinet Height^[4] 00 = Uncased 12 = 12.5" 16 = 16.5" 18 = 18.5" (up to 31.5")																		
Nominal Capacity (MBTUH)					Cabinet Upper Notch A = Uncased B = .75" (standard)																		
Cabinet Depth Core/Non-Core: Based on color, see below A = Uncased C = 20.5" ^[2] D = 21.0" E = 21.5"					Width <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"><u>Cased</u></th> <th style="width: 50%;"><u>Uncased</u></th> </tr> </thead> <tbody> <tr> <td>140 = 14"</td> <td>130 = 13"</td> </tr> <tr> <td>142 = 14.25"</td> <td>140 = 14"</td> </tr> <tr> <td>145 = 14.5"</td> <td>155 = 15.5"</td> </tr> <tr> <td>175 = 17.5"</td> <td>170 = 17"</td> </tr> <tr> <td>210 = 21"</td> <td>200 = 20"</td> </tr> <tr> <td>245 = 24.5"</td> <td>235 = 23.5"</td> </tr> </tbody> </table>					<u>Cased</u>	<u>Uncased</u>	140 = 14"	130 = 13"	142 = 14.25"	140 = 14"	145 = 14.5"	155 = 15.5"	175 = 17.5"	170 = 17"	210 = 21"	200 = 20"	245 = 24.5"	235 = 23.5"
<u>Cased</u>	<u>Uncased</u>																						
140 = 14"	130 = 13"																						
142 = 14.25"	140 = 14"																						
145 = 14.5"	155 = 15.5"																						
175 = 17.5"	170 = 17"																						
210 = 21"	200 = 20"																						
245 = 24.5"	235 = 23.5"																						

^[1] Piston will always be sized to match the nominal BTU rating of the coil. See table below.

^[2] "C" depth not available with aluminum slabs.

^[3] "Right" and "Left" indicates position of refrigerant connections and exposed drain connections when viewed from front of coil.

^[4] Cabinet height not a selectable option, see cased dimensions.

"Core" options are preferred and will have better pricing and availability versus "Non-Core" options.

Color	Core Depth	Core Hand
A	D	R
D	D	R
G	D	L
H	C, D, E	R, L
J	D	R
N	D	R
P	D	L
R	D	L
T	D	L
Y	E	L

R-410A Pistons		
MBTUH		Size
12	=	41
18	=	49
24	=	53
30	=	59
36	=	67
42	=	73
48	=	76
60	=	93

HE Series – Cased Specifications

A = Width

B = Depth

C = Height (excluding 3/4" top flange)

Supply Opening: (A - 1.5") x (B - 1.5")

Return Opening: (A - 1.0") x (B - 0.5")



^[1] E & A = Copper slab; G = Aluminum slab.

	Cased Dimensions							Weights						
	Slab ^[1] Number	Nominal MBTUH	Width [A]		Height [C]		Notes	Copper Slab		Alum Slab				
			Vertical	Multi-Position	Vertical	Multi-Position		Cased Vertical	Cased Multiple	Cased Vertical	Cased Multiple			
Core Slabs	A10	36	14.25" - 21.0"	14.5" - 21.0"	16.5"	16.5"	--	38	44	30	35			
	(E,G) 21	18	14" - 17.5"	14" - 21.0"	16.5"	16.5"	--	30	35	24	28			
		24												
		30												
	(E,G) 22	18	14" - 24.5"	14" - 24.5"	16.5"	16.5"	--	33	38	26	30			
		24												
		30												
		36												
	(E,G) 30	18	14" - 17.5"	14" - 17.5"	12.5"	16.5"	--	29	36	23	29			
		24												
	(E,G) 31	18	14" - 21.0"	14" - 21.0"	16.5"	16.5"	--	34	38	27	30			
		24												
		30												
	(E,G) 32	24	14" - 21.0"	14" - 21.0"	16.5"	16.5"	--	40	46	32	37			
		30												
		36												
	(E,G) 7J	24	14" - 21.0"	14.5" - 21.0"	16.5"	16.5"	--	40	46	32	37			
		30												
		36												
	(E,G) 33	30	14" - 24.5"	14" - 24.5"	18.5"	20.5"	--	44	50	35	40			
		36	14.25" - 24.5"	14.25" - 24.5"										
	(E,G) 8J	30	14" - 24.5"	14" - 24.5"	18.5"	20.5"	--	44	50	35	40			
		36	14.25" - 24.5"	14.5" - 24.5"										
	(E,G) 34	36	14.25" - 24.5"	14.5" - 24.5"	20.5"	20.5"	--	48	56	38	45			
		42	17.5" - 24.5"	17.5" - 24.5"										
	(E,G) 9J	30	14" - 24.5"	14" - 24.5"	20.5"	20.5"	--	48	56	38	45			
		36	14.25" - 24.5"	14.5" - 24.5"										
		42	17.5" - 24.5"	17.5" - 24.5"										
	(E,G) 35	36	14.25" - 24.5"	14.5" - 24.5"	22.5"	22.5"	--	53	60	42	48			
		42	17.5" - 24.5"	17.5" - 24.5"										
		48												
	(E,G) 1K	36	14.25" - 24.5"	14.5" - 24.5"	22.5"	22.5"	--	53	60	42	48			
		42	17.5" - 24.5"	17.5" - 24.5"										
		48												
	(E,G) 36	36	14.25" - 24.5"	14.5" - 24.5"	25.5"	25.5"	--	57	64	46	51			
		42	17.5" - 24.5"	17.5" - 24.5"										
		48												
		60	21.0" - 24.5"	21.0" - 24.5"										
	(E,G) 2K	48	17.5" - 24.5"	17.5" - 24.5"	25.5"	25.5"	--	57	64	46	51			
		60	21.0" - 24.5"	21.0" - 24.5"										
	(E,G) 48	36	17.5" - 24.5"	17.5" - 24.5"	27.5"	27.5"	--	60	66	48	53			
		42												
		48												
		60												
	(E,G) 84	42	17.5" - 24.5"	17.5" - 24.5"	25.5"	25.5"	--	59	65	47	52			
		48												
		60										21.0" - 24.5"	21.0" - 24.5"	

