The Power of Misting

How Does it Work?

We make the mist; Mother Nature does the rest. When ultra fine water droplets (mist / fog) are introduced into the atmosphere, they quickly absorb the energy (heat) present in the environment causing the liquid water to change state and become a gas (water vapor). In the process, the air is cooled by an natural process (endothermic reaction) known as evaporative cooling.

CLOUDBURST high pressure misting fans and misting line systems are designed to efficiently introduce a super fine mist into the area to be cooled which almost instantly evaporates (flash evaporative cooling). In the case of our misting fans, CLOUDBURST combines evaporative and convective cooling (wind chill factor) to achieve spectacular results.

When Only The Best Will Do
Cloudburst Misting Systems only uses the highest quality components to build some of the most used and respected misting products in the world. Everything from our nozzles to our pumps are made and/or assembled in the USA and are backed by the longest warranties and best service in our industry.
The misting pump is by far the most important part of any mid or high pressure misting system. It is asked to drive very little water at very high pressures—sometimes for hours or days at a time. This puts a strain on all the moving parts and if it not built with the right components it can and will mean the difference between a trouble free system and a system plagued with repairs, down time and a lot of customer frustration.

Cloudburst Misting Systems’ Pumps are all made from the very best commercial grade components. From our Cat Pumps & Baldor Motors to Premium Solenoids and Pressure Switches, our pumps are some of the best preforming, longest lasting pumps on the market. Our Premium Triplex Pump line is rated for continuous use and up to 5000 hours between service. We still have pumps in service since 1994!

Questions? Call 805-986-4125

3 Year Pump Warranty on Defects & Performance
Models: CB405, CB410, CB420 and CB401 series - Best warranty in its class
(See warranty or call for complete details)

Premium Tri-Plex Plunger Pump

<table>
<thead>
<tr>
<th>Model</th>
<th>GPM</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB405</td>
<td>0.5</td>
<td>High Pressure Pump</td>
</tr>
<tr>
<td>CB410</td>
<td>1.3</td>
<td>High Pressure Pump</td>
</tr>
<tr>
<td>CB420</td>
<td>2.2</td>
<td>High Pressure Pump</td>
</tr>
</tbody>
</table>

- Premium CAT Triplex Pump Module & Baldor (or equivalent) Direct Drive, Fan Cooled, Continuous Use Outdoor Rated Motor.
- Industrial Grade Water Pressure Switch (won’t run dry) & Solenoid Valve,
- Glycerin Filled Pressure Gauge,
- Pressure Regulator (easy to set from 0 to 1200 PSI)
- Water Proof On/Off Toggle Switch
- 2 Stage Filter - (5 micron Sediment Filter with Calcium Inhibiting Hexaphosphate),
- Powder Coated or Stainless Steel Enclosure.
High Efficiency Pump

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB400-25</td>
<td>0.25 GPM High Pressure Pump (800 PSI)</td>
</tr>
<tr>
<td>CB400</td>
<td>0.5 GPM High Pressure Pump (800 PSI)</td>
</tr>
<tr>
<td>CB402</td>
<td>Same as 400, except with dual manifold</td>
</tr>
</tbody>
</table>

High efficiency Pump Module with Solenoid Valve, Filtration and pressure switch. Powder coated steel Enclosure with Pressure Gauge.

Mid Pressure Pump

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB380</td>
<td>180 PSI continuous duty diaphragm booster pump. Powder coated steel enclosure, water toggle switch. Supports up 40-.008’ nozzles</td>
</tr>
<tr>
<td>CB380-PO</td>
<td>-Pump Only- 180 PSI Diaphragm Booster Pump w/o Case (electrical cord &amp; plug only)</td>
</tr>
</tbody>
</table>

We build High Pressure Belt Driven Pumps up to 72 GPM and Direct Driven Pumps up to 12 GPM.

Whatever your project requires we can make it happen: Whether it’s cooling a Giraffe in St. Louis, an athlete at the Olympics, a Steel Mill in Mexico or creating a Cooling Tornado in Dubai.

Open Frame HP Pump

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB401-.25</td>
<td>0.25 GPM - High Pressure Pump</td>
</tr>
<tr>
<td>CB401-.50</td>
<td>0.5 GPM - High Pressure Pump</td>
</tr>
<tr>
<td>CB401-1.0</td>
<td>1.0 GPM - High Pressure Pump</td>
</tr>
<tr>
<td>CB401-2.2</td>
<td>2.2 GPM - High Pressure Pump</td>
</tr>
</tbody>
</table>

Same high quality as our Premium Tri-Plex pumps built in an open frame style.

