



BA 25 - 300 - HE Breathing Air Purifiers

Features & Benefits

- ▶ The Pneumatech solution for Industrial Breathing Air applications, build to exceed standards
- ▶ Compliance with stringent international standards
- ▶ Special 7-stage filtration process offered unparalleled compressed air purity
 - Water Separator - For liquid water
 - Fine Filter - For Oil and Water aerosols
 - Super Fine Filter - For Oil and Water aerosols
 - Adsorption Dryer - For Water vapour and CO₂
 - Activated Carbon - For Gaseous impurities
 - Catalyst - For CO oxidation to CO₂
 - Bacteria Filter - For Bacteria & dust particles
- ▶ Advanced energy management for lowest operating costs
 - Compressor synchronization
 - Purge nozzle optimization
 - PDP control - Dew Point switching
- ▶ Advanced gas sensors
 - Direct reading from the controller screen
 - Voltage free contacts for easy integration
 - Adjustable level of warnings
- ▶ Best in class performance thanks to unique and patented purge nozzle design:
 - Purging rate adjusted as per the customer requirements instead of having multiple sets of the nozzles
- ▶ Low noise levels
- ▶ High quality filters
 - Guaranteed air purity thanks to High-efficient glass fibre media.
 - Significant energy savings with lower pressure drops
- ▶ More compact and easy to use -
 - Smaller footprint than previous designs - 35% smaller
 - Pre-assembled and ready for use eliminating complex installation needs

General Specifications

- ▶ Breathing Air Purifiers for Industrial applications.
- ▶ Dew points achievable: -40°C/-40°F
- ▶ Inlet pressure range: 4-13 barg/58-189 psig
- ▶ Ambient temperature range: 5-40°C/ 41-104°F
- ▶ Inlet temperature range: 5-50°C/41-122°F
- ▶ Power supply: 230 VAC 50 Hz/ 115 VAC 50Hz
- ▶ Maximum concentration of O₂ - 21,4%
- ▶ Reduced concentration of CO₂ below 500 PPM
- ▶ Reduced concentration of SO₂ /NO_x below 2 PPM



The compressed air quality is of vital importance in many applications even more so in breathing air applications. The applications, such as short-blasting, tank cleaning, tunneling, spray painting and many more require breathing air that is free from contaminants that may be present in the compressed air fed breathing air systems. These contaminants are present in the feed air in the form of fumes, oil, vapors, gases, solid particles and microorganisms.

Pneumatech's breathing air purifiers offers guaranteed protection against such contaminants complying with International breathing Air standards. The BA HE range assures safe working environment in a wide range of applications. Built to exceed standards, BA HE purifiers provide certified breathing air, even in situations with polluted intake air to ensure personnel safety at all times. The seven-filtration stages of the BA HE have been

carefully designed to make sure the air quality at the outlet complies with stringent international standards.

New and unique design for the adsorption dryer offers significant advantage. The purge valve design (patent awaited) offers optimum purge performance. The renovated design drastically lowers the purge air consumption saving value for the customer from the compressed air lost. The gas sensors are available as an option to optimize the system further. The possibility to connect the signals to the PureLogic Controller offers optimal control and monitoring.

With approximately 35% reduction in size, new BA HE version offers significant space saving advantage allowing for more flexible installations

Technical Specifications BA 25 - 300 HE

Specifications ↓	Units	BA25 HE	BA35 HE	BA45 HE	BA75 HE	BA90 HE	BA110 HE	BA150 HE	BA220 HE	BA300 HE
Flow ⁽¹⁾	l/s	12	17	21	35	42	52	71	104	142
	m ³ /hr	43.2	61.2	75.6	126	151.2	187.2	255.6	374.4	511.2
	cfm	25.4	36.0	44.5	74.2	89.0	110.2	150.4	220.4	300.9
Installed power	(kW)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	hp	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Pressure drop over dryer	bar	0.9	1.4	1.1	1	0.9	0.9	0.9	1	1.4
	psi	13.1	20.3	16.0	14.5	13.1	13.1	13.1	14.5	20.3
Purge flow	(%)	18	18	18	18	18	18	18	18	18
Height	mm	1580	1598	1681	1678	1678	1678	1735	1776	1778
	inch	62.2	62.9	66.2	66.1	66.1	66.1	68.3	69.9	70.0
Width	mm	550	550	800	800	800	800	800	800	800
	inch	21.7	21.7	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Length	mm	450	450	700	700	700	700	700	900	900
	inch	17.7	17.7	27.6	27.6	27.6	27.6	27.6	35.4	35.4
Connection inlet/outlet	inch	1/2"	1/2"	1/2"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Net mass	kg	106	116	131	137	159	213	213	290	338
	lbs	234	256	289	302	351	470	470	639	745

