SG-VHC-18
January 2021

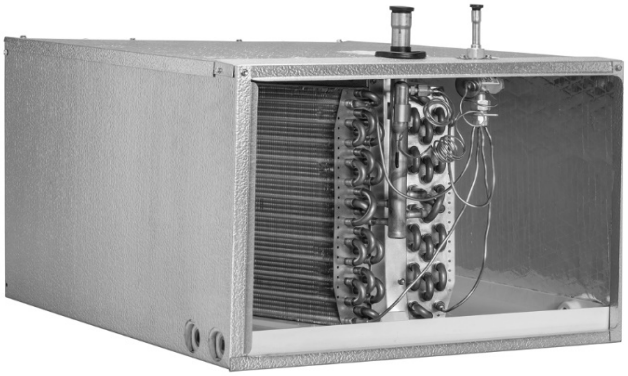
Advanced Distributor Products®

Specification Guide

V Series

Premier Horizontal Evaporator Coils

with Top Connections



Contents **Page**

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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
- Easy to use filler strip, for use if coil dimensions are larger than furnace.
- Easy to remove access panel with only 4 screws.
- Refrigerant connections on top of coil.
- Piston models standard with TXV access port.
- Dedicated cutouts for condensate drains reduce air leakage.
- Refrigerant connections in center of coil.
- Drain pan has trough to fully drain condensate away.
- TXV bulbs come standard attached to header assembly.

Nomenclature

V 24 H 145 D12 9

Cabinet Color

V	=	Embossed
A	=	Armstrong
C	=	Carrier / Bryant / Payne
D	=	Ducane / Aire-Flo
G	=	ICP
J	=	Goodman / Amana
N	=	Nordyne
R	=	Rheem / Ruud
T	=	Trane / American Standard
Y	=	York / Luxaire / Coleman

Nominal MBTUH

Coil Type

H = Horizontal A-Coil

Cabinet Height

145	=	14.50"
175	=	17.50"
210	=	21.00"
245	=	24.50"
252	=	25.25"

Slab Number

D = Copper slab
P = Aluminum slab

Metering Device

1 = Piston (R-410A)*
9 = Non-Bleed HP-A/C TXV (R-410A)

** Piston will always be sized to match the nominal BTU rating of the coil.*

Installed Piston Sizes	
MBTUH	R-410A
12	41
18	49
24	53
30	59
36	67
42	73
48	76
60	93

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

Dimensions

Core Slabs						
Slab * Number	Nominal Tonnage	Dimensions (in) Height	Length	Pallet Qty	Weight (lbs) CU	AL
(D,P) 12	2.0 - 3.0	14.5	26.5	8	50	40
(D,P) 13	2.5 - 3.5	17.5	21.5	16	50	40
(D,P) 14	2.5 - 4.0	17.5	26.5	4	50	40
(D,P) 15	3.0 - 4.0	17.5	26.5	4	56	45
(D,P) 16	3.0 - 5.0	21	26.5	6	61	49
(D,P) 17	3.5 - 5.0	21	26.5	6	64	52
(D,P) 19	3.5 - 5.0	21	26.5	6	60	48
(D,P) 21	1.5 - 3.0	14.5	31.5	8	55	43
(D,P) 29	3.5 - 5.0	21	31.5	4	64	52
(D,P) 30	3.5 - 5.0	21	36.5	6	80	64
(D,P) 38	3.0 - 4.0	17.5	31.5	4	56	45
(D,P) 42	1.5 - 3.0	14.5	26.5	8	50	40
(D,P) 44	1.5 - 3.0	14.5	31.5	8	58	47
(D,P) 45	2.5 - 3.5	17.5	26.5	4	56	45
(D,P) 52	3.5 - 5.0	21	31.5	4	63	51
(D,P) 74	3.0 - 4.0	21	21.5	12	50	40
(D,P) 75	3.0 - 4.0	21	21.5	12	50	40
(D,P) 78	2.0 - 4.0	17.5	31.5	4	70	56

