

*Clean Air Solutions*



*Pulse Jet Dust Collectors*

THE CECOaire PULSE JET BAGHOUSE IS DESIGNED AND BUILT FOR DEMANDING APPLICATIONS, AND IS TYPICALLY A PART OF A CUSTOM TURNKEY AIR QUALITY SOLUTION. DESIGN FLEXIBILITY ALLOWS CECOaire TO DEVELOP THE SOLUTION WHICH PRECISELY MEETS YOUR NEEDS.



(2) Model 1538-10 Dust Collectors on Foundry Melt System

Pulse Valves and Timer Panels

**Our Exclusive Automatic Self-Cleaning System.**

The CECOaire pulse jet dust collector is an automatic self-cleaning system that utilizes pulse jets or high-pressure air to provide efficient, thorough cleaning with no internal moving parts. Top bag removal, walk-in plenum design, provides the ability to easily install and remove the snap-in filter bags.

The dirty air enters the dust collector through the inlet plenum. The air is forced down into the hopper and then back up into the bag section causing the large particles to drop out before reaching the bags.

The dirty air is then filtered through the bags with clean air passing through to the collector outlet and filtered dust remaining on the bags until a cleaning cycle is activated.

**Reliable Solid-State Timer Control**

The cleaning cycle is controlled by a solid-state timer, which activates the pilot solenoids on the diaphragm pulse valves. The pulse valves deliver the high-pressure, 90-100 PSI, compressed air to the blow tubes. The air from the blow tubes is directed down into the inside of the bags, causing them to expand and release the collected dust. The dust then falls into the hopper and is removed by the screw

conveyor and/or the rotary airlock.

**Four High-Performance Dust Collector Sections**

The standard pulse jet dust collector is comprised of (4) four sections with optional access walkway, access ladder, and support steel available. The four sections are:

- 1.) Clean Air Section (walk-in plenum) 10 ga.
- 2.) Pulse Section (including tubesheet) 3/16" plate
- 3.) Bag Section (including inlet plenum) 3/16" plate
- 4.) Hopper Section (with screw conveyor and rotary airlock) 3/16" plate

**We tailor systems just for you. Below are typical standard dimensions for baghouse design based on ACFM and air to cloth ratios requirements. CECOaire is committed to flexibility in design to make sure your baghouse fits your site requirements. Our system is superior. Our custom capabilities mean best performance for you.**

Model No.	No. of Bags	Cloth Area (sq. ft.)	Dimensions						Approx. Wt. (lbs.) (see note 2)
			A	B	C	D	E	F	
1518-10	270	4239	15'-5"	12'-5"	3'-0"	35'-1 7/8"	(see note 1)	10"	22,357
1520-10	300	4710	16'-9"	13'-9"	3'-0"	32'-11 1/2"	9"	10"	24,531
1522-10	330	5181	18'-1"	15'-1"	3'-0"	32'-11 1/2"	9"	10"	26,013
1524-10	360	5652	19'-5"	16'-5"	3'-0"	32'-11 1/2"	9"	10"	27,475
1526-10	390	6123	20'-9"	17'-9"	3'-0"	32'-11 1/2"	9"	10"	28,903
1528-10	420	6594	22'-3"	19'-1"	3'-2"	32'-11 1/2"	9"	10"	30,811
1530-10	450	7065	23'-7"	20'-5"	3'-2"	32'-11 1/2"	9"	10"	32,038
1532-10	480	7536	25'-1"	21'-9"	3'-4"	32'-11 1/2"	9"	10"	33,589
1534-10	510	8007	26'-7"	23'-1"	3'-6"	32'-11 1/2"	9"	10"	35,081
1536-10	540	8478	28'-2"	24'-5"	3'-9"	32'-11 1/2"	9"	10"	36,760
1538-10	570	8949	29'-8"	25'-9"	3'-11"	32'-11 1/2"	9"	10"	38,310
1540-10	600	9420	31'-3"	27'-1"	4'-2"	32'-11 1/2"	9"	10"	39,922
1542-10	630	9891	32'-10"	28'-5"	4'-5"	33'-6 1/8"	12"	12"	42,198
1544-10	660	10,362	34'-5"	29'-9"	4'-8"	33'-6 1/8"	12"	12"	43,840
1546-10	690	10,833	35'-11"	31'-1"	4'-10"	33'-6 1/8"	12"	12"	45,443
1548-10	720	11,304	37'-5"	32'-5"	5'-0"	33'-6 1/8"	12"	12"	46,972
1550-10	750	11,775	39'-0"	33'-9"	5'-3"	33'-6 1/8"	12"	12"	48,714
1552-10	780	12,246	40'-4"	35'-1"	5'-3"	33'-6 1/8"	12"	12"	50,139
1554-10	810	12,717	41'-11"	36'-5"	5'-6"	33'-6 1/8"	12"	12"	51,696
1556-10	840	13,188	43'-3"	37'-9"	5'-6"	33'-6 1/8"	12"	12"	53,529
1558-10	870	13,659	44'-10"	39'-1"	5'-9"	33'-6 1/8"	12"	12"	54,744

1. Model No. 1518-10 is furnished with with a pyramid type hopper discharging into a rotary airlock 2. Weight does not include the optional access walkway, access ladder, support steel, or any dust loading on the bags or in the hopper. 3. The inlet and outlet sizes and locations will vary with the system design.