1. Flow is measured at reference conditions: 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 35°C & std PDP of -40°C at the outlet.

Options



Electronic drains



VT saturation indicator (Oil indicator)



O₂, CO & CO₂ sensors



NPT connections



Optimised purge nozzle



BA 25 - 300 - S Breathing Air Purifiers

Features & Benefits

- ▶ The Pneumatech solution for Industrial Breathing Air applications, build to exceed standards.
- ▶ Compliance with stringent international standards
- ▶ Special 7-stage filtration process offered unparalleled compressed air purity
 - Water separator - For liquid water
 - Fine filter - For oil and water aerosols
 - Super fine filter - For oil and water aerosols
 - Adsorption dryer - For water vapour and CO₂
 - Activated carbon - For gaseous impurities
 - Catalyst - For CO oxidation to CO₂
 - Bacteria filter - For bacteria & dust particles
- ▶ Best-in-class performance thanks to unique purge valve design (patent pending)
 - Lowest pressure drop during drying
 - Lowest purge loss by ensuring maximum purge air expansion during regeneration
- ▶ Low noise levels
- ▶ High quality filters
 - Guaranteed air purity thanks to High-efficient glass fiber media
 - Significant energy savings with lower pressure drops
- ▶ Compact and easy to connect design

General Specifications

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- ▶ Ambient temperature range: 5-40°C/ 41-104°F
- ▶ Inlet temperature range: 5-50°C/41-122°F
- ▶ Power supply: 230 VAC 50 Hz/ 115 VAC 50Hz
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carefully designed to make sure the air quality at the outlet complies with stringent international standards.

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With approximately 35% reduction in size, new BA S version offers significant space saving advantage allowing for more flexible installations

Technical Specifications for BA 25 S up to BA 300 S

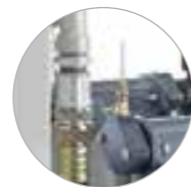
Specifications ↓	Units	BA25 S	BA35 S	BA45 S	BA75 S	BA90 S	BA110 S	BA150 S	BA220 S	BA300 S
Flow ⁽¹⁾	l/s	12	17	21	35	42	52	71	104	142
	m ³ /hr	43.2	61.2	75.6	126	151.2	187.2	255.6	374.4	511.2
	cfm	25.4	36.0	44.5	74.2	89.0	110.2	150.4	220.4	300.9
Installed power	(kW)	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	hp	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Pressure drop over dryer	bar	0.65	0.93	0.72	0.71	0.64	0.74	0.75	0.91	1.48
	psi	9.4	13.4	10.5	10.3	9.3	10.7	10.9	13.3	21.4
Purge flow	%	18	18	18	18	18	18	18	18	18
Height	mm	1247	1642	1212	1467	1592	1522	1715	1824	1848
	inch	49.1	64.6	47.7	57.8	62.7	59.9	67.5	71.8	72.8
Width	mm	550	550	800	800	800	800	800	800	800
	inch	21.7	21.7	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Length	mm	450	450	700	700	700	700	700	900	900
	inch	17.7	17.7	27.6	27.6	27.6	27.6	27.6	35.4	35.4
Inlet and Outlet Connections	inch	1/2"	1/2"	1/2"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Net mass	kg	77	87	102	108	130	184	184	261	309
	lbs	170	192	225	238	287	406	406	575	681

1. Flow is measured at reference conditions: 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 35°C & std PDP of -40°C at the outlet.

Options



Electronic drains



VT saturation indicator (Oil indicator)



Gas sensors (As sales options)



NPT connections