

BA-DME Breathable Compressed Air Purifier

Performance

Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)
	°C	°F	
BA-DME	-40	-40	Class 1.2.1

Technical Data

Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Thread Type	Noise Level dB(A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F			
BA-DME012E - BA-DME040E	4	58	16	232	5	41	30	86	55	131	230V / 1ph / 50-60Hz	BSPP	<75
BA-DME050E - BA-DME080E			13	189									

Flow Rates

Model	Pipe Size		Inlet Flow Rate				Regeneration Air Requirement			
	Inlet	Outlet	L/s	m ³ /min	m ³ /hr	cfm	L/s	m ³ /min	m ³ /hr	cfm
BA-DME012E	G½	G¾	11	0.68	41	24	2	0.14	8	5
BA-DME015E	G½	G¾	15	0.92	55	32	3	0.18	11	6
BA-DME020E	G½	G¾	20	1.19	71	42	4	0.24	14	8
BA-DME025E	G½	G¾	25	1.50	90	53	5	0.30	18	11
BA-DME030E	G½	G¾	31	1.84	110	65	6	0.37	22	13
BA-DME040E	G¾	G¾	41	2.49	149	88	8	0.50	30	18
BA-DME050E	G1	G1	50	3.01	180	106	10	0.60	36	21
BA-DME060E	G1	G1	61	3.69	221	130	12	0.74	44	26
BA-DME080E	G1	G1	83	4.99	299	176	17	1.00	60	35

Stated flows are for operation at 7 bar (g) (102 psi g) 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 using for the maximum (summer) inlet temperature, minimum inlet pressure required 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.

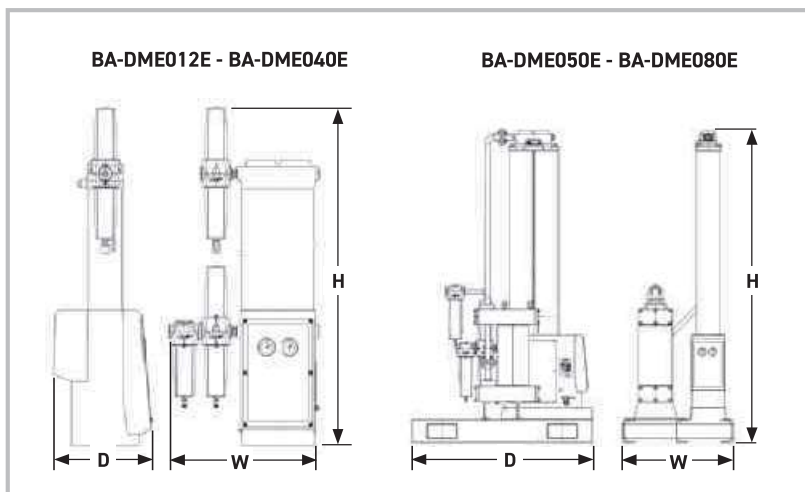
Minimum Purification Capacity = System Flow x CFMIT x CFMIP

CFMIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30
	°F	77	86
Correction Factor		1.00	1.20

CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	1613
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.54	0.50	0.47



Weights & Dimensions

Model	Pipe Size		Dimensions						Weight	
	Inlet	Outlet	Height (H)		Width (W)		Depth (D)		kg	lbs
			mm	ins	mm	ins	mm	ins		
BA-DME012E	G $\frac{1}{2}$	G $\frac{3}{8}$	1000	93.4	578	22.8	302	12	37	81.5
BA-DME015E	G $\frac{1}{2}$	G $\frac{3}{4}$	1197	47.1	480	18.9	302	12	42	93
BA-DME020E	G $\frac{1}{2}$	G $\frac{3}{4}$	1326	52.2	480	18.9	302	12	47	104
BA-DME025E	G $\frac{1}{2}$	G $\frac{3}{4}$	1527	60.1	480	18.9	302	12	52	115
BA-DME030E	G $\frac{1}{2}$	G $\frac{3}{4}$	1693	66.7	511	20.1	302	12	57	126
BA-DME040E	G $\frac{1}{2}$	G $\frac{3}{4}$	1941	76.4	545	21.5	302	12	74	163
BA-DME050E	G1	G1	1699	66.9	400	15.8	1200	47.2	210	463
BA-DME060E	G1	G1	1831	72.1	400	15.8	1200	47.2	222	490
BA-DME080E	G1	G1	2076	81.7	745	29.3	1200	47.2	279	615

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
BA-DME012E ~ BA-DME080E	•	•	•		•
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 AO	Grade AA	AC	-	Grade AA
Filtration Type	Coalescing	Coalescing	Adsorption	-	Coalescing
Particle Reduction (inc water & oil aerosols)	Down to 1 micron	Down to 0.01 micron	N/A	-	Down to 0.01 micron
Maximum Remaining Oil Aerosol Content at 21°C	≤0.5 mg/m ³ (≤0.5 ppm(w))	≤0.01 mg/m ³ (≤0.01 ppm(w))	N/A	-	N/A
Maximum Remaining Oil Vapour Content at System Temperature	N/A	N/A	≤0.003 mg/m ³ (≤0.003 ppm(w))	-	N/A
Filtration Efficiency	99.925%	99.9999%	N/A	-	99.9999%

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	