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LEGEND SERIES



Sutorbilt Legend

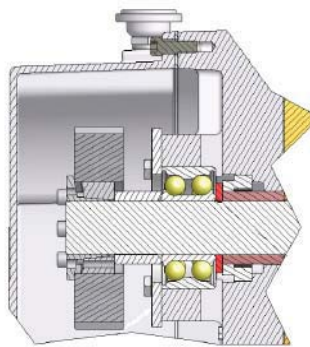
Features

- Cylinder is machined from a single piece of cast iron, is heavily ribbed for high-strength and features oversized dowel pins for precise mounting and alignment of head plates.
- Head plates, machined from cast iron, are ground on the interior surface to precise operating tolerances. Bearing fits are machined into head plates to assure exact bearing positioning.
- Impellers are machined from cast iron to an exact profile and are permanently fastened to steel shafts. They are dynamically balanced for smooth operation.
- Precision machined alloy steel timing gears are securely fastened to the shafts assuring non-slip timing.
- Timing gears and gear end bearings are splash lubricated utilizing an abundant oil reservoir. Drive end bearings are either grease lubricated through fittings or splash lubricated.
- High temperature Viton® oil seals provide leak free operation.
- Each Sutorbilt Legend is manufactured in a state of the art ISO 9001 certified facility in Sedalia, Missouri, individually tested to meet rigorous performance specifications.



Engineered Air Gap

The air gap between the lubricant sump and the impeller cylinder reduces temperatures up to 15° F extending lubricant, bearing and blower life.



Bearings & Viton® Seals



Gear Locking Rings

Timing gears are mounted with Grip Rings which expand against the bore and compress on the shaft for a secure, mechanical shrink fit with a 6.0 safety factor.

MECHANICAL SEALS FOR GAS SERVICE AVAILABLE

UNIMAC**LEGEND SERIES****LOW PRESSURE**

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|-------|----------|-----|----|--------------|-------------|-------------|--------------|------------|
| 2L | 2" NPT | 7 | 14 | 55 to 168 | 0.7 to 6.1 | 0.035 | 1945 to 5275 | 62 lbs. |
| 3L | 2.5" NPT | 7 | 14 | 108 to 350 | 1.1 to 12.4 | 0.104 | 1528 to 3600 | 108 lbs. |
| 4L | 3" NPT | 7 | 14 | 197 to 579 | 1.6 to 20.3 | 0.17 | 1337 to 3600 | 155 lbs. |
| 5L | 4" NPT | 7 | 14 | 388 to 953 | 2.6 to 33.1 | 0.35 | 1070 to 2850 | 255 lbs. |
| 6L | 6" FLG | 7 | 14 | 615 to 1614 | 4.1 to 56 | 0.718 | 891 to 2350 | 505 lbs. |
| 7L | 8" FLG | 6 | 12 | 1121 to 2368 | 6.5 to 70 | 1.2 | 764 to 2050 | 705 lbs. |
| 8L | 10" FLG | 6 | 12 | 1366 to 3012 | 7.1 to 89.1 | 1.74 | 880 to 1800 | 1,145 lbs. |

MEDIUM PRESSURE

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|-------|----------|-----|----|-------------|--------------|-------------|--------------|----------|
| 2M | 1" NPT | 12 | 15 | 22 to 73 | 0.8 to 5.1 | 0.017 | 1945 to 5275 | 55 lbs. |
| 3M | 2" NPT | 12 | 15 | 57 to 186 | 1.6 to 12.3 | 0.06 | 1528 to 3600 | 88 lbs. |
| 4M | 2.5" NPT | 10 | 16 | 132 to 376 | 3.0 to 20 | 0.117 | 1337 to 3600 | 125 lbs. |
| 5M | 4" NPT | 13 | 16 | 209 to 542 | 4.5 to 36.9 | 0.21 | 1070 to 2850 | 215 lbs. |
| 6M | 5" NPT | 14 | 16 | 267 to 815 | 6.3 to 59.7 | 0.383 | 891 to 2350 | 330 lbs. |
| 7M | 6" FLG | 10 | 16 | 601 to 1383 | 12 to 71.2 | 0.733 | 764 to 2050 | 600 lbs. |
| 8M | 8" FLG | 10 | 16 | 709 to 1722 | 12.8 to 88.7 | 1.04 | 880 to 1800 | 885 lbs. |

HIGH PRESSURE

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|-------|-----------|-----|----|------------|-------------|-------------|--------------|----------|
| 3H | 1.25" NPT | 15 | 16 | 40 to 138 | 1.1 to 11.5 | 0.045 | 1528 to 3600 | 82 lbs. |
| 4H | 1.5" NPT | 15 | 16 | 72 to 218 | 1.7 to 17.7 | 0.069 | 1337 to 3600 | 110 lbs. |
| 5H | 2.5" NPT | 15 | 16 | 134 to 359 | 2.9 to 28.4 | 0.14 | 1070 to 2850 | 196 lbs. |
| 6H | 3" NPT | 15 | 16 | 152 to 477 | 3.7 to 37.9 | 0.227 | 891 to 2350 | 305 lbs. |
| 7H | 4" NPT | 15 | 16 | 278 to 682 | 6 to 53.5 | 0.367 | 764 to 2050 | 405 lbs. |
| 8H | 4" NPT | 15 | 16 | 363 to 921 | 7 to 72.4 | 0.566 | 880 to 1800 | 708 lbs. |

MECHANICAL SEALS FOR GAS SERVICE AVAILABLE

Warranty – **24 months** from the date of shipment or – **18 months** from the date of installation, whichever occurs first.



Dual Splash Lubrication (DSL) Series blowers include all of the features of the Legend blowers with reliable splash lubrication on both the gear and drive ends. One piece slingers are securely clamped on both shafts to ensure efficient lubrication. Sump capacity is increased as much as 30% on drive end and 62% on gear end over leading competition.

| LOW PRESSURE | | | | | | | | |
|--------------|----------|-----|----|-------------|-------------|-------------|--------------|----------|
| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
| 3L-DSL | 2.5" NPT | 7 | 14 | 108 to 350 | 1.1 to 12.4 | 0.104 | 1528 to 3600 | 95 lbs. |
| 4L-DSL | 3" NPT | 7 | 14 | 197 to 579 | 1.6 to 20.3 | 0.17 | 1337 to 3600 | 142 lbs. |
| 5L-DSL | 4" NPT | 7 | 14 | 388 to 953 | 2.6 to 33.1 | 0.35 | 1070 to 2850 | 255 lbs. |
| 6L-DSL | 6" FLG | 7 | 14 | 615 to 1614 | 4.1 to 56 | 0.718 | 891 to 2350 | 550 lbs. |

| MEDIUM PRESSURE | | | | | | | | |
|-----------------|----------|-----|----|------------|-------------|-------------|--------------|----------|
| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
| 3M-DSL | 2" NPT | 12 | 15 | 57 to 186 | 1.6 to 12.3 | 0.06 | 1528 to 3600 | 79 lbs. |
| 4M-DSL | 2.5" NPT | 10 | 16 | 132 to 376 | 3.0 to 20 | 0.117 | 1337 to 3600 | 117 lbs. |
| 5M-DSL | 4" NPT | 13 | 16 | 209 to 542 | 4.5 to 36.9 | 0.21 | 1070 to 2850 | 215 lbs. |
| 6M-DSL | 5" NPT | 14 | 16 | 267 to 815 | 6.3 to 59.7 | 0.383 | 891 to 2350 | 377 lbs. |

| HIGH PRESSURE | | | | | | | | |
|---------------|-----------|-----|----|------------|-------------|-------------|--------------|----------|
| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
| 3H-DSL | 1.25" NPT | 15 | 16 | 40 to 138 | 1.1 to 11.5 | 0.045 | 1528 to 3600 | 71 lbs. |
| 4H-DSL | 1.5" NPT | 15 | 16 | 72 to 218 | 1.7 to 17.7 | 0.069 | 1337 to 3600 | 98 lbs. |
| 5H-DSL | 2.5" NPT | 15 | 16 | 134 to 359 | 2.9 to 28.4 | 0.14 | 1070 to 2850 | 196 lbs. |
| 6H-DSL | 3" NPT | 15 | 16 | 152 to 477 | 3.7 to 37.9 | 0.227 | 891 to 2350 | 330 lbs. |

MECHANICAL SEALS FOR GAS SERVICE AVAILABLE

Warranty – **30 months** from the date of shipment or – **24 months** from the date of installation, whichever occurs first.

UNIMAC



DUROFLOW



DUROFLOW

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|---------|----------|-----|----|--------------|---------------|-------------|--------------|------------|
| 3004-VT | 2.5" NPT | 15 | 15 | 94 to 151 | 1.3 to 12.3 | 0.045 | 2950 to 4000 | 120 lbs. |
| 3006-VT | 3" NPT | 15 | 15 | 146 to 231 | 1.9 to 18.3 | 0.068 | 2950 to 4000 | 135 lbs. |
| 4504-VT | * | 15 | 16 | 137 to 403 | 2 to 33.1 | 0.112 | 1750 to 4000 | 235 lbs. |
| 4506-VT | * | 15 | 16 | 214 to 611 | 2.9 to 48.5 | 0.168 | 1750 to 4000 | 260 lbs. |
| 4509-VT | * | 15 | 16 | 324 to 919 | 4.4 to 74.1 | 0.252 | 1750 to 4000 | 290 lbs. |
| 4512-VT | * | 15 | 16 | 454 to 1243 | 5.7 to 97.1 | 0.336 | 1750 to 4000 | 335 lbs. |
| 4518-VT | 8" FLG | 15 | 16 | 696 to 1875 | 8.3 to 98.5 | 0.504 | 1750 to 4000 | 470 lbs. |
| 7009-VT | 6" NPT | 15 | 16 | 622 to 1365 | 7.9 to 104.3 | 0.59 | 1500 to 2650 | 820 lbs. |
| 7012-VT | 8" FLG | 15 | 16 | 853 to 1844 | 10.5 to 138.9 | 0.79 | 1500 to 2650 | 920 lbs. |
| 7015-VT | 8" FLG | 15 | 16 | 1088 to 2309 | 13 to 171.8 | 0.98 | 1500 to 2650 | 1,000 lbs. |
| 7018-VT | 10" FLG | 15 | 16 | 1322 to 2789 | 15.5 to 206.5 | 1.18 | 1500 to 2650 | 1,080 lbs. |
| 7023-VT | 12" FLG | 12 | 16 | 1709 to 3508 | 21.8 to 217.7 | 1.51 | 1500 to 2650 | 1,160 lbs. |
| 7028-VT | 12" FLG | 10 | 16 | 2094 to 4282 | 26.9 to 225.9 | 1.84 | 1500 to 2600 | 1,260 lbs. |

* Flange Adapters required for new installations



DUROFLOW FEATURES

1. Heavy-duty reinforced single piece cast iron cylinder
2. Solid rotor profile precision machined with advanced CNC technology
3. Innovative rotor tip increases blower efficiency
4. Advanced piston ring and flinger oil and air seal design for leak free operation
5. Oversized drive end double-row ball bearings
6. Helical timing gears, precision machined from alloy steel forging & spline mounted
7. Dual sump reliable splash lubrication

FLANGE ADAPTERS

| Model | In/Out | WGT |
|---------|--------|---------|
| 4504-VT | 4" NPT | 8 lbs. |
| 4506-VT | 4" NPT | 6 lbs. |
| 4509-VT | 4" NPT | 8 lbs. |
| 4509-VT | 5" NPT | 10 lbs. |
| 4512-VT | 6" NPT | 12 lbs. |

Warranty – **18 months** from the date of shipment or – **12 months** from the date of installation, whichever occurs first.