*some components may vary in configuration

Questions? Call 805-986-4125
Misting Fans

All Misting Fans are Not Created Equal

Cloudburst Misting Systems® has been manufacturing one of the best selections of quality indoor and outdoor Misting Fans available since 1994. Here are just a few things that set us apart from our competition:

• Our Misting Fans are commercial grade, UL Listed for outdoor use and/or use fully enclosed motors.
• They come in either stainless steel or powder coated steel with a second custom coat of Rust-Oleum paint (upon request).
• They can be color matched to specifications (call for details).
• They come with stainless steel mist rings or our patented mist hub.

Generally speaking, to achieve maximum cooling in indoor or protected areas you will want to transfer the total volume of air in the space being cooled every 2 to 3 minutes. The appropriate transfer time will depend on the spaces insulation, how closed in it is (is it a warehouse or a canopy?), prevailing humidity, probable humidity increase and the total temperature drop desired. When cooling indoor areas, it is important to remember that you will need to take advantage of any natural flow of air. You can check for existing ventilation by turning on the mist without the fan on and watch where the mist goes. You will also need to determine your source of outside air and where your outlet for the air is. Very often the outlet will be a door or a window on the opposite side of the structure from the inlet air.

Questions? Call 805-986-4125

All of our Misting Fans and Kits come with the best warranties in the industry - 3 years on all fan parts & lifetime warranties on the mist rings, tubing, and fittings.

Jamerat Bridge, Saudi Arabia - 2011 to 2013. (Eighty) "State of the Art" 52" misting fans with triple mist rings and 240,000 BTU’s/hr potential cooling per fan.

Dodgers Stadium, 1995. Tony Lasorda enjoying the very first portable sports misting fan ever made.

A leading supplier of National and Collegiate sideline sports misting.
Sideline Fans

**CB2000  Economy Mid Pressure**

Includes (2) 24” Oscillating Misting Fan with Poly Styrene Shroud and wheels, #CB380 160PSI Booster Pump Module and mid pressure feed lines.

**CB2002  Professional High Pressure**

Includes (2) 24” Oscillating Misting Fan w/ Poly Styrene Shroud and Turf Tires, #CB400 Coldblast 1000PSI Pump Module and high pressure feed lines with quick disconnects.

**CB2004  Professional High Pressure**

Includes (4) 24” Oscillating Misting Fan w/ Poly Styrene Shroud and Turf Tires, #CB410 Commercial 1200PSI Pump Module and high pressure feed lines w/ quick disconnects.

Dugout Systems

**CB718-2**

Two 18” Wall or Ceiling mounted 3-speed Fans CB618 with 4-Nozzle Stainless Steel Misting Rings and 40’ 1/4” High Pressure Nylon Tubing. 800 PSI Misting Pump Module CB400-25 with Filtration and Dual Manifold.

Questions? Call 805-986-4125
Factory 50 length x 80 width x 15 ceilings. Totally enclosed structure with fairly good insulation. Complete air transfer every 2 minutes.

Calculation of Volume: Length x Width x Ceiling Height = 50 x 80 x 15 = 60,000 cubic feet. Volume / (Fan Volume x Transfer Time) = 60,000 / (7500 cf x 2 minutes) = 4 fans

Four fans will completely transfer the air in this structure every two minutes and should effectively cool this factory. The fans should be placed in the oscillation mode to spread the mist throughout the factory and should be pointed in a direction that keeps the air flow moving in the desired direction.

Tips for Indoor Misting

Positive Pressure Ventilation
The CLOUDBURST High Efficiency Portable Cooler is placed on the outside of the structure so that the “air cone” completely seals the opening (A). When this seal is achieved, the air pressure is increased equally at all points inside the structure. When an exhaust opening is created (B), all of the interior air moves in one mass. This results in faster, more efficient ventilation of the entire structure. In a large space, additional misting fans should be placed within the structure to achieve maximum cooling. By using this technique, it would be possible to use only 3 fans, with larger orifice nozzles.

Fan Application Example

Factory 50 length x 80 width x 15 ceilings. Totally enclosed structure with fairly good insulation. Complete air transfer every 2 minutes.

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Questions? Call 805-986-4125
Pedestal Coolers
Fan and Pump Modules

Helpful Hints
Whenever possible use any natural breeze or air flow to your advantage (point the fan the same way the air is moving)
- Use Positive Pressure Ventilation techniques wherever applicable (See discussion of Positive Pressure Ventilation techniques)
- In places where it is either impossible or un-economic to cool the whole structure set up smaller cool areas. In most applications mist should be directed slightly above head level.

CB724
24” Industrial Cooler
24” 3-speed Industrial Pedestal Fan with OSHA guard and wheels. 8 nozzle stainless mist ring powered by .25 GPM 1000 PSI misting pump module with integral filtration.

