

MAGNATION TURBULATOR PRODUCT SPEC SHEET



OVERVIEW

Magnation's Turbulator™ is a device that performs the functions of applying magnetic technology which encapsulates the physics of interaction between a magnetic field and a fluid. The magnetic field exerts a force on the charged species in the fluid and redirects the orientation of the charged species, which produces physiochemical changes in the fluid. This results in a lighter density of the water/softer water, and contributes substantially to reduced consumption of energy and chemical resources, leading to cost savings and environmental improvements. The applications for magnetic fluid conditioning technology are wide-ranging and the magnitude of cost savings and environmental impact reductions are vast.



FEATURES

- Made with 316 stainless steel or aerospace anodized aluminum
- Product requires zero salts/chemicals, energy or maintenance
- Passive, in-line system
- Zero by-products
- Maintenance-free after installation
- Improves operational costs in many ways
- 2-year satisfaction money-back guarantee
- Proudly designed and made in USA with 100% US materials



APPLICATIONS

- Mineral scale and water hardness control
- Irrigation: improved soil and plant health, water and energy conservation
- Animal husbandry: healthier animals, yields, sanitation
- Cleaning: Improved sanitation and biosecurity
- Seed treatment: better germination rates & plant vigor
- Spraying: better mixing
- Natural gas & oil, mining
- Well drilling, pump & well maintenance
- Wastewater, and many more industries