UNIMAC



HELIFLOW



HELIFLOW

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|--------|---------|-----|----|-------------|-------------|-------------|--------------|-----------|
| HF 406 | 3" NPT | 15 | 16 | 147 to 399 | 4.2 to 35 | .117 | 1528 to 3600 | 173 lbs. |
| HF 408 | 4" NPT | 12 | 16 | 223 to 592 | 6.3 to 40 | .17 | 1337 to 3600 | 201 lbs. |
| HF 616 | 8" FLG | 15 | 16 | 444 to 2111 | 15.8 to 162 | .68 | 1000 to 3300 | 866 lbs. |
| HF 624 | 10" FLG | 12 | 16 | 657 to 3218 | 23.2 to 197 | 1.019 | 1000 to 3300 | 1144 lbs. |

LOW NOISE

Discharge pulsation is the chief contributor to high noise levels. HeliFlow provides the lowest pressure pulse which reduces noise levels by 4–7 dba over similar sized, straight-lobe blowers.

REDUCED PULSATION

HeliFlow provides more consistent flow variation, reducing the potential for damage to downstream valves and instrumentation.

HIGHER RELIABILITY

Discharge pressure pulsation causes axial thrust and higher variations in torque resulting in reduced bearing life. The HeliFlow smooth pulse operation extends the life of the blower.

STATE OF THE ART DESIGN

Helical "twisted" lobes combined with the unique triangular tuned inlet and outlet ports produce lower pulse characteristics. As a result, users can expect quieter performance with the added assurance of extended blower life. The noise reduction is a staggering 4-7 dba over similar sized straight lobe blowers.

SUPERIOR RELIABILITY

Oversized spherical roller bearings and a larger diameter shaft combine to give the HF-616 & 624 the highest overhung load capacity in its class, a monstrous 13,500 in-lbs, the closest competitor is 7,975 in-lbs!

Solid, high strength ductile iron rotors, balanced to ISO Grade 6.3 are housed in a single piece cylinder with integral fins for superior structural integrity and better heat dissipation. The HF-624 is rated at 12 psig vs. Roots at 10 psig and both the HF-616 & 624 has a temperature rise limit of 250°F vs. Roots at 230°F.

24/30 WARRANTY

The HeliFlow warranty is a testament to the robust and durable design. The standard warranty period is 30 months from shipment or 24 months from startup whichever comes first.



UNIMAC

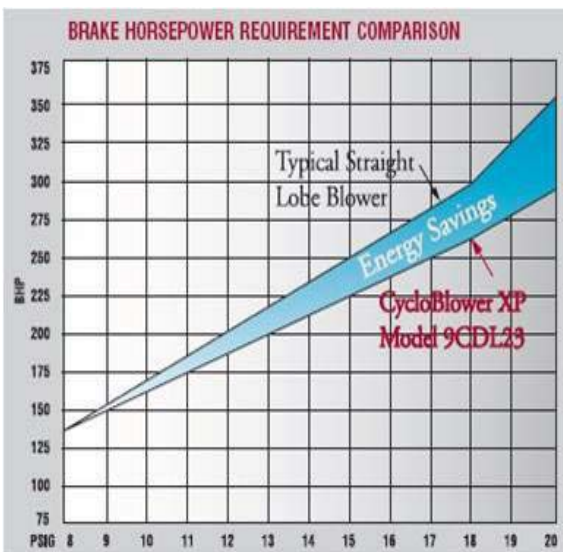


CYCLOBLOWER



CYCLOBLOWER

| MODEL | IN/OUT | PSI | Hg | CFM | HP | Cu. Ft./Rev | RPM | WGT |
|---------|-------------|-----|----|--------------|-------------|-------------|--------------|------|
| 3CDL5 | 2.5" NPT | 18 | 16 | 56 to 273 | 1.8 to 26.5 | 0.099 | 1000 to 3500 | 165 |
| 3CDL8 | 3" NPT | 18 | 16 | 80 to 452 | 2.4 to 36.6 | | 1000 to 3500 | 185 |
| A5CDL5 | 3" NPT | 12 | 12 | 97 to 362 | 3.0 to 24 | 0.107 | 1500 to 4000 | 237 |
| A5CDL9 | 5" FLG | 12 | 12 | 163 to 600 | 4.6 to 38 | 0.188 | 1500 to 4000 | 310 |
| A5CDL13 | 5" FLG | 12 | 12 | 230 to 819 | 6 to 54 | 0.26 | 1500 to 4000 | 361 |
| 5CDL5 | 3" FLG | 20 | 17 | 97 to 465 | 3.0 to 48.5 | 0.107 | 1500 to 5000 | 372 |
| 5CDL9 | 5" FLG | 20 | 17 | 165 to 793 | 4.7 to 78.6 | 0.188 | 1500 to 5000 | 441 |
| 5CDL13 | 5" FLG | 20 | 17 | 230 to 1121 | 6 to 101.3 | 0.26 | 1500 to 5000 | 500 |
| 7CDL11 | 8" FLG | 20 | 17 | 330 to 1633 | 8 to 160.4 | 0.453 | 1100 to 4000 | 867 |
| 7CDL14 | 8" FLG | 20 | 17 | 430 to 2145 | 10 to 185.9 | 0.57 | 1100 to 4000 | 911 |
| 7CDL17 | 8" FLG | 20 | 17 | 490 to 2572 | 12 to 212.7 | 0.673 | 1100 to 4000 | 1016 |
| 9CDL13 | 8" FLG | 20 | 17 | 790 to 2389 | 20 to 234.3 | 0.861 | 1200 to 3000 | 1500 |
| 9CDL18 | 8" FLG | 20 | 17 | 1130 to 3340 | 25 to 317.6 | 1.213 | 1200 to 3000 | 1673 |
| 9CDL23 | 10"/8" FLG | 20 | 17 | 1370 to 4173 | 32 to 350.5 | 1.496 | 1200 to 3000 | 1843 |
| 11CDL23 | 14"/12" FLG | 20 | 17 | 1500 to 4988 | 35 to 461.2 | 2.57 | 800 to 2200 | 3150 |
| 11CDL27 | 14"/12" FLG | 20 | 17 | 1725 to 5677 | 40 to 539.3 | 2.96 | 800 to 2200 | 3340 |
| 11CDL31 | 14"/12" FLG | 20 | 17 | 2020 to 6611 | 45 to 619.4 | 3.28 | 800 to 2200 | 3530 |



CYCLOBLOWER Energy Savings

In many comparable applications, the CycloBlower operates more efficiently than other straight-lobe blowers. By requiring less brake horsepower, BHP, energy operating costs can be realized and reduced.

The **CHART** shows a comparison of the BHP for a typical straight-lobe blower versus a CycloBlower 9CDL23. The CycloBlower requires less BHP to produce 3,000 CFM at pressures from 8 to 20 PSIG.

The unique helical screw design delivers virtually pulsation free air flow resulting in low noise levels.

MECHANICAL SEALS FOR GAS SERVICE AVAILABLE

Warranty – **18 months** from the date of shipment or – **12 months** from the date of installation, whichever occurs first.



| STEEL FRAME, FOOT MOUNTED 1800 RPM, 3PH, 60Hz, ODP, HIGH EFF. 1.15 SF | | | | | | |
|--|----------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | M3211T | 1750 | 208-230/460 | 182T | 61 lbs. | 86.5 |
| 5 | M3218T | 1750 | 208-230/460 | 184T | 70 lbs. | 87.5 |
| 7.5 | M3311T | 1760 | 208-230/460 | 213T | 103 lbs. | 88.5 |
| 10 | M3313T | 1760 | 208-230/460 | 215T | 110 lbs. | 89.5 |
| 15 | M2513T | 1760 | 208-230/460 | 254T | 187 lbs. | 91 |
| 20 | M2515T | 1760 | 230/460 | 256T | 187 lbs. | 91.7 |
| 25 | M2531T | 1760 | 208-230/460 | 284T | 245 lbs. | 91.7 |
| 30 | M2535T | 1760 | 208-230/460 | 286T | 287 lbs. | 92.4 |
| 40 | M2539T | 1770 | 208-230/460 | 324T | 354 lbs. | 93 |
| 50 | M2543T | 1765 | 208-230/460 | 326T | 413 lbs. | 93 |
| 60 | M2547T | 1770 | 230/460 | 364T | 487 lbs. | 93.6 |
| 75 | M2551T | 1775 | 230/460 | 365T | 593 lbs. | 94.1 |
| 100 | M2555T | 1775 | 230/460 | 405T | 797 lbs. | 94.1 |
| 125 | M2559T-4 | 1780 | 460 | 444T | 937 lbs. | 94.5 |
| 150 | M2562T-4 | 1780 | 460 | 445T | 1275 lbs. | 95 |
| 200 | M2563T-4 | 1780 | 460 | 445T | 1495 lbs. | 95 |

| STEEL FRAME, FOOT MOUNTED 3600 RPM, 3PH, 60Hz, ODP, HIGH EFF. 1.15 SF | | | | | | |
|--|-----------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | M3158T | 3470 | 208-230/460 | 145T | 52 lbs. | 84 |
| 5 | M3212T | 3460 | 208-230/460 | 182T | 56 lbs. | 85.5 |
| 7.5 | M3219T | 3500 | 208-230/460 | 184T | 72 lbs. | 87.5 |
| 10 | M3312T | 3500 | 230/460 | 213T | 109 lbs. | 88.5 |
| 15 | M3314T | 3450 | 208-230/460 | 215T | 125 lbs. | 89.5 |
| 20 | M2514T | 3450 | 208-230/460 | 254T | 167 lbs. | 90.2 |
| 25 | M2516T | 3520 | 208-230/460 | 256T | 202 lbs. | 91 |
| 30 | M2534T | 3520 | 208-230/460 | 284TS | 261 lbs. | 91 |
| 40 | M2538T | 3520 | 230/460 | 286TS | 320 lbs. | 91.7 |
| 50 | M2542T | 3525 | 230/460 | 324TS | 386 lbs. | 92.4 |
| 60 | M2546T | 3550 | 230/460 | 326TS | 389 lbs. | 93 |
| 75 | M2549T | 3550 | 230/460 | 364TS | 472 lbs. | 93 |
| 100 | M2550T | 3550 | 230/460 | 365TS | 561 lbs. | 93 |
| 125 | M2554T-4 | 3560 | 460 | 404TS | 575 lbs. | 93.6 |
| 150 | M2556T-4 | 3560 | 460 | 405TS | 612 lbs. | 93.6 |
| 200 | EM2563T-4 | 3560 | 460 | 444TS | 1326 lbs. | 95.4 |

