Bry-Air® DRI® Innovative Air Solutions Bry-Air EST. 1964

TECHNICAL DATA SHEET

COMPACT DEHUMIDIFIER
MiniPAC® – MP SERIES (ETL CERTIFIED)

MP With High Performance, ECODRY® Metal Silicate Fluted Desiccant Synthesised Rotor

FEATURE HIGHLIGHTS

HIGH EFFICIENCY AND RELIABILITY

- ETL Certified
- A totally self contained unit
- CNC fabricated unit(s) with powder coated finish
- Rotor media has high performance metal silicates
- Rotor incorporates robust internal structure with stainless steel perimeter flange for industrial quality, durability and easy serviceability
- Rotor perimeter flange extends media and seal life
- Edge hard face coating on rotor ensures long life and good sealing for media and seals
- Rotor is non-flammable with organics < 2%
- Process and reactivation air flow sectors are insulated
- Auto / manual mode selection
- Independent differential air pressure switch for providing react air flow
- Independent reactivation cool down safety device
- Electrical interlocking of fan motors, heaters and rotor drive
- Unique PTFE bonded bulb seal design; minimized air leakage

NECESSARY CONTROL AND SAFETIES

EASY TO OPERATE

- Suitable for continuous operation
- Independent blower and motor for each airflow (Process & Reactivation)
- Volume control damper for both (Process & Reactivation) air flow

EASY TO INSTALL

- Several mounting and installation options
- Small footprints; low volume/weight per CMH

EASY TO MAINTAIN

- Quick and easy to service
- Rotor is water washable

OPTIONS

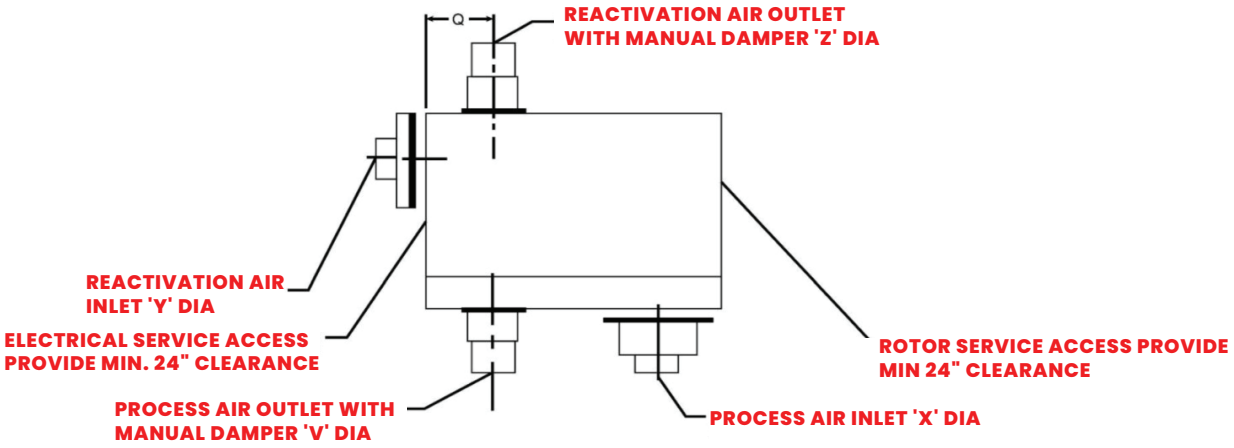
- Humidity control through humidistat on/off
- Add on Pre/Post cool coil box
- BACnet
- Reactivation Heat Modulation
- Weather-resistant Kit
- Other custom modifications available upon request

