

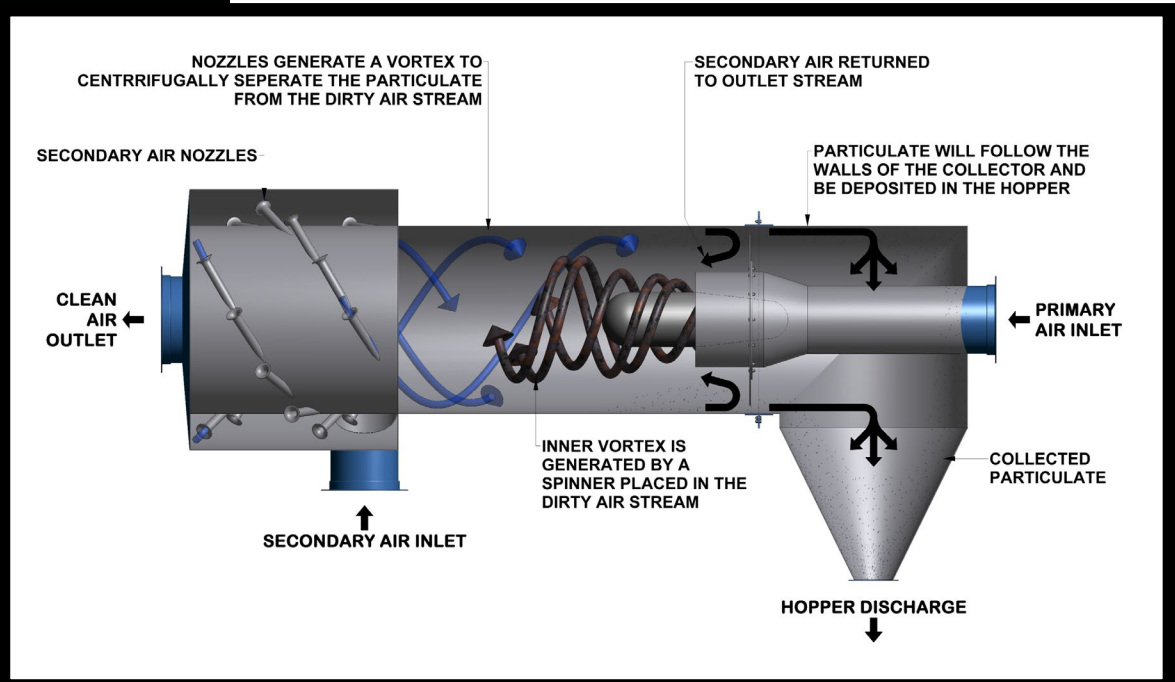


## SplitStream Collector

Unlike traditional cyclones, the SplitStream Collector uses a secondary airstream to capture particulate. The secondary air enters the cyclone near the cyclone exit through nozzles or vanes. The primary air enters the cyclone and proceeds through a stationary spinner that causes the airstream to rotate. This action pushes the particulate outward via centrifugal motion and the secondary airflow before contacting the walls.

## Secondary Air Advantages

1. The secondary airstream keeps the particulate from contacting the cyclone walls. This allows the cyclone to capture very abrasive dust without wearing and capture sticky or hygroscopic particulate without material buildup. It also helps keep the integrity of friable materials.
2. The SplitStream Collector can be designed for vertical, horizontal, or diagonal installation. Since the secondary air conveys the particulate into the hopper, vertical design is not required.
3. The secondary airstream allows the primary airflow to be heated or cooled by the secondary air. It also allows the primary air to be diluted with outside air.
4. Secondary air can be:
  - a. Dirty air – split off from primary source or from another source
  - b. Clean air – outside air (often used for cooling)
  - c. Recycled air – captured in outlet manifold and put through cyclone again



# SplitStream™ Dust Collector

## SplitStream Applications

- Product reclamation
- Air cleaning
- Pre-cleaner for baghouse, cartridge collector, wet scrubber, or ESP
- Pneumatic conveying separator

### Particulates

- Ceramics
- Glass beads
- Fiberglass
- Sand and rock dust
- Wood dust
- Cereal and grain
- Cement dust
- Metals
- Paper
- Food and pet food

### Industries

- Mining & quarries
- Pharmaceutical
- Food processing
- Petro-chemical
- Steel mills
- Metal processing
- Chemical plants
- Animal food manufacturers
- Ceramics
- Machine shop
- Maritime

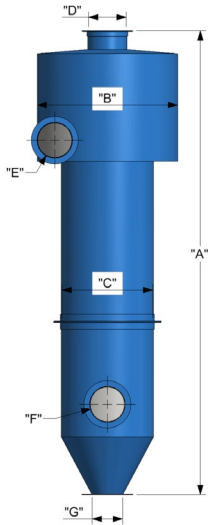
### Options

- Carbon steel, stainless steel, AR steel, fiberglass, special alloys, and coated steel
- Vertical, horizontal or even diagonal configuration
- Access doors and quick connect flanges
- Recycle manifold
- Airlock
- Support steel
- Exhaust fan
- Differential pressure gage, and level switch
- Dampers and ductwork
- Explosion vents
- Connections for chemical suppression