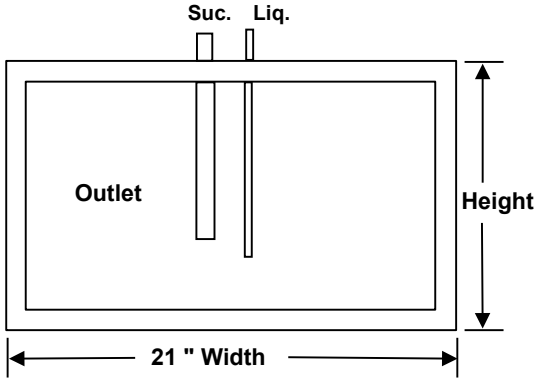
Non- Core Slabs						
Slab * Number	Nominal Tonnage	Dimensions (in) Height	Length	Pallet Qty	Weight (lbs) CU	AL
(D,P) 03	2.0 - 3.0	14.5	26.5	8	49	40
(D,P) 04	2.5 - 3.5	17.5	21.5	16	45	36
(D,P) 05	2.5 - 4.0	17.5	26.5	4	47	38
(D,P) 06	3.0 - 4.0	17.5	26.5	4	50	40
(D,P) 07	3.0 - 5.0	21	26.5	6	51	41
(D,P) 11	1.5 - 2.5	14.5	21.5	16	50	40
(D,P) 18	3.0 - 5.0	24.5	26.5	2	58	47
(D,P) 22	1.5 - 3.0	14.5	36.5	8	57	48
(D,P) 26	2.0 - 4.0	17.5	31.5	4	53	43
(D,P) 27	3.0 - 5.0	21	31.5	4	63	51
(D,P) 43	1.5 - 3.0	14.5	36.5	8	60	48
(D,P) 46	2.0 - 4.0	17.5	36.5	4	63	51
(D,P) 47	3.0 - 4.0	21	26.5	6	60	48
(D,P) 50	3.5 - 5.0	21	31.5	4	63	51
(D,P) 57	3.5 - 4.0	21	31.5	4	63	51
(D,P) 72	2.0 - 3.0	17.5	21.5	16	53	43
(D,P) 76	4.0 - 5.0	24.5	21.5	4	64	52
(D,P) 77	4.0 - 5.0	24.5	26.5	2	74	60
(D,P) 79	3.5 - 5.0	24.5	26.5	2	75	60

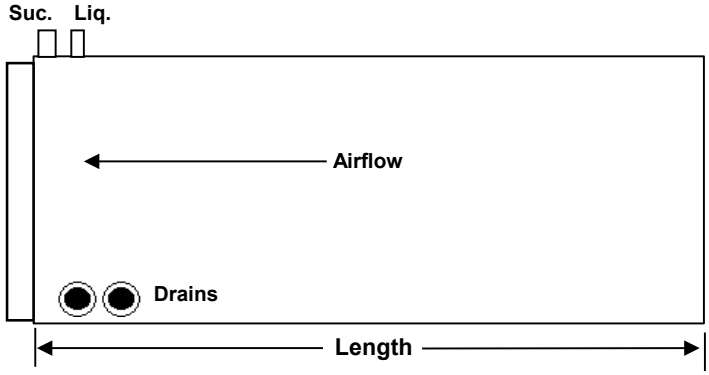
*** D = Copper slab; P = Aluminum slab**

Cabinet Height (in)	14.5	17.5	21	24.5	25.25
Supply opening H x W	13 x 19.5	16 x 19.5	19.5 x 19.5	23 x 19.5	23.75 x 19.5
Return opening H x W	13.5 x 20	16.5 x 20	20 x 20	23.5 x 20	24.25 x 20

Refrigerant Connections
Liquid Line - 3/8" ODF
Suction Line - 7/8" ODF

Drain Connections - 3/4" FPT Condensate drain connections on both the front and back sides of cabinet.





