

Specification Guide

HE Series Evaporator Coils



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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.
- R-454B, R-32, AC & Heat Pump compatible with Refrigerant Detection System Kit.
- Refrigerant detection sensor bracket factory installed.
- 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 N

Cabinet Color

H = Embossed
 A = Armstrong
 G = ICP
 J = Goodman/Amana
 N = Nordyne
 P = Carrier/Bryant/Payne
 R = Rheem/Ruud
 T = Trane/American Std.
 Y = York/Luxaire/Coleman

Slab Number

Core/Non-Core: See specs
 E & A = Copper slab
 G = Aluminum slab

Metering Device

1 = Piston (R-410A) ^[1]
 7 = Bleed HP-A/C TXV (R-410A)
 9 = Non-bleed HP-A/C TXV (R-410A)
 A = Non-bleed HP-A/C TXV (R-454B)
 B = Non-bleed HP-A/C TXV (R-32)

Nominal MBTUH

Cabinet Depth

Core/Non-Core: Based on color, see below
 A = Uncased
 C = 20.5" ^[2]
 D = 21.0"
 E = 21.5"

Refrigerant Detection System (Field Configured)

R = Included (Factory Installed)
 N = Not Included (Field Installed)

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

Cabinet Height ^[4]

00 = Uncased
 12 = 12.5"
 16 = 16.5"
 18 = 18.5" (up to 31.5")

Cabinet Upper Notch

A = Uncased
 B = .75" (standard)

Width

<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"	205 = 20.5"
255 = 25.5"	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.

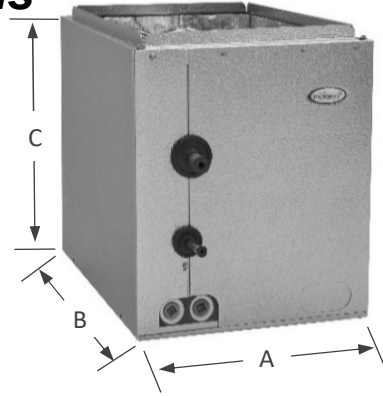
Color	Core Depth	Core Hand
A	D	R
G	D	L
H	C, D, E	R,L
J	D	R
N	D	R
P	D	L
R	D	L
T	D	L
Y	E	L

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.

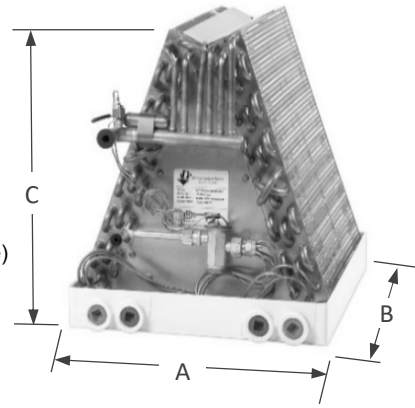
Cased Dimensions

Slab ^[1] Number	Nominal MBTUH	Width [A]		Height [C]		Notes
		Vertical	Multi-Position	Vert	Multi-Pos	
A10	36	14.25" - 21.0"	14.5" - 21.0"	16.5"	16.5"	--
(E,G) 21	18	14" - 17.5"	14" - 21.0"	16.5"	16.5"	--
	24					
	30					
(E,G) 22	18	14" - 24.5"	14" - 24.5"	16.5"	16.5"	--
	24					
	30					
	36					
(E,G) 30	18	14" - 17.5"	14" - 17.5"	12.5"	16.5"	--
	24					
(E,G) 31	18	14" - 21.0"	14" - 21.0"	16.5"	16.5"	--
	24					
	30					
(E,G) 32	24	14" - 21.0"	14" - 21.0"	16.5"	16.5"	--
	30					
	36					
(E,G) 7J	24	14" - 21.0"	14.5" - 21.0"	16.5"	16.5"	--
	30					
	36					
(E,G) 33	30	14" - 24.5"	14" - 24.5"	18.5"	20.5"	--
	36					
(E,G) 8J	30	14" - 24.5"	14" - 24.5"	18.5"	20.5"	--
	36					
(E,G) 34	36	14.25" - 24.5"	14.5" - 24.5"	20.5"	20.5"	--
	42					
(E,G) 9J	30	14" - 24.5"	14" - 24.5"	20.5"	20.5"	--
	36					
	42					
(E,G) 35	36	14.25" - 24.5"	14.5" - 24.5"	22.5"	22.5"	--
	42					
	48					
(E,G) 1K	36	14.25" - 24.5"	14.5" - 24.5"	22.5"	22.5"	--
	42					
	48					
(E,G) 36	36	14.25" - 24.5"	14.5" - 24.5"	25.5"	25.5"	--
	42					
	48					
	60					
(E,G) 2K	48	17.5" - 24.5"	17.5" - 24.5"	25.5"	25.5"	--
	60					
(E,G) 48	36	17.5" - 24.5"	17.5" - 24.5"	27.5"	27.5"	--
	42					
	48					
	60					
(E,G) 84	42	17.5" - 24.5"	17.5" - 24.5"	25.5"	25.5"	--
	48					
	60					

