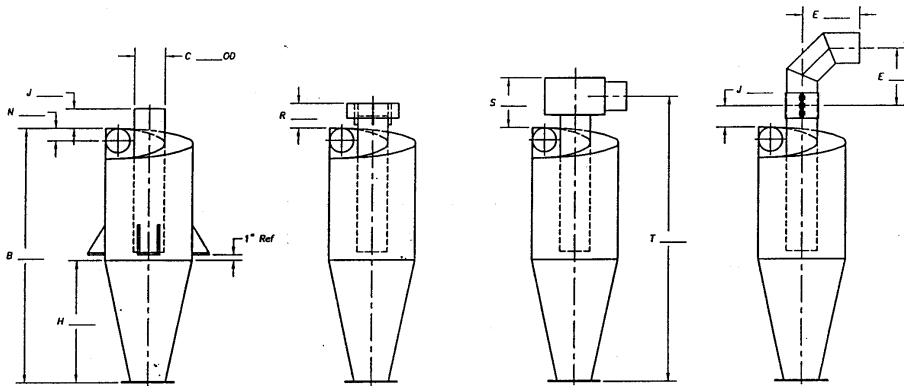
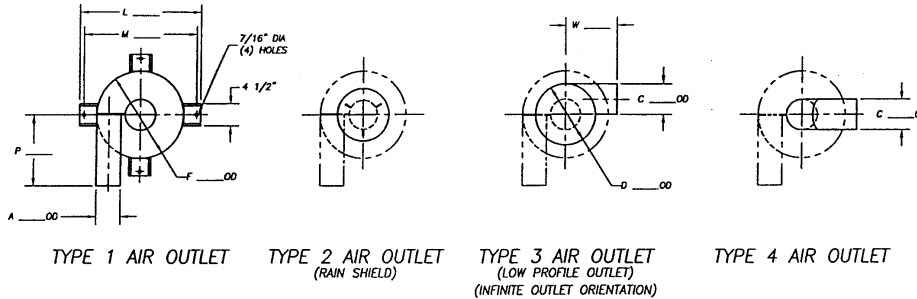
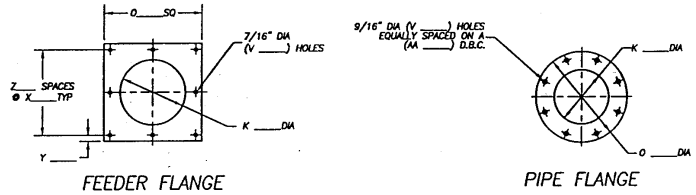


8 – CYCLONES/CYCLONETTES

Smoot Co.™ Cyclone Separators (page 1 of 2)

PRODUCT FEATURES – SMOOT CO.™ CYCLONE SEPARATORS

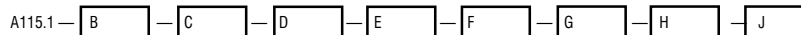
- High efficiency design for maximum material/air separation
- Bottom flanged to Smoot Rotary AirLock Feeder or ANSI pipe
- Constructed of aluminum, carbon steel or 304 stainless steel



NOTES

- Left Hand Cyclone Entry shown is standard. Right Hand Entry is available.
- If Support Lugs are required, specify orientation if other than shown.

Smoot Co.™ Cyclone Separator Nomenclature



See tables on next page for Model Dash No. "B" and Model Dash No. "C"

| MODEL DASH NO. "D" | INLET ORIENTATION |
|------------------------|-------------------|
| D1 | Left Hand |
| D2 | Right Hand |
| L.H. Orientation Shown | |

| MODEL DASH NO. "E" | AIR OUTLET TYPE |
|--------------------|-----------------|
| E1 | Type 1 |
| E2 | Type 2 |
| E3 | Type 3 |
| E4 | Type 4 |

| MODEL DASH NO. "F" | MATERIAL OF CONSTRUCTION |
|--------------------|--------------------------|
| F1 | Carbon Steel |
| F2 | 304 SS |
| F3 | Aluminum |

