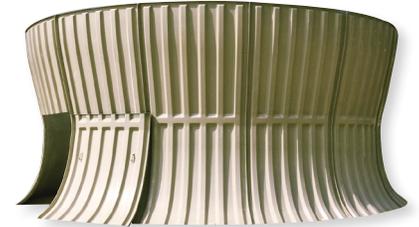


FAN CYLINDERS



THE COMPARISON

MARLEY REFLEX™		MIDWEST FAN STACKS
1% more cooling capacity or 3% less power needed compared to flared cylinder designs of equal height*	PERFORMANCE	Flared cylinder design of same height is less efficient and needs more horsepower; this translates into increased energy costs (up to \$4,400 annually)*
Butt flange design is more rigid than lapped flange design	STRENGTH	Lapped flange connection is less rigid which requires additional stiffening bars
Smooth interior with no exposed hardware eliminates concerns of fan interference	FAN INTERFERENCE	Stiffening bars and bolt heads are located within cylinder interior, including the throat area. Impact with fan blade is a concern
14' tall Reflex shape has larger outlet area for its height allowing for a reduction in overall tower height while meeting performance of taller 18' height cylinders	LOW PROFILE	An 18' tall cylinder is needed to match the performance of the Marley Reflex 14' tall cylinder; taller height means more surface area for wind to catch, more weight, more hardware, harder to handle in field
Butt flange design allows bolt and nut access from exterior of cylinder only, and requires fewer hardware connections, thus reducing labor	EASE OF ASSEMBLY	Lapped flange requires a person on both the interior and exterior of the cylinder to properly tighten all the hardware and install the stiffening bars; 80% more fastener components required**
2.4 times larger access door area for easier equipment removal**	ACCESS DOOR	Smaller access door is more difficult to utilize effectively

REFERENCE:

*Based on 336" diameter x 14 ft. tall Midwest and Marley fan cylinders operating with 200 HP motor and 10-blade Hudson Tuf-Lite II fan. Marley Reflex cylinder drawing 192.10 HP while equivalent height Midwest fan stack draws 198.78 HP = 4.982 kW difference x \$0.10 per kW/hr x 8,760 annual operating hours = \$4,364.23 in energy savings.
 **Comparison of Marley Reflex 336" diameter x 14 ft. tall cylinder and Midwest 336" diameter x 14 ft. tall stack (Item # 2814-1-200). Quantity 257 bolts for Marley cylinder vs. 405 bolts + 60 stiffening bars for Midwest stack. 465 pieces / 257 pieces = 80% more pieces with Midwest design. NOTE: Midwest also uses 15 segments vs. Marley 14 segments. 6'-9" door opening height x 6' width for Marley cylinder vs. 5'-8" x 3' width at throat for Midwest stack access door. 40.5 square feet / 16.98 square feet = 2.38 times larger access door with Marley design.