

# **2014 CATALOG**





www.HydroMistUSA.com

New to misting systems?-

HydroMist is a division of Fan Technologies, Inc.

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Cool your environment without getting



wet!



HydroMist is a USA-based company which manufactures innovative and high quality misting systems. HydroMist products continually lead the industry in environmental cooling through a process called "Flash Evaporation." For cooling in conditions as harsh and rugged as a steel mill or in the serenity of your own backyard, HydroMist products have the design and functionality to meet the demands for both comfort and safety. Whether portable or mountable, all these systems consist of a highpressure pump, fan, connecting hoses, impeller-driven nozzles and controls to chill the air. HydroMist prides itself on offering many different cooling options depending on the application or customer's needs.

Where to start?

Portable Systems

These systems are up and running with minimal effort.

page 4

Mounted Systems



Create a custom installation that suits your cooling needs.

page 10

Packaged Systems





DIY without the hassle of guessing what is needed.

page 20

Parts & Accessories





Snag the parts to complete your cooling project.

page 24

Portable Systems





Heavy duty, durable shrouds focus the air stream for more efficient evaporation as well as keep the fans and employees safe from accidental bumping. Combine satellites and pumps to cover larger areas, while saving money. Heavy steel framework provides a stable and lasting structure.

- Event Venues
- Tailgating
- Sporting Arenas & Events
- Festivals
- Marathons
- Weddings
- Country Clubs
- Art Studios
- Work Shops/Garages
- Livestock
- Greenhouses

Portable Systems

Ideal for dust, odor and smoke suppression as well as cooling. ABS shroud focuses air flow and can take heavy bumping. Hardwearing, USA-made components last years.

## EXTREME 30" UNITS

1-speed fan cools 12,000 cubic feet of air per minute. 8-nozzle units work for most applications. 12-nozzle units create a damp cooling mist for applications that need moisture.

**EP** models are explosion-proof.

Available in orange or yellow.



These are the driving force of a system. They run independently with or without satellites. **HD** units can support more satellites, but require dedicated 30-amp power lines.

30", 8-nozzle	HMI-3005-8
30", 12-nozzle	HMI-3005-12
30", 8-nozzle, <b>HD</b>	HMI-3010-8
30", 12-nozzle, <b>HD</b>	HMI-3010-12

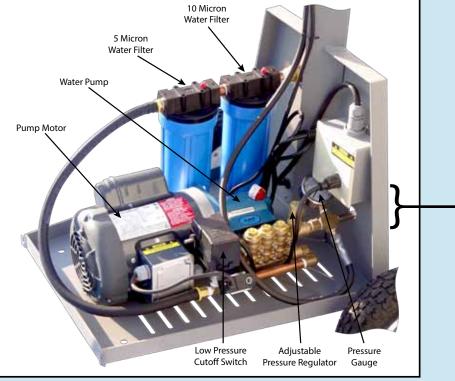
#### 2. 30" Satellite Fan Units

Satellites extend the effective cooling area by increasing volume without the cost and energy use of additional Pump Fan Units.

30", 8-nozzle	HMI-3000-8S
30", 12-nozzle	HMI-3000-12S
30", 8-nozzle, <b>EP</b>	HMI-3000-8SEP
30", 12-nozzle, <b>EP</b>	HMI-3000-12SEP

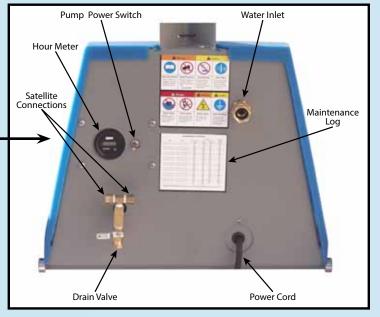
→ Extreme portable satellites require high pressure <u>rubber</u> hoses. See "High Pressure Rubber Hose" on page 30. Quick connects available.







## Back panel and pump internals are similar between 30" units and 24" units.



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## EXTREME 24" UNITS

Two-speed fan cools 7500 or 9600 cubic feet of air per minute. 4-nozzle units work for most applications. 8-nozzle units create a damp cooling mist for applications that need moisture.

24" models are <u>not available</u> as explosion-proof.

Available in blue or white.



## 3. 24" Pump Fan Units

These are the driving force of a system. They run independently with or without satellites. **HD** units can support more satellites, but require dedicated 30-amp power lines.

