



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:

- Shot-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**

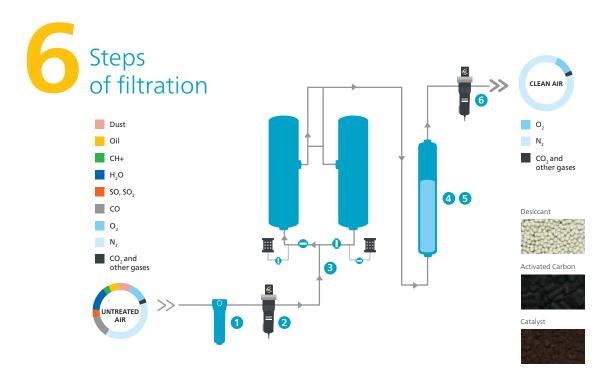
Through clever component positioning, the BAP/BAP+ fits into any space or setting. It comes pre-assembled and ready for use, ensuring minimal installation time and cost.



#### **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.

<sup>\*</sup> 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 CO<sub>2</sub>.
  - 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 <sub>2</sub> )	0	0
CO sensor	0	0
CO <sub>2</sub> sensor	0	0
O <sub>2</sub> sensor	0	0
Overflow protection (nozzle)	0	0
Gateway (Profibus, Modbus)	-	0

<sup>-:</sup> Not available O: optional

Technical Specifications								
Time	Inlet pressure			Max. inlet flow		Purge	Pressure drop	
Туре	bar(e)	psig	I/s	m³/h	cfm	%	dP, mbar	bar
BAP12 BAP12+	7	102	12	43.2	25.4	18	900	0.9
	10	145	16	57.6	33.9	13	1000	1
	13	188	21	75.6	44.5	10	1200	1.2
BAP17 BAP17+	7	102	17	61.2	36	18	1400	1.4
	10	145	23	82.8	48.7	13	1600	1.6
DAF 17+	13	188	29	104.4	61.4	10	2000	2
BAP21 BAP21+	7	102	21	75.6	44.5	18	1100	1.1
	10	145	29	104.4	61.4	13	1200	1.2
	13	188	37	133.2	78.4	10	1300	1.3
BAP35 BAP35+	7	102	35	126	74.1	18	1000	1
	10	145	49	176.4	103.8	13	1100	1.1
	13	188	62	223.2	131.4	10	1200	1.2
BAP42 BAP42+	7	102	42	151.2	89	18	900	0.9
	10	145	58	208.8	122.9	13	1000	1
	13	188	75	270	158.9	10	1100	1.1
	7	102	52	187.2	110.2	18	900	0.9
BAP52 BAP52+	10	145	71	255.6	150.4	13	1000	1
DAF32+	13	188	91	327.6	192.8	10	1100	1.1
D A D 7.1	7	102	71	255.6	150.4	18	1300	1.3
BAP71 BAP71+	10	145	97	349.2	205.5	13	1600	1.6
	13	188	124	446.4	262.7	10	1900	1.9
	7	102	104	374.4	220.4	18	1000	1
BAP104 BAP104+	10	145	142	511.2	300.9	13	1200	1.2
DAT 104+	13	188	182	655.2	385.6	10	1300	1.3
BAP142 BAP142+	7	102	142	511.2	300.9	18	1400	1.4
	10	145	194	698.4	411	13	1700	1.7
	13	188	248	892.8	525.5	10	2000	2

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:  $40^{\circ}$ C/ $1^{\circ}$ C,  $104^{\circ}$ F/ $34^{\circ}$ F.

Maximum inlet 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

Туре	Weight	Length	Width	Height	Connection	
туре	kg	mm	mm	mm	Connection	
BAP12	77	450	550	1241	1/#	
BAP12+	106	700	800	1580	1/2"	
BAP17 BAP17+	87	450	550	1640	1///	
	116	700	800	1640	1/2"	
BAP21	BAP21 102 700 000		1217	1///		
BAP21+	131	700	800	1680	1/2"	
BAP35	108	700	700 800	1460	1"	
BAP35+	137	700		1680		
BAP42	130	700	800	1585	1"	
BAP42+	159	700	800	1680		
BAP52	184	700		1517	1.1/"	
BAP52+	213	700	800	1680	1 ½"	
BAP71	184	700	800	1725	4.1/"	
BAP71+	213	213 700 800	1735	1 ½"		
BAP104	261	000	000	1822	4.1///	
BAP104+	290 900 800		1778	1 ½"		
BAP142	309	900	000	1847	4.1///	
BAP142+	BAP142+ 338		800	1778	1 ½"	



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