

# BSP-MT 1-8 Breathable Compressed Air Purifier

## Performance

Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)
	°C	°F	
BSP-MT 1-8	-40	-40	Class 2.2.1

## Technical Data

Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Option)	Thread Type	Noise Level dB(A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
BSP-MT 1~8	5	73	16	232	5	41	50	122	50	122	230V / 1ph / 50-60Hz	115V / 1ph / 50-60Hz	BSPP	<75

## Flow Rates

Model	Pipe Size	Flow Rate				Regeneration Air Requirement			
		L/s	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm	L/s	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm
BSP-MT 1	G¼	4	0.22	13	8	0.7	0.04	2.6	2
BSP-MT 2	G¼	7	0.40	24	14	1.3	0.08	4.8	3
BSP-MT 3	G¼	11	0.67	40	24	2.2	0.13	8	5
BSP-MT 4	G¼	16	0.94	56	33	3.1	0.19	11.2	7
BSP-MT 6	G½	25	1.50	90	53	5.0	0.30	18	11
BSP-MT 7	G½	32	1.94	116	68	6.4	0.39	23.2	14
BSP-MT 8	G½	39	2.32	139	82	7.7	0.46	27.8	16

Stated flows are for operation at 13 bar (g) (189 psi g), 35°C (95°F) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other conditions, apply the correction factors shown below.

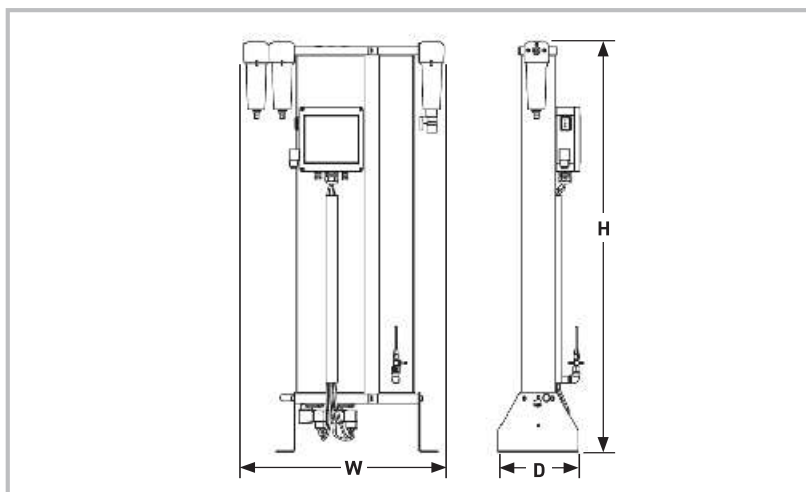
## Product Selection & Correction Factors

For correct operation, breathing air purifiers must be sized for the maximum (summer) inlet temperature, minimum inlet pressure and maximum flow rate of the installation.

To select a breathing air purifier, first calculate the MPC (Minimum Purification Capacity) using the formula below then select a breathing air purifier from the flow rate table above with a flow rate equal to or above the MPC.

**Minimum Purification Capacity = System Flow x Correction Factor**

Minimum Inlet Pressure bar g (psi g)	Inlet temperature in °C (°F)					
	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)
5 (73)	2.13	2.17	2.27	2.50	2.78	2.94
6 (87)	1.82	1.85	1.92	2.22	2.50	2.63
7 (102)	1.59	1.61	1.67	2.00	2.27	2.33
8 (116)	1.39	1.43	1.47	1.67	1.85	1.92
9 (131)	1.27	1.28	1.33	1.59	1.67	1.82
10 (145)	1.15	1.16	1.25	1.54	1.59	1.64
11 (160)	1.25	1.27	1.33	1.56	1.64	1.69
12 (174)	1.09	1.10	1.12	1.28	1.37	1.49
13 (189)	0.97	0.98	1.00	1.10	1.22	1.27
14 (203)	0.86	0.87	0.88	1.00	1.06	1.16
15 (218)	0.77	0.78	0.79	0.93	0.97	1.01



## Weights & Dimensions

Model	Pipe Size	Dimensions						Weight	
		Height (H)		Width (W)		Depth (D)			
		mm	ins	mm	ins	mm	ins	kg	lbs
BSP-MT 1	G¼	400	15.7	533	21.0	216	8.5	17	36
BSP-MT 2	G¼	575	22.6	533	21.0	216	8.5	22	47
BSP-MT 3	G¼	825	32.5	533	21.0	216	8.5	29	64
BSP-MT 4	G¼	1075	42.3	533	21.0	216	8.5	36	79
BSP-MT 6	G½	1203	47.4	736	29.0	300	11.8	75	165
BSP-MT 7	G½	1428	56.2	736	29.0	300	11.8	85	187
BSP-MT 8	G½	1628	64.1	736	29.0	300	11.8	97	214

## Included Filtration

Models	Dryer Inlet		Dryer Outlet		
	General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
BSP-MT 1-8	•	•	•	•	
<b>Filtration Performance</b>	<b>General Purpose Pre-filter</b>	<b>High Efficiency Filter</b>	<b>Oil Vapour Reduction Filter</b>	<b>General Purpose Dry Particulate Filter</b>	<b>High Efficiency Dry Particulate Filter</b>
<b>Filtration Grade</b>	Grade ZL	Grade XL	AK	Grade ZL	-
<b>Filtration Type</b>	Coalescing	Coalescing	Adsorption	Dry Particulate	-
<b>Particle Reduction (inc water &amp; oil aerosols)</b>	Down to 1 micron	Down to 0.01 micron	N/A	Down to 1 micron	-
<b>Maximum Remaining Oil Aerosol Content at 21°C</b>	≤0.5 mg/m <sup>3</sup> (≤0.5 ppm(w))	≤0.01 mg/m <sup>3</sup> (≤0.01 ppm(w))	N/A	N/A	-
<b>Maximum Remaining Oil Vapour Content at System Temperature</b>	N/A	N/A	≤0.003 mg/m <sup>3</sup> (≤0.003 ppm(w))	N/A	-
<b>Filtration Efficiency</b>	99.925%	99.9999%	N/A	99.925%	-

## Quality Assurance / IP Rating / Pressure Vessel Approvals

<b>Development / Manufacture</b>	ISO 9001 / ISO 14001
<b>Ingress Protection Rating</b>	IP55 Indoor Use Only
<b>EU</b>	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
<b>USA</b>	Approval to ASME VIII Div. 1 not required
<b>AUS</b>	Approval to AS1210 not required
<b>GUS</b>	TR (formerly GOST-R)
<b>For use with compressed air only</b>	