MHD SERIES

Cross Flow Induced Draft
Single Inlet Horizontal Discharge

MHD SERIES

Overview

The MHD series is a cost-effective, induced-draft, single inlet horizontal discharge cross-flow cooling tower designed for more challenges of operating in commercial spaces, suitable for both indoor or outdoor installation. All models meet or exceed ASHRAE 90.1-2019 energy efficiency requirements.

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CERTIFICATION VALIDATION NO.: C26K-20R00

The MHD series is available in 6 box sizes with 17 models in capacities ranging from 54 tons to 304 tons.

Model Designation

Box Size Number — Fan Motor Power

MHD – 2122 – 2.2 – G

CTI STD-201 Certified Line

F4 - for SS304 Casing & Structure
F6 - for SS316 Casing & Structure
G - for HDGS Casing & Structure

Advantages

Low Energy Consumption

- CTI Certified.
- High Efficiency — Direct Driven greatly improves reliability for optimum efficiency, by eliminating moving parts and any belt drive or gearbox efficiency losses.
- Fan Power Savings — Both incoming and outgoing air-flow are on the horizontal direction reduces pressure loss inside the fill to save on fan power.
- High efficiency Fill for optimum heat transfer efficiency and UV protected.

Water Saving

- High-Efficiency Drift Eliminators — Reduce the drift rate to less than 0.001% of the recirculating water rate.
- Contributes to get 2 LEED points in water saving category.

Easy Maintenance

- Direct Drive power train fan system offers maintenance free operation.
- Easy Access — Large sized door for inspection & maintenance purposes.

Long Service Life

Industrial grade design, all steel panels and structural members are constructed of heavy-gauge G235 hot-dip galvanized steel for longest service life. Available in 304 and 316 stainless steel.

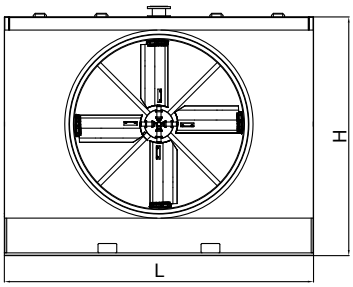
Low Installed Cost

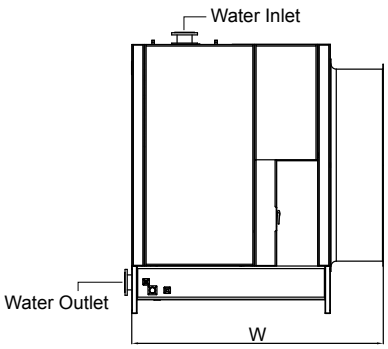
- Factory pre-assembled and shipped in standard containers, ensures the best quality and reduce the installation time and cost.
- Modular design for multicell installation.

Water Filtration System

Available with water filtration system to clean cooling tower water maintains consistently high heat transfer efficiencies, reduces maintenance and chemical cost.

Product Technical Data



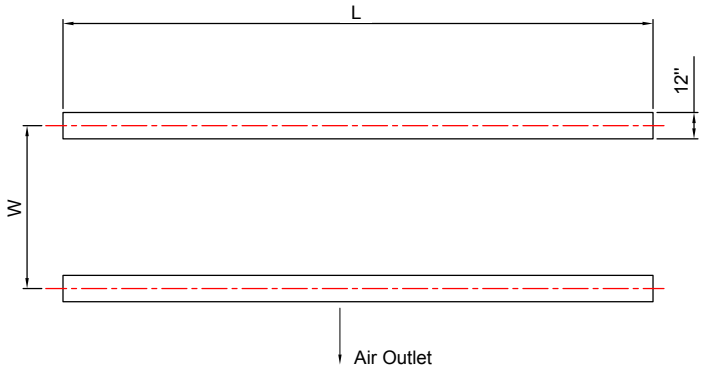


Model	HP	Nominal Tons	Size				Weight (lbs)	
MHD			L	W	H	h	Dry	Operate
MHD-2122-2.2	3	54	6' - 10 3/4"	7' - 3 1/2"	6' - 6 3/4"	6' - 11 1/4"	1,354	3,321
MHD-2122-3	5	61						
MHD-2522-2.2	3	65	8' - 2 1/2"	7' - 3 1/2"	6' - 8 3/4"	7' - 1 1/4"	1,604	4,399
MHD-2522-3	5	73						
MHD-2522-4	5	81						
MHD-2822-3	5	93	9' - 2 1/4"	7' - 5 3/4"	8' - 4 1/2"	8' - 9"	2,303	5,733
MHD-2822-4	5	103						
MHD-2822-5.5	7.5	114						
MHD-3323-4	5	112	10' - 10"	7' - 5 3/4"	8' - 4 1/2"	8' - 9 1/4"	2,695	7,553
MHD-3323-5.5	7.5	124						
MHD-3323-7.5	10	138						
MHD-3725-5.5	7.5	151	12' - 1 3/4"	8' - 4 1/2"	10' - 2"	10' - 7"	4,027	10,033
MHD-3725-7.5	10	166						
MHD-3725-11	15	188						
MHD-3930-11	15	254	12' - 9 1/2"	9' - 10"	12'	12' - 5"	6,082	15,526
MHD-3930-15	20	280						
MHD-3930-18.5	25	304						

Note:

1. Nominal tons flow is for 3gpm of water cooled from 95 °F to 85 °F with 78 °F entering wet-bulb temperature.
2. Satisfactory performance is based on precise selection, proper system design and installation in a clean and well-ventilated location.

Foundation and Piping



Model	Foundation Dimensions		Pipe Connections				
MHD	L	W	Inlet	Outlet	Overflow	Drain	M-U
MHD-2122	7' - 10 1/2"	6' - 1 3/4"	4"	4"	1 1/2"	1"	3/4"
MHD-2522	9' - 2 1/4"	6' - 1 3/4"	5"	5"	1 1/2"	1 1/2"	3/4"
MHD-2822	10' - 2"	6' - 4"	5"	5"	1 1/2"	1 1/2"	3/4"
MHD-3323	11' - 9 3/4"	6' - 4"	6"	6"	2"	1 1/2"	3/4"
MHD-3725	13' - 1 1/2"	7' - 2 1/2"	5" x 2	6"	2"	1 1/2"	3/4"
MHD-3930	13' - 9 1/4"	8' - 8 1/4"	6" x 2	8"	2"	1 1/2"	3/4"

Note:

1. Secure the base of the cooling tower with the anchor bolts.
2. Buyer is responsible for the tower support and for the positioning and diameter of the anchoring bolts to comply with local building codes.

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