



MicroCool Fog Systems

BIGHORN



MicroCool

World leaders in adiabatic cooling and environmental solutions.

Applications

- Process Cooling
- HVAC Pre-Cooling
- Industrial Humidification
- Agriculture & Horticulture
- Dust & Odor Control
- Environmental (Outdoor) Cooling.

MicroCool Value

Added Features

- USA made and patented nozzle design
- USA Manufactured pump modules and equipment.
- In house custom engineering and design.
- Extensive application and implementation experience.

The **MicroCool BIGHORN** pump was developed to fill a gap in the market not covered by the existing MicroCool range.

Small and compact, quiet and vibration free, the BIGHORN is the ideal answer for smaller cooling applications (up to 80 nozzles or 120'0" / 35mt of patio) or small humidification systems.

Many of the features of the larger models are incorporated into the BIGHORN, the VFD motor control can reduce electrical usage (the bill) by up to 50% of previous versions. With the addition of the PID loop it can automatically adjust the speed of the motor in relation to the number of nozzles.

For more information please contact us on the application possibilities of this unit.



- ✦ Pump incorporates:-
- ✦ Powder Coated corrosion resistant steel Frame. Weight approx 90lb (41kg)
- ✦ WEG variable speed drive controller (with fan cooling).
- ✦ NEMA 3R Electrical Disconnect included.
- ✦ 1 or 2 HP ODP (open drip proof) motor.
- ✦ 110 or 220 volt 50/60 Hz three phase motor
- ✦ Flow rates of 1.00 & 2.00 gpm at 1,000 psi. (40 & 80 nozzles)
- ✦ Simple UP/DOWN manual speed control
- ✦ 1 x 5" 5 Micron filter
- ✦ Inlet Pressure switch
- ✦ OFF/ON switch
- ✦ Remote start connection included
- ✦ Inlet & drain solenoid valves with MicroCool "Delay Drain Control"
- ✦ Inlet and outlet pressure gauges with Green and Red zone indicators
- ✦ Auto reset (3 times) on low water pressure fault, cut out.
- ✦ Optional EXTRA: Pressure transmitter to automatically adjust motor speed in relation to the number of nozzles in operation (PID Loop).
- ✦ Optional EXTRA: secondary twin 10" inlet filter set for maximum protection.

System Details & Capacities

Model	BIGHORN I	BIGHORN II
Motor Size HP (KW) voltage	1.00 HP (0.75KW) 110/220 1 phase	2.00 HP (1.50 KW) 220 volt 1 phase
Pump Flow (gpm/lb)	1.00 GPM / 500 lb/hr	2.00 GPM / 1,000 lb/hr
Pump Flow (lpm/kg)	3.79 LPM / 225 kg/hr	7.57 LPM / 450 kg/hr
Nozzle Capacity	40 @ 1,000 psi (70 Bar)	80 @ 1,000 psi (70 Bar)
Filter Size	5" 5 micron	5" 5 micron
Optional UV	Yes - External	Yes - External
Size inches WLH	13" w x 22" l x 21" h	13" w x 22" l x 21" h
Size mm	330 x 560 x 535mm	330 x 560 x 535mm
Weight lb (no options)	85.00 lb	92.00 lb
Weight kg	38.56 kg	41.70 kg

"World Leaders in Adiabatic Cooling Technology"

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