

TECHNOLOGY BEHIND OUR PRODUCTS

MISTING AND EVAPORATIVE COOLING

Misting systems depend upon a process known as evaporative cooling to lower ambient temperatures; through this method, heat is reduced whenever water evaporates upon the flow or passage of air.

A basic example of evaporative cooling is feeling a cool breeze when you are walking close to the ocean on a sunny day.

HIGH PRESSURE MISTING

High pressure misting systems work by pumping water through rigid or flexible hose lines with attached small orifice nozzles that allow the pressurized water to be released in microscopic droplets. These water droplets are often referred to as fog, mist or water vapor.

High pressure misting systems produce dramatic and rapid results, usually in just a few seconds. Due to the fact that the mist is so fine, the water droplets evaporate in the air almost instantly without wetting. As a result of this, it is possible to dramatically reduce the temperature of outside areas by as much as 30 degrees or more.



VENTOMIST®

by



**vento
technologies**
AMBIENCE CONTROL INNOVATIONS

T. +1-281-724-8222
sales@ventotechnologies.com

[f /ventotechnologies](https://www.facebook.com/ventotechnologies)

[t @ventotech](https://twitter.com/ventotech)

www.ventotechnologies.com

VENTOMIST® BENEFITS

- ✓ Low purchase cost.
- ✓ Quick return on your investment.
- ✓ Significantly low electricity and water usage per day.
- ✓ Environmentally friendly products.
- ✓ No installation required (on portable models.)
- ✓ Immediate and drastic temperature reduction.
- ✓ Ability to enjoy and take control of outdoor activities and perform tasks where needed. (Even under direct sunlight.)



VENTOMIST® ADVANTAGES

High pressure misting units are very durable, made out of high quality components and very effective in lowering ambient temperatures in places where hot climates are predominant.

Our high pressure misting units utilize stainless steel and high pressure flexible hose lines with attached small orifice nozzles.

The pressure on our pumps is rated at 1,000 PSI; hence, the water droplets coming out of our stainless steel nozzles are very tiny and microscopic.

Moreover, the orifice at the end of our misting nozzles is very narrow, only a few microns. This is what allows our units to produce a very fine micro-mist of water droplets and reduce temperatures in the surrounding areas without wetting or leaving water residue.

PRODUCT APPLICATIONS

Ventomist® fans can be used in an impressive array of locations and settings: We have fixed (wall mounted) and portable models.

Misting is often used in a variety of residential and commercial applications such as hospitality, sporting facilities or venues.

Misting is also a proven solution in industrial applications, restaurant patios and terraces and in the cooling of animals in farms and stables.

The wide versatility of misting fans allows this technology to be depended upon for a wide variety of projects in which cooler or lower temperatures are desired.

HIGH PRESSURE PORTABLE MISTING UNITS

These units incorporate a 24-hour digital control panel with different programmable functions and settings and a long range remote control for a hands-free operation. They all have stainless steel misting rings and nozzles with an anti-drip mechanism. Finally, these oscillating fan heads allow the user to adjust the overall height of the unit and the angle or direction of the airflow (swiveling/tilting mechanism).

*The 36" High Pressure Portable Misting Fan (VTHPMF-3615-QP) does not oscillate, and it does not have an adjustable height feature on its fan head.

18" HIGH PRESSURE PORTABLE MISTING FAN

MODEL NUMBER: VTHPMF-1805

Features

- 18" diameter oscillating fan head, three speed, 0.15 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.05 amperes;
- 0.5 LPM high pressure misting pump (rated at 1,000 PSI), 115V, 60Hz (also available in 230V, 50-60Hz), 2.3 amperes. Includes 10 micron water filtration system;
- 16 Gal. Water Reservoir (60 L.)

Unit Dimensions (HxWxD):

74.8" x 21.3" x 27.6"

1.90m x 0.54m x 0.70m

Unit Weight: 108 lbs. – 49 kgs.

Air Flow: 5,900 CFM



24" HIGH PRESSURE PORTABLE MISTING FAN

MODEL NUMBER: VTHPMF-2405

Features

- 24" diameter oscillating fan head, three speed, 0.27 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.9 amperes;
- 0.5 LPM high pressure misting pump (rated at 1,000 PSI), 115V, 60Hz (also available in 230V, 50-60Hz), 2.3 amperes. Includes 10 micron water filtration system;
- 16 Gal. Water Reservoir – (60 L.).

Unit Dimensions (HxWxD):

78.7" x 26" x 27.6"

2m x 0.66m x 0.70m

Unit Weight: 116 lbs. – 53 kgs.

Air Flow: 9,150 CFM



30" HIGH PRESSURE PORTABLE MISTING FAN

MODEL NUMBER: VTHPMF-3010

Features

- 30" diameter oscillating fan head, three speed, 0.27 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.9 amperes;
- 1.0 LPM high pressure misting pump (rated at 1,000 PSI), 115V, 60Hz (also available in 230V, 50-60Hz), 4.0 amperes. Includes 10 micron water filtration system;
- 16 Gal. Water Reservoir – (60 L.).

Unit Dimensions (HxWxD):

81.1" x 32.7" x 27.6"

2.06m x 0.83m x 0.70m

Unit Weight: 120 lbs. – 54 kgs.

