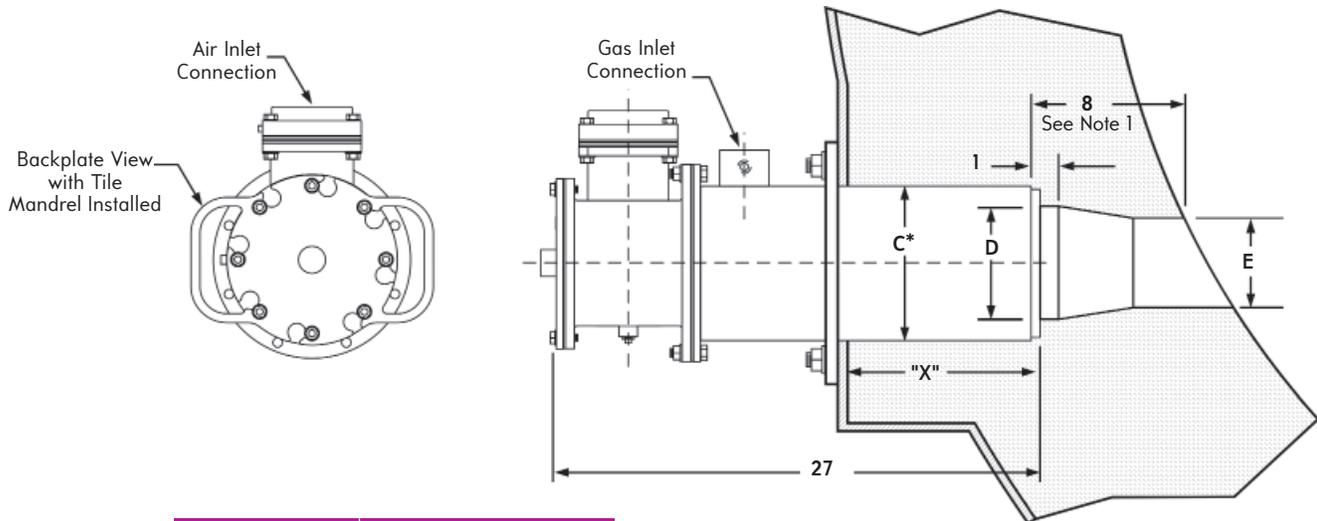


Installation Instructions | Quick Clean Burner

REFRACTORY DIMENSIONS inches



4419/6419 Series	C*	D	E
-6-A, -6-B	6 ⁵ / ₈	4 ²³ / ₃₂	3 ¹ / ₂
-7-A, -7-B	8 ⁵ / ₈	6 ⁵ / ₁₆	5

Note: The backplate and body gaskets are shipped loose and must be installed when the burner is mounted on the furnace.

* C = diameter of outer burner tube (becomes part of mandrel during installation).

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

INSTRUCTIONS

- It is important to maintain the 8" tile dimension as shown in illustration above.
- Determine burner insertion dimension "X", taking into consideration actual wall thickness and making allowance for required 8" tile dimension.
- Attach burner mounting studs to furnace casing and provide burner access hole in furnace casing using burner mounting flange as a template.
- Secure burner mounting flange to outer burner tube with a 1/8" to 1/4" weld to provide insertion dimension "X" determined above.
- Insert burner into furnace casing access hole, engaging the mounting flange and studs as required to provide the desired location of gas inlet connection.
- Position the air inlet connection as desired by removing the burner body hardware and rotating the burner body as required. Re-attach the burner body using the hardware just removed and the tube gasket shipped loose with the burner.
- Loosen the eight flange-head hex bolts that secure the burner backplate to the body. Rotate the burner backplate counterclockwise until the bolt heads are aligned with the enlarged portion of the backplate mounting holes. Carefully withdraw the backplate assembly and store in a safe location.
- Install mandrel assembly shown on page 6 and secure mandrel mounting plate to burner body by re-tightening the eight flange-head hex bolts from step 7.
- With the tile mandrel properly secured to and aligned with the burner, the burner tile can be formed by the application of a suitable refractory material (usually cast or rammed) around the tile mandrel.
- To provide a suitable transition between the burner and tile, the cast or rammed refractory should penetrate far enough into the opening around the burner to engage several inches of the outer burner tube, effectively utilizing the outer burner tube as part of the mandrel. (See dimension "C".)
- Make sure that a suitable mold release agent (Penreco® Cream, Crete-Lease®, etc.) is applied to all wetted surfaces to assist in mandrel and burner removal once the refractory sets up.
- When re-inserting the backplate assembly, rotate so the UV connection is at 12 o'clock unless otherwise required for low fire oil applications. (See "Flame Supervision" section on page 2.) The backplate gasket is shipped loose with the burner to be installed when re-inserting the backplate assembly.