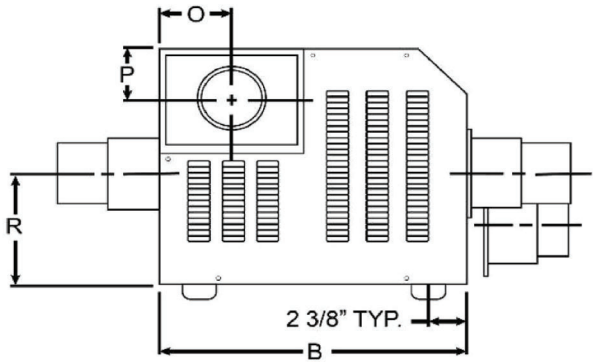
SPECIFICATIONS

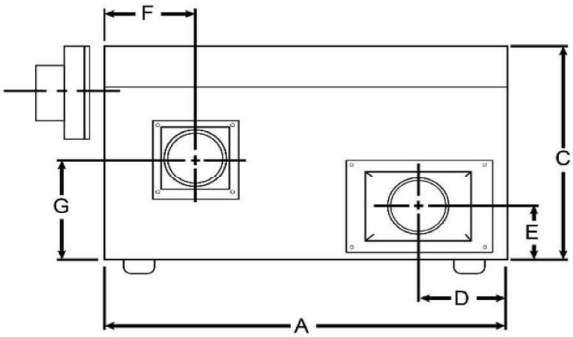
MODEL	PROCESS AIR FLOW CFM	PROCESS ESP (WC)	PROCESS MOTER KW	REACT. AIR FLOW CFM	REACT. ESP (WC)	REACT. MOTOR KW	REACT. HEATER KW	POWER * REQD. V/ø/Hz)	APPROX. WEIGHT LBS	MCA AMPS	MOCP	FLA AMPS
MP-100	100	0.70"	0.1	34	0.45"	0.1	2.3	208-240/1/60	145	22	25	19
MP-175	175	0.60"	0.1	58	0.40"	0.1	4.5	208-240/1/60	163	28	30	23
MP-350	350	0.90"	0.4	117	0.70"	0.4	8.4	208-240/3/60 460/3/60	240	35 19	40 20	28 15
MP-600	600	0.75"	0.8	200	0.45"	0.8	14.1	208-240/3/60 460/3/60	324	55 29	60 30	44 23
MP-900	900	0.75"	1.5	300	0.45"	0.8	18.0	208-240/3/60 460/3/60	421	68 35	70 40	55 29
MP-1200	1200	0.75"	2.2	400	0.45"	0.8	24.0	208-240/3/60 460/3/60	445	91 46	95 50	74 38
MP-1800	1800	0.75"	2.2	600	0.45"	1.1	31.5	460/3/60	584	115 59	120 60	94 48
MP-2700	2700	1.25"	2.2	900	0.98"	1.1	42.0	460/3/60	798	74	75	61

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

DIMENSIONAL DATA & DUCT CONNECTION (INCHES)







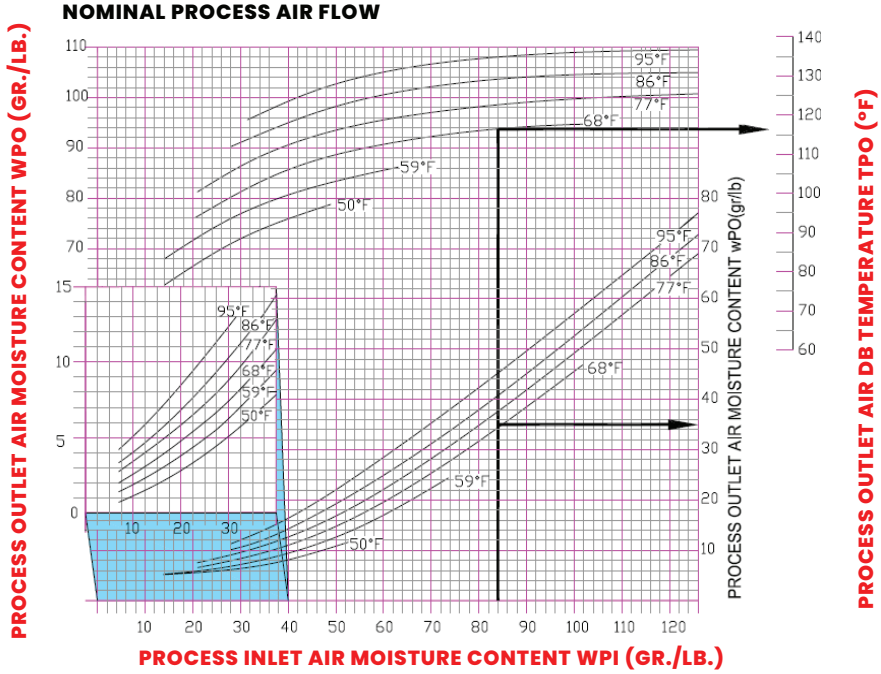
MP UNIT DIMENSIONAL DATA (INCHES)