24", 4-nozzle	HMI-2405-4
24", 8-nozzle	HMI-2405-8
24", 4-nozzle, <b>HD</b>	HMI-2410-4
24", 8-nozzle, <b>HD</b>	HMI-2410-8

### 4. 24" Satellite Fan Units

Satellites extend the effective cooling area by increasing volume without the cost and energy use of additional Pump Fan Units.

24", 4-nozzle ...... HMI-2400-4S 24", 8-nozzle ..... HMI-2400-8S

→ Extreme portable satellites require high pressure <u>rubber</u> hoses. See "High Pressure Rubber Hose" on page 30. Quick connects available.

Portable Systems

## **COOL CADDIE™**

cool Fill And Go! caddie

At 1000 PSI, the Cool Caddie is designed to be the best selfcontained portable misting system in the marketplace. It quickly chills the air (up to 25°F) on even the hottest days of the seasons. Besides cooling, the mist can greatly dampen smoke from a BBQ grill and dust from dry fields and parking lots.

The 18" shrouded fan oscillates and has a variable-speed dial. It's amazingly <u>quieter than a standard</u> <u>house box fan</u>—you can easily stand next to it and carry a conversation.

Cool Caddie's best feature is the built-in water tank. <u>There is no need</u> to search out a water source or worry about someone tripping over a connected hose. The Cool Caddie can be filled with a bucket or garden hose (hose connection is filtered) and will run about four hours on the sixteen gallon tank. <u>Built-in safety switches</u> turn off the pump when the tank runs out.

If you prefer to have Cool Caddie on all day long, it can be run directly from a garden hose. A built-in switch keeps the tank from overfilling.

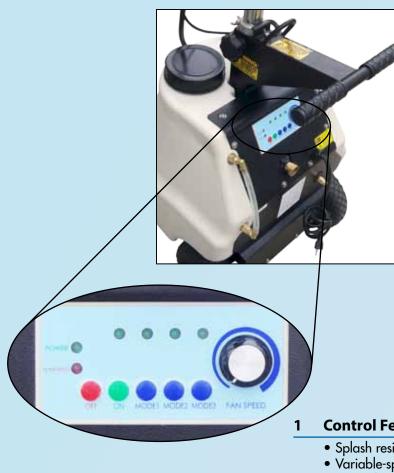
Commercial-grade wheels, locking casters, adjustable neck height and heavy duty handle make Cool Caddie very easy to move and transport whether empty or full.

Available in tan or black, the Cool Caddie is great for tailgates, hotels, sports practice, outdoor weddings, restaurants, patio kitchens, RVs, boat docks... wherever you want!



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## 1. Cool Caddie

Self-contained portable system with one fan and a 16-gallon tank. Fillable by filtered hose connection or directly into top of tank. Powder coated shroud and stainless steel grill with integrated misting ring. Beige or black fan shroud.

18", 5-nozzle, tan fan .....FTC-P-18-5 18", 5-nozzle, black fan ..... FTC-P-18-5B

#### ADDITIONAL DETAILS

- Variable-speed fan.
- Four misting cycle modes.
- Built-in water filter.
- Covers about 300 sq. ft.
- Noise Level: ~50dB
- Tank overflow safety switch.
- Low water safety switch.
- Totally enclosed pump and motor prevent shock from water splashes.

## **Control Features**

- Splash resistant.
- Variable-speed fan knob.
- LED indicators.
- Four misting cycles:
  - continuous mist
  - 15sec mist, 20sec no mist
  - 25sec mist, 30sec no mist
  - 40sec mist, 40sec no mist

Mounted Systems





If a system of portable units does not work for your situation, you can use fan modules with mounting brackets to create a custom installation. Fan heads connect to pump modules with hoses. Fan Tech's representatives are happy to help you design a system to fit your needs.

- Restaurants & Hotels
- Outdoor Patio & Pool Areas
- Dairy & Poultry Farms
- Marinas
- Amusement Parks
- Sport Courts
- Outdoor Kitchens & Living
- Outdoor Pavilions
- Clubhouses

What do I need for a mounted system?



## Plan Your Area

Determine the cubic feet of the area to be cooled, where to place the pump and where to mount the fans.

The pump needs power, water source and drainage.

Fans need power connections.

Choose Your Fans

Determine the size and quantity of fans you wish to install, based on the cubic footage you wish to cool.

Do you want the fans to oscillate?

