



DEAURA

We'll Keep You Comfortable

Your Cooling and Heating solution Expert.

Misting System



www.DeAura.com

Our world-class products are presently supplied to hotels, restaurants, furnished apartments, catering and event companies, government departments, and many other highly respected organizations within the UAE and across the GCC.

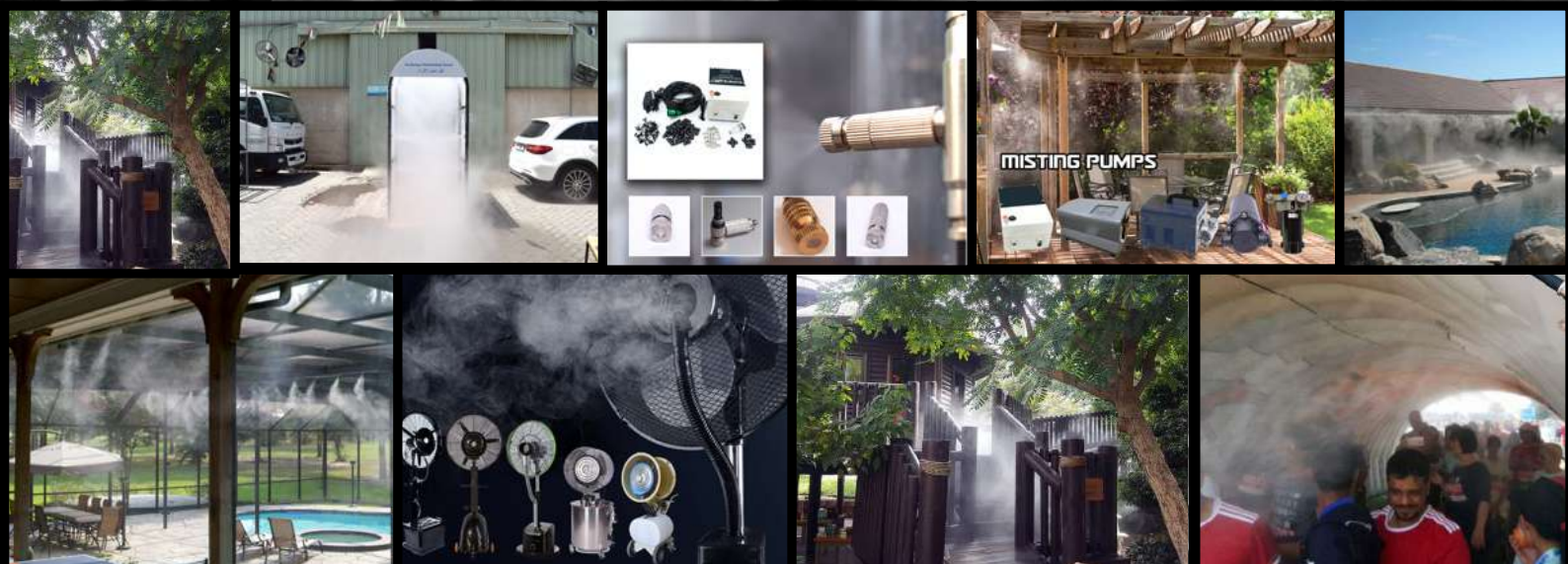
We collaborate closely with hospitality/construction/department managers to achieve the best results for their projects.

OUR VISION

At DE AURA our end-goal is always to supply and support with the highest quality, world class, certified misting system as per market needs at affordable prices.

MISTING SYSTEM & MISTING FANS

Misting system (or Fogging) and misting fans have become popular in Dubai and the Emirates for much more than outdoor cooling. De Aura offers all HP misting solutions, parts and fittings, with or without fans. People are buying the misting system so they can enjoy a relaxing evening in their Dubai's villa even during the hot summer days. There are a lot of high-pressure mist applications.



