

# BRAHM™

## COLLECTOR SERIES



# BC24 Specifications

Working together for a crystal-clean production line

## Specifications

**Filter Cartridges:** (24) 100% cellulose or 80/20 flame retardant media (MERV 11)

**Filter Media:** 226 sq. ft./media each; 5,424 sq. ft./media total

**Motor/Blower:** (2 each) 10 - 30 HP, direct drive, backward incline blower

**Electrical Requirements:** 3 Ph: 208, 240, or 460 Volt

**Air Flow:** 6,800 - 19,600 CFM

**Pulse Nozzles:** 12

**Pulse Valve:** (4) 1.5" pulsing valve, pulse controller for automatic or manual operation

**Compressed Air Requirements:** 1" NPT compressed air connection;  
70-100 PSI Required

**Silencing:** Internal noise abatement in motor/blower compartment to dampen noise (70-85dB at 5')

**Weight Range:** 4,800 - 6,400 lbs\*

**Dimensions of Unit:** 88" x 105" x 105"

**Electrical Package:** Motor starter, controller, ON/OFF switch, pressure gauge, disconnect switch



\*Weight range depends on motor, blower, accessories, etc.

## Standard Features

**Electrical:** NEMA 12 electrical enclosure with integrated disconnect switch, motor starter, overload, and start/stop button

**Heavy Duty Construction:** Fully-welded 10 & 12 gauge steel

**Silencing:** Internal noise abatement in motor/blower compartment to dampen noise

**Sectioned Containment:** Each module is contained separately, increasing performance and enabling Life Pulsing

**Quick Connects:** "Plug and Play" setup requires no expertise to connect electrical panel

## Optional Features

**Synapse™ Controller Panel:** Designed to provide optimum automatic pulse cleaning and maximized energy efficiency; includes **Speed Pulsing** - Self-adapting based on the pressure inside the reservoir

**Filter Upgrade:** Nano Fiber (MERV 15), PTFE (MERV 16) and after filter module with HEPA (H13) filters available

**Economizer:** Automatic start/stop coordinated to arc sensor

**Silencer:** Additional noise reduction, available in 24", 36", and 48" heights

**Flexible Bulk Container Holder:** Holds collection bags such as Super Sacks

**Maintenance Platform:** Provides easy access to filters

**Dust Collection:** Hopper or Dust Bin/Trolley available

**Stand:** Various height stands (36", 48", 60", 72", 84", 96") available to elevate unit and provide additional floor space

**VFD:** Variable frequency drive for soft start, increased energy savings, noise reduction, and speed control of motor

**Bypass Sensor:** Allows unit to detect if smoke, dust, or other contaminants are bypassing filters, and alerts user to issue

**Fire Suppression System:** Provides an early warning, stops motors, locks out pulsing, stops air flow by closing both intake and exhaust louvers of unit, and administers suppression agent.

**Rotary Air Lock:** Airlock transition point that seals against loss of air or gas while maintaining the flow of waste between collection points

**Weather Protection:** Awning package and additional weathertight seals in unit



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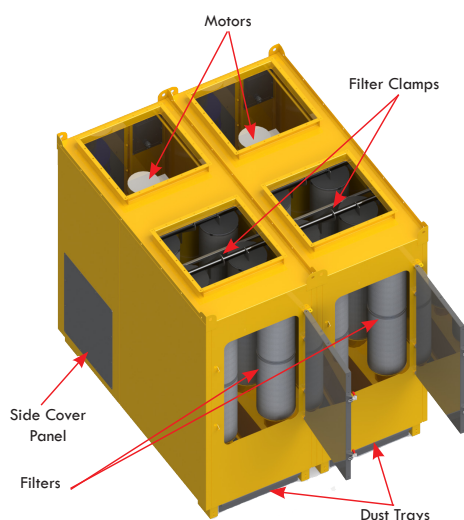
**Working together for a  
crystal-clean production line**

### BC24 Blower & Motor Configurations

Size		Max Pressure		Max Efficiency		Typical Application		Max Flow	
Blower Size	Power	Flow	Pressure	Flow	Pressure	Flow	Pressure	Flow	Pressure
	(HP)	(CFM)	(in H2O)	(CFM)	(in H2O)	(CFM)	(in H2O)	(CFM)	(in H2O)
<b>R71A2 400 x 100-E</b>	10HP (x2)	2800	10.5	12000	0	5800	10	12000	0
<b>16" 104%</b>	10HP (x2)	4400	7.3	11200	5.5	10800	6	16000	0
<b>18" 56%</b>	10HP (x2)	6000	10	8200	8.5	10000	6	12200	0
<b>20" 35%</b>	10HP (x2)	4800	12.5	6800	10.5	7000	10	10200	0
<b>18" 82%</b>	15HP (x2)	7600	10	12200	8.5	14800	6	18000	0
<b>20" 52%</b>	15HP (x2)	8000	12.5	10200	10.5	10800	10	15200	0
<b>22" 33%</b>	15HP (x2)	6000	15.5	8400	13	9200	11.5	12800	0
<b>18" 109%</b>	20HP (x2)	10800	10	16400	8.5	17000	8	24000	0
<b>20" 69%</b>	20HP (x2)	10400	12.5	13500	10.5	14000	10	20000	0
<b>22" 44%</b>	20HP (x2)	8000	15.5	11200	13	12000	11.5	16800	0
<b>20" 86%</b>	25HP (x2)	13000	12.5	16800	10.5	17000	10	25000	0
<b>22" 55%</b>	25HP (x2)	10000	15.5	13800	13.5	16000	11.5	21000	0
<b>24" 33%</b>	25HP (x2)	6800	19.5	11400	16.5	12800	14	16800	0
<b>20" 103%</b>	30HP (x2)	15000	12.5	20000	11	22000	10	30000	0
<b>22" 67%</b>	30HP (x2)	13000	15.5	17000	13	18000	11.5	26000	0
<b>24" 40%</b>	30HP (x2)	8000	19.5	13600	16.5	16000	14	20600	0

### Clean Air BRAHM™ Collectors

Designed as a plug-and-play collector system, the Clean Air BRAHM™ Collectors are the most versatile, compact, and powerful cartridge collector on the market. Using the new Synapse™ Panel and driven by supply pressure, timers have been eliminated and the collector offers up to 80% faster pulsing than previous industry models.



#### The Clean Air Synapse™ Panel features:

- Speed Pulsing: nearly 80% faster than the industry's standard filter pulsing, driven by supply pressure.
- Touch-screen display
- Self-cleaning system utilizing proprietary controller algorithms
- Remote Monitoring: Scheduling of run time, status logging, built-in diagnostics and manuals

#### The Clean Air BRAHM™ BC24 also features:

- Up to 40% decreased Can Velocity: more dropout equals less maintenance and longer filter life.
- Patented True Down Flow Technology with vertically positioned filters

**With collectors ranging in size from 1 filter to 108 filters, the Clean Air BRAHM™ Series is the ideal solution for your air filtration needs.**

Up to  
**40%**  
reduction in  
can velocity  
over previous models



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