^[1] E & A = Copper slab; G = Aluminum slab.

	Slab ^[1] Number	Nominal MBTUH	Cased Dimensions				Notes
			Width [A]		Height [C]		
			Vertical	Multi-Position	Vertical	Multi-Position	
Non-Core Slabs	A11	36	14.5"- 24.5"	14.5" - 24.5"	18.5"	20.5"	--
		42	17.5"- 24.5"	17.5" - 24.5"			
	A12	36	14.5"- 24.5"	14.5" - 24.5"	20.5"	20.5"	--
		42	17.5"- 24.5"	17.5" - 24.5"			
		48					
	A14	42	17.5"- 24.5"	17.5" - 24.5"	25.5"	25.5"	--
		48					
		60	21.0"- 24.5"	21.0" - 24.5"			
	(E,G) 20	18	14.5"- 17.5"	17.5" - 21.0"	12.5"	16.5"	--
		24					
	(E,G) 23	24	14"- 17.5"	14" - 24.5"	18.5"	20.5"	--
		30					
		36	14.25"- 24.5"	14.5" - 24.5"			
	(E,G) 24	24	14.25"- 21.0"	14.5" - 21.0"	20.5"	20.5"	--
		30					
		36					
		42	17.5"- 24.5"	17.5" - 24.5"			
		48					
	(E,G) 25	42	17.5"- 24.5"	17.5" - 24.5"	22.5"	22.5"	--
		48					
	(E,G) 26	48	17.5"- 24.5"	17.5" - 24.5"	25.5"	25.5"	--
		60	21.0"- 24.5"	21.0" - 24.5"			
	(E,G) 27	48	17.5"- 24.5"	17.5" - 24.5"	25.5"	25.5"	--
		60	21.0"- 24.5"	21.0" - 24.5"			
	(E,G) 37	36	17.5"- 24.5"	17.5" - 24.5"	25.5"	25.5"	--
		42	17.5"- 24.5"	17.5" - 24.5"			
		48	17.5"- 24.5"	17.5" - 24.5"			
		60	21.0"- 24.5"	21.0" - 24.5"			
	(E,G) 3K	48	17.5"- 24.5"	17.5" - 24.5"	25.5"	25.5"	--
		60	21.0"- 24.5"	21.0" - 24.5"			
	(E,G) 47	36	17.5"- 21.0"	17.5" - 21.0"	31.5"	31.5"	--
	(E,G) 49	48	21.0"- 24.5"	21.0" - 24.5"	27.5"	27.5"	--
		60					
	(E,G) 50	48	21.0"- 24.5"	21.0" - 24.5"	27.5"	27.5"	--
		60					
	(E,G) 51	42	21.0"- 24.5"	21.0" - 24.5"	31.5"	31.5"	--
		48					
		60					
	(E,G) 52	48	21.0"- 24.5"	--	31.5"	--	Not available in multi-position.
		60					
	(E,G) 53	36	14.25"- 21.0"	--	31.5"	--	Not available in multi-position.
		42					
48		17.5"- 24.5"	--				
(E,G) 54	48	21.0"- 24.5"	21.0" - 24.5"	31.5"	31.5"	--	
	60						
(E,G) 55	48	21.0"- 24.5"	21' - 24.5"	31.5"	31.5"	--	
	60						
(E,G) 72	60	24.5"	--	25.5"	--	Not available in multi-position.	
(E,G) 74	60	24.5"	--	18.5"	--	Not available in multi-position.	
(E,G) 80	36	14.5"- 21"	14.5" - 21"	20.5"	20.5"	--	
(E,G) 81	36	14.5"- 21"	14.5" - 21"	20.5"	20.5"	--	
(E,G) 82	36	14.5"- 21"	14.5" - 21"	25.5"	25.5"	--	
(E,G) 83	36	14.5"- 21"	14.5" - 21"	25.5"	25.5"	--	
(E,G) 86	48	17.5"- 24.5"	17.5" - 24.5"	27.5"	27.5"	--	
	60	21.0"- 24.5"	21.0" - 24.5"				
(E,G) 88	48	** 17.5"- 24.5"	** 17.5" - 24.5"	** 27.5"	** 27.5"	** If cabinet width is 17.5" cabinet height is 31.5".	
	60	** 21.0"- 24.5"	21.0" - 24.5"				
(E,G) 91	18	14"- 21.0"	14" - 21.0"	16.5"	16.5"	--	
	24						
	30						
(E,G) 92	24	14"- 21.0"	14" - 21.0"	16.5"	16.5"	--	
	30						
	36	14.25 - 21.0"	14.5" - 21.0"				