DIM	MP-100	MP-175	MP-350	MP-600	MP-900	MP-1200	MP-1800	MP-2700
A	26-11/16	29-1/8	35-1/8	41-1/4	47-1/2	48-1/4	48-3/8	48-5/16
B	18-7/8	21-1/4	24-13/16	28-3/4	35-1/16	34-7/8	39-5/8	45-7/16
C	15-1/2	17-1/2	19-7/16	21-13/16	23	24-3/4	28-11/16	32-9/16
D	5-7/16	6-9/16	7-5/8	8-13/16	9-7/8	9-7/8	11-7/8	13-7/16
E	4-5/16	4-5/16	5-1/4	6-5/16	6-5/16	6-5/16	6-3/16	6-3/16
F	8-7/8	9-1/4	11-7/8	14-3/8	14-13/16	15-15/16	16-5/16	16-7/16
G	8-7/16	10-7/16	10-5/8	11-3/16	11-5/16	13-3/4	16-7/16	18-13/16
O	4-3/8	4-7/16	5-11/16	7-1/8	8-7/16	8-7/16	8-1/2	8-1/2
P	3-7/16	3-3/8	3-7/16	5	5	5	5	5-9/16
Q	8-13/16	9-3/16	11-11/16	14-3/16	14-3/8	14-9/16	15-5/8	15-13/16
R	6-15/16	6-11/16	8-11/16	10-9/16	10-1/2	9-15/16	10-5/16	13-3/16
DIA V (P IN)	3-13/16	3-13/16	5-5/8	7-3/4	7-3/4	9-3/4	8-9/16 X 17-11/16	22-11/16 X 10-1/2
DIA X (P OUT)	3-13/16	3-13/16	5-5/8	7-3/4	7-3/4	9-3/4	11-7/8	17-3/16 X 9-1/16
DIA Y (R IN)	3-13/16	3-13/16	5-5/8	7-3/4	7-3/4	7-3/4	7-3/4	16-3/4 X 9-13/16
DIA Z (R OUT)	3-13/16	3-13/16	5-5/8	7-3/4	7-3/4	7-3/4	7-3/4	7-3/4
WEIGHT IN LBS	145	163	240	324	421	445	518	798
MOISTURE REMOVAL CAPACITY LB/HR **	3.4	6.6	12.7	21.4	32.4	44.4	65.6	96.3

**** Moisture removal capacity based on entering air conditions of 75°F and 100 gr/lb**

PERFORMANCE CHART

Performance charts are for nominal process airflow within the operating range each MP series and assumes wPI =wRI. Please consult Bry Air America for other specific conditions.



