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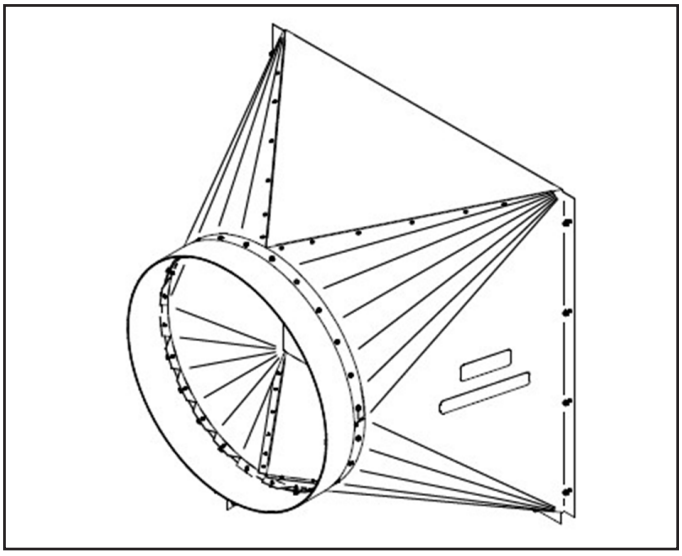
August 2026

INSTALLATION INSTRUCTIONS
polytube transition for BCH models

Figure 1 Polytube Transition Attachment



IMPORTANT

1. The use of this manual is specifically intended for a qualified installation and service agency. All installation and service of these kits must be performed by a qualified installation and service agency.
2. These instructions must also be used in conjunction with the Installation and Service Manual originally shipped with the appliance, in addition to any other accompanying component supplier literature.

Polytube Transition Model Application

The polytube transitions, see Figure 1, are designed for use on BCH high efficiency hydronic unit heaters; utilizing 18" polytube for BCH103 and 24" polytube for BCH218.

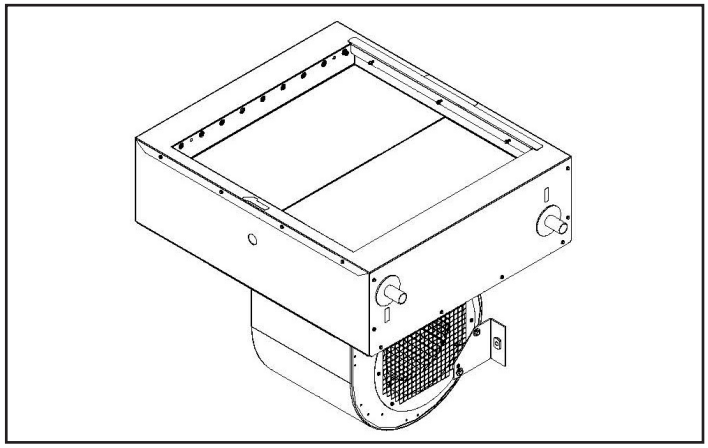
Assembly/Installation

The recommended procedure for assembly and installation is described as follows:

Before beginning installation of the accessory transition, remove all of the spring loaded louver blades from the unit heater on which the transition is to be installed. To remove the spring loaded louver blades, grasp the blade and apply pressure against the louver blade retaining spring. After compressing the spring, the tab on the opposite side of the blade can be removed from the unit, freeing the blade from the unit.

1. Install the transition hangar bracket to the top interior surface of the unit opening, refer to Figure 2, using the #10 x ½" self drilling screws provided. Dimples located at the top of the opening will provide locating points to secure the bracket. Once the bracket is installed, ensure that there is a small gap between the hangar bracket and the front face of the unit. A screwdriver or similar tool may be required if adjustment needs to take place to create a gap.

Figure 2 BCH Opening/Front



THIS MANUAL IS THE PROPERTY OF THE OWNER.
PLEASE BE SURE TO LEAVE IT WITH THE OWNER WHEN YOU LEAVE THE JOB.

2. Grasp the transition assembly by the bottom panel or through the opening. Lifting it slightly above the opening of the unit, press the flanged surface of the transition against the front panel of the unit. Using caution, slowly lower the transition so that the lip of the top panel drops into the gap between the hangar bracket (installed in step 1) and the front face of the unit. The transition is now secure. Make sure the transition is centered on the unit.

3. Using the provided #10 x 1/2" self drilling screws, secure the transition to the unit through the clearance holes in the side and bottom flanges. Refer to Figure 3 below.

