

FEATURES AND BENEFITS

FILTRATION & MONITORING

- Pre-filtration removes solids and oils
- After-filters collect remaining particles and adsorb vapor
- CO catalyst converter
- Air sample ports for optional analyzer installation

MOISTURE INDICATOR

- Visual color change

PRESSURE GAUGES

- Left / right tower
- Inlet / outlet purifier
- Purge pressure

STANDARD CONTROLLER

- NEMA 4/4X with critical LED indicators
- Soft on / off switch with two power recovery modes

- Switching failure alarms
- Adjustable service indications
- Tower / valve status LEDs
- Voltage free common alarm contacts
- RS-232 communications port

OPTIONS

- Nema 7 electrical rating
- Copper, brass or stainless steel instrument tubing and fittings
- SSPC-SP10 sandblast & epoxy paint
- Breathing air analyzers

Advanced Controls Featuring:

- Vacuum fluorescent text display
- Automatic SensaTherm® energy savings
- Calibration-free temperature sensors
- High inlet temperature & low inlet pressure alarms



BREATHING AIR ANALYZERS

OSHA maximum concentrations for breathing air:

- 10 PPM of Carbon Monoxide (CO)
- 1,000 PPM of Carbon Dioxide (CO₂)
- 5 mg/m³ Oil (Condensed Hydrocarbons)

Breathing air system performance is subject to excessive intake of air contaminants. It is important that breathing air systems are routinely monitored for proper operation.

The BA Series Breathing Air Purifier can be monitored using several air analyzing options.

Carbon Monoxide (CO) Monitor

- Digital readout of CO concentration
- Visual and audible alarm
- Contacts for remote alarm
- Push-to-test button
- Alarm silence switch
- Simple calibration
- Adjustable high & low alarms with indication

Options:

- Nema 7 electrical rating
- Copper lines and brass fittings or stainless steel lines and fittings
- SSPC-SP10 sandblast & epoxy paint
- Breathing air analyzers with multiple alarm capabilities
 - » CO & oxygen
 - » CO & dew point
 - » CO, oxygen & dew point



TECHNICAL DATA

MODEL	INLET FLOW ¹		OUTLET FLOW ¹		VOLTAGES	IN/OUT CONNECTIONS	DIMENSIONS						WEIGHT	
	SCFM	NM ³ /H	SCFM	NM ³ /H			V/PH/HZ	H		W		D		LBS
						IN	IN	MM	IN	MM	IN	MM		
BA 15	18	31	15	26	1/60/120V (optional 1/60/230V upon request)	1 NPT	49	1244	42	1067	35	889	440	200
BA 25	30	51	25	42		1 NPT	49	1244	42	1067	35	889	450	204
BA 35	42	71	35	59		1 NPT	49	1244	42	1067	35	889	455	206
BA 50	60	102	50	85		1 NPT	64	1615	43	1097	38	962	560	254
BA 75	90	153	75	127		1 NPT	79	2006	43	1097	35	889	700	318
BA 95	114	194	95	161		1 NPT	56	1443	50	1270	45	1137	820	372
BA 135	162	275	135	229		1 NPT	56	1443	53	1356	43	1092	820	372
BA 205	246	418	205	348		1.5 NPT	75	1905	62	1575	45	1143	1190	540
BA 305	366	622	305	518		2 NPT	65	1651	66	1674	52	1327	1405	637
BA 375	450	765	375	637		2 NPT	74	1871	67	1702	52	1330	1560	708
BA 490	590	1002	490	833		2 NPT	103	2616	55	1397	69	1753	1650	748
BA 625	750	1274	625	1062		2 NPT	107	2718	62	1575	75	1905	2800	1270
BA 775	930	1580	775	1317		3 FLG	112	2845	62	1575	83	2108	3275	1486
BA 940	1130	1920	940	1597		3 FLG	115	2921	66	1676	82	2083	3750	1701

¹Flow capacity rated at CAGI conditions: 100 psig (7.0 bar) and 100°F (38°C) saturated inlet

REPLACEMENT FILTER ELEMENTS

MODEL	PREFILTERS		CATALYST	AFTERFILTERS	
	PF	UF		CARTRIDGE	PF
BA 15	FF02-PF-DG1	FF02-UF-DG1	FCC0	FF02-PF-TG1	FF02-CF-T
BA 25	FF03-PF-DG1	FF03-UF-DG1	FCC0	FF03-PF-TG1	FF03-CF-T
BA 35	FF04-PF-DG1	FF04-UF-DG1	FCC0	FF04-PF-TG1	FF04-CF-T
BA 50	FF06-PF-DG1	FF06-UF-DG1	FCC1	FF06-PF-TG1	FF06-CF-T
BA 75	FF07-PF-DG1	FF07-UF-DG1	FCC1	FF07-PF-TG1	FF07-CF-T
BA 95	FF08-PF-DG1	FF08-UF-DG1	FCC2	FF08-PF-TG1	FF08-CF-T
BA 135	FF10-PF-DG1	FF10-UF-DG1	FCC2	FF10-PF-TG1	FF10-CF-T
BA 205	FF10-PF-DG1	FF10-UF-DG1	FCC3	FF10-PF-TG1	FF10-CF-T
BA 305	FF12-PF-DG1	FF12-UF-DG1	FCC4	FF12-PF-TG1	FF12-CF-T
BA 375	FF13-PF-DG1	FF13-UF-DG1	FCC5	FF13-PF-TG1	FF13-CF-T
BA 490	FF14-PF-Z2G1	FF14-UF-Z2G1	FCC6	FF14-PF-G1	FF14-CF
BA 625	FF14-PF-Z2G1	FF14-UF-Z2G1	FCC7	FF14-PF-G1	FF14-CF
BA 775	FF15-PF-Z2G1	FF15-UF-Z2G1	FCC8	FF15-PF-G1	FF15-CF
BA 940	FF16-PF-Z2G1	FF16-UF-Z2G1	FCC9	FF16-PF-G1	FF16-CF

CAPACITY CORRECTION FACTORS

Inlet Pressure

PSIG	BAR	100°F/38°C	105°F/40°C	110°F/43°C	115°F/46°C	120°F/49°C
60	4.2	0.65	0.64	0.62	0.6	0.58
70	4.9	0.74	0.73	0.71	0.69	0.66
80	5.6	0.83	0.81	0.8	0.77	0.74
90	6.3	0.91	0.89	0.87	0.85	0.81
100	7	1	0.98	0.96	0.93	0.89
110	7.7	1.04	1.02	1	0.97	0.93
120	8.4	1.08	1.06	1.04	1	0.96
130	9.1	1.12	1.1	1.08	1.04	1
140	9.8	1.16	1.14	1.11	1.08	1.03
150	10.5	1.2	1.18	1.15	1.12	1.07

To adjust BA Series capacity for conditions other than rated, use the correction factors (multipliers) for inlet air temperature and pressure shown below.

Example: What is the capacity of a 205 scfm (348 nm³/h) model when the compressed air at the inlet is 130 psig (9 bar) and 110°F (43°C)?

Answer: 205 scfm (348 nm³/h) (rated flow from Product Specifications Table) x 1.08 (correction factor for inlet air temperature and pressure) = 221 scfm (375 nm³/h)