



# BA 15-310 HE Breathing Air Purifiers

## Features & Benefits

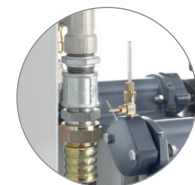
- ▶ The Pneumatech solution for Industrial Breathing Air applications, build to exceed standards
- ▶ Compliance with stringent international standards
  - EN12021 & European Pharmacopeia
  - OSHA Grade D, NFPA-99, CSA Z180.1-00, CGA G7.1-1997,
  - BS 4275, ISO 14971, OHSAS 18001
- ▶ Special 7-stage filtration 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 CO<sub>2</sub>
  - Activated Carbon - For Gaseous impurities
  - Catalyst - For CO oxidation to CO<sub>2</sub>
  - 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 valve and exhaust 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 fibre media.
  - Significant energy savings with lower pressure drops
- ▶ Compact and easy to connect design



## Options



Electronic Drains



VT saturation indicator (Oil Indicator)



O<sub>2</sub>, CO & CO<sub>2</sub> sensors



NPT Connections



Optimised purge Nozzle

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 EN12021 and European Pharmacopeia.

Specially engineered valve manifolds includes the pilot air controlled 3/2 valves with reliable and fast switching helps to reduce the pressure drop to a minimum. This does not only result in a low-pressure drop over the dryer, but also ensures maximum purge air expansion during regeneration. That lowers the purge air consumption drastically. 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.

Technical Specifications for BA 15 HE up to BA 310 HE										
Specifications ↓	Units	BA 15 HE	BA 30 HE	BA 55 HE	BA 75 HE	BA 105 HE	BA 150 HE	BA 170 HE	BA 210 HE	BA 310 HE
Nominal Volume flow at dryer 7 bar inlet	l/s	7	15	25	35	45	65	80	100	145
	m <sup>3</sup> /hr	25	54	90	126	162	234	288	360	522
Nominal Volume flow at dryer 10 bar inlet	l/s	8.4	18	30	42	54	78	96	120	174
	m <sup>3</sup> /hr	30	65	108	151	194	281	346	432	626
Nominal Volume flow at dryer 13 bar inlet	l/s	9.45	20.25	33.75	47.25	60.75	87.8	108	135	196
	m <sup>3</sup> /hr	34	73	122	170	219	316	389	486	706
Purge at 7 bar inlet		18	18	18	18	18	18	18	18	18
Purge at 10 bar inlet	%	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Purge at 13 bar inlet		13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Pressure drop over breathing air dryer at max. flow	Bar	0.515	0.530	0.560	0.595	0.82	0.660	0.700	0.82	0.800
	PSI	7.5	7.7	8.1	8.6	11.9	9.6	10.2	11.9	11.6
Installed power	W	100	100	100	100	100	100	100	100	100
Height	mm	1580	1580	1580	1580	1580	1840	1840	1840	2019
	inch	62	62	62	62	62	72	72	72	79
Width	mm	650	650	650	650	650	850	850	850	850
	inch	26	26	26	26	26	33	33	33	33
Length	mm	1115	1115	1115	1115	1115	1115	1300	1300	1300
	inch	44	44	44	44	44	44	51	51	51
Net mass	Kg	169	172	172	174	188	252	273	333	388
	Lbs	373	379	379	384	414	556	602	734	855
Connection inlet/outlet	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1 1/2"	1 1/2"