Will you need strong fans to overcome much wind?

Select Your Pump

The more nozzles your system has, the larger the pump will need to be.

A standard duty pump can easily handle 2 or 3 small fans.

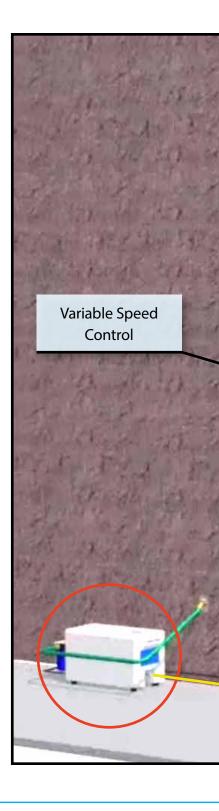
Consider a larger pump for future expansions.

Get Mounts, Hose & Accessories

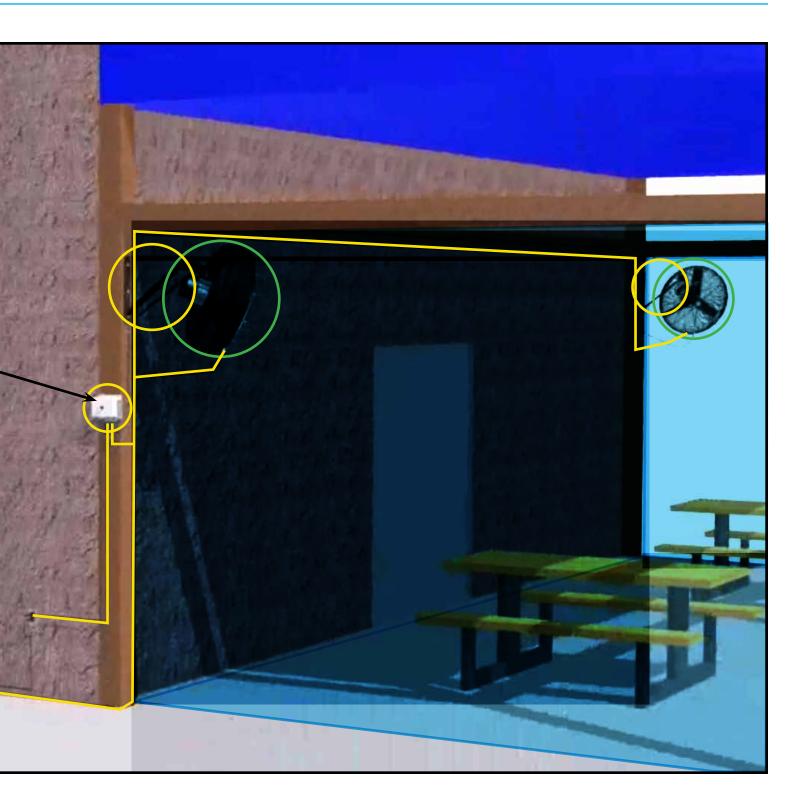
Select fan mounting brackets appropriate for placement. Get enough hose and fittings to daisy-chain the pump and the fans to each other.

Have a bottle of oil ready (*first 50 hours!*) as well as spare filters and misting nozzles.

Don't forget the hose mounting clamps!



This is a basic idea on how to create a system. Please discuss planning with your local dealer to determine the optimal system for your environment.



Mounted Systems

## **EXTREME MISTING FANS**

Ideal for warehouses, parks, sports, events, farms and other extreme environments. Bump resistant ABS plastic shroud focuses air flow. Hard wearing components last years.

#### 1. 30" Shrouded

8-nozzle units work for most applications. 12-nozzle units create a damp cooling mist for applications that need moisture.

- 30-inch blades.
- ABS shroud.
- Non-oscillating.
- 1 speed.
- 12,000 CFM max.
- 8 or 12 nozzles.

30", 8-nozzle	HMI-30-8
30", 12-nozzle	HMI-30-12

→ Extreme 30" fans require mounting brackets. See "30-in. Fan Mounting Brackets" on page 26.

#### 2. 24" Shrouded Oscillating

4-nozzle units work for most applications. 8-nozzle units create a damp cooling mist for situations where the application needs moisture.

- 24-inch blades.
- ABS shroud.
- Oscillating.
- 2 speeds.
- 9600 CFM max.

• 4 or 8 nozzles.