ODP HIGH EFFICIENCY

- Three Phase, 60 Hertz
- Open Drip Proof
- STEEL NEMA T frame
- Gasketed F1 Conduit Box
- Foot Mounted
- Class F Insulation
- NEMA B Design
- 40C Ambient
- HIGH Efficiency



RELIANCE



TEFC HIGH EFFICIENCY

- Three Phase, 60 Hertz
- Totally Enclosed Fan Cooled
- CAST IRON NEMA T frame
- Gasketed F1 Conduit Box
- Foot Mounted
- Class F Insulation
- NEMA B Design
- 40C Ambient
- HIGH Efficiency

| CAST IRON FRAME, FOOT MOUNTED 1800 RPM, 3PH, 60Hz, TEFC, HIGH EFF. 1.15 SF | | | | | | |
|---|----------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | M3661T | 1750 | 208-230/460 | 182T | 93 lbs. | 87.5 |
| 5 | M3665T | 1750 | 208-230/460 | 184T | 105 lbs. | 87.5 |
| 7.5 | M3770T | 1760 | 208-230/460 | 213T | 173 lbs. | 89.5 |
| 10 | M3774T | 1760 | 208-230/460 | 215T | 184 lbs. | 89.5 |
| 15 | M2333T | 1760 | 230/460 | 254T | 244 lbs. | 91 |
| 20 | M2334T | 1760 | 230/460 | 256T | 260 lbs. | 91 |
| 25 | M4103T | 1760 | 208-230/460 | 284T | 342 lbs. | 92.4 |
| 30 | M4104T | 1760 | 208-230/460 | 286T | 365 lbs. | 92.4 |
| 40 | M4110T | 1770 | 208-230/460 | 324T | 498 lbs. | 93 |
| 50 | M4115T | 1765 | 208-230/460 | 326T | 539 lbs. | 93 |
| 60 | M4314T | 1770 | 230/460 | 364T | 727 lbs. | 93.6 |
| 75 | M4316T | 1775 | 230/460 | 365T | 875 lbs. | 94.1 |
| 100 | M4400T | 1775 | 230/460 | 405T | 1012 lbs. | 94.5 |
| 125 | M4410T-4 | 1780 | 460 | 444T | 1540 lbs. | 94.5 |
| 150 | M4406T-4 | 1780 | 460 | 445T | 1740 lbs. | 95 |
| 200 | M4407T-4 | 1780 | 460 | 445T | 1937 lbs. | 95 |

| CAST IRON FRAME, FOOT MOUNTED 3600 RPM, 3PH, 60Hz, TEFC, HIGH EFF. 1.15 SF | | | | | | |
|---|----------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | M3660T | 3470 | 208-230/460 | 182T | 87 lbs. | 85.5 |
| 5 | M3663T | 3460 | 208-230/460 | 184T | 95 lbs. | 87.5 |
| 7.5 | M3769T | 3500 | 208-230/460 | 213T | 166 lbs. | 88.5 |
| 10 | M3771T | 3500 | 230/460 | 215T | 171 lbs. | 89.5 |
| 15 | M2394T | 3450 | 208-230/460 | 254T | 237 lbs. | 90.2 |
| 20 | M4106T | 3450 | 208-230/460 | 256T | 248 lbs. | 90.2 |
| 25 | M4107T | 3520 | 208-230/460 | 284TS | 361 lbs. | 91 |
| 30 | M4108T | 3520 | 208-230/460 | 286TS | 382 lbs. | 91 |
| 40 | M4109T | 3520 | 230/460 | 324TS | 486 lbs. | 91.7 |
| 50 | M4114T | 3525 | 230/460 | 326TS | 575 lbs. | 92.4 |
| 60 | M4310T | 3550 | 230/460 | 364TS | 680 lbs. | 93 |
| 75 | M4313T | 3550 | 230/460 | 365TS | 775 lbs. | 93 |
| 100 | M4402T-4 | 3550 | 460 | 405TS | 974 lbs. | 94.5 |
| 125 | M4412T-4 | 3560 | 460 | 444TS | 1264 lbs. | 94.5 |
| 150 | M4413T-4 | 3560 | 460 | 445TS | 1501 lbs. | 94.5 |
| 200 | M4416T-4 | 3560 | 460 | 447TS | 1850 lbs. | 95 |



| CAST IRON FRAME, FOOT MOUNTED 1800 RPM, 3PH, 60Hz, TEFC, PREMIUM EFF. 1.15 SF | | | | | | |
|--|-----------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | EM3661T | 1750 | 208-230/460 | 182T | 93 lbs. | 89.5 |
| 5 | EM3665T | 1750 | 208-230/460 | 184T | 114 lbs. | 90.2 |
| 7.5 | EM3770T | 1760 | 208-230/460 | 213T | 173 lbs. | 91.7 |
| 10 | EM3774T | 1760 | 208-230/460 | 215T | 231 lbs. | 92.4 |
| 15 | EM2333T | 1760 | 230/460 | 254T | 255 lbs. | 92.4 |
| 20 | EM2334T | 1760 | 230/460 | 256T | 291 lbs. | 93 |
| 25 | EM4103T | 1760 | 208-230/460 | 284T | 398 lbs. | 93.6 |
| 30 | EM4104T | 1760 | 208-230/460 | 286T | 433 lbs. | 94.1 |
| 40 | EM4110T | 1770 | 208-230/460 | 324T | 602 lbs. | 94.5 |
| 50 | EM4115T | 1765 | 208-230/460 | 326T | 750 lbs. | 95 |
| 60 | EM4314T | 1770 | 230/460 | 364T | 814 lbs. | 95 |
| 75 | EM4316T | 1775 | 230/460 | 365T | 908 lbs. | 95.4 |
| 100 | EM4400T | 1775 | 230/460 | 405T | 1239 lbs. | 95.4 |
| 125 | EM4410T-4 | 1780 | 460 | 444T | 1449 lbs. | 95.4 |
| 150 | EM4406T-4 | 1780 | 460 | 445T | 1672 lbs. | 95.8 |
| 200 | EM4407T-4 | 1780 | 460 | 445T | 1875 lbs. | 96.2 |

| CAST IRON FRAME, FOOT MOUNTED 3600 RPM, 3PH, 60Hz, TEFC, PREMIUM EFF. 1.15 SF | | | | | | |
|--|---------|------|-------------|-------|----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | EM3660T | 3470 | 208-230/460 | 182T | 87 lbs. | 89.5 |
| 5 | EM3663T | 3460 | 208-230/460 | 184T | 99 lbs. | 90.2 |
| 7.5 | EM3769T | 3500 | 208-230/460 | 213T | 166 lbs. | 91 |
| 10 | EM3771T | 3500 | 230/460 | 215T | 185 lbs. | 91.7 |
| 15 | EM2394T | 3450 | 208-230/460 | 254T | 270 lbs. | 91.7 |
| 20 | EM4106T | 3450 | 208-230/460 | 256T | 258 lbs. | 92.4 |
| 25 | EM4107T | 3520 | 208-230/460 | 284TS | 383 lbs. | 93 |
| 30 | EM4108T | 3520 | 208-230/460 | 286TS | 382 lbs. | 93 |
| 40 | EM4109T | 3520 | 230/460 | 324TS | 502 lbs. | 93.6 |
| 50 | EM4114T | 3525 | 230/460 | 326TS | 578 lbs. | 94.1 |
| 60 | EM4310T | 3550 | 230/460 | 364TS | 816 lbs. | 94.1 |
| 75 | EM4313T | 3550 | 230/460 | 365TS | 878 lbs. | 94.5 |

TEFC PREMIUM EFFICIENCY

- Three Phase, 60 Hertz
- Totally Enclosed Fan Cooled
- CAST IRON NEMA T frame
- Gasketed F1 Conduit Box
- Foot Mounted
- Class F Insulation
- NEMA B Design
- 40C Ambient
- PREMIUM Efficiency
- Inverter Ready per NEMA standard MG1 Part 31.4.4.2



RELIANCE



| CAST IRON FRAME, FOOT MOUNTED | | | | | | |
|--|------------|------|---------|-------|-----------|------|
| 1800 RPM, 3PH, 60Hz, SEVERE DUTY, PREMIUM EFF. 1.15 SF | | | | | | |
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | ECP3661T | 1750 | 230/460 | L182T | 131 lbs. | 89.5 |
| 5 | ECP3665T | 1750 | 230/460 | L184T | 143 lbs. | 89.5 |
| 7.5 | ECP3770T | 1760 | 230/460 | L213T | 199 lbs. | 91.7 |
| 10 | ECP3774T | 1760 | 230/460 | 215T | 210 lbs. | 91.7 |
| 15 | ECP2333T | 1760 | 230/460 | 254T | 326 lbs. | 92.4 |
| 20 | ECP2334T | 1760 | 230/460 | 256T | 356 lbs. | 93 |
| 25 | ECP4103T | 1760 | 230/460 | 284T | 454 lbs. | 93.6 |
| 30 | ECP4104T | 1760 | 230/460 | 286T | 462 lbs. | 93.6 |
| 40 | ECP4110T | 1770 | 230/460 | 324T | 647 lbs. | 94.1 |
| 50 | ECP4115T | 1765 | 230/460 | 326T | 720 lbs. | 94.5 |
| 60 | ECP4314T | 1770 | 230/460 | 364T | 847 lbs. | 95 |
| 75 | ECP4316T | 1775 | 230/460 | 365T | 931 lbs. | 95.4 |
| 100 | ECP4400T-4 | 1775 | 460 | 405T | 1343 lbs. | 95.4 |
| 125 | ECP4410T-4 | 1780 | 460 | 444T | 1781 lbs. | 95.8 |
| 150 | ECP4406T-4 | 1780 | 460 | 445T | 1922 lbs. | 96.2 |
| 200 | ECP4407T-4 | 1780 | 460 | 445T | 2417 lbs. | 96.2 |

| CAST IRON FRAME, FOOT MOUNTED | | | | | | |
|--|------------|------|---------|-------|-----------|------|
| 3600 RPM, 3PH, 60Hz, SEVERE DUTY, PREMIUM EFF. 1.15 SF | | | | | | |
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | ECP3660T | 3470 | 230/460 | 182T | 104 lbs. | 88.5 |
| 5 | ECP3663T | 3460 | 230/460 | 184T | 128 lbs. | 88.5 |
| 7.5 | ECP3769T | 3500 | 230/460 | 213T | 178 lbs. | 90.2 |
| 10 | ECP3771T | 3500 | 230/460 | 215T | 188 lbs. | 91 |
| 15 | ECP2294T | 3450 | 230/460 | 254T | 270 lbs. | 91.7 |
| 20 | ECP4106T | 3450 | 230/460 | 256T | 348 lbs. | 91.7 |
| 25 | ECP4107T | 3520 | 230/460 | 284TS | 398 lbs. | 93 |
| 30 | ECP4108T | 3520 | 230/460 | 286TS | 450 lbs. | 93 |
| 40 | ECP4109T | 3520 | 230/460 | 324TS | 557 lbs. | 94.1 |
| 50 | ECP4114T | 3525 | 230/460 | 326TS | 683 lbs. | 94.1 |
| 60 | ECP4310T | 3550 | 230/460 | 364TS | 748 lbs. | 95 |
| 75 | ECP4313T | 3550 | 230/460 | 365TS | 964 lbs. | 94.5 |
| 100 | ECP4402T | 3550 | 230/460 | 405TS | 1119 lbs. | 93.6 |
| 125 | ECP4412T | 3560 | 230/460 | 444TS | 1654 lbs. | 94.5 |
| 150 | ECP4413T | 3560 | 460 | 445TS | 1634 lbs. | 94.5 |
| 200 | ECP4416T-4 | 3560 | 460 | 447TS | 2129 lbs. | 96.2 |

SEVERE DUTY PREMIUM EFF.