CB724MID
24” Mid Pressure Cooler
Same as model CB724, except has a .5 GPM 180 PSI misting pump module.

CB730
30” Industrial Cooler
30” 3-speed Industrial Pedestal Fan with OSHA guard and wheels. 10 nozzle stainless steel mist ring powered by .25 GPM 1000 PSI misting pump module with filtration.

Rolling Cart Coolers
Fan and Pump Modules

CB724L
24” Industrial Cooler
24” oscillating 3-speed Industrial Fan mounted to sturdy rolling cart with 8 nozzle stainless steel mist ring powered by .25 GPM 1000 PSI misting pump module with integral filtration.

CB730L
30” Industrial Cooler
30” non-oscillating 3-speed Industrial Fan mounted to sturdy rolling cart with 10 nozzle stainless steel mist ring powered by .25 GPM 1000 PSI misting pump with integral filtration.

CB726
High Velocity 36” Industrial Cooler
High Velocity 36” Fan mounted on rolling base. Dual 10/8 nozzle stainless steel Misting Rings powered by Coldblast® continuous duty .25 GPM 1000 PSI misting pump.

CB736OSC
High Velocity 36” OSC Industrial Cooler
High Velocity 36” Oscillating Fan mounted on rolling base. Dual 10/8 nozzle stainless steel Misting Rings powered by Coldblast® continuous duty .25 GPM 1000 PSI misting pump.
Satellite Misting Fans

Many residents & businesses are just now realizing that High Pressure Misting (Fogging) is a very effective & efficient way to cool down large areas even in high humidity climates. In fact, many very humid areas are among our fastest growing areas since 2006.

This is in part because people are finally being educated to the fact that high pressure mist systems can cool down any area in any climate as long as they are installed properly.

With the use of the appropriate size mist nozzles, proper nozzle & mist line placement, pump size and the correct use of misting fans, we can cool down almost any area as much as 30º with out getting anyone wet.

This is because we have the capability of producing such a fine mist droplet that it evaporates almost instantly even in the most humid conditions.

So whether you live in the dry or humid area, we can keep you cool & dry.

14” Misting Fan
Non Oscillating
4 Nozzles
14” Diameter
3 speeds
1200/1350/1490 RPM
2600/3300/4000 CFM

Our smallest satellite fan with 4 misting nozzles and 3 speeds. Great for smaller areas or where space is an issue.

18” Misting Fan
Non Oscillating
4 Nozzles
18” Diameter
3 speeds
1000/1400/1570 RPM
3800/4800/6600 CFM

A bigger version of our 14” satellite fan with 4 misting nozzles and 3 speeds.

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4 Nozzles
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A bigger version of our 14” satellite fan with 4 misting nozzles and 3 speeds.

24” Misting Fan
With and without oscillation
6 or 8 Nozzles
24” Diameter
3 speeds
700/900/1100 RPM
5200/6200/7200 CFM

Our most popular oscillating satellite fan with 6 or 8 misting nozzles and 3 speeds.

24” Misting Fan
With and without oscillation
6 or 8 Nozzles
24” Diameter
3 speeds
700/900/1100 RPM
5200/6200/7200 CFM

Our most popular oscillating satellite fan with 6 or 8 misting nozzles and 3 speeds.

30” Misting Fan
With and without oscillation
8 or 10 Nozzles
30” Diameter
3 speeds
700/900/1100 RPM
6200/7200/8200 CFM

A bigger version of our popular 24 inch oscillating satellite fan with 8 or 10 misting nozzles and 3 speeds.

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With and without oscillation
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A bigger version of our popular 24 inch oscillating satellite fan with 8 or 10 misting nozzles and 3 speeds.

36” Misting Fan
With and without oscillation
10 or 12 Nozzles
36” Diameter
Single speed
840 RPM
11676 CFM

Our biggest oscillating misting fan. This fan is surprisingly quiet and outputs a very large CFM creating an optimum cooling area.

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With and without oscillation
10 or 12 Nozzles
36” Diameter
Single speed
840 RPM
11676 CFM

Our biggest oscillating misting fan. This fan is surprisingly quiet and outputs a very large CFM creating an optimum cooling area.