Air Flow: 8,865 CFM



HIGH PRESSURE PORTABLE MISTING UNIT WITH DUAL 30" FAN HEADS

MODEL NUMBER: VTHPMF-2X-3015-NP

Features

- Two 30" diameter oscillating fan heads. Three speed, 0.27 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.9 amperes-total of 3.8 amperes;
- 1.5 LPM high pressure misting pump (rated at 1,000 PSI), 115V, 60Hz (also available in 230V, 50-60Hz), 3 amperes. Includes 5 micron water filtration system.

Unit Dimensions (HxWxD):

94.7" x 32.7" x 26.7"

2.40m x 0.83m x 0.68m

Unit Weight: 296.3 lbs. – 134 kgs.

Air Flow: 8,865 CFM (on each fan head.)



36" HIGH PRESSURE PORTABLE MISTING FAN

MODEL NUMBER: VTHPMF-3615-QP

Features

- 36" diameter adjustable fan head, variable speed, 3/4 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 6 amperes;
- 1.5 LPM high pressure misting pump (rated at 1,000 PSI), 115V, 60Hz (also available in 230V, 50-60Hz), 5 amperes. Includes 5 micron water filtration system.

Unit Dimensions (HxWxD):

69.7" x 51.3" x 23.1"

1.77m x 1.30m x 0.59m

Unit Weight: 292 lbs. – 132 kgs.

Air Flow: 15,000 CFM



HIGH PRESSURE MISTING FAN HEADS (WALL MOUNTED)

These fan heads are shipped with a wall mount and include stainless steel misting rings and nozzles with an anti-drip mechanism. The metal fittings on these units have been treated with electroless nickel plating to avoid corrosion and water contamination (allowing for food grade misting in restaurants and inside food processing plants). These oscillating fan heads (except model number VTHPPMF-3615-QP, which does not oscillate) allow the user to adjust the angle or direction of the airflow (swiveling/tilting mechanism).

*These fan heads require a Ventomist® high pressure misting pump module to function as misting fans.

18" OSCILLATING MISTING FAN HEAD - BLACK

MODEL NUMBER: VTPFH-18B-OSC-WM

Features

- 18" diameter oscillating fan head, three speed, 0.15 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.05 amperes.

Unit Dimensions (HxWxD):

21.3" x 21.3" x 15"
0.54m x 0.54m x 0.38m

Unit Weight: 24.3 lbs. – 11kgs.

Air Flow: 5,900 CFM



24" OSCILLATING MISTING FAN HEAD - BLACK

MODEL NUMBER: VTPFH-24B-OSC-WM

Features

- 24" diameter oscillating fan head, three speed, 0.27 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.9 amperes.

Unit Dimensions (HxWxD):

26" x 26" x 13.4"
0.66m x 0.66m x 0.34m

Unit Weight: 33 lbs. – 15 kgs.

Air Flow: 9,150 CFM



30" OSCILLATING MISTING FAN HEAD - BLACK

MODEL NUMBER: VTPFH-30B-OSC-WM

Features

- 30" diameter oscillating fan head, three speed, 0.27 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 1.9 amperes.

Unit Dimensions (HxWxD):

32.7" x 32.7" x 10.2"
0.83m x 0.83m x 0.26m

Unit Weight: 48.5 lbs. – 22 kgs.

Air Flow: 8,865 CFM



36" HIGH PRESSURE FIXED MISTING FAN

MODEL NUMBER: VTHPPMF-3615-QP

Features

- 36" diameter adjustable fan head, variable speed, 3/4 H.P. electrical motor, 115V, 60Hz (also available in 230V, 50-60Hz), 6 amperes;
- 1.5 LPM high pressure misting pump (rated at 1,000 PSI), 115v, 60 Hz (also available in 230V, 50-60Hz) 4 amperes, includes 5 micron water filtration system;
- 24-hour digital control panel with different programmable functions and settings, includes long range remote control for a hands-free operation, stainless steel misting rings and nozzles, includes anti-drip mechanism.



Unit Dimensions (HxWxD):

57.5" x 45.1" x 16.5"
1.46m x 1.15m x 0.42m

Unit Weight: 262 lbs. – 119 kgs.

Air Flow: 15,000 CFM

HIGH PRESSURE MISTING PUMP MODULES

These high pressure misting pump modules are rated at 1,000 PSI (70 BAR) and include a 5 micron water filtration system. Our 3 different models incorporate a 24-hour digital control panel with different programmable functions and settings and a long range remote control for a hands-free operation.

* Also available in 230V, 50-60Hz.

MODEL	FLOW	POWER	DIMENSIONS (H x W x D)	WEIGHT
VTHPMPM-QP-3048	0.8 GPM 3 LPM	115V, 60 Hz. 6 Amp	20" x 17.7" x 26.7" 0.51m x 0.45m x 0.68m	81.5 lbs 37 kgs
VTHPMPM-QP-1524	0.4 GPM 1.5 LPM	115V, 60 Hz. 4 Amp	19.6" x 14" x 23.1" 0.50m x 0.36m x 0.59m	64 lbs 29 kgs
VTHPMPM-NP-1524	0.4 GPM 1.5 LPM	115V, 60 Hz. 3 Amp.	19.6" x 14" x 23.1" 0.50m x 0.36m x 0.59m	58 lbs 26 kgs