- Three Phase, 60 Hertz
- Totally Enclosed Fan Cooled
- CAST IRON NEMA T frame
- Cast Iron F1 Conduit Box
- Foot Mounted
- Class F Insulation
- NEMA B Design
- 40C Ambient
- PREMIUM Efficiency
- Corrosion Resistant Epoxy
- Tropicalization
- V-Ring shaft seal
- Inverter Ready per NEMA standard MG1 Part 31.4.4.2



| CAST IRON FRAME, FOOT MOUNTED 1800 RPM, 3PH, 60Hz, TEFC, HIGH EFF. 1.25 SF to 100HP | | | | | | |
|--|---------------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | 00318EP3E182T | 1750 | 208-230/460 | 182T | 97 lbs. | 87.5 |
| 5 | 00518EP3E184T | 1750 | 208-230/460 | 184T | 102 lbs. | 87.5 |
| 7.5 | 00718EP3E213T | 1760 | 208-230/460 | 213T | 150 lbs. | 89.5 |
| 10 | 01018EP3E215T | 1760 | 208-230/460 | 215T | 165 lbs. | 90.2 |
| 15 | 01518EP3E254T | 1760 | 208-230/460 | 254T | 266 lbs. | 91 |
| 20 | 02018EP3E256T | 1760 | 208-230/460 | 256T | 313 lbs. | 91 |
| 25 | 02518EP3E284T | 1760 | 208-230/460 | 284T | 437 lbs. | 92.4 |
| 30 | 03018EP3E286T | 1760 | 208-230/460 | 286T | 481 lbs. | 92.4 |
| 40 | 04018EP3E324T | 1770 | 208-230/460 | 324T | 587 lbs. | 93 |
| 50 | 05018EP3E326T | 1765 | 208-230/460 | 326T | 640 lbs. | 93.6 |
| 60 | 06018EP3E364T | 1770 | 208-230/460 | 364T | 963 lbs. | 93.6 |
| 75 | 07518EP3E365T | 1775 | 208-230/460 | 365T | 1010 lbs. | 94.1 |
| 100 | 10018EP3E405T | 1775 | 208-230/460 | 405T | 1273 lbs. | 94.5 |
| 125 | 12518EP3G444T | 1780 | 460 | 444T | 1647 lbs. | 94.5 |
| 150 | 15018EP3G445T | 1780 | 460 | 445T | 1841 lbs. | 95 |
| 200 | 20018EP3G445T | 1780 | 460 | 445T | 2117 lbs. | 95 |



| CAST IRON FRAME, FOOT MOUNTED 3600 RPM, 3PH, 60Hz, TEFC, HIGH EFF. 1.25 SF to 100HP | | | | | | |
|--|----------------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | 00336EP3E182T | 3470 | 208-230/460 | 182T | 106 lbs. | 85.5 |
| 5 | 00536EP3E184T | 3460 | 208-230/460 | 184T | 114 lbs. | 87.5 |
| 7.5 | 00736EP3E213T | 3500 | 208-230/460 | 213T | 150 lbs. | 88.5 |
| 10 | 01036EP3E215T | 3500 | 208-230/460 | 215T | 150 lbs. | 89.5 |
| 15 | 01536EP3E254T | 3450 | 208-230/460 | 254T | 280 lbs. | 90.2 |
| 20 | 02036EP3E256T | 3450 | 208-230/460 | 256T | 313 lbs. | 90.2 |
| 25 | 02536EP3E284TS | 3520 | 208-230/460 | 284TS | 353 lbs. | 91 |
| 30 | 03036EP3E286TS | 3520 | 208-230/460 | 286TS | 404 lbs. | 91 |
| 40 | 04036EP3E324TS | 3520 | 208-230/460 | 324TS | 561 lbs. | 91.7 |
| 50 | 05036EP3E326TS | 3525 | 208-230/460 | 326TS | 594 lbs. | 92.4 |
| 60 | 06036EP3E364TS | 3550 | 208-230/460 | 364TS | 917 lbs. | 93 |
| 75 | 07536EP3E365TS | 3550 | 208-230/460 | 365TS | 1025 lbs. | 93 |
| 100 | 10036EP3E405TS | 3550 | 208-230/460 | 405TS | 1361 lbs. | 94.5 |
| 125 | 12536EP3G444TS | 3560 | 460 | 444TS | 1801 lbs. | 94.5 |
| 150 | 15036EP3G445TS | 3560 | 460 | 445TS | 1865 lbs. | 94.5 |
| 200 | 20036EP3G447TS | 3560 | 460 | 447TS | 2072 lbs. | 95 |

- IP55 TEFC HIGH EFFICIENCY**
- 1.25 SF (3-100 HP)
- Three Phase, 60 Hertz
- Totally Enclosed Fan Cooled
- CAST IRON NEMA T frame
- Gasketed F1 Conduit Box
- Foot Mounted
- Class F Insulation
- NEMA B Design
- 40C Ambient
- HIGH Efficiency
- 575V Capable
- Inverter Ready per NEMA standard MG1 Part 31.4.4.2



| CAST IRON FRAME, FOOT MOUNTED 1800 RPM, 3PH, 60Hz, EXPLOSIONPROOF, HIGH EFF. 1.15 SF | | | | | | |
|---|---------------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | 00318XP3E182T | 1750 | 208-230/460 | 182T | 132 lbs. | 87.5 |
| 5 | 00518XP3E184T | 1750 | 208-230/460 | 184T | 137 lbs. | 87.5 |
| 7.5 | 00718XP3E213T | 1760 | 208-230/460 | 213T | 196 lbs. | 89.5 |
| 10 | 01018XP3E215T | 1760 | 208-230/460 | 215T | 211 lbs. | 90.2 |
| 15 | 01518XP3E254T | 1760 | 208-230/460 | 254T | 319 lbs. | 91 |
| 20 | 02018XP3E256T | 1760 | 208-230/460 | 256T | 352 lbs. | 91 |
| 25 | 02518XP3E284T | 1760 | 208-230/460 | 284T | 503 lbs. | 92.4 |
| 30 | 03018XP3E286T | 1760 | 208-230/460 | 286T | 547 lbs. | 92.4 |
| 40 | 04018XP3E324T | 1770 | 208-230/460 | 324T | 623 lbs. | 93 |
| 50 | 05018XP3E326T | 1765 | 208-230/460 | 326T | 720 lbs. | 93.6 |
| 60 | 06018XP3E364T | 1770 | 208-230/460 | 364T | 1060 lbs. | 93.6 |
| 75 | 07518XP3E365T | 1775 | 208-230/460 | 365T | 1347 lbs. | 94.1 |
| 100 | 10018XP3E405T | 1775 | 208-230/460 | 405T | 1390 lbs. | 94.5 |
| 125 | 12518XP3G444T | 1780 | 460 | 444T | 1797 lbs. | 94.5 |
| 150 | 15018XP3G445T | 1780 | 460 | 445T | 2006 lbs. | 95 |
| 200 | 20018XP3G504 | 1780 | 460 | 504 | 2385 lbs. | 95 |

| CAST IRON FRAME, FOOT MOUNTED 3600 RPM, 3PH, 60Hz, EXPLOSIONPROOF, HIGH EFF. 1.15 SF | | | | | | |
|---|----------------|------|-------------|-------|-----------|------|
| HP | MODEL | RPM | VOLTAGE | FRAME | WGT | EFF |
| 3 | 00336XP3E182T | 3470 | 208-230/460 | 182T | 135 lbs. | 85.5 |
| 5 | 00536XP3E184T | 3460 | 208-230/460 | 184T | 126 lbs. | 87.5 |
| 7.5 | 00736XP3E213T | 3500 | 208-230/460 | 213T | 200 lbs. | 88.5 |
| 10 | 01036XP3E215T | 3500 | 208-230/460 | 215T | 196 lbs. | 89.5 |
| 15 | 01536XP3E254T | 3450 | 208-230/460 | 254T | 310 lbs. | 90.2 |
| 20 | 02036XP3E256T | 3450 | 208-230/460 | 256T | 366 lbs. | 90.2 |
| 25 | 02536XP3E284TS | 3520 | 208-230/460 | 284TS | 419 lbs. | 91 |
| 30 | 03036XP3E286TS | 3520 | 208-230/460 | 286TS | 472 lbs. | 91 |
| 40 | 04036XP3E324TS | 3520 | 208-230/460 | 324TS | 618 lbs. | 91.7 |
| 50 | 05036XP3E326TS | 3525 | 208-230/460 | 326TS | 656 lbs. | 92.4 |
| 60 | 06036XP3E364TS | 3550 | 208-230/460 | 364TS | 1014 lbs. | 93 |
| 75 | 07536XP3E365TS | 3550 | 208-230/460 | 365TS | 1156 lbs. | 93 |
| 100 | 10036XP3E405TS | 3550 | 208-230/460 | 405TS | 1456 lbs. | 93.6 |
| 125 | 12536XP3G444TS | 3560 | 460 | 444TS | 1951 lbs. | 94.5 |
| 150 | 15036XP3G445TS | 3560 | 460 | 445TS | 1991 lbs. | 94.5 |
| 200 | 20036XP3G447TS | 3560 | 460 | 504S | 2227 lbs. | 95 |

EXPLOSIONPROOF

Class I Div I, groups C & D

Class II DIV I, groups F & G

1.15 SF

Three Phase, 60 Hertz

Totally Enclosed Fan Cooled

CAST IRON NEMA T frame

Gasketed F1 Conduit Box

Foot Mounted

Class F Insulation

NEMA B Design

40C Ambient

HIGH Efficiency

575V Capable

Inverter Ready per NEMA standard MG1 Part 31.4.4.2

| NEMA T FRAME SLIDE BASES | | | |
|--------------------------|---------|-------|-----------|
| HP | FRAME | MODEL | WGT |
| 3 | 182 | 182A2 | 9 lbs. |
| 5 | 184 | 184A2 | 9.5 lbs. |
| 7.5 | 213 | 213A2 | 13.5 lbs. |
| 10 | 215 | 215A2 | 15.5 lbs. |
| 15 | 254 | 254B2 | 17 lbs. |
| 20 | 256 | 256B2 | 18 lbs. |
| 25 | 284 | 284B2 | 21 lbs. |
| 30 | 286 | 286B2 | 22 lbs. |
| 40 | 324 | 324B2 | 30 lbs. |
| 50 | 326 | 326B2 | 31 lbs. |
| 60 | 364 | 364B2 | 45 lbs. |
| 75 | 365 | 365B2 | 46 lbs. |
| 100 | 404-405 | 405B2 | 56 lbs. |
| 125 | 444 | 444B2 | 74 lbs. |
| 150-200 | 445 | 445B2 | 75 lbs. |
| 200 | 447 | 447B2 | 89 lbs. |



Manual Adjustment Slide Base

Mechanical, heavy duty steel, double bolt, adjusting motor slide base with screw adjustment to manually adjust V- belt tension.



