TECHNICAL DATA SHEET

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Supercedes : NIL

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ATMOSPHERIC WATER GENERATOR
BRY-AIR MOISTURE PUMP – BMP HIGH CAPACITY SERIES

BAE WITH HIGH PERFORMANCE, ECODRY METAL SILICATE FLUTED DESICCANT SYNTHESISED ROTOR

KEY FEATURE HIGHLIGHTS



Efficiency and Reliability

* Generates potable water directly from ambient air
* Advanced desiccant rotor technology for high moisture adsorption efficiency
* Integrated heat pump-assisted regeneration for reduced energy consumption
* Operates effectively across a wide range of temperature and humidity conditions
* Continuous and automatic water production
* Modular and containerized system design
* Industrial-grade construction for long service life
* Low maintenance requirements
* Scalable and modular design for varying water demands
* Suitable for remote and inaccessible locations
* High-performance desiccant media with excellent moisture adsorption capacity
* Non-flammable rotor construction with minimal organic content
* Waste heat integration (Optional) to improve overall energy efficiency, reduce power consumption.
* CE / ETLCertification as per requirement

Water Quality and Treatment

* Multi-stage water purification system
* Consistent production of safe and potable water
* Online water quality monitoring options available
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Necessary control and safeties

* Differential pressure monitoring for airflow verification
* Electrical interlocking of fans, heat pump, and rotor drive
* Automatic reactivation temperature control using a water-to-water heat pump and 3-way modulating valve for precise hot and chilled water regulation.

Electrical and Automation

* PLC-based control system with touch-screen HMI
* Auto restart following power interruption
* Remote monitoring and control capability
* Alarm history and troubleshooting diagnostics
* Display of water production, temperature, humidity, and airflow
* User access control with password protection
* Communication protocol Modbus

Easy to operate

* Fully automatic operation
* Auto / Manual operating modes
* Power ON, Water Production, and Fault status indications
* Automatic water storage and level management
* Real-time monitoring of system operating parameters

Easy to install

* Plug-and-play modular design
* Flexible indoor and outdoor installation

Easy to maintain

* Accessible service components
* Washable filters and rotor
* Reduced maintenance frequency
* Periodic maintenance and service alerts

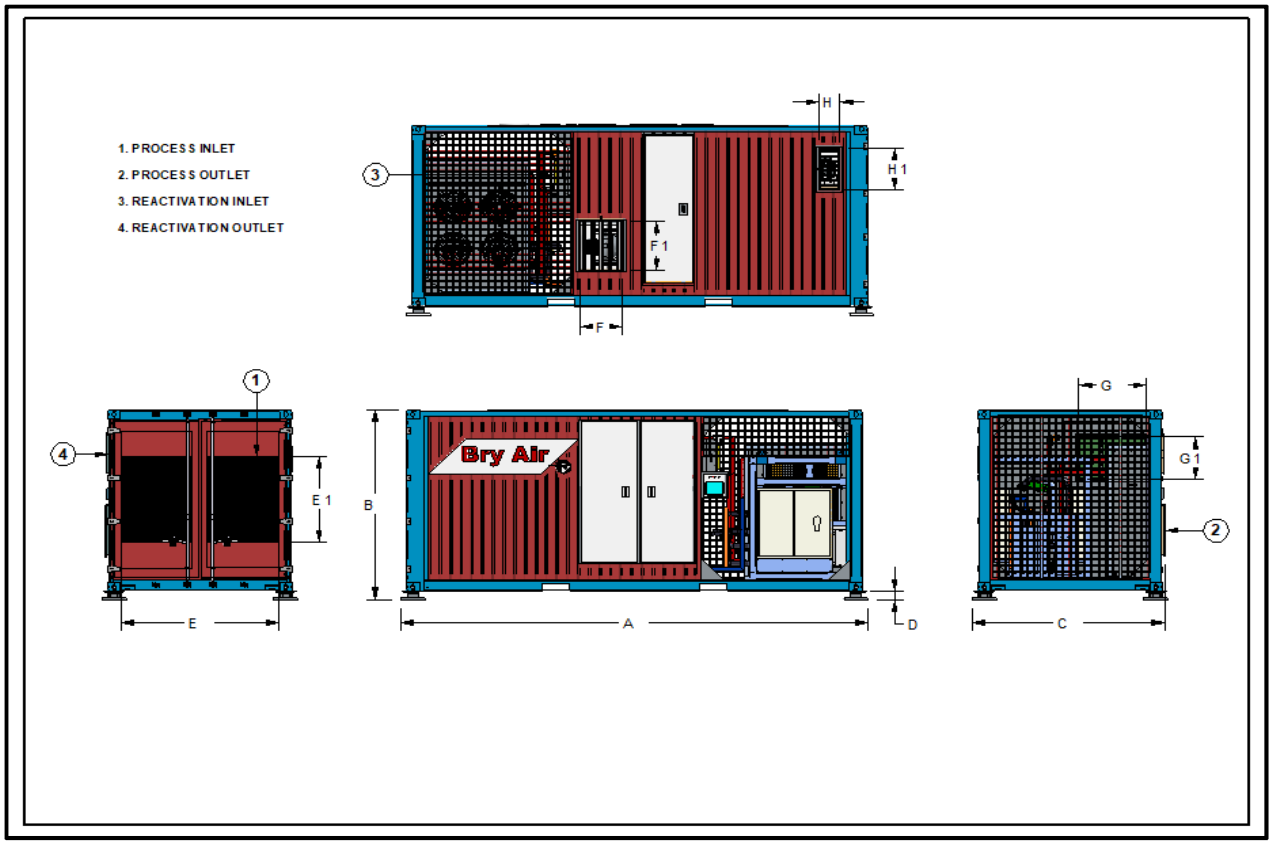
BMP HIGH CAPACITY SERIES SPECIFICATIONS

MODEL	Water Generation		Compressor Connected Power	Parasitic Connected Power	Total Connected Power	Operating Power at design condition	FLA	POWER REQD.	HEAT PUMP CAPACITY	APPROX. WEIGHT	
	Ltr/hr	Ltr/day	kW	kW	kW	kW		(V/Ø/Hz.)	Ton / kW	(Kg.)	(lbs)
BMP-1000LPD	45	1080	50	28	78	32	110	415/3/50	25 / 88	7500	16530
BMP-200LPH	200	4800	220	60	280	115	360	415/3/50	125 / 440	18000	39672

* Note:- 1) Water generation under standard ambient conditions at 27°C / 45% RH
2) Other voltage available are 380/415/440/460/480 AC, 3Ph, 50/60 Hz
3) Operating Power shall be less then the connected as low a 50% depending on ambient conditions.

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

DIMENSIONAL DATA & DUCT CONNECTION (mm)



MODEL	UNIT DIMENSION DATA (mm)				PROCESS				REACTIVATION			
					INLET		OUTLET		INLET		OUTLET	
					LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT
	A	B	C	D	E	E1	F	F1	G	G1	H	H1
BMP-1000LPD	6200	2590	2550	120	2080	1220	555	700	900	635	280	600
BMP-200LPH	12190	2440	2896	130	1600	1800	850	1050	850	1800	350	800

Note : (1) All dimensions in mm.
(2) For reference purpose only

Design Condition: 27°C Dry Bulb Temperature 45% Relative Humidity