LOW PRESSURE MISTING PUMPS



Small capacity DC misting pump is good for small scale use. 11bar will not create fogging as 60bar machines, however, they are easy to use and install.



11 BAR A

This Kit include:

One booster pump, 150 PSI

15 x Nozzles

15 x slip-lock nozzle union

10 x meters tube 3/8

1 x end cap

1 x Filter outlet fittings to 3/8 Tubing

11 BAR B

20 NOZ/140PSI DISINFECTANT MIST SPRAY KIT

- **Silent low noise DC pump**
- **Self-suction from tank (like disinfectant tank)**
- **Low power consumption**

Complete mist spray kit with all accessories. Equipped with PIR motion sensor on box. Easy to setup and use for many misting applications including disinfectant spraying @140PSI pressure (~10bar).

You can expect some wetness at these pressure ranges, still this kit is one of best choices in it category. If you need High-pressure dense fogging solution, please check our 50bar+ pressure kits instead.

SPECIFICATIONS	Power	45W
	Adapter	24vdc
	Flow	1.6 L/Min
	Pressure	140PSI (~10bar)
	Suction lift	<5m

HIGH PRESSURE MISTING PUMPS



Application Scope of Misting Machine

- Humidification
- Mosquito repellent
- Lower temperature
- Disinfection
- Landscaping
- Deodorant
- Dust-cleaning
- To prevent static electricity

The performance features of misting machine

Standard:

- Time control
- High-temperature shut down protection

Optional:

- Humidity control
- The function of stopping water
- The function of decompression