Automatic Tension Motor Base

The elastic tensioning motor base utilizes a rubber suspension unit as a swivel mounting. This compensates continuously for all belt stretching, hopping, fluttering, and excessive pull when starting a drive. The tensioning motor base is the ideal tensioning solution for all belt drives from about 1 to 200 HP rating.

Belt drives, in particular V-belt drives with one or more belts, transmit the required torque to the driven equipment only if the belt tension is optimum. Consequently all such drives need a device for adjusting the motor position or a belt tensioner to compensate for normal belt stretch (with V-belts up to 5% or 6% of total length).

Failure to adjust the tension leads to loss of power in torque transmission, overheating of belts due to excessive slip, hopping or wobbling, screeching belts, excessive wear of the pulleys and eventually premature failure. These automatic tensioning motor bases provide continuous re-tensioning of the belts

| AUTOMATIC TENSION MOTOR BASE | | | |
|------------------------------|-------------|---------|-----|
| HP | FRAME | MODEL | WGT |
| 1-2 | 143T & 145T | ATB-140 | 10 |
| 2-3 | 182T | ATB-182 | 14 |
| 3-5 | 184T | ATB-184 | 15 |
| 7.5-10 | 213/215T | ATB-210 | 86 |
| 15 -20 | 254/256T | ATB-250 | 94 |
| 25 -30 | 284/286T | ATB-280 | 108 |
| 40 -50 | 324/326T | ATB-320 | 124 |
| 60 -75 | 364/365T | ATB-360 | 144 |
| 100 | 404T | ATB-404 | 275 |
| 125 | 405T | ATB-405 | 350 |
| 150 | 444T | ATB-444 | 350 |
| 200 | 445T | ATB-445 | 435 |

| NEMA 4/12 METAL ENCLOSED COMBINATION STARTER 230V ACROSS THE LINE 120 V CONTROL | | | | | |
|--|-------------------|---------|--------|-------|-------|
| HP | MODEL | AMP | Height | Width | Depth |
| 3 | ESWC-9T02N4-R28 | 5.6-8 | 16 | 12 | 8 |
| 5 | ESWC-18T02N4-R32 | 11-17 | 16 | 12 | 8 |
| 7.5 | ESWC-25T02N4-R33 | 15-23 | 16 | 12 | 8 |
| 10 | ESWC-32T02N4-R34 | 22-32 | 16 | 12 | 8 |
| 15 | ESWC-40T02N4-R35 | 25-40 | 16 | 12 | 8 |
| 20 | ESWC-65T02N4-R39 | 40-57 | 20 | 16 | 8 |
| 25 | ESWC-80T02N4-R41 | 57-70 | 20 | 16 | 8 |
| 30 | ESWC-80T02N4-R42 | 63-80 | 24 | 16 | 8 |
| 40 | ESWC-105T02N4-R44 | 75-97 | 24 | 16 | 8 |
| 50 | ESWC-150T02N4-R48 | 100-150 | 36 | 24 | 12 |
| 60 | ESWC-150T02N4-R49 | 140-215 | 36 | 24 | 12 |
| 75 | ESWC-180T02N4-R49 | 140-215 | 36 | 24 | 12 |
| 100 | ESWC-250T02N4-R50 | 200-310 | 42 | 36 | 12 |
| 125 | ESWC-300T02N4-R51 | 275-420 | 42 | 36 | 12 |
| NEMA 4/12 ENCLOSED COMBINATION STARTER 460V ACROSS THE LINE 120 V CONTROL | | | | | |
| HP | MODEL | AMP | Height | Width | Depth |
| 3 | ESWC-9T04N4-R27 | 4-6.3 | 16 | 12 | 8 |
| 5 | ESWC-9T04N4-R28 | 5.6-8 | 16 | 12 | 8 |
| 7.5 | ESWC-12T04N4-R30 | 8-13 | 16 | 12 | 8 |
| 10 | ESWC-18T04N4-R32 | 11-17 | 16 | 12 | 8 |
| 15 | ESWC-25T04N4-R33 | 15-23 | 16 | 12 | 8 |
| 20 | ESWC-32T04N4-R34 | 22-32 | 16 | 12 | 8 |
| 25 | ESWC-40T04N4-R35 | 25-40 | 16 | 12 | 8 |
| 30 | ESWC-50T04N4-R38 | 32-50 | 16 | 12 | 8 |
| 40 | ESWC-65T04N4-R39 | 40-57 | 20 | 16 | 8 |
| 50 | ESWC-80T04N4-R41 | 57-70 | 20 | 16 | 8 |
| 60 | ESWC-80T04N4-R42 | 63-80 | 24 | 16 | 8 |
| 75 | ESWC-105T04N4-R44 | 75-97 | 24 | 16 | 8 |
| 100 | ESWC-150T04N4-R48 | 100-150 | 36 | 24 | 12 |
| 125 | ESWC-150T04N4-R49 | 140-215 | 36 | 24 | 12 |
| 150 | ESWC-180T04N4-R49 | 140-215 | 36 | 24 | 12 |
| 200 | ESWC-250T04N4-R50 | 200-310 | 42 | 36 | 12 |



COMBIINATION STARTERS

- NEMA 4/12 Metal Enclosure
- Short-Circuit Protection:* Molded case Circuit Breaker
- Branch Disconnect:* Rotary through-the-door handle
- Motor Control:* Magnetic Contactor
- Overload Protection:* Thermal Overload Relay
- Control Devices:
 - H-O-A switch,
 - Start-Stop
 - Reset Button
- Control Power Transformer

| NEMA 1 ENCLOSED VFD 230V | | | | | |
|-----------------------------|-----------------|-----|--------|-------|-------|
| HP | MODEL | AMP | Height | Width | Depth |
| 3 | CFW-090013TDZ | 13 | 8.3 | 5.6 | 7.7 |
| 5 | CFW-090016TDZ | 16 | 11.4 | 7.2 | 7.7 |
| 7.5 | CFW-090024TDZ | 24 | 11.4 | 7.2 | 7.7 |
| 10 | CFW-090028TDZ | 28 | 11.4 | 7.2 | 7.7 |
| 15 | CFW-090045TDZ | 45 | 15.3 | 8.9 | 10.8 |
| 20 | CFW-090054TDZ | 68 | 18.7 | 9.8 | 10.8 |
| 25 | CFW-090054TDZ | 68 | 18.7 | 9.8 | 10.8 |
| 30 | CFW-090070TDZ | 86 | 21.6 | 13.2 | 10.8 |
| 40 | CFW-090086TDZ | 105 | 21.6 | 13.2 | 10.8 |
| 50 | CFW-090105TDZ | 130 | 26.6 | 13.2 | 11.8 |
| 60 | CFW-090142TDZ | 174 | 32.9 | 13.2 | 11.8 |
| 75 | CFW-090240TDZ | 240 | 38.4 | 16.1 | 14.6 |
| NEMA 1 ENCLOSED VFD 460V | | | | | |
| HP | MODEL | AMP | Height | Width | Depth |
| 3 | CFW-090005TGZ | 5.5 | 8.3 | 5.6 | 7.7 |
| 5 | CFW-090009TGZ | 9 | 8.3 | 5.6 | 7.7 |
| 7.5 | CFW-090013TGZ | 13 | 11.4 | 7.2 | 7.7 |
| 10 | CFW-090016TGZ | 16 | 11.4 | 7.2 | 7.7 |
| 15 | CFW-090024TGZ | 24 | 11.4 | 7.2 | 7.7 |
| 20 | CFW-090030TGZ | 36 | 15.3 | 8.9 | 10.8 |
| 25 | CFW-090030TGZ | 36 | 15.3 | 8.9 | 10.8 |
| 30 | CFW-090038TGZ | 45 | 18.7 | 9.8 | 10.8 |
| 40 | CFW-090045TGZ | 54 | 18.7 | 9.8 | 10.8 |
| 50 | CFW-090060TGZ | 70 | 21.6 | 13.2 | 10.8 |
| 60 | CFW-090070TGZ | 86 | 21.6 | 13.2 | 10.8 |
| 75 | CFW-090086TGZ | 105 | 26.6 | 13.2 | 11.8 |
| 100 | CFW-090105TGZ | 130 | 26.6 | 13.2 | 11.8 |
| 125 | CFW-090142TGDBZ | 174 | 32.9 | 13.2 | 12.2 |
| 150 | CFW-090180TGZ | 180 | 38.4 | 16.1 | 14.6 |
| 200 | CFW-090240TGZ | 240 | 38.4 | 16.1 | 14.6 |



VFD

- V/Hz or Sensorless Vector Control
- Self Tuning to motor parameters
- NEMA 1 Enclosure
- 150% current overload capacity
- DC bus connections accessible
- Detachable Smart Keypad
- 32 bit RISC microprocessor controlled
- 1.25 / 2.5 / 5 / 10 kHz adjustable switching freq.
- Six isolated programmable digital inputs
- Three programmable relay outputs (250Vac/1A)
- Two isolated programmable analog inputs
- Two programmable analog outputs

Control features: Linear and “S” amp acceleration and deceleration, local/remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, adjustable V/Hz profile, maximum and minimum adjustable motor speed limits, three skip frequencies, adjustable output current limit, JOG, ride-thru, flying start and PID regulator.

Ambient: 32°F (0°C) to 104°F (40°C), 3300 ft
90% humidity, non- condensing

Display readings: Motor speed, frequency, voltage, current and torque, output power (kW), last four faults, drive status, digital and analog I/O status, hours powered and hours running.