* Fan performance quoted for 115Volt / 60HZ. Most fans and all pumps available in 220Volt / 50HZ
** For 220V/50Hz: CB624-OSC and CB630-OSC not available. Fan Size CB614 = 12” / CB618 = 20”

Questions? Call 805-986-4125
**Portable Coolers**

**Fan(s) with Tank**
2 Oscillating Fans w/ 50 Gallon Tank on Cart w/ 1/2 GPM 1200PSI Pump Module and integral Filtration. (can be built in numerous Fan configurations)

**CB836**
36” Fan with Tank
36” Fan w/ 50 Gallon Tank on Cart w/ 1/2 GPM 1000PSI Pump Module and integral Filtration. (can be made with any Satellite Fan )

**CB836-OSC**
36” Fan with Tank
2 Oscillating Fans w/ 50 Gallon Tank on Cart w/ 1/2 GPM 1200PSI Pump Module and integral Filtration. (can be built in numerous Fan configurations)

**CB850**
Tank with Pump
36” Fan w/ 50 Gallon Tank on Cart w/ 1/2 GPM 1000PSI Pump Module and integral Filtration. (can be made with any Satellite Fan )

**COOLERMAX™**
The Only Cooler Based System Powerful Enough to Run Both a Misting Fan &/or 10 Nozzle Mist Line at up to 180 PSI and cools up to 800 square feet.
- 180 PSI Pump for excellent quality mist
- 10 Nozzle Mist Line Kit w/ Push Lock Fittings & On/Off Valve
- 15 Gallon Cooler on Wheels for up to 6 hours run time
- Brass & Stainless Steel Nozzles for the finest Mist possible
- UL Rated Outdoor Water Proof Fan & Water Tight Switch Box
- Our Patented 6 Nozzle Mist Hub for Cooling Power & Flexibility (adjustable from 3-6 nozzles)
- Standard 110 Volt Easily Converts to 12 Volt with Inverter

**windchiller™**
A quantum leap in the advancement of Handheld Personal Misting Fans, the Windchiller™, is the only Personal Mister that combines an ultra fine mist (not a wet spray) with a powerful Personal Fan for unbeatable outdoor cooling Anywhere, Anytime, even when it’s humid - No Ice Required!

Questions? Call 805-986-4125
Outdoor Cooling
And the heat index

The ability to cool outdoor areas depends on three factors - the wind, temperature and humidity. With either light wind or no wind you can achieve some remarkable results depending on temperature and humidity. In outdoor areas, normally .008” or .012” nozzles are employed. In these areas, the use of misting fans can help move the cooled area to the desired location or spread it over a large location. Fans are especially helpful in areas with high humidity - 60% and above.

Cooling outdoor areas is relatively straight forward and can be broken into 2 different types:

Athletic and Amusement Cooling: In this type of cooling, the people don’t mind getting damp, and more often then not prefer it. Generally, fans are placed at head height so people can stand directly in front of the fan. Factories/Hospitality When cooling a large area where the people don’t want to notice the moisture. The fan(s) should be set at their highest level with the fan, aimed slightly above the horizon with the oscillation set to match the area being cooled. If possible place the fan 10’ to 20’ behind the area to be cooled. This will allow the cooled air to settle and keep the units sound from being bothersome.

### Heat Index (HI)

Heat Index (HI) is an index that combines air temperature and relative humidity to determine an apparent temperature how hot it actually feels.

<table>
<thead>
<tr>
<th>Temperature (°F)</th>
<th>80</th>
<th>90</th>
<th>100</th>
<th>105</th>
<th>110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90%</td>
<td>142°</td>
<td>129°</td>
<td>118°</td>
<td>109°</td>
<td>98°</td>
</tr>
<tr>
<td>80%</td>
<td>133°</td>
<td>122°</td>
<td>113°</td>
<td>105°</td>
<td>90°</td>
</tr>
<tr>
<td>70%</td>
<td>111°</td>
<td>102°</td>
<td>94°</td>
<td>86°</td>
<td>79°</td>
</tr>
<tr>
<td>60%</td>
<td>99°</td>
<td>90°</td>
<td>82°</td>
<td>74°</td>
<td>68°</td>
</tr>
<tr>
<td>50%</td>
<td>88°</td>
<td>81°</td>
<td>74°</td>
<td>67°</td>
<td>61°</td>
</tr>
<tr>
<td>40%</td>
<td>79°</td>
<td>72°</td>
<td>65°</td>
<td>58°</td>
<td>52°</td>
</tr>
<tr>
<td>30%</td>
<td>72°</td>
<td>66°</td>
<td>59°</td>
<td>52°</td>
<td>46°</td>
</tr>
<tr>
<td>20%</td>
<td>66°</td>
<td>60°</td>
<td>53°</td>
<td>47°</td>
<td>41°</td>
</tr>
<tr>
<td>10%</td>
<td>60°</td>
<td>54°</td>
<td>48°</td>
<td>42°</td>
<td>36°</td>
</tr>
</tbody>
</table>

### Questions?
Questions? Call 805-986-4125

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Misting and Humidity
Will a misting system work for me?
Yes. The evaporative cooling concept will work any time you are able to achieve evaporation (See “How does it work?”). The more complete the evaporation, the more effective the system will work. For areas with humidity above 80%, temperature reductions will be as high as 10º. For humidity levels between 40% and 80%, temperature reductions will be as high as 20º. Below 40% humidity, the temperature reductions may be as much as 35º.