Core Slabs

HE Series – Uncased Specifications

A = Width
 B = Depth
 C = Height (excluding 3/4" top flange)



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

Uncased Dimensions and Airflow Data												Weights						
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]	Copper Slab			Alum Slab			
				13"	14"	15.5"	17"	20"	23.5"			Unc	Csd Vert	Csd MP	Unc	Csd Vert	Csd MP	
Core Slabs	A10	36	1200	386	-	.23	.21	.19	-	-	19.5"	15"	26	38	44	21	30	35
	(E,G) 21	18	600	224	.20	.18	.15	.14	-	-	19.5"	13"	20	30	35	16	24	28
		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	33	38	18	26	30
		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	29	36	18	23	29
		24	800	360	.30	.28	.26	-	-	-								
	(E,G) 31	18	600	224	.27	.22	.19	.18	-	-	19.5"	13"	24	34	38	19	27	30
		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	40	46	22	32	37
		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	40	46	22	32	37
		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	44	50	26	35	40
		36	1200	337	-	.30	.28	.24	.20	-								
(E,G) 8J	30	1000	281	.33	.27	.25	.22	.17	-	19.5"	17"	32	44	50	26	35	40	
	36	1200	337	-	.34	.32	.27	.23	-									
(E,G) 34	36	1200	300	-	.29	.27	.25	.17	-	19.5"	19"	35	48	56	28	38	45	
	42	1400	350	-	-	.30	.28	.26	-									
(E,G) 9J	30	1000	250	.31	.25	.24	.21	.15	-	19.5"	19"	35	48	56	28	38	45	
	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	53	60	31	42	48	
	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	53	60	31	42	48	
	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	57	64	33	46	51	
	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	57	64	33	46	51	
	60	2000	409	-	-	-	-	.32	-									
(E,G) 48	36	1200	208	-	.27	.25	.21	.13	-	19.5"	27"	44	60	66	35	48	53	
	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	59	65	38	47	52	
	48	1600	328	-	-	-	.49	.39	-									
	60	2000	409	-	-	-	-	.42	-									

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

Cased Dimensions

Slab ^[1] Number	Nominal MBTUH	Width [A]		Height [C]		Notes
		Vertical	Multi-Position	Vert	Multi-Pos	
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					
(E,G) 23	24	14" - 17.5"	14" - 24.5"	18.5"	20.5"	--
	30					
	36					
(E,G) 24	24	14.25" - 21.0"	14.5" - 21.0"	20.5"	20.5"	--
	30					
	36					
	42					
(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					
	48					
	60					
(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					
(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"	--	
(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					