Airflow Data

	Slab * Number	Nominal Tonnage	^ Air Pressure Drop (in WC) by CFM							
			600	800	1000	1200	1400	1600	1800	2000
Core Slabs	(D,P) 12	1.5 - 3.0	0.11	0.17	0.25	0.35	-	-	-	-
	(D,P) 13	1.5 - 3.5	0.08	0.14	0.20	0.27	0.36	-	-	-
	(D,P) 14	2.5 - 4.0	-	-	0.17	0.24	0.32	0.41	-	-
	(D,P) 15	3.0 - 4.0	-	-	0.14	0.20	0.28	0.35	-	-
	(D,P) 16	3.0 - 5.0	-	-	-	0.17	0.23	0.29	0.36	0.43
	(D,P) 17	3.0 - 5.0	-	-	0.10	0.14	0.19	0.24	0.25	0.36
	(D,P) 19	3.5 - 5.0	-	-	-	-	0.22	0.33	0.41	0.48
	(D,P) 21	1.5 - 3.0	0.09	0.13	0.20	0.27	-	-	-	-
	(D,P) 29	3.5 - 5.0	-	-	-	-	0.12	0.15	0.19	0.23
	(D,P) 30	3.5 - 5.0	-	-	-	-	0.15	0.19	0.24	0.29
	(D,P) 38	3.0 - 4.0	-	-	-	0.18	0.25	0.31	-	-
	(D,P) 42	1.5 - 3.0	0.09	0.14	0.20	0.28	-	-	-	-
	(D,P) 44	1.5 - 3.0	0.06	0.10	0.14	0.20	-	-	-	-
	(D,P) 45	2.5 - 3.5	-	-	0.19	0.27	0.35	-	-	-
	(D,P) 52	3.5 - 5.0	-	-	0.12	0.16	0.20	0.26	0.32	0.39
	(D,P) 74	3.0 - 4.0	-	-	0.19	0.25	0.33	0.41	-	-
	(D,P) 75	3.0 - 5.0	-	-	-	0.20	0.26	0.33	-	-
	(D,P) 78	2.0 - 4.0	-	0.09	0.12	0.17	0.23	0.30	-	-
Non-Core Slabs	(D,P) 03	2.0 - 3.0	-	0.16	0.25	0.35	-	-	-	-
	(D,P) 04	2.5 - 3.5	-	-	0.17	0.23	0.34	-	-	-
	(D,P) 05	2.5 - 4.0	-	-	0.13	0.19	0.25	0.32	-	-
	(D,P) 06	2.5 - 4.0	-	0.09	0.13	0.18	0.24	0.27	-	-
	(D,P) 07	3.0 - 5.0	-	-	-	0.14	0.19	0.24	0.30	0.35
	(D,P) 11	1.5 - 2.5	0.15	0.25	0.37	-	-	-	-	-
	(D,P) 18	3.0 - 5.0	-	-	-	0.11	0.14	0.18	0.23	0.28
	(D,P) 22	1.5 - 3.0	0.06	0.09	0.13	0.18	-	-	-	-
	(D,P) 26	2.0 - 4.0	-	0.08	0.11	0.16	0.21	0.27	-	-
	(D,P) 27	3.0 - 5.0	-	-	-	0.11	0.15	0.18	0.23	0.28
	(D,P) 43	1.5 - 3.0	0.07	0.12	0.17	0.24	-	-	-	-
	(D,P) 46	2.0 - 4.0	-	0.05	0.08	0.11	0.15	0.19	-	-
	(D,P) 47	2.0 - 3.0	-	0.11	0.16	0.17	-	-	-	-
	(D,P) 50	3.5 - 5.0	-	-	-	-	0.16	0.21	0.27	0.33
	(D,P) 57	3.0 - 4.0	-	-	-	0.14	0.18	0.22	-	-
	(D,P) 72	2.0 - 3.0	-	0.19	0.27	0.37	-	-	-	-
	(D,P) 76	3.0 - 5.0	-	-	-	0.17	0.22	0.28	0.34	0.40
	(D,P) 77	3.5 - 5.0	-	-	0.11	0.14	0.19	0.21	0.27	0.34
	(D,P) 79	3.5 - 5.0	-	-	-	-	0.22	0.28	0.34	0.40

* D = Copper slab; P = Aluminum slab

^ Air pressure drop data is under dry coil conditions. For wet coil conversion at standard AHRI conditions, use 1.3 multiplier.

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2175 West Park Place Boulevard
Stone Mountain, GA 30087
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