24", 4-nozzle ...... HMI-24-4 24", 8-nozzle ..... HMI-24-8

- → Extreme 24" fans require mounting brackets. See"24-in. & 20-in. Fan Mounting Brackets" on page 29.
- → Extreme misting fans require high pressure <u>rubber</u> hoses. Quick connects available. See "High Pressure Rubber Hose" on page 30.





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## HEAVY DUTY MISTING FANS

For heavy duty environments. UL rated for outdoor use & washdown.

## 3. 24" Caged

*Requires accessory part F10-09-003 to control speed.* Ask your dealer or call us for details about variable-speed controls for Heavy Duty Fans.

- 24-inch blades.
- Non-oscillating, Variable speed.
- 8000 CFM max.
- 8 nozzles.
- Hose washable.

24", 8-nozzle, black cage .... F10-01-005

## 4. 20" Caged

*Requires accessory part F10-09-003 to control speed.* Ask your dealer or call us for details about variable-speed controls for Heavy Duty Fans.

- 20-inch blades.
- Metal cage.
- Non-oscillating.
- Variable speed.
- 5500 CFM max.
- 4 nozzles.
- Hose washable.

20", 4-nozzle, black cage .... F10-01-004

- → Heavy duty fans require high pressure <u>nylon</u> hoses. See "High Pressure Nylon Hose" on page 30.
- → Heavy duty fans require mounting brackets. See"24-in. & 20-in. Fan Mounting Brackets" on page 29.

Mounted Systems

## **PROFESSIONAL MISTING FANS**

For moderate environments. Ideal for residential. Wall mounting bracket included. Five-foot wired remote control included. UL 507 rated for outdoor use.

#### 1. 24" Shrouded Oscillating

Three-speed fan cools 7600, 8300, 9100 cubic feet of air per minute. Stainless steel grill.

- 24-inch blades.
- Metal shroud.
- Stainless steel grill.
- Oscillating.
- 3 speeds.
- 9100 CFM max.
- Integrated ring with 8 nozzles.
- Wall mount included.

24", 8-nozzle, black shroud . . F10-01-006 24", 8-nozzle, white shroud . . F10-01-007

#### 2. 18" Shrouded Oscillating

Three-speed fan cools 3500, 4200, 5100 cubic feet of air per minute. Stainless steel grill.

- 18-inch blades.
- Metal shroud.
- Stainless steel grill.
- Oscillating.
- 3 speeds.
- 5100 CFM max.
- Integrated ring with 5 nozzles.
- Wall mount included.

18", 5-nozzle, black shroud . . F10-01-011 18", 5-nozzle, white shroud . . F10-01-012

➔ Professional fans require high pressure <u>nylon</u> hoses. See "High Pressure Nylon Hose" on page 30.

2 professional fan integrated misting ring is flush with front grill professional fan remote control



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## **CLASSIC MISTING FANS**

For moderate environments. Ideal for residential. Wall mounting bracket included. UL 507 rated for outdoor use.

## 1. 24" Caged Oscillating

Three-speed fan cools up to 5860, 7326 or 9157 cubic feet of air per minute. Stainless steel grill.

- 24-inch blades.
- Metal caae.
- Oscillating.
- 3 speeds.
- 9157 CFM max.
- Integrated ring with 4 or 8 nozzles.
- Wall mount included.

24", 4-nozzle, black cage .... F10-01-010 24", 8-nozzle, black cage .... F10-01-008

#### 2. 18" Caged

Three-speed fan cools up to 4068, 5086, or 6357 cubic feet of air per minute. Stainless steel grill.

- 18-inch blades.
- Metal cage.
- 3 speeds.
- 6357 CFM max.
- Integrated ring with 4 nozzles.
- Wall mount included.

18", 4-nozzle, black cage .... F10-01-014

→ Classic fans require high pressure <u>nylon</u> hoses. See "High Pressure Nylon Hose" on page 30.

Mounted Systems

## **EXTREME PUMPS**

Dual filtration. Hard wearing components last years. Bump resistant ABS plastic cover.

#### 1. 1.0gpm HD Pump

Supports up to 40 nozzles. Requires a dedicated 30-amp power line. Dual-filtered.\*

1.0gpm Pump, **HD** ..... HMI-10

#### 2. 0.5 gpm Pump Supports up to 20 nozzles. Dual-filtered.\* 0.5gpm Pump ......HMI-05

➔ Extreme misting fans require high pressure <u>rubber</u> hoses. See "High Pressure Rubber Hose" on page 30. Quick connects available.