Non-Core Slabs

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

		Uncased Dimensions and Airflow Data										Weights						
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]	Copper Slab			Alum Slab			
				13"	14"	15.5"	17"	20"	23.5"			Unc	Csd Vert	Csd MP	Unc	Csd Vert	Csd MP	
Non-Core Slabs	A11	36	1200	337	-	.22	.20	.16	.15	-	19.5"	17"	30	42	48	24	34	38
		42	1400	393	-	-	.26	.20	.19	-								
	A12	36	1200	300	-	.21	.19	.17	.09	-	19.5"	19"	33	46	52	26	37	42
		42	1400	350	-	-	.25	.20	.16	-								
	A14	42	1400	286	-	-	.23	.20	.16	-	19.5"	23"	38	54	60	30	43	48
		48	1600	327	-	-	-	.23	.19	-								
		60	2000	409	-	-	-	-	.24	-								
	(E,G) 23	24	800	225	.21	.16	.15	.12	.11	-	19.5"	17"	26	38	45	21	30	36
		30	1000	281	.26	.21	.19	.17	.15	-								
		36	1200	337	-	.27	.25	.22	.20	-								
	(E,G) 24	24	800	200	-	.15	.13	.11	.10	-	19.5"	19"	27	40	47	22	32	38
		30	1000	250	-	.22	.18	.16	.14	-								
		36	1200	300	-	.29	.25	.20	.19	-								
		42	1400	350	-	-	.30	.25	.25	-								
	(E,G) 25	42	1400	315	-	-	.29	.24	.22	-	19.5"	21"	32	46	54	26	37	43
		48	1600	360	-	-	-	.29	.28	-								
	(E,G) 26	48	1600	327	-	-	-	.29	.25	-	19.5"	23"	33	47	54	26	38	43
		60	2000	409	-	-	-	-	.29	-								
	(E,G) 27	48	1600	300	-	-	-	.28	.24	-	19.5"	25"	36	52	57	29	42	46
		60	2000	375	-	-	-	-	.29	-								
	(E,G) 37	36	1200	225	-	.24	.26	.22	.14	-	19.5"	25"	45	61	65	36	49	52
		42	1400	262	-	-	.30	.28	.24	-								
		48	1600	300	-	-	-	.30	.27	-								
		60	2000	375	-	-	-	-	.29	-								
	(E,G) 3K	48	1600	300	-	-	-	.32	.29	-	19.5"	25"	45	61	65	36	49	52
		60	2000	375	-	-	-	-	.31	-								
	(E,G) 47	36	1200	208	-	-	-	.15	-	-	19.5"	27"	50	66	72	40	53	58
	(E,G) 49	48	1600	300	-	-	-	-	-	-	19.5"	25"	47	63	69	38	50	55
		60	2000	375	-	-	-	-	-	-								
	(E,G) 50	48	1600	277	-	-	-	-	-	-	19.5"	27"	50	66	72	40	53	58
60		2000	346	-	-	-	-	-	-									
(E,G) 51	42	1400	225	-	-	-	-	-	-	19.5"	29"	55	73	79	44	58	63	
	48	1600	257	-	-	-	-	-	-									
	60	2000	322	-	-	-	-	-	-									
(E,G) 52	48	1600	240	-	-	-	-	.22	-	19.5"	31"	62	77	--	50	62	--	
	60	2000	300	-	-	-	-	.32	-									
(E,G) 53	36	1200	180	-	.20	-	.19	.18	-	19.5"	31"	50	62	--	40	50	--	
	42	1400	210	-	-	-	.22	.21	-									
	48	1600	240	-	-	-	.31	.29	-									
(E,G) 54	48	1600	257	-	-	-	-	.21	-	19.5"	29"	50	70	75	40	56	60	
	60	2000	322	-	-	-	-	.30	-									
(E,G) 55	48	1600	240	-	-	-	-	.29	-	19.5"	31"	50	70	75	40	56	60	
	60	2000	300	-	-	-	-	.35	-									
(E,G) 72	60	2000	329	-	-	-	-	-	.29	19.5"	23"	48	60	--	38	48	--	
(E,G) 74	60	2000	400	-	-	-	-	-	.51	19.5"	19"	47	59	--	38	47	--	
(E,G) 80	36	1200	338	-	.53	-	.50	-	-	19.5"	17"	40	48	53	32	38	42	
(E,G) 81	36	1200	300	-	.48	-	.41	-	-	19.5"	19"	42	51	56	34	41	45	
(E,G) 82	36	1200	271	-	.45	-	.37	-	-	19.5"	21"	44	54	59	35	43	47	
(E,G) 83	36	1200	246	-	.40	-	.31	-	-	19.5"	23"	46	57	63	37	46	50	
(E,G) 86	48	1600	301	-	-	-	.46	-	-	19.5"	25"	61	63	70	49	50	56	
	60	2000	376	-	-	-	-	-	-									
(E,G) 88	48	1600	277	-	-	-	.45	-	-	19.5"	27"	54	66	74	43	53	59	
	60	2000	347	-	-	-	-	-	-									
(E,G) 91	18	600	224	.27	.22	.19	.18	-	-	19.5"	13"	24	34	38	19	27	30	
	24	800	299	.30	.25	.21	.20	-	-									
	30	1000	375	.30	.29	.25	.24	-	-									
(E,G) 92	24	800	257	.25	.21	.19	.17	-	-	19.5"	15"	28	40	46	22	32	37	
	30	1000	321	.30	.25	.23	.20	-	-									
	36	1200	386	-	.30	.29	.27	-	-									

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							Downflow Not Available
	600	800	1000	1200	1400	1600	2000	
(E,G) 1K	--	--	--	Y	--	--	--	(E,G) 2K
(E,G) 20	Y	--	--	--	--	--	--	(E,G) 48
(E,G) 21	Y	Y	--	--	--	--	--	(E,G) 49
(E,G) 22	Y	Y	Y	--	--	--	--	(E,G) 50
(E,G) 23	--	Y	Y	--	--	--	--	(E,G) 51
(E,G) 24	--	Y	Y	Y	--	--	--	(E,G) 52
(E,G) 25	--	--	--	--	Y	--	--	(E,G) 74
(E,G) 26	--	--	--	--	--	Y	--	(E,G) 7J
(E,G) 27	--	--	--	--	--	Y	--	(E,G) 80
(E,G) 30	Y	--	--	--	--	--	--	(E,G) 81
(E,G) 31	Y	Y	--	--	--	--	--	(E,G) 82
(E,G) 32	Y	Kit	--	--	--	--	--	(E,G) 83
(E,G) 33	--	--	Y	--	--	--	--	(E,G) 84
(E,G) 34	--	--	--	Kit	--	--	--	(E,G) 86
(E,G) 35	--	--	--	Y	Kit	--	--	(E,G) 88
(E,G) 36	--	--	--	Y	Y	Kit	--	(E,G) 91
(E,G) 37	--	--	--	Y	Y	Y	--	(E,G) 92
(E,G) 3K	--	--	--	--	--	Kit	--	A10
(E,G) 47	--	--	--	Kit	--	--	--	A11
(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	--	

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

