

BAP12-142+ Series

Breathing air that complies with international breathing air standards

High quality air is of vital importance to many industries but even more so in breathing air applications. Atlas Copco BAP+ Breathing Air Purifiers are designed to offer protection against a range of contaminants that may be present in a compressed air fed breathing air system. These include fumes, oil, vapors, gases, solid particles and micro-organisms. Complying with International Breathing Air standards, the BAP+ Breathing Air Purifier range assures a safe working environment in a wide range of applications.

Breathing air applications:

- Short-blasting
- Tank cleaning
- Tunneling

Innovation

The breathing air purifier is

fitted with a patented purge

nozzle design with multiple

rate to be adjusted to suit

orifice sizes, enabling the purge

customer requirement, instead of

delivering a set of fixed nozzles.

- Spray painting
- Offshore/marine
- Asbestos removal
- Pharmaceutical manufacturing
 High-pressure cylinder filling



Compact operation

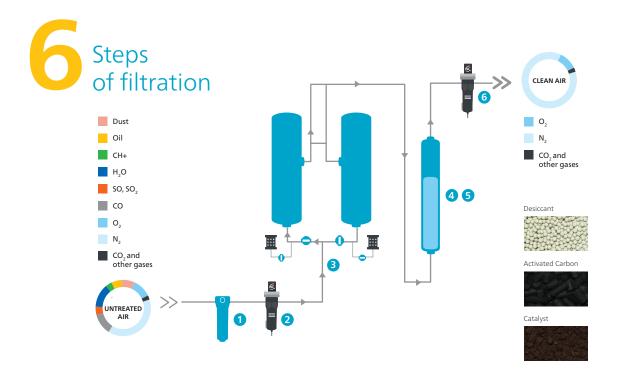
Through clever component positioning, the BAP+ fits into any space or setting. It comes pre-assembled and ready for use, ensuring minimal installation time and cost.





Energy efficiency

The BAP+ series incorporates stateof-the-art energy management control with built-in purge control as standard. The purge saver stops the purge flow when the dew point level remains low, leading to a more efficient use of energy.





A heatless desiccant dryer reduces moisture content to a pressure dew point of -40°C/-40°F, removing any risk of condensation, bacteria and mold growth.

A dual cleaning stage includes activated carbon to eliminate hydrocarbons (oil vapor, smells, etc.). A catalyst then converts CO into CO₂.

A bacterial filter at the exit removes bacteria and particles that may have been introduced in the desiccant stages with a count efficiency of 99.99%.

Choose the **best fit** for your requirement

BAP+ with advanced Elektronikon[®] controller

• 3,5" high definition display

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- Standard purge control for up to 90% energy savings
- Alarms and warnings on PDP, net pressure and service
- Service warning indications for desiccant, catalyst, filters and water drains
- Pressure sensor on outlet for full control over the dryer's performance

Option	BAP+
EWD on filters and water drain	0
Inlet solenoid for remote control	0
Canadian CSA Option Kit (incl. NPT connection)	0
QDT quality indicator	0
Catalyst (CO to CO_2)	0
CO sensor	0
CO ₂ sensor	0
O ₂ sensor	0
Overflow protection (nozzle)	0
Gateway (Profibus, Modbus)	0

O: optional

Technical Specifications									
Туре	Inlet pr	essure	Max. inlet flow			Purge	Pressure drop		
	bar(e)	psig	l/s	m³/h	cfm	%	dP, mbar	psi	
BAP12+	7	102	12	43.2	25.4	18	646	9.36	
	10	145	16	57.6	33.9	18	646	9.36	
	13	188	21	75.6	44.5	18	646	9.36	
BAP17+	7	102	17	61.2	36	18	926	13.4	
	10	145	23	82.8	48.7	18	926	13.4	
	13	188	29	104.4	61.4	18	926	13.4	
BAP21+	7	102	21	75.6	44.5	18	722	10.4	
	10	145	29	104.4	61.4	18	722	10.4	
	13	188	37	133.2	78.4	18	722	10.4	
BAP35+	7	102	35	126	74.1	18	712	10.3	
	10	145	49	176.4	103.8	18	712	10.3	
	13	188	62	223.2	131.4	18	712	10.3	
BAP42+	7	102	42	151.2	89	18	644	9.3	
	10	145	58	208.8	122.9	18	644	9.3	
	13	188	75	270	158.9	18	644	9.3	
BAP52+	7	102	52	187.2	110.2	18	739	10.7	
	10	145	71	255.6	150.4	18	739	10.7	
	13	188	91	327.6	192.8	18	739	10.7	
BAP71+	7	102	71	255.6	150.4	18	749	10.9	
	10	145	97	349.2	205.5	18	749	10.9	
	13	188	124	446.4	262.7	18	749	10.9	
BAP104+	7	102	104	374.4	220.4	18	914	13.3	
	10	145	142	511.2	300.9	18	914	13.3	
	13	188	182	655.2	385.6	18	914	13.3	
BAP142+	7	102	142	511.2	300.9	18	1,475	21.4	
	10	145	194	698.4	411	18	1,475	21.4	
	13	188	248	892.8	525.5	18	1,475	21.4	

Flow mentioned is the maximum inlet flow to the BAP+. Dryer unit performance measured according to ISO 7183, latest edition.

Quality of air measured according to ISO 8573-2, Ed. 1, 1996, ISO 8573-4, Ed.1, 2001 and ISO 8573-5, Ed.1, 2001 for filter used.

Reference conditions: Compressed air inlet temperature: 35°C/100°F. Ambient temperature: 25°C/77°F. Inlet relative humidity: 100%.

Nominal working pressure: 7.5 bar(e)/109 psig, 10 bar(e)/145 psig and 12.5 bar(e)/181 psig respectively. Limitations of operation:

Maximum/minimum ambient temperature: 40°C/1°C, 104°F/34°F.

Maximum inlet compressed air temperature: 45°C/113°F. Maximum inlet pressure: 16 bar(e)/232 psig for 13 bar units.

Maximum pressure: 11 bar(e)/160 psig for 7.5 bar and 10 bar units.

Туре	Weight	Length	Width	Height	Connection
	kg	mm	mm	mm	connection
BAP12+	106	700	800	1580	1/2″
BAP17+	116	700	800	1640	1/2″
BAP21+	131	700	800	1680	1/2″
BAP35+	BAP35+ 137		800	1680	1″
BAP42+	159	700	800	1680	1″
BAP52+	213	700	800	1680	1 1⁄2″
BAP71+	213	700	800	1735	1 1⁄2″
BAP104+	290	900	800	1778	1 1⁄2″
BAP142+	338	900	800	1778	1 1/2"