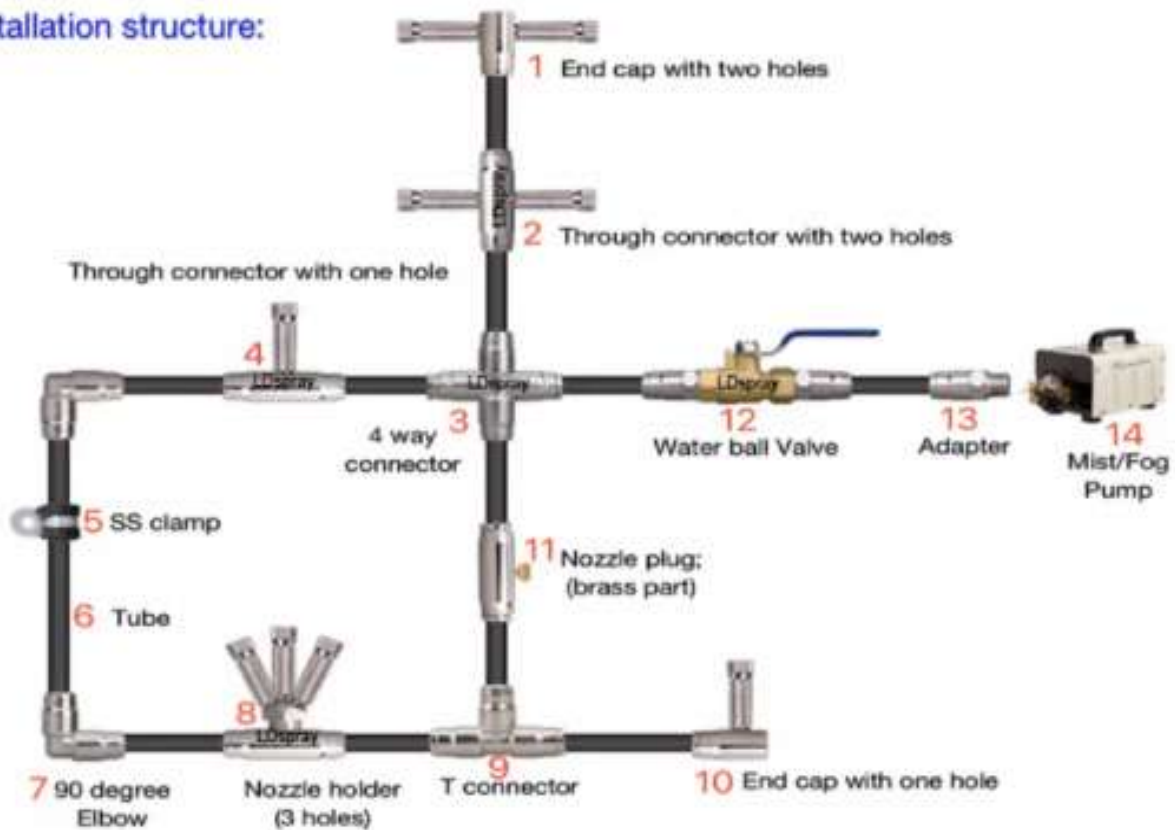


CAPACITY	VOLTAGE	POWER	WEIGHT	PSI/BAR	DIMENSIONS	PIPE-NOZZLES
1LPM	220V/50HZ	300W	13KG	1000/60	480*275*335mm	20M -20
2LPM	220V/50HZ	360w	14KG	1000/60	482*273*338mm	45M-40
4 LPM	220V/50HZ	800W	16KG	1150/80	485*285*345mm	60M-75
6 LPM	220V/50HZ	1.5kw				150M-130
8LPM	220V/50HZ	1.7kw				200M -150
15 LPM	220V/50HZ 3PH	3kw				300M-280

NOZZLES & FITTINGS







Installation structure:



NOZZLES

Nozzle is a simple device used to break apart a fluid flow into a spray pattern. Our product range consists of different sizes and applications, the type of nozzles used, corresponding flow rate, the number and types of fittings.

Every nozzle will spray less water at lower pressures than at high pressures. In fact, certain mist nozzles will not work at all at lower water pressures. As the water pressure at the nozzle increases, the flow rate through the nozzle increases. The higher the water pressure, the smaller the nozzle opening you'll need.

ORIFICE	PSI	IMAGES
0.15MM Standard 10/24" connection	1000	
0.2MM Standard 10/24" connection	1000	
0.3MM Standard 10/24" connection	1000	
0.4MM Standard 10/24" connection	1000	
0.5MM Standard 10/24" connection	1000	

FITTINGS



TEE



**SINGLE NOZZLE
FITTING 3/8"**



**TWO WAY
NOZZLES
FITTINGS 3/8"**



**3/8 SLIP LOCK
T CONNECTOR
NICKEL PLATED**



ELBOW



**NICKLE PLATED
CONNECTOR 3/8"**



**3 WAY NOZZLES
FITTINGS 3/8"**



**3/8" SLIP LOCK
CONNECTION**



**3/8" 2 WAY NOZZLE
FITTING CONNECTION**



**3/8" SS316 HIGH
PRESSURE PIPE**



VAVLE SWITCH



PIPE CLAMP



ADAPTER



END PLUG



3/8" POLYAMIDE PIPE (NYLON)

Color: Black
Maximum Pressure: 180bar
Burst Pressure: 300bar



MISTING RINGS



HIGH PRESSURE NOZZLES

Material: SS304
Inch size: 1/4",
Spray pattern: Flat fan
Spray angle: 0 - 65 degrees
Thread: BSPT male

De Aura misting controller is the most specialized high-pressure misting controller developed in UAE.

SPECIFICATIONS:

Power Supply: 24 vdc

Dimension: 134*102*30mm

Cutout Size: 119*93mm

Display Size: 97*56mm

Resolution: Pixels 480*272

Backed with many features that turns any standard misting system to do many sophisticated tasks:

- Cycling work/rest timer.
- The pump start on rest cool-down timer for more system protection.
- Daily schedule timer (default 5 slots/day), for each day.
- Humidity control (works with 0-10v sensor, sensor not included by default).
- Temperature control (works with NTC sensor, sensor not included by default).
- Fuzzy mixed control including any combination of above control modes.
- Protection digital inputs (ex: for pressure switch): up to 6 inputs (1 included by default).
- Pump relay output (5A /24v), use in combination with auxiliary relay/contactors.
- Optional digital outputs (up to 6) to interface to other systems (not included by default).