## **HEAVY DUTY PUMPS**

Dual filtration. Programmable misting cycles. Shut off timer.

### Control features:

- Splash resistant.
- Backlit LCD screen.
- Custom programmable misting cycles.
- Shut off timer.

3. Super Capacity

Supports up to 64 nozzles. Dual-filtered.\*

Super Capacity.....F10-04-001

## 4. High Capacity

Supports up to 32 nozzles. Dual-filtered.\*

High Capacity.....F10-04-002

→ Heavy duty fans require high pressure <u>nylon</u> hoses. See "High Pressure Nylon Hose" on page 30.

\* filter(s) included





## **PROFESSIONAL PUMPS**

Single filtration and selectable misting cycles.

- Control features:
- Splash resistant.
- LED indicators.
- Four misting cycles:
  - continuous mist
  - 15sec mist, 20sec no mist
  - 25sec mist, 30sec no mist
  - 40sec mist, 40sec no mist

#### 5. Standard Capacity

Supports up to 12 nozzles. Singlefiltered.\*

Standard Capacity ......F10-04-003

- ➔ Professional fans require high pressure <u>nylon</u> hoses. See "High Pressure Nylon Hose" on page 30.
- \* filter(s) included

Misting Fan & Ring Packages





Preconfigured complete installations. Great for a DIY project. You can just grab a system and get started.

Misting *fan* packages are a complete solution for locations that have no cooling system.

Misting *ring* packages are a readymade solution for locations that already have fans, and would like to improve their cooling abilities.

Misting Fan & Ring Packages

## **MISTING FAN PACKAGES**

Complete setup for a misting fan system.

#### 1. Two Misting Fans System

Great for a medium patio, sport halfcourt or small pavilion. Expandable with 2 more similar fans or 16 nozzles on a misting line.

- Two black professional 24" 3-speed, oscillating fans (F10-01-006.)
- Fan mounting brackets and remote controls included.
- One heavy duty high capacity filtered pump (F10-04-002.)
- 50 feet of nylon hose, hose cutter included.
- 4 elbows, 1 tee, 10 hose clamps.

Black Fans	R-H-2-24-8B
White Fans	R-H-2-24-8W

#### 2. One Misting Fan System

Great for a small patio or outdoor cooking area. Expandable with 1 more similar fan or 7 nozzles on a misting line.

- One white professional 18" 3-speed, oscillating fan (F10-01-012.)
- Fan mounting bracket and remote control included.
- One professional standard capacity filtered pump (F10-04-003.)
- 25 feet of nylon hose, hose cutter included.
- 2 elbows, 5 hose clamps.







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## MISTING CONVERSION KITS (FOR EXISTING FANS)

Complete setup to upgrade existing fans to a misting system.

#### 3. Two Rings Conversion Kit

Expandable with 2 more similar rings or 16 nozzles on a misting line.

- Two 18" misting rings (F10-11-004.)
- One heavy duty high capacity filtered pump (F10-04-002.)
- 50 feet of nylon hose, hose cutter included.
- 4 elbows, 1 tee, 10 hose clamps.

Two 18" rings, 16 noz. tot . . C-CKH-2-18-8

#### 4. One Ring Conversion Kit

Expandable with 2 more similar rings or 8 nozzles on a misting line.

- One 16" misting rings (F10-11-003.)
- One professional standard capacity filtered pump (F10-04-003.)
- 25 feet of nylon hose, hose cutter included.
- 2 elbows, 5 hose clamps.

One 16" ring, 4 noz. tot .... C-CKS-1-16-4

Parts & Accessories



Individual components are available to create a customized system or layout of several systems. Fan Tech's representatives are happy to help you configure a layout to fit your needs or expand your existing system.

- Mounting Brackets
- Hoses
- Consumables
- Fittings & Hardware
- Misting Rings
- Control Boxes
- Nozzles/Plugs

## Parts & Accessories

## 30-IN. FAN MOUNTING BRACKETS

Several styles of mounting brackets are available for ceiling, wall, post or self-standing installations. Installer is responsible for drilling, tapping, welding or otherwise attaching mounts to surfaces.

#### 1. Ceiling

Available bolt holes are: 4 on top, 2 on side. 10.5" drop from ceiling. Powder coated.