Will the mist get me wet?
You will only get wet if you are standing within 6’ of the misting nozzle.

Complete Mist Fan Kits

**Puremist (1 fan)**
Mid pressure pump (model CB380) with 8 nozzle stainless steel mist ring and 10’ of high pressure feed line.

**Puremist (2 fans)**
Same as model CB381, except has dual manifold and (2) 6-nozzle mist rings with 10’ and 20’ of high pressure feed line.

**Coldblast (1 fan)**
High pressure pump (model CB400-25) with 8-nozzle stainless steel mist ring and 10’ of high pressure feed line

**Coldblast (2 fans)**
Same as model CB500, except has dual manifold and (2) 6-nozzle mist rings with 10’ and 20’ of high pressure feed line.

Cloudburst carries the best warranties in the industry. 3 years on all fan parts and pumps with a lifetime warranty on mist rings, tubing, and fittings. See warranty or call for details
Mist Cooling works by forcing water through our specially designed mist nozzles; this creates a mist (fog) of ultra fine water droplets with an average size of 25 microns or less. With high pressure mist cooling you will get an even smaller droplet size, as little as 5 microns. This creates a surface area larger than a football field from just one gallon of water. Imagine how quickly that will evaporate! These tiny water droplets (fog) quickly absorb the energy (heat) present in the environment and evaporate, becoming water vapor (gas). The energy (heat) used to change the water to a gas is eliminated from the environment, hence the air is cooled.

Just 1 Gallon of water has the potential cooling of 8000 BTUs / hr. Our High Pressure Mist Cooling Systems deliver .25 GPM to 25 GPM. That’s a lot of BTUs!

Myths of Humidity

How does relative humidity affect Mist Cooling?

Relative humidity is the amount of moisture (water) in the air compared to the amount of moisture the air could absorb at the same temperature. This is a crucial factor in determining the maximum outdoor mist cooling potential. The lower the relative humidity, the more water can be vaporized allowing more heat to be removed.

To accurately determine how effective mist cooling will be for your area, you must first know the “Real” Humidity during the time of day you will be most likely to use a mist cooling system. Most people think that the humidity reported by the local weatherman is the actual humidity all day long. In fact, it is usually only the highest humidity level for that day. This is misleading because the humidity dramatically lowers as the temperature rises. As an example: The humidity may be 90% early in the morning when the temperature is 75º but by Noon the humidity may drop to only 50% because the temperature is now 90º. This is because the air can hold much more water at 90º than at 75º.

The Principle

Mist Cooling works by forcing water through our specially designed mist nozzles; this creates a mist (fog) of ultra fine water droplets with an average size of 25 microns or less. With high pressure mist cooling you will get an even smaller droplet size, as little as 5 microns. This creates a surface area larger than a football field from just one gallon of water. Imagine how quickly that will evaporate! These tiny water droplets (fog) quickly absorb the energy (heat) present in the environment and evaporate, becoming water vapor (gas). The energy (heat) used to change the water to a gas is eliminated from the environment, hence the air is cooled.

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Questions? Call 805-986-4125
### Amperage Chart - USA (60Hz)

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>HP</th>
<th>Flow (GPM)</th>
<th>Pressure (PSI)</th>
<th>FLA* 118Volt</th>
<th>FLA* 220Volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB380 0.1</td>
<td>0.5</td>
<td>180</td>
<td>1.0 AMPS</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CB400-25 0.2</td>
<td>0.25</td>
<td>800</td>
<td>4.0 AMPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB401-25 0.5</td>
<td>0.25</td>
<td>1200</td>
<td>7.4 AMPS</td>
<td>3.7 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-50 0.5</td>
<td>0.5</td>
<td>1200</td>
<td>7.4 AMPS</td>
<td>3.7 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-1.0 1</td>
<td>1</td>
<td>1200</td>
<td>11.8 AMPS</td>
<td>5.9 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-1.35 1</td>
<td>1.35</td>
<td>1200</td>
<td>11.8 AMPS</td>
<td>5.9 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB402-2.2 1.5</td>
<td>2.2</td>
<td>1200</td>
<td>12.4 AMPS</td>
<td>6.2 AMPS</td>
<td></td>
</tr>
</tbody>
</table>

