

BAC-4015 Breathable Compressed Air Purifier

Performance

Model	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)
	°C	°F	
BAC-4015	-40	-40	Class 1.2.1

Technical Data

Model	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Thread Type	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F			dB(A)
BAC-4015	4	58	10	145	5	41	30	86	55	131	Fully Pneumatic	BSPP	<75

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
BAC-4015	G½	G¼	11	0.68	41	24	2.36	0.14	8.5	5

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, 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.

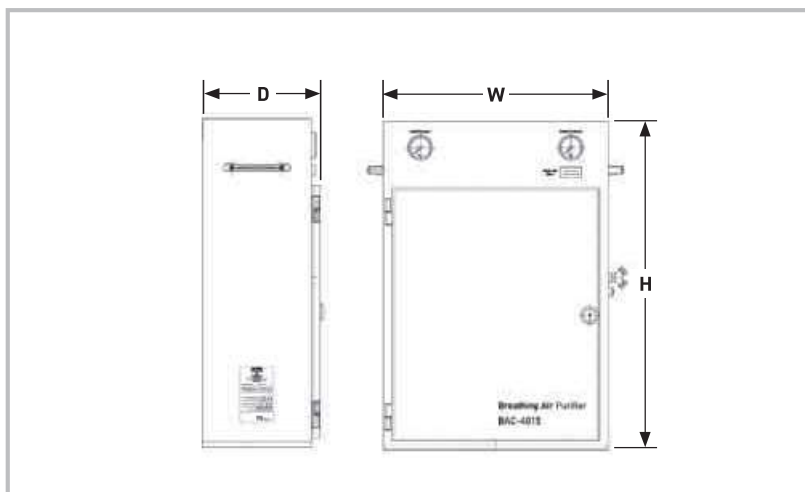
Minimum Purification Capacity = System Flow x CFMIT x CFMIP

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
	psi g	58	73	87	100	116	131	145
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73



Weights & Dimensions

Model	Pipe Size BSPP		Dimensions						Weight	
			Height (H)		Width (W)		Depth (D)			
	Inlet	Outlet	mm	ins	mm	ins	mm	ins	kg	lbs
BAC-4015	G½	G¼	752	29.6	515	20.3	272	10.7	40	88.2

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
BAC-4015		•	•		•

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