Ceiling, Tilt Only .....CM-30

#### 2. Wall

Angle bracket with 2 side bolt holes. Fan cage extends above top of arm. Powder coated.

a) Wall, Tilt/Swivel.....WM-30TS b) Wall, T/S, Low Profile.... WM-30TS-LP

#### 3. Post

Powder coated metal plates with bolt holes for fans. Positioning ability depends on model.

a) Post, Fixed Position ......PM-30F b) Post, Tilt Only.....PM-30T c) Post, Tilt/Swivel.....PM-30TS

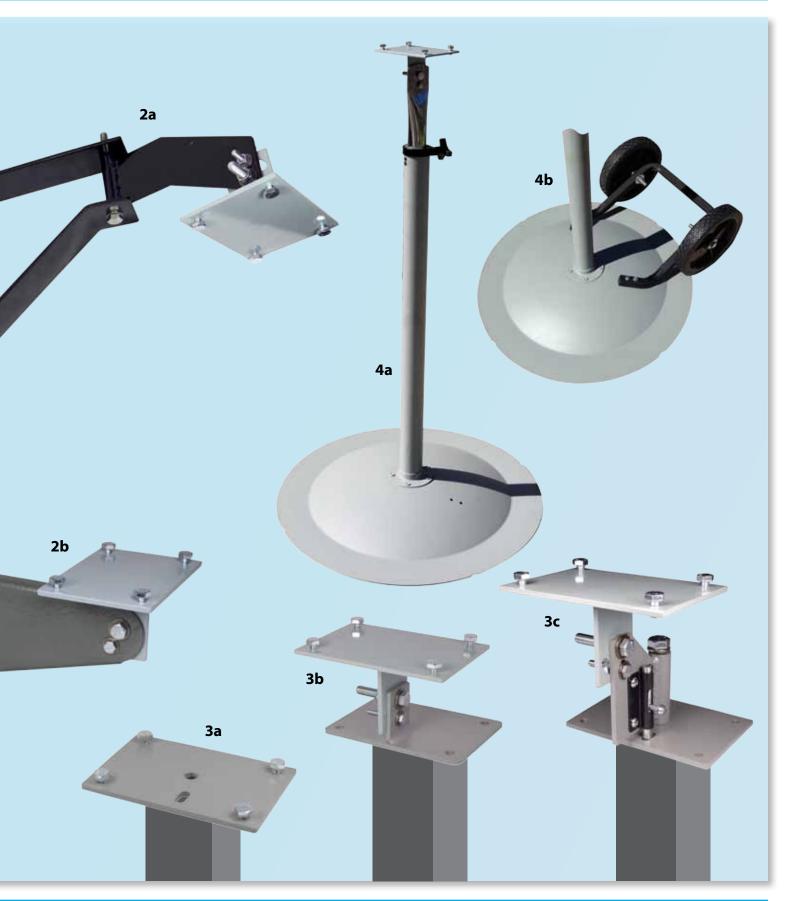
#### 4. Self-Standing Post

Height adjustable 42" to 60". Base has a 27" diameter. Pre-drilled for optional wheel kit. Powder coated.

a) Standing Pedestal, T/S ..... PDM-30T b) Wheel Kit for Pedestal .... F10-05-002



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## Parts & Accessories





## HydroMist<sup>™</sup> 2014 Catalog

## 24-IN. & 20-IN. FAN MOUNTING BRACKETS

Several styles of mounting brackets are available for ceiling, wall, post or self-standing installations. Installer is responsible for drilling, tapping, welding or otherwise attaching mounts to surfaces.

24" & 20" fans have attachment points that naturally allow for tilting.

### 1. Ceiling

Available bolt holes are: 4 on top, 2 on side. 9.75" drop from ceiling or 18.5" drop from ceiling (EXT model.) Powder coated.

a) Ceiling, Tilt Only .....CM-24 b) Ceiling, Tilt, Extended ..... CM-24-EXT

#### 2. Wall

Angle bracket with 2 side bolt holes. Fan cage extends above top of arm. Powder coated.

a) Wall, Tilt/Swivel.....WM-24TS b) Wall, T/S, Low Profile.....WM-24TS-LP

### 3. Post

Powder coated metal plates with bolt holes for fans. Positioning ability depends on model.

a) Post, Tilt Only.....PM-24T b) Post, Tilt/Swivel.....PM-24TS

#### 4. Self-Standing Post

Height adjustable 42" to 60". Base has a 27" diameter. Pre-drilled for optional wheel kit. Powder coated.