| MODEL DASH NO. "G" | MATERIAL GRADE | MIN. CYCLONE SIZE that can be constructed of specified material |
|--------------------|----------------|---|
| G1 | 14 ga. | Size No. 1 |
| G2 | 12 ga. | Size No. 1 |
| G3 | 10 ga. | Size No. 6 |
| G4 | 1/4" | Size No. 8 |

| MODEL DASH NO. "H" | SUPPORT LUGS OPTIONS |
|--|----------------------|
| H1 | Support Lugs |
| H2 | No Support Lugs |
| Specify orientation if other than shown. | |

| MODEL DASH NO. "J" | ADDITIONAL OPTIONS |
|--------------------|--------------------------------|
| J1 | Discharge Flange Shipped Loose |

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8 – CYCLONES/CYCLONETTES

Smoot Co.™ Cyclone Separators (page 2 of 2)

| MODEL DASH NO. "B" | DIMENSIONS (Inches) | | | | | | | | | | | | | | | | |
|--------------------|---------------------|--------|--------|--------|--------|----------|--------|----|-------|--------|--------|---------|---------|-------|--------|---------|---------|
| | SIZE NO. | A od | B | C od | D od | E | F od | H | J | L | M | N | P | R | S | T | W |
| B1P | 1 | 1-1/2 | 25-1/2 | 2 | 5 | 4-5/8 | 6-5/8 | 12 | 3-1/2 | 14-5/8 | 12-5/8 | 1 | 7-3/4 | 2-3/4 | 6-1/2 | 29-7/8 | 6-7/16 |
| B2T | 2 | 2 | 28 | 2-3/8 | 5-9/16 | 5-3/16 | 8 | 12 | 3-1/2 | 16 | 14 | 1-5/16 | 8-13/16 | 3 | 6-7/8 | 32-9/16 | 6-11/16 |
| B2P | 3 | 2-3/8 | 30 | 3 | 6 | 5-1/4 | 10 | 12 | 3-1/2 | 18 | 16 | 1-9/16 | 9-1/2 | 3-1/4 | 7-3/8 | 34-7/8 | 7 |
| B3T | 4 | 3 | 33 | 3-1/2 | 6-5/8 | 6-1/4 | 11 | 12 | 3-1/2 | 19 | 17 | 1-15/16 | 10-7/8 | 3-1/2 | 8 | 38-1/8 | 7-5/16 |
| B3P | 5 | 3-1/2 | 38 | 4 | 8 | 6-3/8 | 12-3/4 | 15 | 3-1/2 | 20-3/4 | 18-3/4 | 2-3/8 | 11-3/4 | 3-3/4 | 9-3/8 | 43-3/8 | 8 |
| B4T | 6 | 4 | 44 | 5 | 8-5/8 | 8-5/16 | 14 | 20 | 3-1/2 | 22 | 20 | 2-9/16 | 12-1/2 | 4 | 9 | 49-7/8 | 9-5/16 |
| B4P | 7 | 4-1/2 | 45 | 5-9/16 | 12 | 8-7/16 | 16 | 20 | 4-1/2 | 24 | 22 | 2-7/8 | 14 | 4-1/2 | 10-1/8 | 51-3/16 | 11 |
| B5T | 8 | 5 | 51-1/2 | 6 | 14 | 9-7/16 | 18 | 24 | 4-1/2 | 26 | 24 | 2-13/16 | 15-1/8 | 5 | 11-1/8 | 58-3/16 | 12 |
| B5P | 9 | 5-9/16 | 58-1/2 | 6-5/8 | 14 | 9-9/16 | 20 | 28 | 4-1/2 | 28 | 26 | 3-1/2 | 16-1/4 | 5 | 11-1/8 | 65-3/16 | 12 |
| B6T | 10 | 6 | 65 | 8 | 16 | 11-1/2 | 21-1/2 | 32 | 4-1/2 | 29-1/2 | 27-1/2 | 3-3/4 | 17-1/4 | 5-3/4 | 12-1/2 | 72-3/8 | 14 |
| B6P | 11 | 6-5/8 | 70 | 8 | 16 | 11-5/8 | 22-1/2 | 34 | 4-1/2 | 30-1/2 | 28-1/2 | 4-1/4 | 18-1/2 | 5-3/4 | 12-1/2 | 77-3/8 | 14 |
| B8T | 13 | 8 | 91 | 10 | 20 | 13-11/16 | 28 | 47 | 4-1/2 | 36 | 34 | 5 | 21-1/2 | 6-3/4 | 14-1/2 | 99-3/8 | 16 |
| B8P | 14 | 8-5/8 | 100 | 10-3/4 | 21-1/2 | 13-13/16 | 30 | 52 | 5-1/2 | 38 | 36 | 5-3/8 | 24-1/8 | 7-1/8 | 15-1/4 | 108-3/4 | 16-3/4 |
| B10T | 16 | 10 | 115 | 12 | 25-1/2 | 16-7/8 | 35-1/2 | 60 | 5-1/2 | 43-1/2 | 41-1/2 | 6-3/16 | 26-3/4 | 8-1/8 | 17-1/4 | 124-3/4 | 20-3/4 |
| B10P | 17 | 10-3/4 | 125 | 12-3/4 | 25-1/2 | 17 | 38 | 65 | 5-1/2 | 46 | 44 | 6-11/16 | 28-1/2 | 8-1/8 | 17-1/4 | 134-3/4 | 20-3/4 |
| B12T | 18 | 12 | 140 | 14 | 28 | 19 | 41-1/2 | 74 | 6-1/2 | 49-1/2 | 47-1/2 | 7-7/16 | 32 | 8-3/4 | 18-1/2 | 150-3/8 | 22 |
| B12P | 19 | 12-3/4 | 145 | 16 | 32 | 19-3/16 | 43 | 75 | 6-1/2 | 51 | 49 | 7-15/16 | 33-1/2 | 9-3/4 | 20-5/8 | 156-3/8 | 24 |