MISTING FANS



A Misting Fan is a device that is used to throw air over the surroundings, but as compared to an ordinary electric fan, the misting fan also sprays a slight amount of moisture with air to cool the air. Misting Fans uses the idea of evaporative cooling in which the evaporation of water generates a cooling effect. In Misting Fans, the concept of evaporative cooling is enhanced and taken to the next level, which makes these fans more productive than evaporative air coolers.

Misting Fan works on the principle of thermal dynamics and evaporative cooling. High-pressure water is pumped to reach a level of 1000PSI (pounds per square inch). Nozzles of misting fans break the water into fine droplets. This creates a thin mist of water, which evaporates almost immediately, and thus causing cooling. An electric fan can throw this moist air from a distance of several hundred yards or more.

If you ever attended a large outdoor event like a match in a stadium or a Funfair, you may come to know about large misting fans in those places, which are used to make the people feel comfortable during hot days, and in summer. In addition to outdoor areas where large misting fans are used, there are misting fans available for home use. They are much smaller and lighter but provides the full functionality of misting fans. These misting fans can be used in homes, rooms, and greenhouses and even in a garage or any place where we can use an ordinary fan. Misting fans also find its uses in a great shopping Malls and Plazas. They are not only beautiful than regular fans but also more efficient than them.

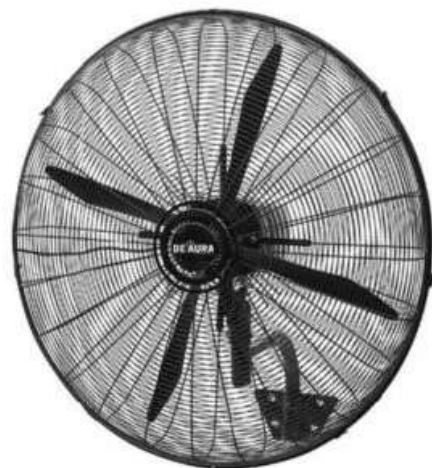
20" Industrial Fan Pro

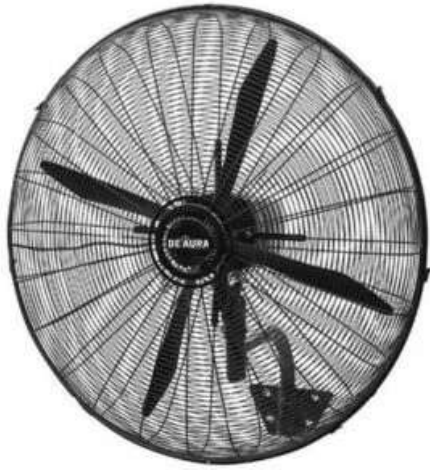
	20" Fan
Air Flow	5,760 m3/h
Wings	3 Aluminum Casting Wings
Max RPM	1,290
Material	Galvanized Sheet Steel Painted
Color	Black
Weight	6.0kg / 9.2kg
Water Protection Rate	IP20
Max Noise	48.2 db
Power	113W
Installation	Stand Alone / Wall Mounted
Catalog No	Wall Mounted Black - SAV20PLB-W Stand Alone Black - SAV20PLB-S



24" Hurricane Industrial Fan Pro

	24" Fan
Air Flow	12,600 m3/h
Wings	4 Aluminum Casting Wings
Max RPM	910
Material	Galvanized Sheet Steel Painted
Color	Black
Weight	13.5kg / 20.5kg
Water Protection Rate	IP54
Max Noise	52.8 db
Power	142W
Installation	Wall Mounted
Catalog No	SAV24PLB-W





DE AURA WALL MOUNTED MISTING FAN LITE 30"

SPECIFICATIONS:

Size: 30 inches (660mm)
Speed Flow: 1,350 RPM
Power Consumption: 230 watts
Power Supply (V/Hz): 220-240V
Mechanism: 90° Oscillating
IP Rating: 34
Sound Effective: 64 dB



De Aura AMERICAN SHAPE WALL FAN 26"

SPECIFICATIONS:

26-inch Industrial Grade 3-Speed Oscillating Fan
Cast Iron Motor Casing
Constructed of Powder Coated Steel for Long-Lasting Durability
10-foot, 3-conductor type SPT Power Cord
Comes with a wall mounting bracket, 3 blades, Adjustable Pendulum Angle
Power Supply: 220/ 50HZ
Rated Power: 230W/ IP65



DE AURA AMERICAN SHAPE WALL FAN 24"

SPECIFICATIONS:

115 / 230 volts
7.0 / 3.5 amps
Thrust CMF / Watt: 10.8
Thrust CFM: 5,370
Thrust: 5.8
Thrust Eff Ratio: 11.6
KW: 0.5
Speed: 1
Drive: Direct
Prop: 3-ALM
Fpm: 940m3/H
24" diameter, Blade 3
Blade, guard & mouths are powder coated steel
Has ETL, OSHA compliances

LIVESTOCK COOLING

Livestock, like humans, is happiest and most productive when they feel comfortable. The livestock misting system reduces heat and increases productivity. In addition, it has many other uses, such as disinfection, odor control, and cooling.

Hot weather will reduce the egg production rate of chickens, reduce the survival rate of chicks, reduce the milk production of cows, and affect the appetite of pigs.

Reducing the temperature to a comfortable value can solve these problems. In addition, disinfectants will be put into the water, which can kill bacteria and viruses and improve the survival rate of cubs. Water mist sprayed into the air can absorb part of the odor soluble in water and improve the air.

The livestock misting system-atomized particles are extremely small, so there

is no need to worry about wetting the ground and livestock. The atomized molecules are on the micron level. Prevent animals from being infected by bacteria and viruses, reduce the morbidity and mortality of animals, and ensure the survival rate of animals.

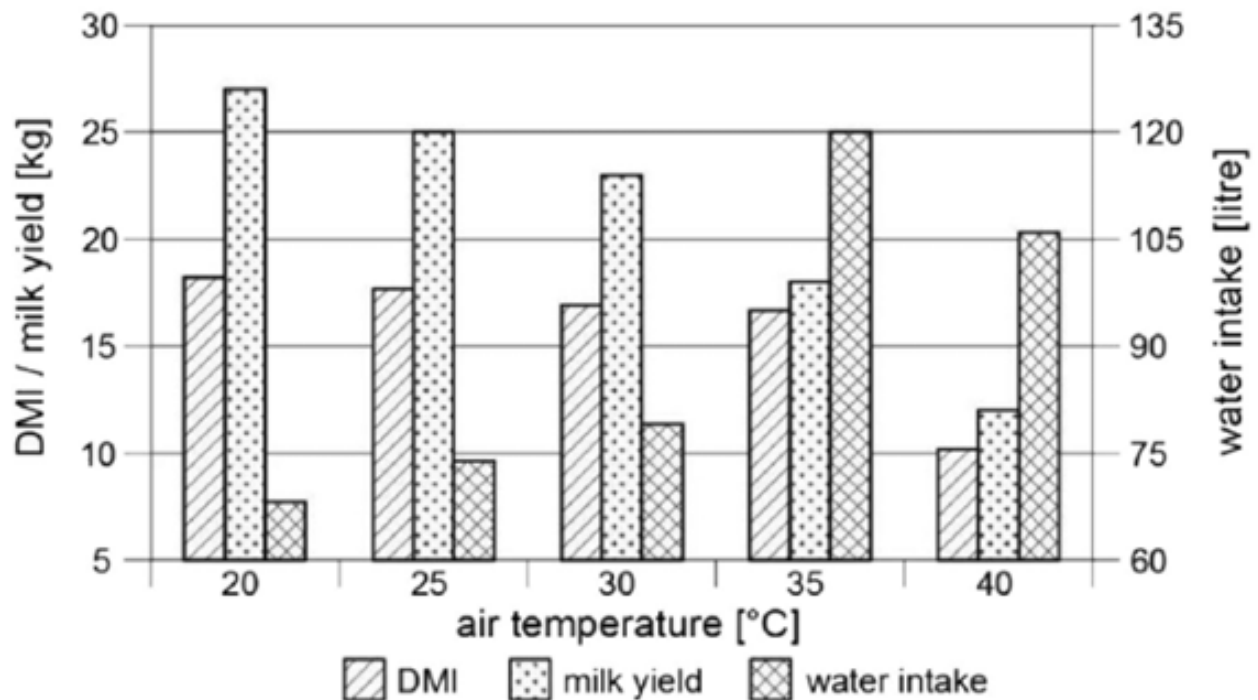
The odor is mainly composed of ammonia gas. Ammonia will affect the protein synthesis and normal metabolism in animals, directly causing animals to grow slowly. The misting system can use for odor control.