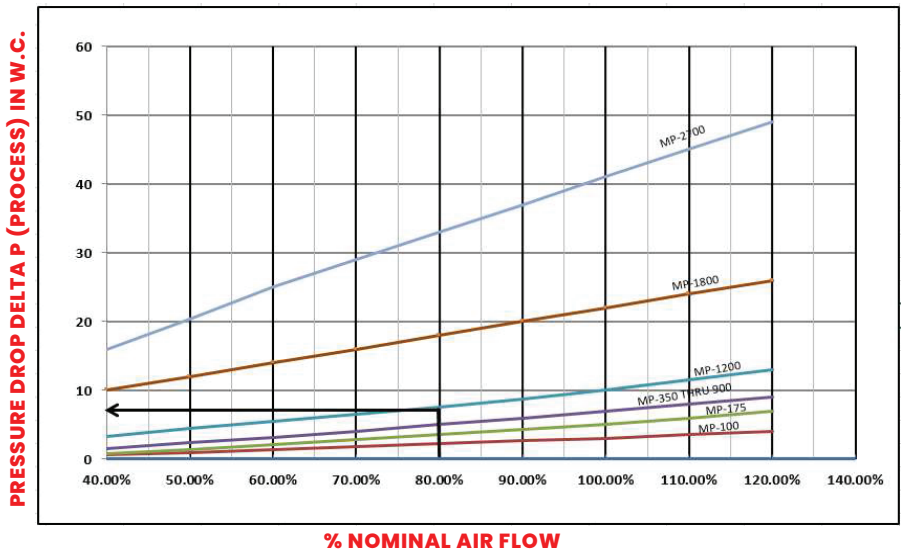
EXAMPLE :-

Conditions:

Process inlet wPI = 84 gr./lb.,
Process inlet TPI. = 68°F

Chart data :-

Process outlet wPO = 35 gr./lb.,
Process outlet TPO. = 116°F



EXAMPLE :-

Model MP-1200
Process air volume = 1200 CFM
Air volume = 80%
DP (Process) = 7.5 mm w.c.

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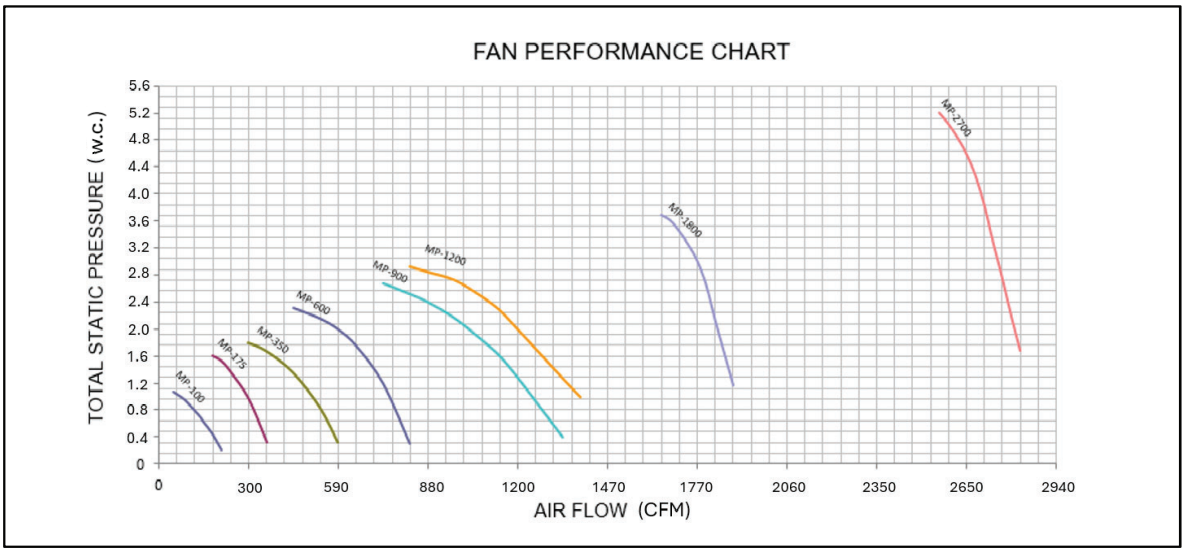
FAN PERFORMANCE CHART

The fan performance curves are for inlet conditions at 68°F, density 0.075 lb./ft3



FEATURE OVERVIEW

	Items	Standard	Optional
Rotor :	High performance metal silicate	✔	
Process :	High capacity metallic mesh filter	✔	
Reactivation :	High capacity metallic mesh filter	✔	
	PID with SSR heater control		✔
Energy :	Electric reactivation	✔	
Construction :	Cold rolled powder coated steel	✔	
	Stainless steel		✔
Control :	Single stage On/Off humidstat	✔	
	SSR control for reactivation heaters	✔*	✔
	Digital display panel	✔*	✔
Options :			
Microprocessor control		✔*	✔
Touch panel		✔*	✔
Pre Box			✔
Post Box			✔
PID with SSR control for heaters			✔
Bacnet Communication Module		✔*	✔

*** STANDARD FOR MP-2700 ONLY**