PRODUCT SPECS



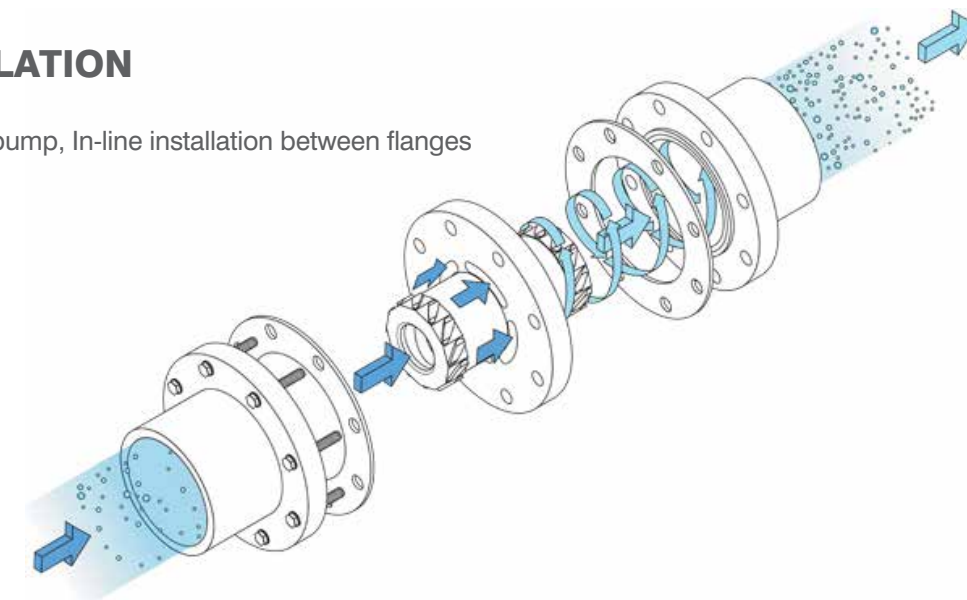
TURBULATOR™

5-STAGE VORTEXING TREATMENT: FLANGED, HIGH SALTS

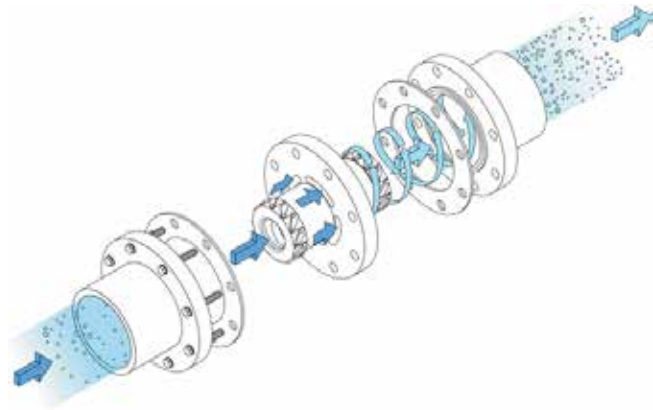
PRODUCT CODE	MATERIAL	PIPE SIZE	EXTERNAL DIAMETER	FLANGE WIDTH	WEIGHT	FLOW RATE	PRESSURE RANGE	PEAK FLOW VELOCITY
MG-TURBULATOR-4-SS	SS	4 in	9 in	.25 in	40 lbs	240-700 gpm	20-100 psi	18 f/s
		101.6 mm	152.4 mm	6.35 mm	18.2 kg	910-2650 L/min		
MG-TURBULATOR-6-SS	SS	6 in	11 in	.25 in	55 lbs	550-1000 gpm	20-100 psi	18 f/s
		152.4 mm	279.4 mm	6.35 mm	25 kg	2082-3785 L/min		
MG-TURBULATOR-8-SS	SS	8 in	13.5 in	.25 in	68 lbs	950-1900 gpm	20-100 psi	18 f/s
		203.2 mm	342.9 mm	6.35 mm	30.9 kg	3596-7192 L/min		
MG-TURBULATOR-10-SS	SS	10 in	16 in	.25 in	80 lbs	1500-2000 gpm	20-100 psi	18 f/s
		254 mm	406.4 mm	6.35 mm	36.3 kg	5678-7570 L/min		
MG-TURBULATOR-12-SS	SS	12 in	20 in	.25 in	92 lbs	2000-3000 gpm	20-100 psi	18 f/s
		304.8 mm	508 mm	6.35 mm	41.7 kg	7570-11355 L/min		
MG-TURBULATOR-4-AL	AL	4 in	9 in	1 in	10 lbs	240-700 gpm	20-100 psi	18 f/s
		101.6 mm	228.6 mm	25.4 mm	4.5 kg	910-2650 L/min		
MG-TURBULATOR-6-AL	AL	6 in	11 in	1 in	22 lbs	550-1000 gpm	20-100 psi	18 f/s
		152.4 mm	279.4 mm	25.4 mm	10 kg	2082-3785 L/min		
MG-TURBULATOR-8-AL	AL	8 in	13.5 in	1 in	24 lbs	950-1900 gpm	20-100 psi	18 f/s
		203.2 mm	342.9 mm	25.4 mm	10.8 kg	3596-7192 L/min		
MG-TURBULATOR-10-AL	AL	10 in	16 in	1 in	29 lbs	1500-2000 gpm	20-100 psi	18 f/s
		254 mm	406.4 mm	25.4 mm	13.1 kg	5678-7570 L/min		
MG-TURBULATOR-12-AL	AL	12 in	20 in	1 in	32 lbs	2000-3000 gpm	20-100 psi	18 f/s
		304.8 mm	508 mm	25.4 mm	14.5 kg	7570-11355 L/min		

INSTALLATION

Pre or post-pump, In-line installation between flanges



INSTALLATION



Pre or post-pump, in-line installation between flanges

1. The Magnation Turbulator water treatment unit is designed to fit seamlessly in 4" 6", 8", 10", 12", 14" and larger diameter pipes with flanges.
2. You may install yourself or hire a professional installer to identify the installation location and complete the installation of your Turbulator system.
3. The system can be installed at various points in the plumbing layout. We recommend installing at the last point of discharge, post filter and post flow meter (if any). Ideally, this location coincides where you pump reaches maximum pressure.
4. When identifying an installation location, majority of the unit will fit inside the stretch of pipe with exception of the ½" stainless steel plate, or 1" aluminum plate, attached to flanges which will be visible externally.
5. After point of discharge, place unit after the Chemvalve or backflow valve.

Beyond the Chemvalve flange location, you will need a minimum of 7" to 10.25" of straight pipe to fit the Turbulator inside the pipe. Beyond the flange, you need an additional 3" to 4.75" beyond the flange of pipe space to install Turbulator inside the pipe. This allows for the Chemvalve to freely open. As such, locate a stretch of straight pipe that meets to following recommended guidelines:

Pipe Diameter	AEROSPACE ANODIZED ALUMINUM		316 STAINLESS STEEL	
	Turbulator total length	Beyond plate	Turbulator total length	Beyond plate
4"	7"	3"	10"	4.75"
6"	7"	3"	10.25"	5"
8"	7"	3"	10.25"	5"
10"	7"	3"	call to confirm	
12"	7"	3"	call to confirm	

Note: Placing the unit after the chemical valve will treat all chemicals, which can be beneficiary in uniformity and maximizing chemical investments with improved solubility.

6. Always maintain the specification from the flow-meter manufacturer, or at least 6 feet, due to the magnetic nature of the unit and flow meter. Keep away from electric motors by 3-6 feet.
7. As installation varies based upon individual pump stations, it may be necessary to cut existing pipes. A ¼" stainless steel plate will fit between any two existing or installed flanges after the pump and filter station.
8. Insert Turbulator unit into pipe. Install using one rubber gasket on each side. Finally, adjust the set screw appropriately to anchor the unit.
9. Please consult our specialist with any questions regarding chemical valves, metering devices, etc. Turbulator units can be customized for other sizes as well.
10. The Magnation Turbulator water treatment unit requires no maintenance, but should be occasionally inspected visually to check the integrity of the unit.

Built to last... with zero maintenance!

For more information please visit Rainlikewater.com or call us at 888 820 0363