PRODUCT DISCHARGE OUTLET OPTIONS NOTES:

In the Model Dash No. column, "P" refers to PIPE and "T" refers to TUBE.

In the Inlet Line Size O.D. column, TUBE sizes will be 12 gauge and PIPE sizes will be Schedule 40 unless otherwise specified.

| FEEDER FLANGE | | | | | | | |
|--------------------|--------------------|--------------------|-------|----|-------|-------|---|
| MODEL DASH NO. "C" | Feeder Flange Size | NOMINAL DIMENSIONS | | | | | |
| | | K dia | O sq. | V | X | Y | Z |
| C9 | FT7 | 6 | 11 | 8 | 4-3/4 | 3/4 | 2 |
| C10 | FT9 | 8 | 12 | 8 | 5-1/4 | 3/4 | 2 |
| C11 | FT11 | 9 | 13 | 8 | 5-3/4 | 3/4 | 2 |
| C12 | FT12 | 10 | 15 | 8 | 6-1/2 | 1 | 2 |
| C13 | FT14 | 12 | 17 | 12 | 5-1/4 | 5/8 | 3 |
| C14 | FT16 | 13 | 18 | 12 | 5-1/2 | 3/4 | 3 |
| C15 | FT18 | 15 | 20 | 12 | 6 | 1 | 3 |
| C16 | FT22 | 16 | 22 | 16 | 5 | 1 | 4 |
| C17 | FT30 | 23 | 31 | 16 | 7 | 1-1/2 | 4 |

| PIPE FLANGE | | | | | |
|--------------------|--------------------|--------------------|--------|----|--------|
| MODEL DASH NO. "C" | ANSI Pipe Flg Size | NOMINAL DIMENSIONS | | | |
| | | K dia | O sq. | V | AA |
| C1 | 4 | 4 | 9 | 8 | 7-1/2 |
| C2 | 5 | 5 | 10 | 8 | 8-1/2 |
| C3 | 6 | 6 | 11 | 8 | 9-1/2 |
| C4 | 8 | 8 | 13-1/2 | 8 | 11-3/4 |
| C5 | 10 | 10 | 16 | 12 | 14-1/4 |
| C6 | 12 | 12 | 19 | 12 | 17 |
| C7 | 14 | 14 | 21 | 12 | 18-3/4 |
| C8 | 16 | 16 | 23-1/2 | 16 | 21-1/4 |

