

VERTICAL AND MULTIPOSITION HEAT PUMP COIL

HYDRO MAXX



INSTALLATION MANUAL



MODELS:

CC1.1-13.5-V/M

CC2.0-13.5-V/M

CC2.5-13.5-V/M

CC3.0-13.5-V/M

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1 GENERAL

Our coils are designed to be used with our HydroMax heat pump outdoor unit. These instructions are intended as a general guide and do not supersede local codes in any way. Consult with local authorities having jurisdiction before installation. **Read this manual and all safety messages prior to installing the evaporator coil.** Check coil for shipping damage and verify the contents of the box containing the evaporator coil. If you should find damage, immediately contact the last carrier. Check the HydroMax installation guide (X40228) for proper line sizing. **Coils are shipped with a 10 psi dry air holding charge. Puncture rubber plug on suction line to release charge before removing plugs.** The absence of pressure does not verify a leak. Check the coil for leaks before installing or returning it to your wholesaler. For an installation with a Chinook, position the coil on the supply or the return of the furnace using sheet metal screws. Drain pans are made of a polymer that can withstand temperatures up to 232.22°C (450°F). Maintain a minimum of 6" clearance over the heat exchanger for installation in the supply. For an installation with a Modulating Supreme, position the coil on the return of the furnace. This is necessary in order to benefit from Auto Backup function, allowing the Supreme and the HydroMax heat pump to work together. For installation with all other types of Supreme (Comfort and Advantage), install the coil on either the supply or the return.

1.1 Vertical

Vertical A-Coils are designed for upflow and downflow applications. Drain pans have drain connections on the right and left front side of the evaporator coil. See HydroMax manual for more information.

1.2 Multi-position

Multi-position A-Coils come factory installed with a vertical and horizontal drain pans and can be configured for upflow, downflow, horizontal blow-through (figure 1 C) or horizontal pull-through (figure 1 B) installations. In the center opening of vertical drain pan, a metal Inlet Air Restrictor is factory installed and is required for horizontal applications. It may be removed for vertical applications. For horizontal configuration, install splash guard onto the coil outlet, and extend suction line insulation into the coil cabinet by 2" to prevent moisture from dripping onto the insulation (the rubber grommet may need to be moved). Splash guard installation is not required for vertical configurations. Bottom flange of guard should rest on pan and sides screwed to the duct flanges. In downflow and counter flow configurations, aluminium foil tape must be applied to seal the top edge of insulation to the cabinet. This tape will prevent the possibility of the insulation delaminating and blocking airflow. In horizontal pull-through and counter flow configurations, a minimum 12" transition is required in front. This is required to ensure proper airflow distribution and to reduce pressure drop. Coil should be level, or pitched slightly towards the drain connection. It is recommended to add silicone caulking between drain pans to prevent water carryover. See HydroMax manual for more information.

2 METERING DEVICE

Do not install any metering device on the indoor coil. The expansion valve is located in the outdoor unit. If a metering device is already installed in the indoor coil, it must be removed.

If a metering device (orifice) is installed remove it and be sure to tape it on the coil. This will help ensure it has been removed and help anyone doing service.

Table 1 – Performances

MODEL	AIRFLOW	VELOCITY	WET COIL AIR	PAN DEPTH	COIL HEIGHT
	CFM	FPM	PRESSURE DROP (in w.c.)	(IN)	(IN)
CC1.0-10.0-M	400	261	0.08	19.16	14.25
CC1.5-13.5-V/M	600	224	0.15	19.50	13.00
CC2.5-13.5-V/M	1000	375	0.22	19.50	13.00
CC2.5-15.7-V/M	1000	375	0.18	19.50	13.00
CC3.0-15.7-V/M	1200	337	0.20	19.50	17.00
CC3.0-21.0-V/M	1200	337	0.16	19.50	17.00
CC1.5-S-V/M	600	224	0.09	19.50	13.00
CC2.5-S-V/M	1000	281	0.09	19.50	17.00
CC3.0-S-V/M	1200	337	0.16	19.50	17.00

Table 2 – Specifications

	MODEL	NOMINAL	CONNECTIONS	CONNECTIONS	SHIP
		TONS	LIQUID (IN)	GAS (IN)	WEIGHT (LBS)
CHINOOK	CC1.0-10.0-M	1.0	1/4	1/2	40
	CC1.5-13.5-V/M	1.5	3/8	3/4	40
	CC2.5-13.5-V/M	2.5	3/8	3/4	40
	CC2.5-15.7-V/M	2.5	3/8	3/4	40
	CC3.0-15.7-V/M	3.0	3/8	3/4	41
	CC3.0-21.0-V/M	3.0	3/8	3/4	51
SUPREME	CC1.5-S-V/M	1.5	3/8	3/4	51
	CC2.5-S-V/M	2.5	3/8	3/4	51
	CC3.0-S-V/M	3.0	3/8	3/4	51