We have rich experience in the livestock misting system project. If you have pig farms, cattle farms, stables, chicken farms, and other livestock farms, please do not hesitate to contact us.



Heat Stress and the Lactating Cows

Relative changes in dry matter (DMI), milk yield and water intake with increasing environmental temperature.



MISTING SYSTEM FOR STABLES



Horses are often kept inside barns which may be substantially hotter than outside temperatures due to radiant heating of the structure.

Despite their ability to sweat, horses still have difficulty cooling themselves when temperatures become extreme. Because of their large size, their body heat tends to accumulate faster than they can get rid of the excess.

Especially in conditions of high humidity, when sweat no longer evaporates to cool the skin, horses are prone to heat exhaustion and heat stroke, which can be extremely dangerous.

MISTING SYSTEMS BENEFITS IN HORSES STABLES

De Aura misting system, when installed in a barn, introduces a steady supply of water to the air in the form of ultra-fine droplets which evaporate before they hit the ground. A correctly installed misting system creates a curtain of mist, which can reduce temperatures in the immediate area by as much as 20 to 30 degrees Fahrenheit (depending on the outdoor

temperature and relative humidity).

The best results from a misting system are achieved when the mist is produced in an area which already has good airflow.

Many people like to install a line of misting nozzles just under the eaves of the barn. In alternative the misting fans are a “cool” alternative. The use of misting fans help to guarantee a good airflow index.

For any needs concerning horse cooling or misting in stables , send an email to sales@Deaura.ae De Aura staff review the information and respond with a customized solution that fits your exact needs.



GREEN HOUSE



Misting systems (or Fog systems) play an important role in the greenhouse climatic control. Misting systems are also used with enormous advantages to keep the right temperature and humidity in the environment, under conditions of forced or natural ventilation.

In summertime the quick evaporation of the fog will cool the greenhouse due to the principle of evaporative cooling, meanwhile it humidifies the environment in case of low relative humidity. During the wintertime the system keeps the correct humidity rate preventing the dehydration of the crops caused by heating systems.



The environment produced by our system is appropriate for the most delicate crops (ex. the growing of young seedlings, the cultivation of tropical plants and in bloom plants) where it is not possible to use traditional spraying methods like standard spraying.

Fog system works on a pressure of 1000 PSI (70 Bar) and it is designed to produce water droplets smaller than 5-10 microns diameter that, for their dwarfish size remains suspended in the air for a long time producing the fog effect.

BENEFITS:

1. Increased general productivity of the greenhouse
2. Speeds up plants growth
3. Keeping of constant humidity levels
4. Lower water consumption for the irrigation
5. Growing of a reproduction plants stock in the greenhouse
6. Suitable for chemical spreading (fertilizers, insecticides)
7. Less humidity need
8. The correct micro-climate in any season
9. Less shading needed