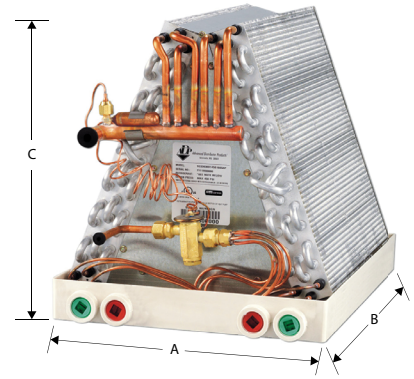
Weights			
Copper Slab		Alum Slab	
Csd Vert	Csd MP	Csd Vert	Csd MP
42	48	34	38
46	52	37	42
54	60	43	48
26	31	21	25
38	45	30	36
40	47	32	38
46	54	37	43
47	54	38	43
52	57	42	46
61	65	49	52
61	65	49	52
66	72	53	58
63	69	50	55
66	72	52	58
73	79	58	63
77	--	62	--
62	--	50	--
70	75	56	60
70	75	56	60
60	--	48	--
59	--	47	--
48	53	38	42
51	56	41	45
54	59	43	47
57	63	46	50
63	70	50	56
66	74	53	59
34	38	27	30
40	46	32	37

HE Series – Uncased Specifications

A = Width

B = Depth

C = Height (excluding 3/4" top flange)



[1] E & A = Copper slab; G = Aluminum slab.