Protective features: Over current, motor overload, drive over temperature, output phase-to-phase and phase-to-ground short circuit, DC bus over and under voltage, power supply under voltage and phase loss and external fault.

| FS FILTER SILENCER PAPER ELEMENT | | | |
|---|--------------|------------|------------|
| SIZE | MODEL | CFM | WGT |
| 1" NPT | FS-1 | 35 | 7 lbs. |
| 1.25" NPT | FS- 1 1/4 | 60 | 10 lbs. |
| 1.5" NPT | FS- 1 1/2 | 75 | 10 lbs. |
| 2" NPT | FS-2 | 120 | 10 lbs. |
| 2.5" NPT | FS-2 1/2 | 190 | 20 lbs. |
| 3" NPT | FS-3 | 275 | 20 lbs. |
| 4" * | FS-4 | 500 | 23 lbs. |
| 5" * | FS-5 | 750 | 29 lbs. |
| 6" FLG | FS-6 | 1100 | 52 lbs. |
| 8" FLG | FS-8 | 2200 | 68 lbs. |
| 10" FLG | FS-10 | 3000 | 90 lbs. |
| 12" FLG | FS-12 | 4300 | 105 lbs. |
| 14" FLG | FS-14 | 5900 | 175 lbs. |
| 16" FLG | FS-16 | 7700 | 185 lbs. |

* Specify NPT or FLG

| FS LOW PROFILE SERIES | | | |
|------------------------------|--------------|------------|------------|
| SIZE | MODEL | CFM | WGT |
| 1" NPT | FSLP-1 | 35 | 9 |
| 1.5" NPT | FSLP-1.5 | 80 | 9 |
| 2" NPT | FSLP-2 | 135 | 10 |
| 2.5" NPT | FSLP-2.5 | 180 | 10 |
| 3" NPT | FSLP-3 | 285 | 20 |
| 4" NPT | FSLP-4 | 520 | 20 |
| 5" NPT | FSLP-5 NPT | 750 | 23 |
| 5" FLG | FSLP-5 FLG | 750 | 23 |
| 6" FLG | FSLP-6 FLG | 1235 | 40 |
| 8" FLG | FSLP-8 FLG | 2125 | 50 |
| 10" FLG | FSLP-10 FLG | 3335 | 95 |
| 12" FLG | FSLP-12 FLG | 4675 | 100 |



FS (Filter Silencers) are designed to mount directly to the blower inlet connection and have a built in silencing section. The filter base is constructed of carbon steel and the weather hood cover can be either ABS plastic or metal depending on the size. Pleated paper media elements have an efficiency of 99.5% on 2 micron particles. Pleated Felt media elements have an efficiency of 98% on 10 micron particles. Filter elements should be serviced when the differential pressure reaches 15 inches of water column.



FSLP (Low Profile) Filter silencers are designed to mount directly to the blower inlet connection and have multiple silencing tubes. If filter assembly height is a concern the low profile should be selected. The filter base is constructed of carbon steel and the weather hood cover can be either ABS plastic or metal depending on the size. Pleated paper media elements have a efficiency of 99% on 1 micron particles. Polyurethane media elements have an efficiency of 98% on 10 micron particles. Filter elements should be serviced when the differential pressure reaches 15 inches of water column.

| FILTER SILENCERS-PFS SERIES | | | |
|-----------------------------|-----------|------|-----------|
| SIZE | MODEL | CFM | WGT |
| 1" NPT | PFS-100 | 55 | 4 lbs. |
| 1.25" NPT | PFS-125 | 70 | 4.3 lbs. |
| 1.5" NPT | PFS-150 | 85 | 4.5 lbs. |
| 2" NPT | PFS-200 | 135 | 9.8 lbs. |
| 2" NPT | PFS-200 | 135 | 18.5 lbs. |
| 2.5" NPT | PFS-250 | 195 | 18.5 lbs. |
| 3" NPT | PFS-300 | 300 | 43 lbs. |
| 4" NPT | PFS-400 | 520 | 44 lbs. |
| 5" NPT | PFS-500 | 800 | 46 lbs. |
| 6" NPT | PFS-600 | 1100 | 48 lbs. |
| 4" FLG | PFS-400F | 520 | 41 lbs. |
| 5" FLG | PFS-500F | 800 | 44 lbs. |
| 6" FLG | PFS-600F | 1100 | 45 lbs. |
| 8" FLG | PFS-800F | 1600 | 108 lbs. |
| 8" FLG | PFS-800F | 1800 | 148 lbs. |
| 10" FLG | PFS-1000F | 3300 | 156 lbs. |
| 12" FLG | PFS-1200F | 3300 | 195 lbs. |
| 12" FLG | PFS-1200F | 4700 | 181 lbs. |



PFS Silencer Filter Cut Away

These PREMIUM GRADE combination inlet silencer filters incorporate multiple silencing tubes around the outside of the base and a central tubular steel acoustic section layered with absorptive media for maximum attenuation. In addition the weatherproof hood is lined with a “quiet band” of sound deadening barrier material. A dry type replaceable element removes 99% of particles 2 micron and larger.

Tests have shown the PFS premium filter silencers reduce blower inlet noise levels up to 10 dBA more than standard filter silencers.

| LAF LATERAL ACCESS FILTER | | | |
|---------------------------|-----------|------|----------|
| SIZE | MODEL | CFM | WGT |
| 3" NPT | LAF-300 | 300 | 43 lbs. |
| 4" NPT | LAF-400 | 520 | 44 lbs. |
| 5" NPT | LAF-500 | 880 | 46 lbs. |
| 6" NPT | LAF-600 | 1100 | 48 lbs. |
| 4" FLG | LAF-400F | 520 | 41 lbs. |
| 5" FLG | LAF-500F | 880 | 44 lbs. |
| 6" FLG | LAF-600F | 1100 | 45 lbs. |
| 8" FLG | LAF-800F | 1800 | 108 lbs. |
| 10" FLG | LAF-1000F | 3300 | 189 lbs. |
| 12" FLG | LAF-1200F | 3300 | 195 lbs. |



“LAF” Lateral Access Filter Element

Lateral access filter assemblies have the same features as the PREMIUM GRADE filters. In addition they are constructed to allow the filter element to be removed from the side. This design is ideally suited for enclosed packages or where overhead access is a problem.

| VACUUM VF SERIES | | | |
|------------------|------------|------|----------|
| SIZE | MODEL | CFM | WGT |
| 1" NPT | VF-1-55 | 55 | 3 lbs. |
| 1.25" NPT | VF-1.25-60 | 60 | 3 lbs. |
| 1.5" NPT | VF-1.5-80 | 80 | 5 lbs. |
| 2" NPT | VF-2-175 | 175 | 15 lbs. |
| 2.5" NPT | VF-2.5-210 | 210 | 15 lbs. |
| 3" NPT | VF-3-300 | 300 | 33 lbs. |
| 4" NPT | VF-4-520 | 520 | 52 lbs. |
| 5" NPT | VF-5-880 | 880 | 82 lbs. |
| 6" NPT | VF-6-1100 | 1100 | 95 lbs. |
| 8" FLG | VF-8-1100 | 1800 | 185 lbs. |
| 10" FLG | VF-10-2900 | 2900 | 380 lbs. |
| 12" FLG | VF-12-4950 | 4950 | 465 lbs. |



VF Series Vacuum filters have large dirt holding capacity and easy field cleaning. Rugged all steel construction A dry type replaceable element removes 99% of particles 2 micron and larger.

| VACUUM FILTER LOW PROFILE | | | |
|---------------------------|--------------|------|----------|
| SIZE | MODEL | CFM | WGT |
| 2" NPT | VFLP-2-120 | 120 | 18 lbs. |
| 2.5" NPT | VFLP-2.5-190 | 190 | 19 lbs. |
| 3" NPT | VFLP-3-275 | 275 | 20 lbs. |
| 4" * | VFLP-4-500 | 500 | 21 lbs. |
| 5" * | VFLP-5-750 | 750 | 50 lbs. |
| 6" FLG | VFLP-6-1100 | 1100 | 65 lbs. |
| 8" FLG | VFLP-8-2200 | 2200 | 90 lbs. |
| 10" FLG | VFLP-10-3000 | 3000 | 125 lbs. |
| 12" FLG | VFLP1-2-4300 | 4300 | 160 lbs. |
| 14" FLG | VFLP-14-5900 | 5900 | 205 lbs. |



VF Series Vacuum filters have a low profile and are suited for applications with limited space. Pleated paper media elements with an efficiency of 99.5% on 2 micron particles are standard. Pleated felt media elements with an efficiency of 98% on 10 micron particles are optional. The filter **element** is accessed through a removable top plate.

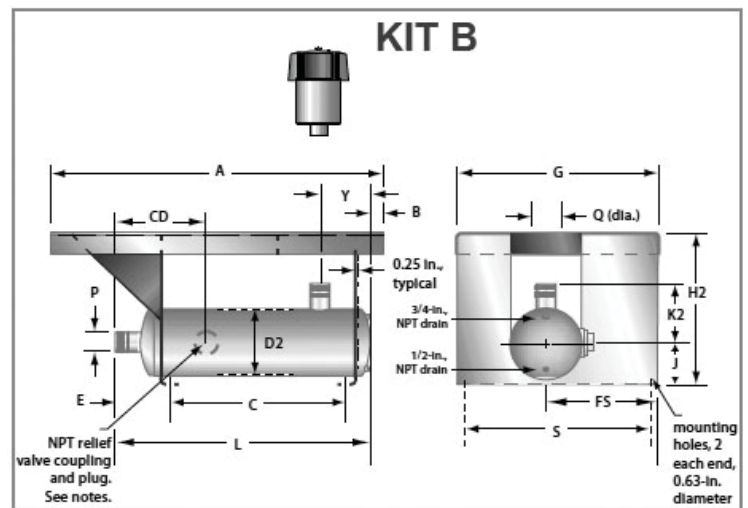
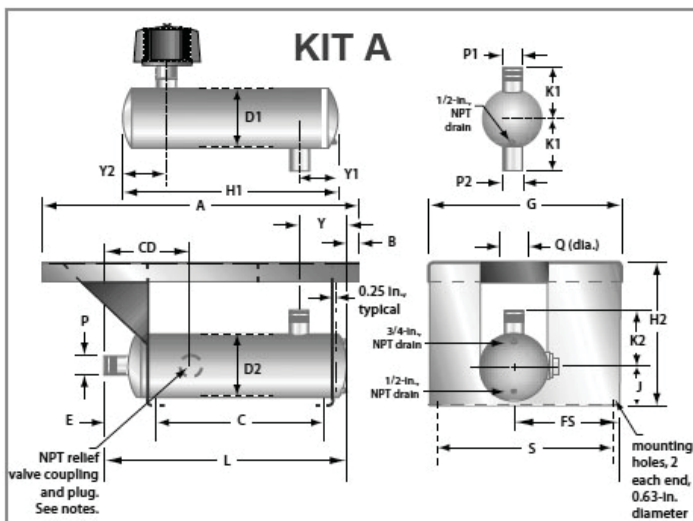
* Specify NPT or FLG

| BASE SILENCER KITS | | | |
|--------------------|----------|-------|---------|
| KIT # | MODEL | KIT # | MODEL |
| A2 | BS-A2 | B2 | BS-B2 |
| A 2.5 | BS-A 2.5 | B2.5 | BS-B2.5 |
| A 3 | BS-A 3 | B3 | BS-B3 |
| A 4 | BS-A 4 | B4 | BS-B4 |
| A 5 | BS-A 5 | B5 | BS-B5 |
| A 6 | BS-A 6 | B6 | BS-B6 |

Base silencer kits accommodate a variety of package designs. Both kits use the same base plate and discharge silencer.

