

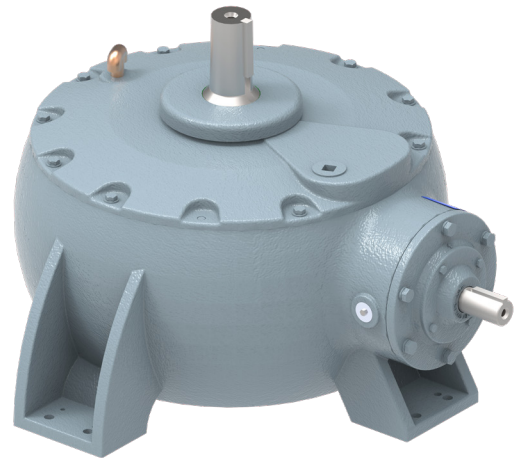
2700series

GEAREDUCER

engineering data and specifications

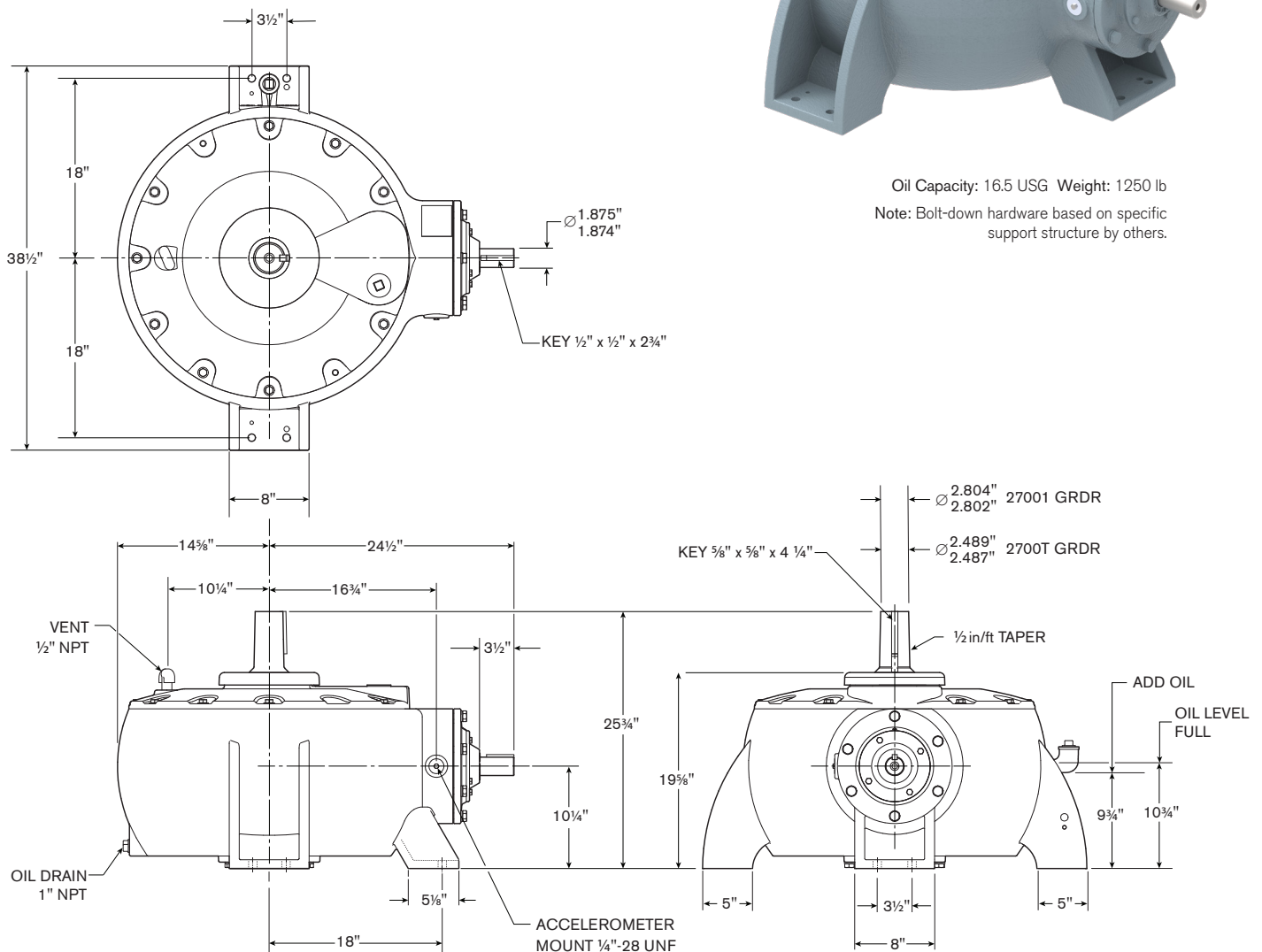
2700 Geareducer® Gear Drive

The Marley 2700 series Geareducer is designed and manufactured specifically for HVAC and industrial cooling tower applications. In form and function, this gear drive goes beyond the AGMA (American Gear Manufacturers Association) requirements to maximize air movement through the cooling tower and to minimize maintenance.



Oil Capacity: 16.5 USG Weight: 1250 lb

Note: Bolt-down hardware based on specific support structure by others.



Model	Reduction	Output RPM		Input hp Limitations per AGMA 2.0 SF	
		1775 RPM	1475 RPM	1775 RPM	1475 RPM
27001	5.77	308	256	75	75
	7.71	230	191	75	60
	8.67	205	170	60	50
2700T	5.77	308	256	75	75
	7.71	230	191	60	60
	8.67	205	170	60	50

Specifications

The gear reducer's primary function is to reduce the speed of the electric motor to optimize fan performance. The Geareducer also provides primary support to the fan, anchors it against lateral movement, withstands shock loads at start-up and during speed changes, and minimizes power transmission losses and noise generation.

Gear reducer assemblies shall be single-reduction right angle units utilizing spiral bevel gear sets. Gear reducers shall meet or exceed the requirements of CTI STD-111 and AGMA Std. 6013-A06, and service factor at applied horsepower shall not be less than 2.0. Gear reducers shall be designed to meet thermal heat rejection requirements and maintain safe operating temperatures at their rated capacity without the need for oil coolers or input shaft cooling fans. Heavy-duty housings shall be epoxy-coated, ASTM Class 20, grey cast iron and provide sufficient strength and rigidity to maintain gear alignment and provide smooth, quiet operation under maximum operating loads.

Bearings shall be tapered roller type. L_{10A}. Bearing life of all bearings must exceed 100,000 hours at the maximum rated speed and power.

Gears and bearings shall be splash-lubricated in a bath of oil which complies with the OEM's recommendations, and units shall be capable of operating in either forward or reverse with equal lubrication capability. Speed reduction units using external oil pumps shall not be permitted.

The gear materials shall be AISI 8620 steel, with case-hardened teeth that have been surface ground to the final profile or lapped in matched sets. Gear tooth finish shall be AGMA class 9 or better. The spiral bevel pinion gear shall be integral with the shaft. Keyed or splined attachment of pinions to their shafts is not allowed. The input shaft shall utilize a single lip type oil seal and the output shaft shall utilize a labyrinth closure to retain lubricant and exclude contaminants.

The assembly design shall utilize metallic shims to achieve and maintain ideal gear setting and bearing adjustment throughout the life of the unit. Assemblies shall be run-in with torque and fan shaft thrust and adjusted at the factory. The interior surfaces shall be coated with a rust-proofing oil prior to shipment.

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