Figure 1 – Multi-position configuration

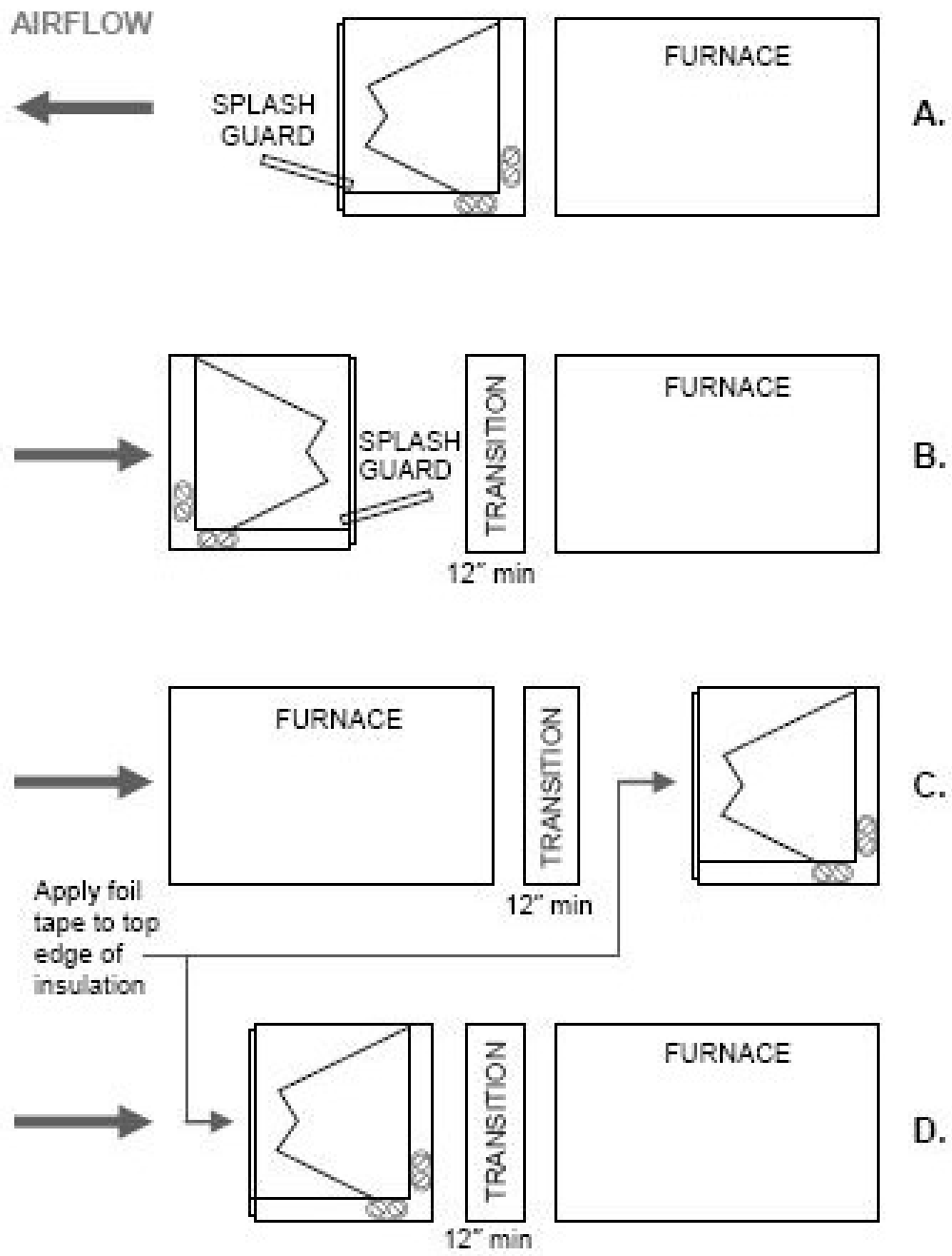


Figure 2 – Coil dimensions

	MODEL	DIMENSIONS (IN)						
		A	B	C	D	E	F	G
CHINOOK	CC1.0-10.0-M	17.5	N/A	N/A	8.50	17.75	19.5	10.10
	CC1.5-13.5-V/M	16.50	8.50	5.66	12.00	19.00	20.75	13.50
	CC2.5-13.5-V/M	16.50	8.50	5.66	12.00	19.00	20.75	13.50
	CC2.5-15.7-V/M	16.50	10.50	5.66	14.30	19.00	20.75	15.75
	CC3.0-15.7-V/M	18.50	13.50	5.66	14.30	19.00	20.75	15.75
	CC3.0-21.0-V/M	18.50	13.50	5.66	19.50	19.00	20.75	21.00
SUPREME	CC1.5-S-V/M	16.00	13.50	5.66	19.50	19.00	20.75	21.00
	CC2.5-S-V/M	16.00	13.50	5.66	19.50	19.00	20.75	21.00
	CC3.0-S-V/M	16.00	13.50	5.66	19.50	19.00	20.75	21.00