### Amperage Chart - International (230Volt 50Hz)

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>HP</th>
<th>Flow (GPM)</th>
<th>Pressure (PSI)</th>
<th>FLA* 220Volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB380-50 0.1</td>
<td>0.44</td>
<td>180</td>
<td>0.5 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB400-22-50 0.2</td>
<td>0.22</td>
<td>800</td>
<td>1.0 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-22-50 0.5</td>
<td>0.22</td>
<td>1200</td>
<td>3.6 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-44-50 0.5</td>
<td>0.44</td>
<td>1200</td>
<td>3.6 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-88-50 1</td>
<td>0.88</td>
<td>1200</td>
<td>6.0 AMPS</td>
<td></td>
</tr>
<tr>
<td>CB401-1.18-50 1</td>
<td>1.18</td>
<td>1200</td>
<td>6.0 AMPS</td>
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### Pump Nozzle Capacity (Minimum and Maximum)

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<th>US GPM</th>
<th>Liter / Min</th>
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<th>max</th>
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* CB380 pressure tested at 180 psi / maximum number of nozzles may not be at full 180 psi
** Maximum tested for continuous duty at 1000 psi
*** Minimum - these are continuous duty minimums, for short periods may be run with fewer nozzles

Questions? Call 805-986-4125
Misting Nozzles

Yellow O-Ring = 0.006” Orifice
Red O-Ring = 0.008” Orifice
Black O-Ring = 0.012” Orifice
Brown O-Ring = 0.015” Orifice
Green O-Ring = 0.020” Orifice

Which Nozzle to Choose
A guide to find the right one for the job

The .006” nozzle is the smallest standard nozzle orifice available. This nozzle is ideal for applications requiring extremely low flow with small droplet size, minimal moisture and complete evaporation. This nozzle is most commonly used on fans in areas with high humidity. The nozzle should not be used at pressures below 500 PSI.

The .008” nozzle is ideal for applications requiring less flow with small droplet size, minimal moisture, and complete evaporation. It can be used for indoor humidification or outdoor cooling, depending on the circumstances. The nozzle should not be used at pressure below 140 PSI. This is by far our most popular nozzle for cooling people. The .008 nozzle is most commonly used in non desert areas.

The .012” nozzle is the most commonly used for people cooling in areas with extreme heat and low humidity or where the nozzles are placed high above the area to be cooled. It provides comparable results to the .008” nozzle with an increased flow rate. It can be used both indoors and outdoors with complete evaporation. This nozzle will work at pressures of 50 PSI and above.

The .015” nozzle is mostly used for outdoor applications where sufficient airflow and clearance allow for complete evaporation and where higher flows are required.

The .020” nozzle is primarily used for outdoor applications requiring extreme flow with less need for complete evaporation. This is a great nozzle for special effects and process cooling requiring high volume.

MADE in the USA.

Questions? Call 805-986-4125
**Misting Applications**

See what you can do with misting

**Commercial Cooling**

When temperatures rise into the 90’s and above, patio dining and outside bar areas become uninhabitable money losers. A CLOUDBURST system can turn that space into a comfortable and profitable retreat.

**Industrial / Process Cooling**

Create a safer and more productive working environment. Cooling employees, equipment and processes can lead to happier employees and big profits. Cooler workers are safer and more productive. Cooler machines last longer and can produce more. Many processes that need cooling can be speeded up using mist cooling.

**AC Condenser Cooling**

Decrease electrical usage and costs by up to 30% using our exclusive condenser cooling units. This is a simple and cost effective way to save money and the environment.

**Animal Cooling**

Keeping livestock and pets cool is big business. Cool cows produce more milk and eat more. Cool Chickens eat more and are healthier.

**Humidity and Control**

CLOUDBURST misting systems are a cost effective solution to humidifying a wide array of applications including: warehouses, factories, greenhouses, wine barrels and Lumber and paper storage.

**Dust & Odor Control**

CLOUDBURST’s proven technology generates 10 micron water droplets which attract and suppress PM 10 and smaller dust particles. Our systems offer a solution that can help eliminate both the fugitive dust problem and unwanted odors.

**Special Effects**

To create “smoke” or “fog” theme parks and studios have often had to resort to chemicals or oils to produce the required special effect. The CLOUDBURST fog system offers a safe alternative to these methods. Using only high-pressure water, our systems create the required atmosphere with no discomfort or possible injury to spectators or actors.

