

# BSP-MT 10-95 Breathable Compressed Air Purifier

## Dryer Performance

Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)
	°C	°F	
BSP-MT 10-95	-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 10-95	5	73	16	232	5	41	50	122	50	122	230V / 1ph / 50-60Hz	115V / 1ph / 50-60Hz	BSP	<75

## Flow Rates

Model	Pipe Size	Flow Rate				Regeneration Air Requirement			
		L/s	m³/min	m³/hr	cfm	L/s	m³/min	m³/hr	cfm
BSP-MT 10	G1	44	2.64	158	93	8.8	0.53	31.6	19
BSP-MT 15	G1	58	3.51	210	124	11.7	0.70	42	25
BSP-MT 20	G1	76	4.58	274	161	15.2	0.92	54.8	32
BSP-MT 25	G1½	103	6.20	371	218	20.6	1.24	74.2	44
BSP-MT 35	G1½	134	8.08	484	285	26.9	1.62	96.8	57
BSP-MT 45	G1½	164	9.84	589	347	32.7	1.97	117.8	69
BSP-MT 60	G2	233	14.01	839	494	46.6	2.80	167.8	99
BSP-MT 75	G2	314	18.85	1129	665	62.7	3.77	225.8	133
BSP-MT 95	G2½	381	22.90	1371	807	76.2	4.58	274.2	161

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.

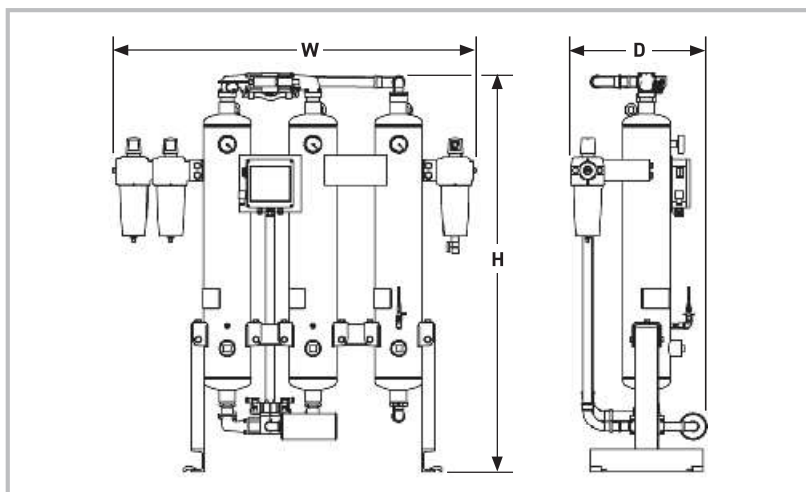
## Product Selection & Correction Factors

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 10	G1	1420	55.9	1300	51.2	490	19.3	164	362
BSP-MT 15	G1	1750	68.9	1300	51.2	490	19.3	197	434
BSP-MT 20	G1	1530	60.2	1100	43.3	490	19.3	196	432
BSP-MT 25	G1½	1760	69.3	1100	43.3	530	20.9	237	522
BSP-MT 35	G1½	1810	71.3	1390	54.7	585	23.0	286	631
BSP-MT 45	G1½	1820	71.7	1455	57.3	605	23.8	341	752
BSP-MT 60	G2	1870	73.6	1515	59.6	635	25.0	435	959
BSP-MT 75	G2	2000	78.7	1665	65.6	635	25.0	562	1239
BSP-MT 95	G2½	2000	78.7	1715	67.5	670	26.4	705	1554

## Included Filtration

Model	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 10 - BSP-MT 95	•	•	•	•	
Filtration Performance	General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
Filtration Grade	Grade ZL	Grade XL	AK	Grade ZL	-
Filtration Type	Coalescing	Coalescing	Adsorption	Dry Particulate	-
Particle Reduction (inc water & oil aerosols)	Down to 1 micron	Down to 0.01 micron	N/A	Down to 1 micron	-
Maximum Remaining Oil Aerosol Content at 21°C	≤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	-
Maximum Remaining Oil Vapour Content at System Temperature	N/A	N/A	≤0.003 mg/m <sup>3</sup> (≤0.003 ppm(w))	N/A	-
Filtration Efficiency	99.925%	99.9999%	N/A	99.925%	-

## Quality Assurance / IP Rating / Pressure Vessel Approvals

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