

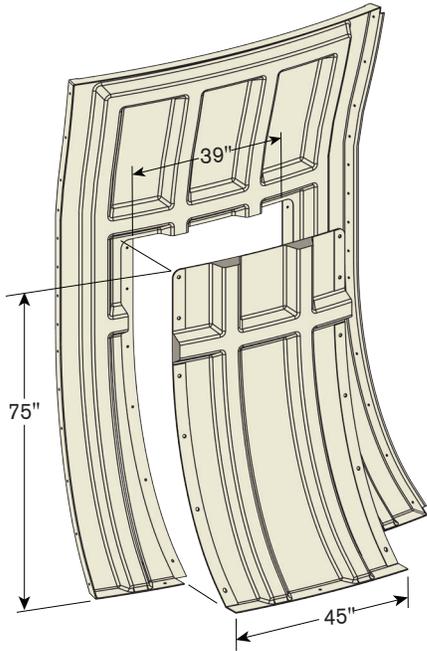
The Low Profile Reflex Fan Cylinder is designed to replace existing large diameter fan cylinders on cooling towers in process cooling applications. Its unique geometry features a larger outlet diameter compared to conventional 10-foot conical recovery cylinder designs. Customers benefit from improved performance and reduced power consumption.

Vertical flanges provide easy assembly with fewer fasteners and a large easily-removed access door. The low

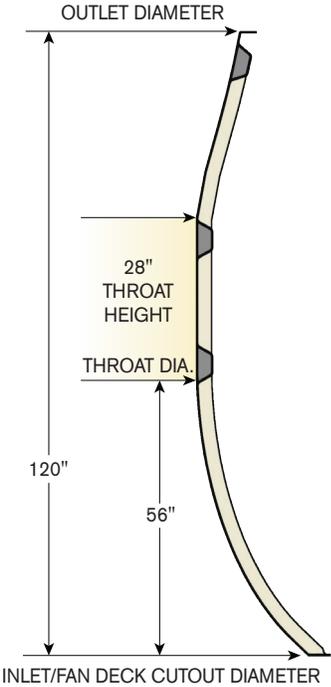
profile design has higher wind load capability, beneficial in locations with high wind conditions and hurricane risk.

The Low Profile Reflex Fan Cylinder is an important link in the chain of critical components contributing to the overall efficiency of the cooling tower. It ensures that the fan moves the maximum amount of air through the tower at the minimum required horsepower. It offers the added benefit of protecting operators from rotating equipment.

# Low Profile Reflex fan cylinder



Cylinder Access Segment



Cylinder Side Profile

Fan Diameter	Segment Weight lb	Number of Segments	Total Weight lb	Inlet Diameter	Throat Diameter	Outlet Diameter	Tip Clearance
28'   336"	215	14	3,010	31'-8"	28'-3"	29'-7"	1 1/2"
30'   360"	215	15	3,225	33'-10"	30'-3"	31'-7"	1 1/2"
32'   384"	220   175*	16	3,430	36'-5"	32'-3 1/4"	33'-7 1/4"	1 5/8"
10m	220	16	3,520	37'-2 1/2"	33'-1"	34'-5"	1 5/8"

\*The 384" diameter cylinder is made from fourteen 394" segments (220 lb/each) and two partial segments (175 lb/each).

## Specifications

Fan cylinder shall be moulded FRP, no less than 10'-0" high, with eased inlets to promote smooth airflow at blade tips. The operating plane of the fan shall be at a level above the fan deck of at least 15% of the overall fan diameter. Fan tip clearance shall not exceed 0.5% of the fan diameter. If velocity recovery fan cylinders are used, they must include a recovery section above the fan throat to increase performance and efficiency with maximum assumed velocity recovery of 75% of the difference in

average velocity pressure, unless scale model data for the exact fan and cylinder system can be submitted. Segment connections must be made via a butt flange design so that fasteners can be installed and tightened from the outside of the cylinder. Each fan cylinder segment shall be through-bolted to both the fan deck and a primary fan deck framing member. Fan cylinder connection and anchorage hardware shall be series 300 stainless steel.

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