Note: Polytube coverage area and recommended hole areas are provided in Table 1.

Figure 3 BCH103 With Mounted Transition

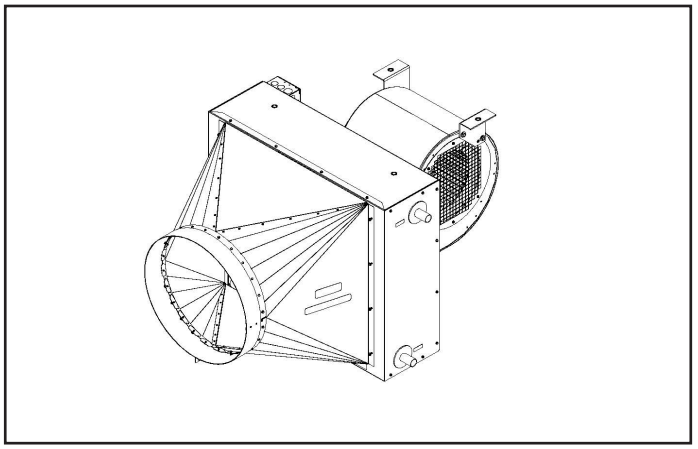
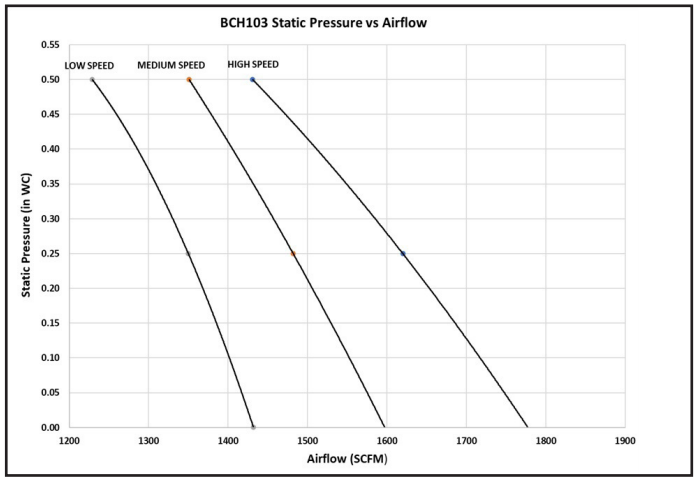
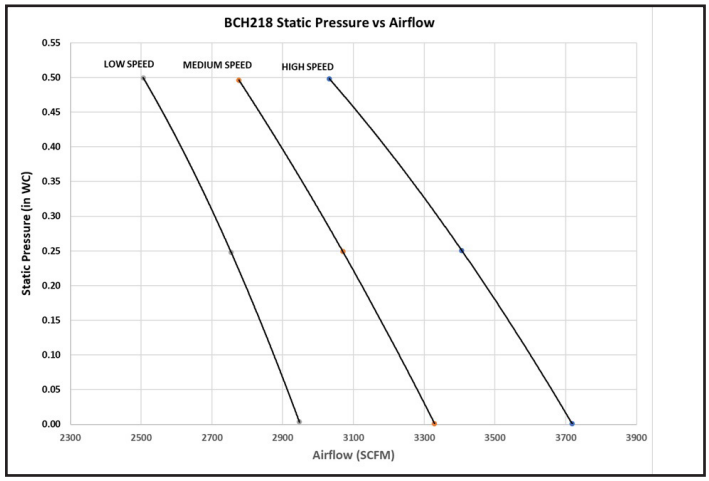


Table 1 Polytube Coverage and Hole Areas

Model	Growing Area Coverage	Input (BTU/hr)	Output (BTU/hr)	Air Flow (CFM)	Air Temp. Rise (°F)	Motor HP Min.	Polytube Dia. (in)	Polytube Min. Hole Area (Sq. Ft.) ①	Minimum Number of Polytube Holes②		
									3" Diam.	2.5" Diam.	2" Diam.
BCH103	1,100	103,000	103,000	1,650	54	1/2	18	1.74	35	51	80
BCH218	2,317	218,000	218,000	3,475	55	1	24	3.65	75	107	168

① Based on 1.5 cfm/ft² air circulation requirement at high speed setting, polytube length 150 ft. and approximately 0.2" W.C. E.S.P.
② For all polytubes, space the holes evenly across the length.





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