Core Slabs	Slab ^[1] Number	Nominal MBTUH	Uncased Dimensions and Airflow Data										Weights	
			CFM	Face Vel. (fpm)	Wet Coil Air Pressure Drop (inches W.C.) by Drain Pan Width [A]						Pan Depth [B]	Coil Height [C]	Copper Slab	Alum Slab
					13"	14"	15.5"	17"	20"	23.5"				
	A10	36	1200	386	-	.23	.21	.19		-	19.5"	15"	26	21
	(E,G) 21	18	600	224	.20	.18	.15	.14	-	-	19.5"	13"	20	16
		24	800	299	.23	.20	.18	.17	-	-				
		30	1000	375	.27	.25	.23	.22	-	-				
	(E,G) 22	18	600	193	.18	.15	.12	.11	-	-	19.5"	15"	23	18
		24	800	257	.22	.18	.15	.14	-	-				
		30	1000	321	.28	.22	.20	.19	-	-				
	(E,G) 30	18	600	270	.28	.26	.23	-	-	-	19.5"	11"	22	18
		24	800	360	.30	.28	.26	-	-	-				
	(E,G) 31	18	600	224	.27	.22	.19	.18	-	-	19.5"	13"	24	19
		24	800	299	.30	.25	.21	.20	-	-				
		30	1000	375	.30	.29	.25	.24	-	-				
	(E,G) 32	24	800	257	.25	.21	.19	.17	-	-	19.5"	15"	28	22
		30	1000	321	.30	.25	.23	.20	-	-				
		36	1200	386	-	.30	.29	.27	-	-				
	(E,G) 7J	24	800	257	.29	.24	.22	.19	-	-	19.5"	15"	28	22
		30	1000	321	.34	.29	.26	.23	-	-				
		36	1200	386		.34	.33	.31	-	-				
	(E,G) 33	30	1000	281	.29	.24	.22	.19	.15	-	19.5"	17"	32	26
		36	1200	337	-	.30	.28	.24	.20	-				
	(E,G) 8J	30	1000	281	.33	.27	.25	.22	.17	-	19.5"	17"	32	26
		36	1200	337		.34	.32	.27	.23	-				
	(E,G) 34	36	1200	300	-	.29	.27	.25	.17	-	19.5"	19"	35	28
		42	1400	350	-	-	.30	.28	.26	-				
	(E,G) 9J	30	1000	250	.31	.25	.24	.21	.15	-	19.5"	19"	35	28
		36	1200	300	-	.33	.31	.29	.19	-				
		42	1400	350	-	-	.34	.32	.30					
	(E,G) 35	36	1200	270	-	.27	.26	.24	.20	-	19.5"	21"	39	31
		42	1400	315	-	-	.30	.27	.25	-				
		48	1600	360	-	-	-	.30	.30	-				
	(E,G) 1K	36	1200	270	-	.31	.30	.27	.23	-	19.5"	21"	39	31
		42	1400	315	-		.34	.31	.29	-				
		48	1600	360	-	-	-	.34	.34	-				
	(E,G) 36	36	1200	245	-	.26	.26	.22	.14	-	19.5"	23"	41	33
		42	1400	286	-	-	.30	.25	.24	-				
		48	1600	327	-	-	-	.28	.27	-				
		60	2000	409	-	-	-	-	.30	-				
	(E,G) 2K	48	1600	327	-	-	-	.30	.29	-	19.5"	23"	41	33
		60	2000	409	-	-	-	-	.32	-				
	(E,G) 48	36	1200	208	-	.27	.25	.21	.13	-	19.5"	27"	44	35
		42	1400	242	-	-	.29	.27	.23	-				
		48	1600	277	-	-	-	.29	.26	-				
		60	2000	346	-	-	-	-	.28	-				
	(E,G) 84	42	1400	287	-	-	-	.40	.37	-	19.5"	23"	48	38
		48	1600	328	-	-	-	.49	.39	-				
		60	2000	409	-	-	-	-	.42	-				

^[1] E & A = Copper slab; G = Aluminum slab.

			Uncased Dimensions and Airflow Data											
	Slab ^[1] Number	Nominal MBTUH	CFM	Face Vel. (fpm)	Wet Coil Air Pressure Drop (inches W.C.) by Drain Pan Width [A]						Pan Depth [B]	Coil Height [C]	Weights	
					13"	14"	15.5"	17"	20"	23.5"			Copper Slab	Alum Slab
Non-Core Slabs	A11	36	1200	337	-	.22	.20	.16	.15	-	19.5"	17"	30	24
		42	1400	393	-	-	.26	.20	.19	-			33	26
	42	1400	350	-	-	.25	.20	.16	-	18	14			
	48	1600	400	-	-	-	.26	.22	-	26	21			
	48	1600	327	-	-	-	.23	.19	-					
	60	2000	409	-	-	-	-	.24	-					
	24	800	360	.26	.24	.21	-	-	-	33	26			
	30	1000	281	.26	.21	.19	.17	.15	-	45	36			
	36	1200	337	-	.27	.25	.22	.20	-			45	36	
	30	1000	250	-	.22	.18	.16	.14	-	47	38			
	36	1200	300	-	.29	.25	.20	.19	-	50	40			
	42	1400	350	-	-	.30	.25	.25	-	55	44			
	48	1600	400	-	-	-	.31	.31	-			62	50	
	48	1600	360	-	-	-	.29	.28	-	50	40			
	60	2000	409	-	-	-	-	.29	-	48	38			
	60	2000	375	-	-	-	-	.29	-	44	35			
	42	1400	262	-	-	.30	.28	.24	-	61	49			
	48	1600	300	-	-	-	.30	.27	-			54	43	
	60	2000	375	-	-	-	-	.29	-	24	19			
	60	2000	375	-	-	-	--	.31	-					
	60	2000	375	-	-	-	-	.32	-					
	60	2000	346	-	-	-	-	.30	-					
	48	1600	257	-	-	-	-	.27	-	50	40			
	60	2000	322	-	-	-	-	.29	-			50	40	
	60	2000	300	-	-	-	-	.32	-	50	40			
	42	1400	210	-	-	-	.22	.21	-	50	40			
	48	1600	240	-	-	-	.31	.29	-			50	40	
	60	2000	322	-	-	-	-	.30	-	50	40			
	60	2000	300	-	-	-	-	.35	-	48	38			
	60	2000	376	-	-	-	-	.41	-					
	60	2000	347	-	-	-	-	.39	-					
	24	800	299	.30	.25	.21	.20	-	-					
	30	1000	375	.30	.29	.25	.24	-	-					
	30	1000	321	.30	.25	.23	.20	-	-					
	36	1200	386	-	.30	.29	.27	-	-					