| PRODUCT DISCHARGE OPTIONS OFFERED | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----------|----------------------|------------------|------|------|------|-------|-------|-------|-------|---------------------|---------|----------|----------|----------|----------|----------|----------|-------------------|----------|
| MODEL DASH NO. B,C | SIZE NO. | INLET LINE SIZE O.D. | ANSI PIPE FLANGE | | | | | | | | AIRLOCK FEEDER SIZE | | | | | | | | EST. EMPTY WEIGHT | |
| | | | C1 4 | C2 5 | C3 6 | C4 8 | C5 10 | C6 12 | C7 14 | C8 16 | C9 FT7 | C10 FT9 | C11 FT11 | C12 FT12 | C13 FT14 | C14 FT16 | C15 FR18 | C16 FT22 | | C17 FT30 |
| B1T | 1 | 1-1/2 | • | • | • | | | | | | | | | | | | | | | 125 |
| B2T | 2 | 2 | • | • | • | • | | | | | | | | | | | | | | 177 |
| B2P | 3 | 2-3/8 | | • | • | • | | | | | | | | | | | | | | 239 |
| B3T | 4 | 3 | | | • | • | • | | | | | | | | | | | | | 291 |
| B3P | 5 | 3-1/2 | | | • | • | • | • | | | | | | | | | | | | 372 |
| B4T | 6 | 4 | | | • | • | • | • | • | | | | | | | | | | | 424 |
| B4P | 7 | 4-1/2 | | | | • | • | • | • | | | | | | | | | | | 517 |
| B5T | 8 | 5 | | | | • | • | • | • | | | | | | | | | | | 583 |
| B5P | 9 | 5-9/16 | | | | • | • | • | • | • | | | | | | | | | | 710 |
| B6T | 10 | 6 | | | | • | • | • | • | • | | | | | | | | | | 751 |
| B6P | 11 | 6-5/8 | | | | • | • | • | • | • | | | | | | | | | | 827 |
| B8T | 13 | 8 | | | | • | • | • | • | • | | | | | | | | | | 1148 |
| B8P | 14 | 8-5/8 | | | | • | • | • | • | • | | | | | | | | | | 1338 |
| B10T | 16 | 10 | | | | • | • | • | • | • | | | | | | | | | | 1605 |
| B10P | 17 | 10-3/4 | | | | • | • | • | • | • | | | | | | | | | | 1891 |
| B12T | 18 | 12 | | | | • | • | • | • | • | | | | | | | | | | 2084 |
| B12P | 19 | 12-3/4 | | | | • | • | • | • | • | | | | | | | | | | 2386 |

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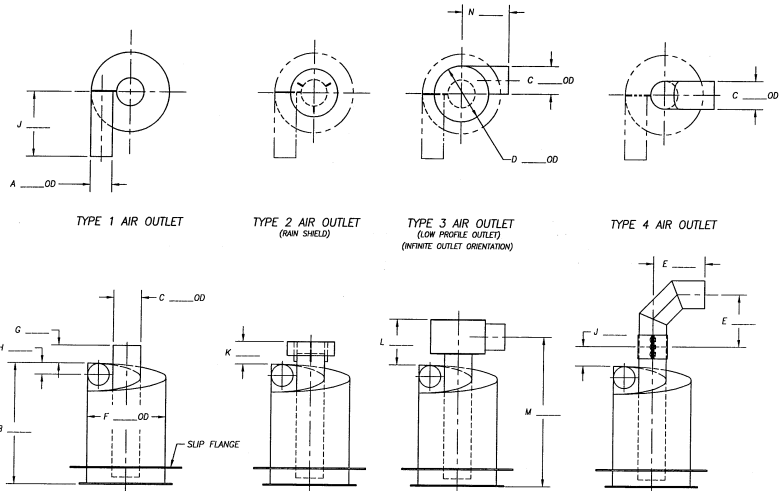
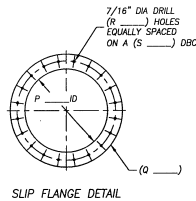
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8 – CYCLONES/CYCLONETTES