---

**Nozzle Flow Chart**

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<tr>
<th>Orifice</th>
<th>Orifice</th>
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<td>.4 mm</td>
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<td>7.91</td>
<td>12.27</td>
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</tbody>
</table>

Questions? Call 805-986-4125
Plugs
Use these to block off orifices

Anti Drip
Brass Body with Stainless Steel spring and Rubber Stopper

5 Nozzle Cluster
Stainless Steel. Comes without Nozzles

Drain Valve
Drains excess water from Mist Line when Pump turns off. Helps minimize clogging by reducing mineral build up inside of Nozzle.

Flexible Extension
4" & 6" (Stock); Custom lengths available.

Residential Cooling
As patios and backyards have turned into well equipped outdoor living spaces, high pressure misting systems are providing more than just cooling. They create a comfortable oasis on even the hottest days.

Customers say their lifestyles have been changed completely by outdoor cooling (misting system). Some used to leave the desert in the summer or be trapped inside their homes. Pets and plants are healthier. Now you can enjoy the outdoors year round.

Where to Place the Misting System
For the best results, here is a simple guide

Placement
Proper installation of your new misting system requires mounting the misting line 8’ to 10’ above the ground on the bottom outside edge of the fascia, header or beam of patio perimeters. This idea is to create a mist curtain (a cooling barrier) between your protected area and the outside heat.

Fans can also be used to provide spot cooling. Garden risers can provide effects and great cooling for sun bathers and jacuzzi goers. Pool and waterfall misters can provide spectacular effects and cool water temperatures in desert climates.

Where should the pump go?
High pressure pumps are not silent! When possible, the pump should be placed away from the area to be misted. The pump needs a water and electrical hook up and can be placed away from the mist line. Choose a spot that is relatively easy to access for filter changes.

Questions? Call 805-986-4125
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>CB260-W/B</td>
<td>1/4&quot; Flexible – 1000PSI Nylon Tubing Black and Light Cream</td>
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<td>Mounting Clamps Stainless Steel and Rubber (Bag of 20) for 1/4&quot;</td>
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<td>CB250</td>
<td>1/4&quot; Misting Tee Incl. Nozzle &amp; Anti Drip ** Specify Nozzle Size</td>
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<td>CB250B</td>
<td>1/4&quot; Misting Tee w/o Nozzle &amp; Anti Drip</td>
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<tr>
<td>CB250D</td>
<td>Drain Valve Tee</td>
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<td>CB251</td>
<td>Straight Nozzle Adapter w/ 10/24 Tread (w/o Nozzle)</td>
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<td>CB251-45</td>
<td>45° Nozzle Adapter w/ 10/24 Tread (w/o Nozzle)</td>
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<td>CB250P</td>
<td>Plug to End Line</td>
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<tr>
<td>CB253</td>
<td>1/4” Push Lock to 1/4” Push Lock Bulkhead Fitting</td>
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<tr>
<td>CB257</td>
<td>1/4” Coupling Union</td>
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<td>CB256</td>
<td>1/4” Coupling Tee</td>
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<td>CB256-M</td>
<td>1/4” Coupling Tee (1/4” Push Lock x 1/4” MPT x 1/4” Push Lock)</td>
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<td>CB255</td>
<td>1/4” Coupling Elbow</td>
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<tr>
<td>CB258F</td>
<td>1/4” Fan Adapter (1/4” Push Lock x 1/8” FPT) Adapts Mist Rings for 1/4” Tubing</td>
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<td>CB258P</td>
<td>1/4” Pump Adapter (1/4” Push Lock x 1/4” FPT) Adapts Pumps for 1/4” Tubing</td>
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<td>CB259</td>
<td>1/4” In-Line Shut Off Valve</td>
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<td>CB253</td>
<td>10” Riser Assembly w/ Nozzle &amp; 18” Stake</td>
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<td>CB250B-EL</td>
<td>High Pressure 1/4” Push Lock Misting Elbow (w/o Nozzle or Anti-drip) 10/24 Thread</td>
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</tbody>
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Questions? Call 805-986-4125
3/8” Misting Line Components

CB220
3/8” Stainless Steel Mist Line Available with: 12” / 15” / 18” / 24” / 36” / 48” Spacing between nozzles. Available in 10’ and 20’ Lengths

CB221
3/8” Stainless Steel Tubing Available in: 10’ and 20’ Lengths For Custom Lengths

CB222
Flexible Mist Line 1500 PSI Pressure Hose

CB223-.375
Mounting Clamps Stainless Steel and Rubber (Bag of 20) for 3/8”

CB224
3/8” Brass Compression UNION
Blank 1/4” OD Stainless Steel Tubing with grooves to accept Push Lock Fittings Available in 2’, 3’, 4’, 10’ (ex. CB224-2) Custom Sizes and shapes also available

