



High quality air is of vital importance to many industries but even more so in breathing air applications. Atlas Copco BAP/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 microorganisms. Complying with International Breathing Air standards, the BAP/BAP+ Breathing Air Purifier range assures a safe working environment in a wide range of applications.

Breathing air applications:

- Short-blasting
- Tank cleaning
- Tunneling
- · Pharmaceutical manufacturing
- Spray painting
- Offshore/marine
- Asbestos removal
- High-pressure cylinder filling







Innovation

The breathing air purifier is fitted with a patented purge nozzle design with multiple orifice sizes*, enabling the purge rate to be adjusted to suit customer requirement, instead of delivering a set of fixed nozzles.



Compact operation

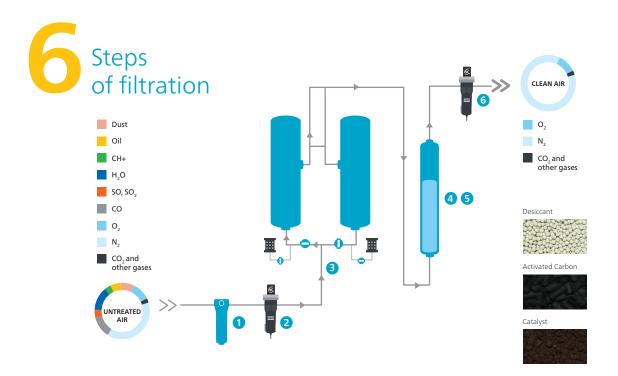
Through clever component positioning, the BAP/BAP+ fits into any space or setting. It comes pre-assembled and ready for use, ensuring minimal installation time and cost.



Energy efficiency

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

^{*} The patented purge nozzle and purge control are not available on the BAP12-17.



- A water separator for free water removal together with a fine and coarse coalescing filter, removes oil aerosol to less than 0.01 mg/m³.
- 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 basic controller

- Easy to use LED screen
- Microcontroller based design
- Dual voltage Device (115-230V)
- Alarm outputs to indicate solenoid faults, power faults and service intervals

BAP+ with advanced Elektronikon® controller

- 3,5" high definition display
- 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	ВАР	BAP+
EWD on filters and water drain	0	0
Inlet solenoid for remote control	-	0
Canadian CSA Option Kit (incl. NPT connection)	0	0
QDT quality indicator	0	0
Catalyst (CO to CO ₂)	0	0
CO sensor	0	0
CO ₂ sensor	0	0
O ₂ sensor	0	0
Overflow protection (nozzle)	0	0
Gateway (Profibus, Modbus)	-	0

^{-:} Not available O: optional

Technical Specifications								
Torres	Inlet pressure			Max. inlet flow		Purge	Pressure drop	
Туре	bar(e)	psig	I/s	m³/h	cfm	%	dP, mbar	psi
BAP12 BAP12+	7	102	12	43.2	25.4	18	646	9.36
	10	145	16	57.6	33.9	13	646	9.36
	13	188	21	75.6	44.5	10	646	9.36
BAP17 BAP17+	7	102	17	61.2	36	18	926	13.4
	10	145	23	82.8	48.7	13	926	13.4
	13	188	29	104.4	61.4	10	926	13.4
BAP21 BAP21+	7	102	21	75.6	44.5	18	722	10.4
	10	145	29	104.4	61.4	13	722	10.4
	13	188	37	133.2	78.4	10	722	10.4
BAP35 BAP35+	7	102	35	126	74.1	18	712	10.3
	10	145	49	176.4	103.8	13	712	10.3
	13	188	62	223.2	131.4	10	712	10.3
BAP42 BAP42+	7	102	42	151.2	89	18	644	9.3
	10	145	58	208.8	122.9	13	644	9.3
	13	188	75	270	158.9	10	644	9.3
BAP52	7	102	52	187.2	110.2	18	739	10.7
	10	145	71	255.6	150.4	13	739	10.7
BAP52+	13	188	91	327.6	192.8	10	739	10.7
BAP71 BAP71+	7	102	71	255.6	150.4	18	749	10.9
	10	145	97	349.2	205.5	13	749	10.9
	13	188	124	446.4	262.7	10	749	10.9
	7	102	104	374.4	220.4	18	914	13.3
BAP104 BAP104+	10	145	142	511.2	300.9	13	914	13.3
BAP104+	13	188	182	655.2	385.6	10	914	13.3
5.15.445	7	102	142	511.2	300.9	18	1,475	21.4
BAP142 BAP142+	10	145	194	698.4	411	13	1,475	21.4
	13	188	248	892.8	525.5	10	1,475	21.4

Flow mentioned is the maximum inlet flow to the BAP/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.

 $Maximum\ in let\ compressed\ air\ temperature: 50°C/122°F.$

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	77	450	550	1241	1///	
BAP12+	106	700	800	1580	1/2"	
BAP17	87	450	550	4640	1/#	
BAP17+	116	700	800	1640	1/2"	
BAP21	102	700	000	1217	1/11	
BAP21+	131	700	800	1680	1/2"	
BAP35	108		000	1460	4.11	
BAP35+	137	700	800	1680	1"	
BAP42	130	700	000	1585	1"	
BAP42+	159	700	800	1680	" <u> </u>	
BAP52	184	700	000	1517	1.1/"	
BAP52+	213	700	800	1680	1 ½"	
BAP71	184	700	800	1735	1 1/2"	
BAP71+	213	700	800	1/35	1 72	
BAP104	261	900	800	1822	1 1/2"	
BAP104+	290		800	1778	1 1/2	
BAP142	309		000	1847	1 ½"	
BAP142+	338	900	800	1778	1 72	