Smoot Co.™ Cyclonette Separator

PRODUCT FEATURES – SMOOT CO.™ CYCLONETTE SEPARATOR

- High efficiency design for maximum material/air separation
- Constructed of aluminum, carbon steel or 304 stainless steel



| MODEL DASH NO. "B" | DIMENSIONS (Inches) | | | | | | | | | | | | | | EST. EMPTY WEIGHT |
|--------------------|---------------------|--------|--------|--------|--------|----------|--------|-------|---------|---------|--------|---------|----------|---------|-------------------|
| | SIZE NO. | A od | B | C od | D od | E | F od | G | H | J | K | L | M | N | |
| B1P | 1 | 1-1/2 | 13-1/2 | 2 | 5 | 5-3/16 | 6-5/8 | 3-1/2 | 1 | 7-3/4 | 2-7/8 | 6-5/8 | 17-7/8 | 6-7/16 | 72 |
| B2T | 2 | 2 | 16 | 2-3/8 | 5-9/16 | 5-1/4 | 8 | 3-1/2 | 1-5/16 | 8-13/16 | 3-1/8 | 7 | 20-9/16 | 6-11/16 | 122 |
| B2P | 3 | 2-3/8 | 18 | 3 | 6 | 6-1/4 | 10 | 3-1/2 | 1-9/16 | 9-1/2 | 3-3/8 | 7-5/8 | 22-7/8 | 7 | 180 |
| B3T | 4 | 3 | 21 | 3-1/2 | 6-5/8 | 6-3/8 | 11 | 3-1/2 | 1-15/16 | 10-7/8 | 3-5/8 | 8-1/8 | 26-1/8 | 7-5/16 | 230 |
| B3P | 5 | 3-1/2 | 23 | 4 | 8 | 8-5/16 | 12-3/4 | 3-1/2 | 2-3/8 | 11-3/4 | 3-7/8 | 8-5/8 | 28-3/8 | 8 | 300 |
| B4T | 6 | 4 | 24 | 5 | 8-5/8 | 9-7/16 | 14 | 3-1/2 | 2-9/16 | 12-1/2 | 4-1/8 | 9-5/8 | 29-7/8 | 9-5/16 | 340 |
| B4P | 7 | 4-1/2 | 25 | 5-9/16 | 12 | 9-9/16 | 16 | 4-1/2 | 2-7/8 | 14 | 4-5/8 | 10-3/16 | 31-3/16 | 11 | 423 |
| B5T | 8 | 5 | 27-1/2 | 6 | 14 | 11-1/2 | 18 | 4-1/2 | 2-13/16 | 15-1/8 | 5-5/8 | 11-3/4 | 34-11/16 | 12 | 466 |
| B5P | 9 | 5-9/16 | 30-1/2 | 6-5/8 | 14 | 11-5/8 | 20 | 4-1/2 | 3-1/2 | 16-1/4 | 5-5/8 | 11-3/4 | 37-11/16 | 12 | 580 |
| B6T | 10 | 6 | 33 | 8 | 16 | 13-11/16 | 21-1/2 | 4-1/2 | 3-3/4 | 17-1/4 | 6-3/8 | 13-1/8 | 40-7/8 | 14 | 600 |
| B6P | 11 | 6-5/8 | 36 | 8 | 16 | 13-11/16 | 22-1/2 | 4-1/2 | 4-1/4 | 18-1/2 | 6-3/8 | 13-1/8 | 43-7/8 | 14 | 665 |
| B8T | 13 | 8 | 44 | 10 | 20 | 16-7/8 | 28 | 4-1/2 | 5 | 21-1/2 | 7-3/8 | 15-1/8 | 52-7/8 | 16 | 912 |
| B8P | 14 | 8-5/8 | 48 | 10-3/4 | 21-1/2 | 17 | 30 | 5-1/2 | 5-3/8 | 24-1/8 | 7-3/4 | 15-7/8 | 57-1/4 | 16-3/4 | 1070 |
| B10T | 16 | 10 | 55 | 12 | 25-1/2 | 19 | 35-1/2 | 5-1/2 | 6-3/16 | 26-3/4 | 8-3/4 | 17-7/8 | 65-1/4 | 20-3/4 | 1250 |
| B10P | 17 | 10-3/4 | 60 | 12-3/4 | 25-1/2 | 19-3/16 | 38 | 5-1/2 | 6-11/16 | 28-1/2 | 8-3/4 | 17-7/8 | 70-1/4 | 20-3/4 | 1500 |
| B12T | 18 | 12 | 66 | 14 | 28 | 21-3/16 | 41-1/2 | 6-1/2 | 7-7/16 | 32 | 9-3/8 | 19-1/8 | 76-7/8 | 22 | 1615 |
| B12P | 19 | 12-3/4 | 70 | 16 | 32 | 23-3/8 | 43 | 6-1/2 | 7-15/16 | 33-1/2 | 10-3/8 | 21-1/8 | 81-7/8 | 24 | 1895 |