CB225
3/8” Brass Compression ELBOW

CB226
3/8” Brass Compression TEE

CB227
3/8” Brass Compression END PLUG

CB228
3/8” Brass Compression x 1/4” NPT male thread

CB229
3/8” Brass Compression Elbow x 1/4” NPT male thread

CB230
1/4” Quick Disconnect male and female

CB231
Re-usable 1/2” O.D. Hose x 1/4” male NPT

CB232
Re-usable 1/2” O.D. Hose x 1/4” female NPT swivel

CB233
1/4” Quick Disconnect male and female (shuts off when disconnected)

CB234
Brass Compression x 1/4” Female Nozzle Thread (w/o Nozzle)

Questions? Call 805-986-4125
<table>
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<tr>
<th>Component</th>
<th>Description</th>
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<td>CB286</td>
<td>3/8&quot; Coupling Tee</td>
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<td>CB285</td>
<td>3/8&quot; Coupling Elbow</td>
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<tr>
<td>CB288</td>
<td>3/8&quot; Pump Adapter (3/8&quot; Push Lock x 1/4&quot; FTP)</td>
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<td>3/8&quot; Drain Tee</td>
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<td>3/8&quot; Push Lock to 3/8&quot; Push Lock Bulkhead Fitting</td>
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<td>Reducer 3/8&quot; Tube x 1/4&quot; Push Lock</td>
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<td>3/8&quot; Misting Tee w/o Nozzle or Anti-Drip</td>
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<td>3/8&quot; Plug to End Line</td>
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<tr>
<td>CB223-.375-BLK</td>
<td>Black plastic Mounting Clamps for 3/8&quot; Tubing with non-rusting screw Bag of 100</td>
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</tbody>
</table>

Questions? Call 805-986-4125
Mist Rings and Mounting Kits

CB12PM
Pole Mounting for model 614 & 618

CB24/30WM
Wall Mounting Bracket for 24" & 30" Fans

CB24/30PED
Pedestal for 24" & 30" Fans (wheels included)

CL50M
1/4" Misting Tee w/o Nozzle & Anti Drip

CB204
4-nozzle 15" Diameter

CB206
6-nozzle 15" Diameter

CB208
8-nozzle 15" Diameter

CB210
10-nozzle 25" Diameter

CB212
Dual Ring w/ Shut-off Valve 15" 8 Nozzle & 12" 4 Nozzles

CB218
Dual Ring w/ Shut-off Valve 25" 10 Nozzle & 15" 8 Nozzles

Cool Water vs. Hot Water

Water temperature does not have a great effect upon the amount of cooling produced through evaporation. For example at sea level a gallon of cool 50 degree F water (10 degree C) uses 9,000 BTU’s (2,268 kilocalories) to evaporate while a gallon of very warm water 90 degree F (32 degree C) still uses 8,700 BTU’s (2,192 kilocalories) to evaporate. In this example, 40 degrees F (22 degrees C) in hotter water only decreases the heat absorbed by a little over 3%
Fan and Pump Controls

CB940
Remote Control
available for pumps w/ 1hp or less

CB900
Digital Thermostat
w/ 30 Amp Relay

CB910
Fan Speed control
Solid State 10 Amp Rating

CB920
Timer
Up to 24 On/Off 1/2 Hour Minimum

CB930
Interval Timer
0 to 60 Minutes 30 Amp Relay

A wide variety of controls are available Contact us for your specific application.

Water Filtration and Treatment

CB121
10" Spun Poly Filter
5 Micron cartridge
(To remove dust, mud, sand etc.)

CB124
5" Spun Poly Filter
5 micron cartridge
(To remove dust, mud, sand etc.)

CB125
Three Stage Filter
Replacement filter for models 400, 401, 500, 502, 510, 550 (Custom designed to keep nozzles performing at their best)

CB141
10" Filter Housing
add-on to existing filtration for all pumps

CB140
5" Filter Housing
add-on to existing filtration for all pumps

CB601
In-Line Filter
6" Hexa Phosphate Filter 3/4" Male and Female Garden Hose Fittings

Questions? Call 805-986-4125
Limited Warranty

Cloudburst Misting Systems warranties its products to be free of defects in material and workmanship for a period of:

*Three Years Guarantee*
On all Pumps and Misting Fans

*Lifetime Guarantee*
On all Stainless Steel Mist Rings, Stainless Steel Mist Lines
all Brass Fittings and High Pressure Hoses

No merchantability or other warranty, expressed or implied is made within the warranty period. CLOUDBURST Misting Systems is not liable for damages or any expenses incurred through the use of its products. The warranty will be considered violated if the products are used other than the criteria described in each product’s guidelines for use.

Nozzles and Filters are excluded from this warranty.

*Refer to full warranty or call for details.