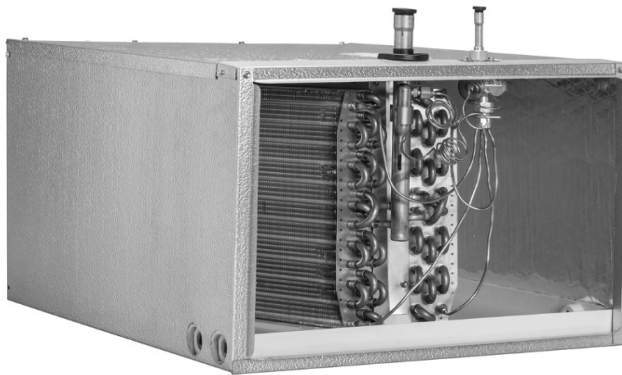


# Specification Guide

## V Series

### Premier Horizontal Evaporator Coils

with Top Connections



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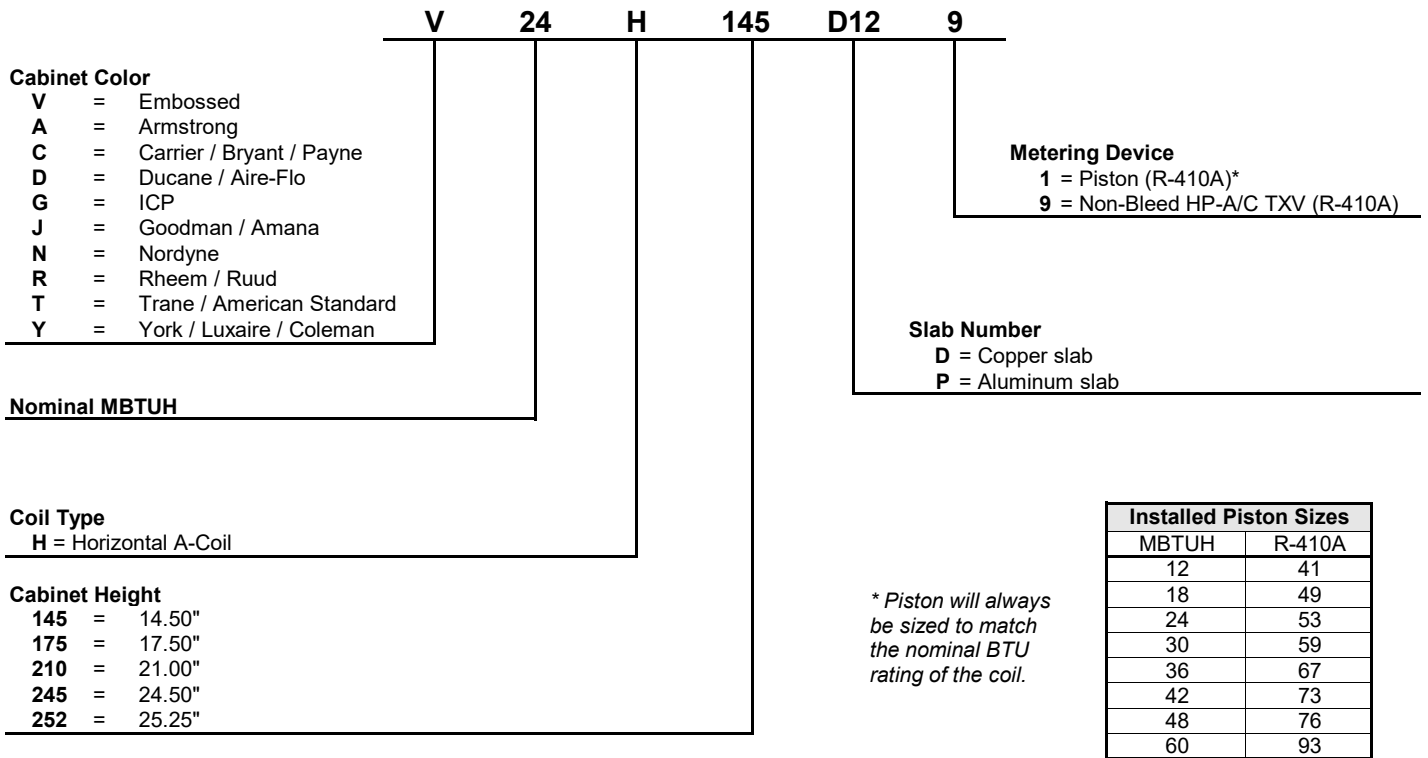
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# Product Features

- 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



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

## Dimensions

| Core Slabs       |                    |                 |        |               |              |    |
|------------------|--------------------|-----------------|--------|---------------|--------------|----|
| Slab *<br>Number | Nominal<br>Tonnage | Dimensions (in) |        | Pallet<br>Qty | Weight (lbs) |    |
|                  |                    | Height          | Length |               | 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 |

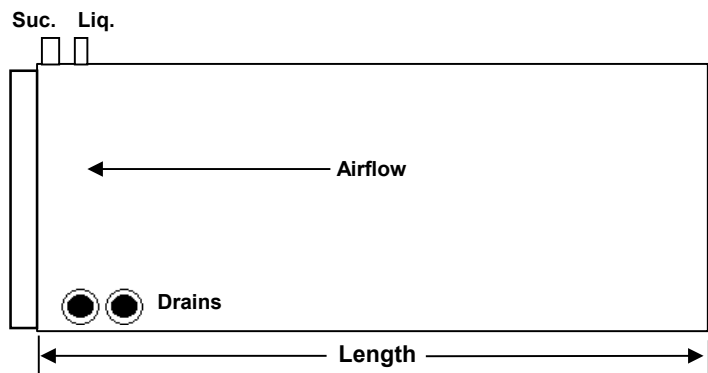
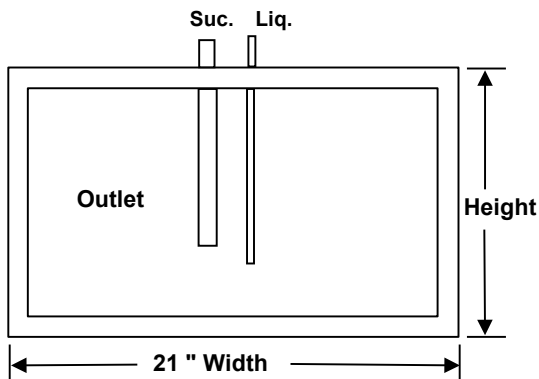
| Non-Core Slabs   |                    |                 |        |               |              |    |
|------------------|--------------------|-----------------|--------|---------------|--------------|----|
| Slab *<br>Number | Nominal<br>Tonnage | Dimensions (in) |        | Pallet<br>Qty | Weight (lbs) |    |
|                  |                    | Height          | Length |               | 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 *<br>Number | Nominal<br>Tonnage | ^ Air Pressure Drop (in WC) by CFM |      |      |      |      |      |      |      |
|-----------------------|------------------|--------------------|------------------------------------|------|------|------|------|------|------|------|
|                       |                  |                    | 600                                | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| <b>Core Slabs</b>     | (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 | -    | -    |      |
| <b>Non-Core Slabs</b> | (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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