Kit A includes an inlet filter (with weather-hood) base silencer, and "S" flow inlet silencer.

Kit B includes an inlet filter silencer (with weather-hood) and the base silencer.



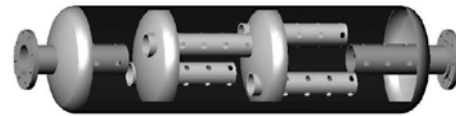
DIMENSIONS AND WEIGHTS

| P1/P2 (nom.) | D1 | H1 | K1 | Y1 | Y2 | Approximate Weight |
|--------------|-------|-------|-------|------|------|--------------------|
| 2.0 | 8.00 | 27.00 | 7.00 | 6.00 | 3.50 | 25 |
| 2.5 | 10.00 | 28.00 | 8.00 | 7.00 | 4.50 | 35 |
| 3.0 | 10.00 | 40.00 | 8.00 | 7.00 | 4.50 | 50 |
| 4.0 | 14.00 | 47.00 | 10.00 | 6.00 | 5.50 | 80 |
| 5.0 | 16.00 | 60.00 | 11.00 | 6.50 | 6.50 | 140 |
| 6.0 | 18.00 | 66.00 | 12.00 | 8.00 | 7.50 | 170 |

| P (nom.) | A | B | C | CD | D2 | E | FS | G | H2 | J | K2 | L | Q (dia.) | S | Y | Approximate Weight |
|----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------------------|
| 2.0 | 39.00 | 1.50 | 20.75 | 10.56 | 8.00 | 6.31 | 13.00 | 23.38 | 16.00 | 5.00 | 7.00 | 30.00 | 3.50 | 21.00 | 6.00 | 125 |
| 2.5 | 44.50 | 0.50 | 20.88 | 11.13 | 10.00 | 6.56 | 14.25 | 27.38 | 17.00 | 6.00 | 8.00 | 31.00 | 4.00 | 25.00 | 7.00 | 170 |
| 3.0 | 55.50 | 4.00 | 31.50 | 12.00 | 10.00 | 7.50 | 15.13 | 29.75 | 17.00 | 6.00 | 8.00 | 43.00 | 4.75 | 26.25 | 7.00 | 270 |
| 4.0 | 56.00 | — | 37.31 | 15.38 | 14.00 | 7.88 | 16.44 | 33.00 | 24.50 | 8.00 | 10.00 | 50.00 | 6.00 | 29.50 | 11.00 | 355 |
| 5.0 | 66.00 | — | 43.38 | 18.25 | 16.00 | 13.75 | 14.75 | 35.00 | 23.50 | 9.00 | 11.00 | 62.50 | 11.00 | 30.50 | 12.00 | 500 |
| 6.0 | 66.00 | — | 52.00 | 18.25 | 18.00 | 10.38 | 15.13 | 35.25 | 26.50 | 10.25 | 12.00 | 69.00 | 12.00 | 30.50 | 12.00 | 645 |

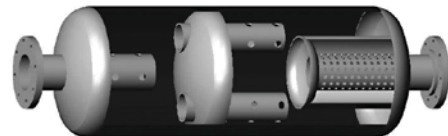
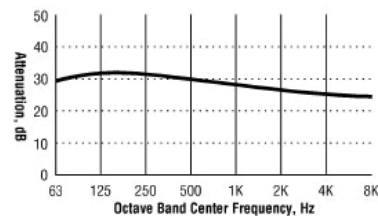
| INLET SILENCER <i>CHAMBER STYLE</i> | | | |
|--|-----------|-------|------------|
| SIZE | MODEL | CFM | WGT |
| 2" NPT | ISC-*2 | 120 | 20 lbs. |
| 2.5" NPT | ISC-*2.5 | 190 | 30 lbs. |
| 3" NPT | ISC-*3 | 270 | 40 lbs. |
| 4" NPT | ISC-*4 | 480 | 70 lbs. |
| 4" FLG | ISC-*4F | 480 | 70 lbs. |
| 5" NPT | ISC-*5 | 750 | 120 lbs. |
| 5" FLG | ISC-*5F | 750 | 120 lbs. |
| 6" FLG | ISC-*6 | 1080 | 160 lbs. |
| 8" FLG | ISC-*8 | 1920 | 370 lbs. |
| 10" FLG | ISC-*10 | 3000 | 550 lbs. |
| 12" FLG | ISC-*12 | 4300 | 800 lbs. |
| 14" FLG | ISC-*14 | 5900 | 1,250 lbs. |
| 16" FLG | ISC-*16 | 7700 | 1,600 lbs. |
| 18" FLG | ISC-*18 | 9700 | 2,300 lbs. |
| 20" FLG | ISC-*20 | 12000 | 2,500 lbs. |
| 22" FLG | ISC-*22 | 14500 | 2,950 lbs. |
| 24" FLG | ISC-*24 | 17300 | 3,450 lbs. |
| INLET SILENCER <i>CHAMBER-ABSORPTIVE</i> | | | |
| SIZE | MODEL | CFM | WGT |
| 2" NPT | ISCA-*2 | 120 | 15 lbs. |
| 2.5" NPT | ISCA-*2.5 | 190 | 25 lbs. |
| 3" NPT | ISCA-*3 | 270 | 30 lbs. |
| 4" NPT | ISCA-*4 | 480 | 50 lbs. |
| 4" FLG | ISCA-*4F | 480 | 50 lbs. |
| 5" NPT | ISCA-*5 | 750 | 80 lbs. |
| 5" FLG | ISCA-*5F | 750 | 80 lbs. |
| 6" FLG | ISCA-*6 | 1080 | 110 lbs. |
| 8" FLG | ISCA-*8 | 1920 | 190 lbs. |
| 10" FLG | ISCA-*10 | 3000 | 380 lbs. |
| 12" FLG | ISCA-*12 | 4300 | 550 lbs. |
| 14" FLG | ISCA-*14 | 5900 | 800 lbs. |
| 16" FLG | ISCA-*16 | 7700 | 1,250 lbs. |
| 18" FLG | ISCA-*18 | 9700 | 1,600 lbs. |
| 20" FLG | ISCA-*20 | 12000 | 1,900 lbs. |
| 22" FLG | ISCA-*22 | 14500 | 2,700 lbs. |
| 24" FLG | ISCA-*24 | 17300 | 3,000 lbs. |

All welded steel construction silencers are specifically designed for rotary lobe blowers. Chamber style are used for sub-critical applications and chamber-absorptive are used for critical pitch line velocity applications. Rated to 15 PSIG



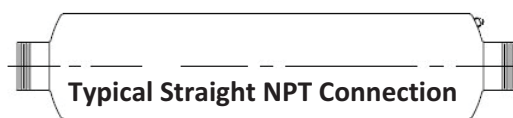
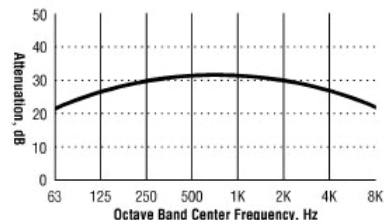
Chamber style

Typical Attenuation Curve

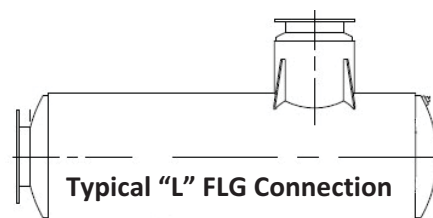


Chamber Absorptive style

Typical Attenuation Curve



Typical Straight NPT Connection

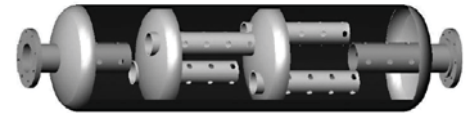


Typical "L" FLG Connection

* Insert "S" for straight flow design, "L" for angled flow design in the model number.

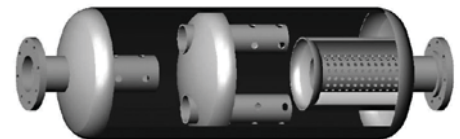
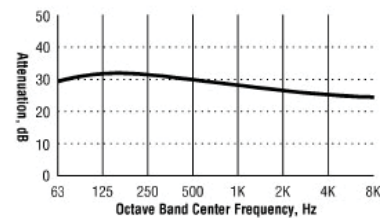
All welded steel construction silencers are specifically designed for rotary lobe blowers. Chamber style are used for sub-critical applications and chamber-absorptive are used for critical pitch line velocity applications. Rated to 15 PSIG

| DISCHARGE SILENCER CHAMBER STYLE | | | |
|---------------------------------------|------------|-------------|------------|
| SIZE | MODEL | CFM | WGT |
| 2" NPT | DSC-*-2 | 140-185 | 20 lbs. |
| 2.5" NPT | DSC-*-2.5 | 220-285 | 30 lbs. |
| 3" NPT | DSC-*-3 | 320-415 | 40 lbs. |
| 4" NPT | DSC-*-4 | 560-735 | 70 lbs. |
| 4" FLG | DSC-*-4F | 560-735 | 70 lbs. |
| 5" NPT | DSC-*-5 | 880-1150 | 120 lbs. |
| 5" FLG | DSC-*-5F | 880-1150 | 120 lbs. |
| 6" FLG | DSC-*-6 | 1260-1650 | 160 lbs. |
| 8" FLG | DSC-*-8 | 2250-2940 | 370 lbs. |
| 10" FLG | DSC-*-10 | 3520-4590 | 550 lbs. |
| 12" FLG | DSC-*-12 | 5070-6600 | 800 lbs. |
| 14" FLG | DSC-*-14 | 6890-8990 | 1,250 lbs. |
| 16" FLG | DSC-*-16 | 9000-11800 | 1,600 lbs. |
| 18" FLG | DSC-*-18 | 11400-14900 | 2,300 lbs. |
| 20" FLG | DSC-*-20 | 14000-18400 | 2,500 lbs. |
| 22" FLG | DSC-*-22 | 17000-22200 | 2,950 lbs. |
| 24" FLG | DSC-*-24 | 20200-26400 | 3,450 lbs. |
| DISCHARGE SILENCER CHAMBER-ABSORPTIVE | | | |
| SIZE | MODEL | CFM | WGT |
| 2" NPT | DSCA-*-2 | 140-185 | 15 lbs. |
| 2.5" NPT | DSCA-*-2.5 | 220-285 | 25 lbs. |
| 3" NPT | DSCA-*-3 | 320-415 | 30 lbs. |
| 4" NPT | DSCA-*-4 | 560-735 | 50 lbs. |
| 4" FLG | DSCA-*-4F | 560-735 | 50 lbs. |
| 5" NPT | DSCA-*-5 | 880-1150 | 80 lbs. |
| 5" FLG | DSCA-*-5F | 880-1150 | 80 lbs. |
| 6" FLG | DSCA-*-6 | 1260-1650 | 110 lbs. |
| 8" FLG | DSCA-*-8 | 2250-2940 | 190 lbs. |
| 10" FLG | DSCA-*-10 | 3520-4590 | 380 lbs. |
| 12" FLG | DSCA-*-12 | 5070-6600 | 550 lbs. |
| 14" FLG | DSCA-*-14 | 6890-8990 | 800 lbs. |
| 16" FLG | DSCA-*-16 | 9000-11800 | 1,250 lbs. |
| 18" FLG | DSCA-*-18 | 11400-14900 | 1,600 lbs. |
| 20" FLG | DSCA-*-20 | 14000-18400 | 1,900 lbs. |
| 22" FLG | DSCA-*-22 | 17000-22200 | 2,700 lbs. |
| 24" FLG | DSCA-*-24 | 20200-26400 | 3,000 lbs. |



