

**MICRO
COOL**



MicroCool Fog Systems

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.

MicroCool

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MicroCool IBEX Pump Range



- Following nearly 30 years of research and development, MicroCool has produced the ultimate in Industrial High-Pressure Pump systems.
- The new IBEX Pump Range incorporates the latest in design, serviceability and energy saving features.
- Available in 5 models, the IBEX Pump Range covers flow rates from 0.50gpm up to 11.00gpm (2 – 42 lpm) and can satisfy humidification demands from 250 – 5,500 lbs/hr.

- ⇒ MicroCool IBEX pumps contain the highest quality components and materials to provide the user with a product that is designed to operate in demanding conditions and situations.
- ⇒ A unique MicroCool electronic drain valve sequence reduces system shock on automatic shutdown.
- ⇒ MicroCool has taken note of customer, installer comments and requests incorporating these into a revolutionary and unique design.
- ⇒ MicroCool engineers are very conscious of environmental concerns. The IBEX range uses the latest control systems to reduce electrical and water usage where possible.
- ⇒ Variable Frequency Drives (VFD) control the speed of the pump motor to maintain only the required pressure and outlet flow.
- ⇒ Variable Frequency Drive additions not only save the user electrical energy but can also qualify (in certain areas) for utility rebates further reducing capital costs.
- ⇒ MicroCool's exclusive use of USA manufactured GIANT pumps with high efficiency WEG motors yields increased reliability and efficiency.
- ⇒ The VFD control reduces wear on all components extending the life of the pump unit. Service intervals are extended compared to conventional systems.





MicroCool IBEX Pump Range

Features and Benefits

TECHNICAL SUPPORT

Internet and telephone based support is available for all MicroCool customers and clients.

INTERNATIONAL OPTIONS

MicroCool delivers systems throughout the USA and worldwide. For thirty years MicroCool has amassed experience and expertise in water mist technology in many locations around the world.

TURNKEY SOLUTIONS

MicroCool specializes in providing turnkey solutions for all environmental problems involving process cooling, humidification, dust suppression and outdoor cooling

For more information on any of our products or services please visit us on the Web at: www.microcool.com

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All MicroCool IBEX Pumps include:



- ⇒ Lightweight Aluminum Powder Coated Frame
- ⇒ Eye level controls and service items (no more bending!)
- ⇒ Illuminated "Hand / Off / Auto" Switch
- ⇒ Hour meter incorporated into panel door at eye level.
- ⇒ Illuminated Fault light
- ⇒ Lockable Wiring and control box
- ⇒ Simple inlet and outlet plumbing connections on rear of unit for rapid mounting
- ⇒ Variable Frequency Drive (with password locked parameters)
- ⇒ Integrated pressure transducer (factory set at 1,000 psi)
- ⇒ Pressure Gauge with colored "safety" zones
- ⇒ Safety unloader pre-set at 1,200 psi
- ⇒ Twin filters at waist level for simple service.

Optional Extras and additional services include:

- Ultraviolet sterilizing lamp incorporated into frame (mounting built into standard frame) with concealed controller and service meter
- Matched flow Reverse Osmosis systems mounted on matched frames with integrated controls.
- Alarm outputs and integrated time clock within control panel.
- LAN based environmental control and monitoring systems with remote alarms and control functions.
- Multiple zone configurations with staged pumps and operations.

System Details & Capacities

Model	IBEX 4	IBEX 5	IBEX 6	IBEX 8	IBEX 11
Motor Size HP (Kw)	3.00 (2.25)	5.00 (3.75)	5.00 (3.75)	7.50 (5.60)	10.00 (7.50)
Phase / Hz	1/3 - 50/60	1/3 - 50/60	1/3 - 50/60	3 - 50/60	3 - 50/60
Pump Flow (gpm)	0.50 – 4.00	0.50 – 4.90	1.00 – 6.00	1.00 - 7.50	1.75 - 11.00
Pump Flow (lpm)	1.90 – 15.20	1.90 – 18.60	3.80 – 22.80	3.80 – 28.50	6.65 - 41.80
System Capacity (lb/hr)	250 – 2,000	250 – 2,450	500 - 3,000	500-3,750	870-5,500
Nozzle Capacity	20 – 165	20 – 204	41 – 250	41 - 312	73 – 460
Filter Size	2 x 10"	2 x 10"	2 x 20"	2 x 20"	2 x 20"
Optional UV	Yes	Yes	Yes	Yes	Yes
Size inch	31" x 31" x 41"	31" x 31" x 41"	31" x 31" x 41"	31" x 31" x 41"	31" x 31" x 41"
Size metric	775 x 775 x 1,025mm	775 x 775 x 1,025mm	775 x 775 x 1,025mm	775 x 775 x 1,025mm	775 x 775 x 1,025mm
Weight lb	185 lb	195 lb	210 lb	275 lb	308 lb
Weight kg	84 kg	89 kg	95 kg	125 kg	140 kg

Full specifications available on request

"World Leaders in Adiabatic Cooling Technology"