Weights	
Copper Slab	Alum Slab
Uncased	Uncased
30	24
33	26
38	30
18	14
26	21
27	22
32	26
33	26
36	29
45	36
45	36
50	40
47	38
50	40
55	44
62	50
50	40
50	40
50	40
48	38
47	38
40	32
42	34
44	35
46	37
61	49
54	43
24	19
28	22

HE Series – Downflow Chart

- The below chart lists downflow capable coils with approved air flow settings.
- Some applications require a field installed kit.
- Downflow applications not listed on this chart are not recommended.

Slab Number	Downflow Available						
	600	800	1000	1200	1400	1600	2000
(E,G) 1K	--	--	--	Y	--	--	--
(E,G) 20	Y	--	--	--	--	--	--
(E,G) 21	Y	Y	--	--	--	--	--
(E,G) 22	Y	Y	Y	--	--	--	--
(E,G) 23	--	Y	Y	--	--	--	--
(E,G) 24	--	Y	Y	Y	--	--	--
(E,G) 25	--	--	--	--	Y	--	--
(E,G) 26	--	--	--	--	--	Y	--
(E,G) 27	--	--	--	--	--	Y	--
(E,G) 30	Y	--	--	--	--	--	--
(E,G) 31	Y	Y	--	--	--	--	--
(E,G) 32	Y	Kit	--	--	--	--	--
(E,G) 33	--	--	Y	--	--	--	--
(E,G) 34	--	--	--	Kit	--	--	--
(E,G) 35	--	--	--	Y	Kit	--	--
(E,G) 36	--	--	--	Y	Y	Kit	--
(E,G) 37	--	--	--	Y	Y	Y	--
(E,G) 3K	--	--	--	--	--	Kit	--
(E,G) 47	--	--	--	Kit	--	--	--
(E,G) 53	--	--	--	Y	Y	Y	--
(E,G) 54	--	--	--	--	--	Y	Y
(E,G) 55	--	--	--	--	--	Y	Y
(E,G) 72	--	--	--	--	--	--	Y
(E,G) 8J	--	--	Y	--	--	--	--
(E,G) 9J	--	--	Y	--	--	--	--
A12	--	--	--	Y	--	--	--
A14	--	--	--	--	Y	Y	--

Downflow Not Available	
(E,G) 2K	
(E,G) 48	
(E,G) 49	
(E,G) 50	
(E,G) 51	
(E,G) 52	
(E,G) 74	
(E,G) 7J	
(E,G) 80	
(E,G) 81	
(E,G) 82	
(E,G) 83	
(E,G) 84	
(E,G) 86	
(E,G) 88	
(E,G) 91	
(E,G) 92	
A10	
A11	

Y = Downflow capable.

Kit = Downflow capable with field installed kit Part #76701323.

Dash (--) Downflow not approved at this air flow.

HE Series – Pallet Quantities

Cased								
Cabinet Width	Pallet Qty by Cabinet Height (in)							
	12.5	16.5	18.5	20.5	22.5	25.5	27.5	31.5
14.00"	18	12	12	6	6	6	-	-
14.25"	18	12	12	6	6	6	-	-
14.50"	18	12	12	6	6	6	4	-
17.50"	8	8	8	4	4	4	4	-
21.00"	-	8	8	4	4	4	4	4
24.50"	-	8	8	4	4	4	4	4
25.50"	-	4	4	4	4	4	4	4

Uncased											
Drain Pan Width	Pallet Qty by Coil Height (in)										
	11	13	15	17	19	21	23	25	27	29	31
13.00"	18	18	12	12	12	6	6	6	6	-	-
14.00"	18	18	12	12	12	6	6	6	6	-	-
15.50"	18	18	12	12	12	4	4	4	4	-	4
17.00"	8	8	8	8	8	4	4	4	4	-	-
20.00"	-	-	-	8	8	4	4	4	4	4	4
20.50"	-	-	-	-	-	-	4	4	4	4	4
23.50"	-	-	-	-	8	4	4	4	4	4	4