| MODEL DASH NO. "B" | MOUNTING FLANGE DIMENSIONS (Inches) | | | | | | | | | | | | | | | | |
|--------------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | B1P | B2T | B2P | B3T | B3P | B4T | B4P | B5T | B5P | B6T | B6P | B8T | B8P | B10T | B10P | B12T | B12P |
| Size # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 13 | 14 | 16 | 17 | 18 | 19 |
| P ID | 6-5/8 | 8 | 10 | 11 | 12-3/4 | 14 | 16 | 18 | 20 | 21-1/2 | 22-1/2 | 28 | 30 | 35-1/2 | 38 | 41-1/2 | 43 |
| Q OD | 11-1/8 | 12-1/2 | 14-1/2 | 15-1/2 | 17-1/4 | 20-3/4 | 22-3/4 | 24-3/4 | 26-3/4 | 28-1/8 | 29-1/4 | 34-3/4 | 36-3/4 | 42-1/4 | 44-3/4 | 48-1/4 | 49-3/4 |
| R | 8 | 8 | 12 | 12 | 12 | 12 | 16 | 16 | 16 | 20 | 20 | 24 | 24 | 32 | 32 | 36 | 36 |
| S | 10-1/8 | 11-1/2 | 13-1/2 | 14-1/2 | 16-1/4 | 20 | 22 | 24 | 26 | 27-1/2 | 28-1/2 | 34 | 36 | 41-1/2 | 44 | 47-1/2 | 49 |

Smoot Co.™ Cyclonette Separator Nomenclature

A1152 — B — C — D — E — F

| MODEL DASH NO. "C" | INLET ORIENTATION |
|------------------------|-------------------|
| C1 | Left Hand |
| C2 | Right Hand |
| L.H. Orientation Shown | |

| MODEL DASH NO. "D" | AIR OUTLET TYPE |
|--------------------|-----------------|
| D1 | Type 1 |
| D2 | Type 2 |
| D3 | Type 3 |
| D4 | Type 4 |

| MODEL DASH NO. "E" | MATERIAL OF CONSTRUCTION |
|--------------------|--------------------------|
| E1 | Carbon Steel |
| E2 | 304 SS |
| E3 | Aluminum |

| MODEL DASH NO. "F" | MATERIAL GRADE | MIN. CYCLONE SIZE that can be constructed of specified material |
|--------------------|----------------|---|
| F1 | 14 ga. | Size No. 1 |
| F2 | 12 ga. | Size No. 1 |
| F3 | 10 ga. | Size No. 6 |
| F4 | 1/4" | Size No. 8 |

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