a) Standing Pedestal, T/S . . . . . PED-MNT b) Wheel Kit for Pedestal . . . . F10-05-002

Parts & Accessories

## FOR EXTREME ONLY

#### 1. High Pressure Rubber Hose

Connections are 1/4" FNPT.

a) 6' HPH-06
8' HPH-08
10'HPH-10
25'HPH-25
50'HPH-50
100'HPH-100
b) Quick Connects (1 end) F08-15-001

#### 2. Fittings & Hardware

For connecting hose, fans and pumps together. 1/4" NPT.

a) Coupler, Female	F08-07-003
b) Coupler, Male	F08-03-011
c) Tee Coupler, Male	F08-05-004
d) Cap	
e) Ball Valve, Male/Female.	

#### 3. Consumables

ISO-68 crank case oil. Needs to be changed after first 50 hours, and then every 3 months to maintain warranty. Change the water filters as necessary. Replace stainless steel nozzles as needed.

a) Oil, Bottle, 21oz	.F02-06-001
b) 5-Micron Filter	.F06-02-001
c) 10-Micron Filter	.F06-02-002
d) Extreme Misting Nozzle	. F01-06-001

## FOR HEAVY DUTY ONLY

#### 4. Variable Speed Control

Without this control, Heavy Duty fans are always on at max speed while plugged in. *Controls 2 fans as-is.* 

a) Variable Speed Control	.F10-09-003
b) Electrical Junction	.F10-09-006
c) Electrical Tee Junction	.F10-09-007
d) Electrical Cable	.F04-06-001

## FOR HEAVY DUTY & PROFESSIONAL

## 5. High Pressure Nylon Hose

Requires 3/8" compression fittings.

a) By The Foot ..... F10-07-001 b) Nylon Tube Cutter ...... F10-09-005



MANUAL VARIABLE BREED CONTROL MVS

**4c** 



Housing

## HydroMist<sup>™</sup> 2014 Catalog

## 6. Fittings & Hardware

3/8" compression fittings.

a) Ball Valve	F10-06-012
b) Inline Nozzle Connector	F10-06-001
c) Pump Adaptor	F10-06-002
d) Tee Coupler	F10-06-003
e) Elbow Coupler	F10-06-004
f) End Nozzle Connector	F10-06-005
g) Hose Mounting Clamp	F10-06-007

#### 7. Consumables

ISO-68 crank case oil. Needs to be changed after first 50 hours, and then every 3 months to maintain warranty. Change the water filters as necessary. The proprietary impeller-driven misting nozzles prevent leaking when water pressure is relieved. Plugs are used to stop misting at certain points, when desired.

a) Oil, Bottle, 21oz	F02-06-001
b) 5" Filter	F10-10-001
c) Misting Nozzle	F10-08-001
d) Non-Misting Plug	F10-08-002

### 8. Misting Rings

18" rings are best used with 24" to 30" fans. 16" rings are best used with 18" to 20" fans. Pump adaptor included.

a) 16", 4 nozzles	F10-11-003
b) 18", 8 nozzles	F10-11-004

## FOR ALL SYSTEMS

#### High Pressure Garden Hose (not pictured)

Standard garden hose is insufficient for feeding high-pressure systems over long periods of time.

c) 5' HP Garden Hose...... F10-10-009 d) 10' HP Garden Hose...... F10-10-010

#### **General Hardware**

For convenience, we offer construction screws, cable ties, drill bits, etc. Check price book for complete list and prices.

Our Story...

Fan Technologies, Inc. is a DBA of Flame Technologies, Inc.

Flame Tech is a 30-year established manufacturer of professional-grade equipment for the cutting, heating and welding of metals, as well as steel industry needs.

We obtained the HydroMist<sup>™</sup> (extreme portable) products as a complement to our steel industry offerings, since mills are very hot and general air conditioning is not very effective. Since then, we have improved upon the design and also expanded our product offering to include the heavy duty and professional fans and pumps, as well as their supporting accessories.



## FAN TECH WARRANTY

All Fan Tech products are warranted for a period of one (1) year for defects in workmanship and materials under normal use and service.

## Please see website or owner's manual for full details of this warranty.



a division of Fan Technologies, Inc.

Call: 512-225-0923 Email: orders@fantechnologies.com http://www.HydroMistUSA.com

## Fan Technologies, Inc.

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