Model	Primary Inlet (ACFM)	Secondary Inlet (ACFM)	Maximum Airflow (ACFM)	Maximum Diameter (inches)	Vertical Config. Height (inches)	Horizontal Config. Length (inches)
<b>SV50</b>	50	34	84	4		27
<b>S400</b>	400	266	667	20	73	73
<b>S600</b>	600	400	1000	24	94	89
<b>S800</b>	800	533	1333	28	110	98
<b>S1000</b>	1000	667	1667	30	124	108
<b>S1500</b>	1500	1000	2500	37	119	108
<b>S2200</b>	2200	1466	3667	43	145	125
<b>S3000</b>	3000	2000	5000	43	166	142
<b>S3700</b>	3700	2470	6170	51	183	156
<b>S4500</b>	4500	3000	7500	55	200	174
<b>S6000</b>	6000	4000	10000	64	228	198
<b>S7500</b>	7500	5000	12500	70	257	226
<b>S10000</b>	10000	6667	16667	82	298	260
<b>S12500</b>	12500	8333	20833	92	338	294
<b>S15000</b>	15000	10000	25000	101	367	310
<b>S18000</b>	18000	12000	30000	111	399	313
<b>S22000</b>	22000	14667	36667	111		

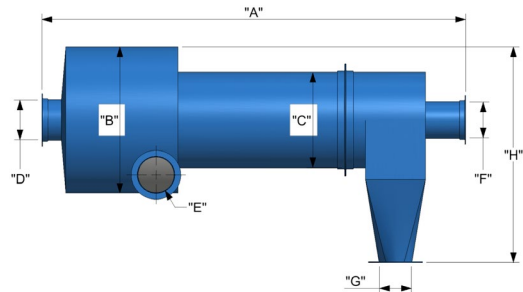
### VERTICAL SPLITSTREAM COLLECTORS

Collector Model	Approx. Dimensions (Inch)						
	A	B (OD)	C (ID)	D (ID)	E (ID)	F (ID)	G (ID)
<b>400</b>	64.25	20	12	6.5	4.35	4.35	8
<b>600</b>	84.75	24	16	8.25	4.79	4.79	8
<b>800</b>	99.875	27.5	18	8.75	6	6	8
<b>1000</b>	114	30	20	10	7	7	8
<b>1500</b>	110.75	37	24	10	9	9	8
<b>2200</b>	134.875	43	27.5	12.5	10	10	8
<b>3000</b>	155.5	47	31.5	14	12	12	8
<b>3700</b>	173	51	35	16	14	14	8
<b>4500</b>	190.125	55	39.375	18	14	14	8
<b>6000</b>	218	64	45	21	16	16	8
<b>7500</b>	247	70	51.75	23.5	18	18	8
<b>10000</b>	288	82	60	27	21	21	10
<b>12500</b>	327.5	92	68	30	23.5	23.5	10
<b>15000</b>	357	101	74	33	25.5	25.5	12
<b>18000</b>	402.75	110.5	78.75	35.5	28	28	12
<b>22000</b>	404.75	113.25	78.75	38.5	31	31	12



### HORIZONTAL SPLITSTREAM COLLECTORS

Collector Model	Approx. Dimensions (Inch)							
	A	B (OD)	C (ID)	D (ID)	E (ID)	F (ID)	G (ID)	H
<b>400</b>	67.25	20	12	6.5	4.35	4.35	8	25
<b>600</b>	80.75	24	16	8.25	4.79	4.79	8	32
<b>800</b>	87.125	27.5	18	8.75	6	6	8	38.75
<b>1000</b>	97	30	20	10	7	7	8	45
<b>1500</b>	95.75	37	24	10	9	9	8	54.5
<b>2200</b>	108.875	43	27.5	12.5	10	10	8	63.5
<b>3000</b>	125.5	47	31.5	14	12	12	8	71.5
<b>3700</b>	136.125	51	35	16	14	14	8	79.5
<b>4500</b>	156.125	55	39.375	18	14	14	8	87.5
<b>6000</b>	174.5	64	45	21	16	16	8	104
<b>7500</b>	201	70	51.75	23.5	18	18	8	107
<b>10000</b>	231	82	60	27	21	21	10	117
<b>12500</b>	261.5	92	68	30	23.5	23.5	10	126
<b>15000</b>	281	101	74	33	25.5	25.5	12	134.5
<b>18000</b>	299.25	110.5	78.75	35.5	28	28	12	151.25
<b>22000</b>	307.25	113.25	78.75	38.5	31	31	12	158.625



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