(2) Model 1550-10 Collectors in Sand Tower of Foundry Sand System

All sections are constructed and designed for  $\pm 25''$  w.g. pressure. The collectors are ideal for heavy industrial applications requiring ruggedly constructed equipment for severe applications.

The clean air section is supplied with a man door and access door for convenient access to the bags and cages.

**All Major Components Pre-Wired and Pre-Installed**

The pulse section is provided with the pulse valves and air headers already installed. The pilot solenoids are pre-wired in a wireway with final connections to the timer pre-marked for field

connection. The timer panel will be field mounted to the clean air section near the man door.

The bag section includes the inlet plenum with 1/4'' AR. Plate baffle. Also provided in the top of the inlet plenum is a covered opening used for the pre-coating (seeding) and leak testing of the bags.

The hopper section is supplied with (2) two access doors for ease of dirty bag removal and maintenance of the screw conveyor.

The inlet/outlet sizes and locations will be determined by the system design. The pulse section can also be oriented to best suit access to the pulse valves and clean air section doors.

**Industries Served:**

- FOUNDRY
- MINERALS: MINING, PROCESSING
- GYPNUM
- CEMENT
- ROCKWOOL
- FIBERGLASS
- COAL HANDLING
- GRAIN PROCESSING
- METAL FABRICATION, CLEANUP
- PRIMARY AND SECONDARY
- METALS PROCESSING

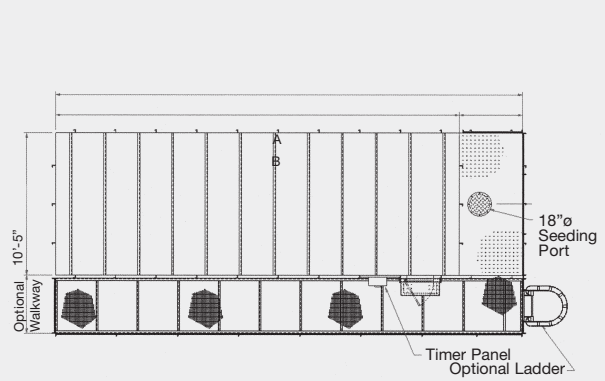
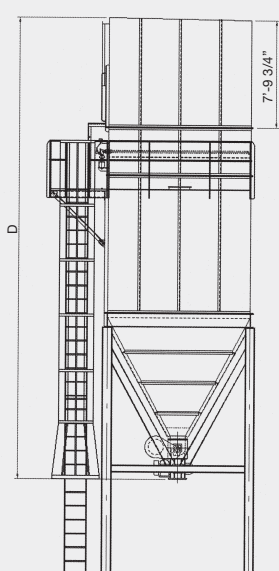
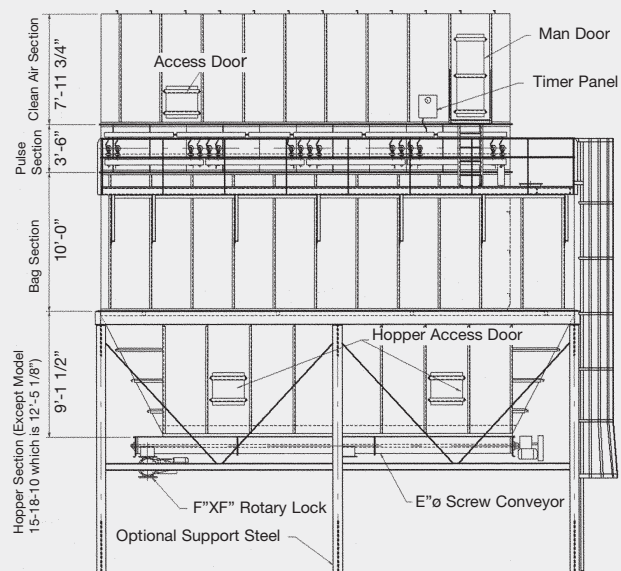
**Processes Include:**

- MELTING
- TRANSPORTING
- GRINDING
- CRUSHING
- SAWING
- CUTTING
- SIZING
- SORTING

**Side View**

**End View**

**Plan View**



Note: Air inlets and outlets are custom designed for your application.



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