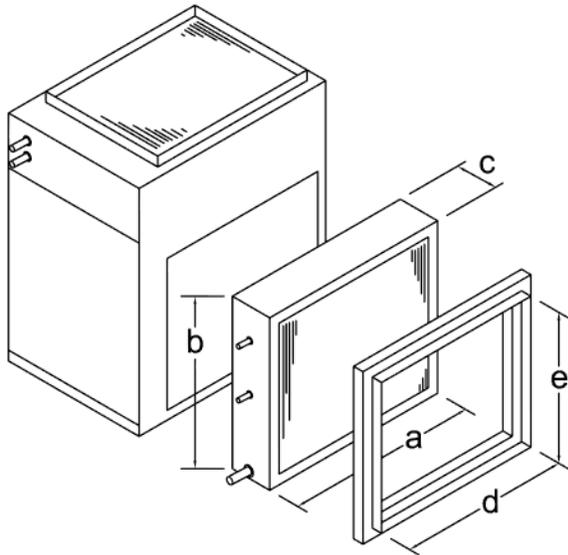


# Cased Cooling Coils



- Cased slab coil in an attractive and durable white painted finish to match the air handler.
- Mounts on the air handler supply or return to permit upflow, downflow or horizontal air handler installations.
- Standard models include a Tx valve for R410A. Other configurations available.
- Small dimensions allows ceiling mounting or mounting above a water heater.

## Physical Properties

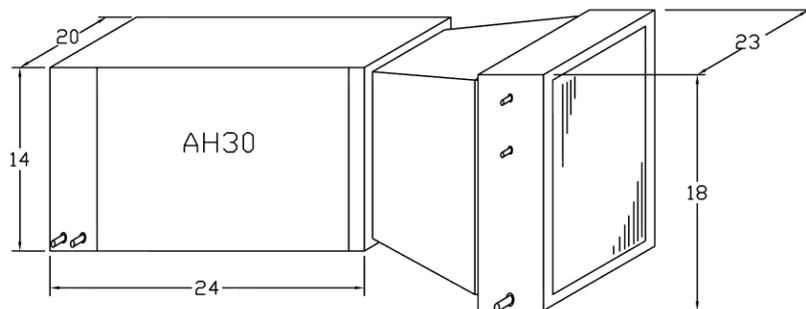
Model	Capacity (tons)**	Max. airflow (cfm)	Cabinet dimensions	Opening	Line connections***			shipping weight
			a x b x c	d x e	liquid	vapour	drain	
HC1616	1 - 2	880	23"x18"x5"	18"x14"	3/8"	5/8"	7/8"	20 lb.
HC2018	1 ½ - 3	1250	25"x22"x5"	23"x18"	3/8"	3/4"	7/8"	25 lb.
HC2021*	4	1455	25"x22"x5"	23"x18"	3/8"	3/4"	7/8"	30 lb.

\*HC2021 is for custom orders. Does not include Tx valve.

\*\*Capacity range with standard Tx valve. Specify at time of order for lower capacities.

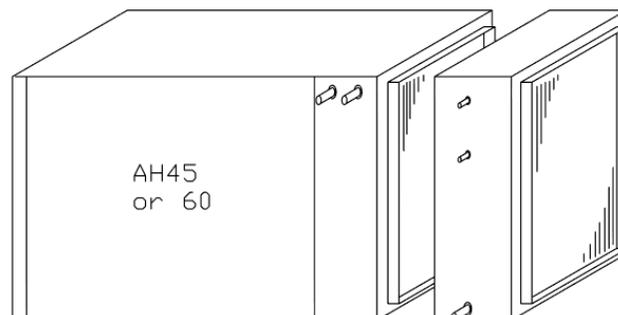
\*\*\*All line connections are copper. Sizes are outside diameter.

HC1616



*Horizontal air handler with return-side coil (transition necessary for AH30-size)*

HC2020



*Horizontal air handler with supply-side coil*

## General

Add-on cased slab cooling coils may be mounted on the supply or return side of the air handler for maximum flexibility.

The cooling coil assembly must be mounted with the drain pan at the bottom so that air flows through the coil from left to right or right to left. For air handlers mounted horizontally, it is recommended that the cooling coil is mounted on the discharge (supply end). Air handlers mounted vertically (upflow/downflow) may have the cooling coil mounted on the back, right or left side of the unit.

Airflow should be limited to a face velocity of not more than 500 feet per minute to minimize the risk of condensate blow off.

The filter rack (supplied with air handler) may be mounted directly onto the cooling coil.

**Warning:** Do not install screws into the front or rear of the cased cooling coil. Sheet metal screws of up to 3/4 inches may be installed into the top, bottom or sides.

### Mounting on Return Air side of A.H.

Cut the appropriately sized hole into the side of the air handler to match the opening of the cased cooling coil (18x14 or 23x18). Hole location needs to be verified on the air handler before cutting but it is typically 2 inches from the bottom and 1 inch from the back of the air handler. Using sheet metal screws, mount the L-bracket onto the top of the cased cooling coil along the side facing the air handler. Screw the cased cooling coil assembly to the side of the air handler. From inside the air handler, use S-cleat to connect all four sides of the air handler and cased cooling coil openings together.

### Mounting on Supply Air side or Bottom or Back of Horizontal A.H

A duct transition is required. Where possible, match the opening of the cased cooling coil. Do not block the coil face area.

Contact Vortex for typical transition dimensions based on model, orientation and connection location.

## Refrigerant Connections

The Tx valve is factory installed on the standard model. It is connected to the liquid line and the sensing bulb is connected to the vapour line.

**Warning:** During brazing, the Tx valve and sensing bulb must be protected from excessive heat. Wet rag wrapping of the connections at the grommets is the recommended method.

## Drain Connection

Connect a suitable condensate drain and trap. The drain connection is 7/8"OD (3/4"nominal) copper. The trap should be at least 2" in height and serviceable for future cleaning. The top of the trap must be below the bottom of the drain pan – lower is better. Avoid using soft vinyl tubing unless care is taken to lay the tube flat and avoid the formation of multiple water traps. Traps should not be located in areas that may freeze such as attics.