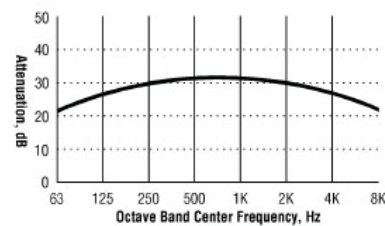
Chamber style

Typical Attenuation Curve

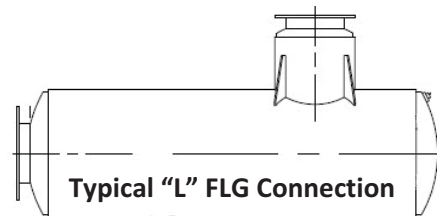


Chamber Absorptive style

Typical Attenuation Curve



Typical Straight NPT Connection

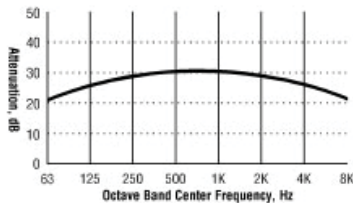


Typical "L" FLG Connection

* Insert "S" for straight flow design, "L" for angled flow design in the model number.

| COMPACT SILENCER INLET FILTER | | | |
|--------------------------------------|--------------|------------|------------|
| SIZE | MODEL | CFM | WGT |
| 2 | CSIF-2 | 120 | 20 lbs. |
| 2 1/2 | CSIF-2.5 | 175 | 25 lbs. |
| 3 | CSIF-3 | 275 | 50 lbs. |
| 4 | CSIF-4 | 500 | 60 lbs. |
| 5 | CSIF-5 | 750 | 85 lbs. |
| 6 | CSIF-6 | 1100 | 100 lbs. |
| 8 | CSIF-8 | 2200 | 200 lbs. |
| 10 | CSIF-10 | 3000 | 305 lbs. |
| 12 | CSIF-12 | 4300 | 385 lbs. |

Typical Attenuation Curve



The Compact Silencer Inlet Filter combines a full blown silencer with excellent high efficiency filtration. Pleated paper media elements with a efficiency of 99.5% on 2 micron particles are standard. Pleated Felt media elements with an efficiency of 98% on 10 micron particles are optional. The filter can be ordered with the outdoor weather hood or without it for indoor service.



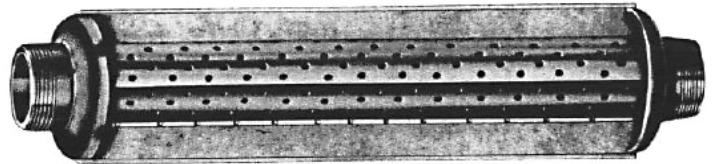
| COMPACT DISCHARGE SILENCER | | | |
|-----------------------------------|--------------|------------|------------|
| SIZE | MODEL | CFM | WGT |
| 2 | CS-2 | 120 | 15 lbs. |
| 2 1/2 | CS-2.5 | 187 | 25 lbs. |
| 3 | CS-3 | 270 | 35 lbs. |
| 4 | CS-4 | 480 | 45 lbs. |
| 5 | CS-5 | 750 | 70 lbs. |
| 6 | CS-6 | 1180 | 85 lbs. |
| 8 | CS-8 | 1920 | 170 lbs. |
| 10 | CS-10 | 3000 | 275 lbs. |
| 12 | CS-12 | 4320 | 355 lbs. |

The Compact Silencer is a concentric passage design with welded steel sheet and plate construction and a working pressure of 15 PSIG. An internal steel baffle acoustically packed with absorption material is good for operating temperatures of 325 F. This design delivers excellent pulsation control with superior frequency attenuation even above transition speeds.

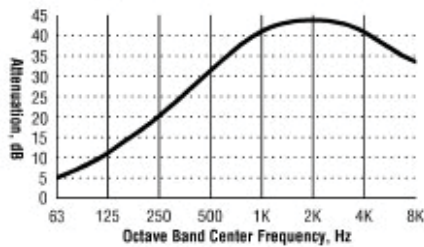


| ABSORPTIVE SILENCERS | | | |
|----------------------|---------|------|----------|
| SIZE | MODEL | CFM | WGT |
| 1 | AS-1 | 35 | 3 lbs. |
| 1 1/4 | AS-1.25 | 60 | 4 lbs. |
| 1 1/2 | AS-1.5 | 75 | 6 lbs. |
| 2 | AS-2 | 120 | 10 lbs. |
| 2 1/2 | AS-2.5 | 190 | 15 lbs. |
| 3 | AS-3 | 275 | 20 lbs. |
| 4 | AS-4 | 500 | 40 lbs. |
| 5 | AS-5 | 750 | 60 lbs. |
| 6 | AS-6 | 1100 | 100 lbs. |

The Absorptive Silencer is a premium straight-through design. It provides excellent noise attenuation due to its high length to diameter ratio. It is especially well suited for inlet service on small blowers or the discharge of vacuum pumps. Acoustical packing suitable for 325°F.



Typical Attenuation Curve



| SILICON FABRIC HOSE | | | | | |
|---------------------|--------|------|-----|-------|--------|
| SIZE | MODEL | LGTH | PSI | BURST | WGT |
| 2" | FH-2 | 2.5" | 70 | 210 | 2 lbs. |
| 2.5" | FH-2.5 | 3" | 60 | 180 | 2 lbs. |
| 3" | FH-3 | 3" | 55 | 150 | 3 lbs. |
| 4" | FH-4 | 3.5" | 50 | 90 | 3 lbs. |
| 5" | FH-5 | 4" | 45 | 80 | 4 lbs. |
| 6" | FH-6 | 5" | 40 | 60 | 5 lbs. |
| 8" | FH-8 | 6" | 35 | 50 | 7 lbs. |
| 10" | FH-10 | 6" | 30 | 45 | 9 lbs. |



Designed to slip over standard steel pipe sizes for ease of installation. Extra heavy duty multi-ply construction. Specially compounded silicone elastomer inner liner, reinforced with woven fiberglass fabric applied on a 45 degree bias layup and coated with silicone rubber.

Silicone rubber provides mechanical and thermal attributes not found in other elastomers. Strong yet flexible, resistant to hardening, aging, cracking, ozone and chemicals. Working PSI rated at 500°F.

| SINGLE SPHERE EPDM EXPANSION JOINT | | | | |
|------------------------------------|-------|--------|-----|----------|
| SIZE | MODEL | LENGTH | PSI | WGT |
| 3" FLG | EJ-3 | 6" | 225 | 14 lbs. |
| 4" FLG | EJ-4 | 6" | 225 | 18 lbs. |
| 5" FLG | EJ-5 | 6" | 225 | 25 lbs. |
| 6" FLG | EJ-6 | 6" | 225 | 28 lbs. |
| 8" FLG | EJ-8 | 6" | 225 | 52 lbs. |
| 10" FLG | EJ-10 | 8" | 225 | 65 lbs. |
| 12" FLG | EJ-12 | 8" | 225 | 105 lbs. |
| 14" FLG | EJ-14 | 8" | 150 | 115 lbs. |
| 16" FLG | EJ-16 | 8" | 125 | 170 lbs. |



The single sphere flexible expansion joint has a spherical design with reduced turbulence when compared with a "high-arch" design. Molded of chemical resistant EPDM with carbon steel ANSI class 150 floating, flat face flanges. Assemblies working PSI rated at 265°F (working temperature 300°F at 15 PSI)

| FLANGED STAINLESS STEEL | | | | |
|-------------------------|--------|--------|-----|----------|
| SIZE | MODEL | LENGTH | PSI | WGT |
| 3" FLG | SSF-3 | 5.25" | 50 | 17 lbs. |
| 4" FLG | SSF-4 | 5.25" | 50 | 27 lbs. |
| 5" FLG | SSF-5 | 5.25" | 50 | 33 lbs. |
| 6" FLG | SSF-6 | 5.25" | 50 | 38 lbs. |
| 8" FLG | SSF-8 | 7" | 50 | 44 lbs. |
| 10" FLG | SSF-10 | 7" | 50 | 45 lbs. |
| 12" FLG | SSF-12 | 7" | 50 | 70 lbs. |
| 14" FLG | SSF-14 | 9" | 50 | 98 lbs. |
| 16" FLG | SSF-16 | 10.5" | 50 | 112 lbs. |



The T304 SS flexible expansion joint is a low corrugation, non-controlled, multi-ply bellows type with carbon steel ANSI B 16.5 class 150, fixed, flat face flange.

The design allows for axial compression, axial extension, and lateral offset, rated for 50 PSI maximum working pressure with a test of 75 PSI and working temperature 850°F.

| SPRING LOADED DIAPHRAGM ASSIST | | | | |
|--------------------------------|--------|-----------|----------|--------|
| SIZE | MODEL | CFM | SET | WGT |
| 2" NPT | RV-2-* | 500-980 | 5-15 PSI | 4 lbs. |
| 3" NPT | RV-3-* | 1400-2150 | 5-15 PSI | 7 lbs. |
| 2" NPT | VR-2-* | 300-460 | 5-29 Hg | 4 lbs. |
| 3" NPT | VR-3-* | 570-940 | 5-29 Hg | 7 lbs. |

* RV Specify set pressure in PSIG, ½ PSI increments

* VR Specify vacuum setting in Hg, ½ in increments



RV Style



VR Style

RV and VR relief valves have a diaphragm assist spring loaded design. The valve maintains repeatable set pressures after numerous cycles and remains tight till it reaches “cracking” pressure. Most importantly the valve consistently re-sets below set pressure and does not flutter.

Valves have an aluminum body with a brass poppet, red silicone diaphragm, and SS spring. Rated for temperatures to 400°F. Field adjustable (Removable sealed cap)

| BRONZE SEAT NON-ADJUSTABLE | | | | |
|----------------------------|------------|----------|----------|---------|
| SIZE | MODEL | CFM | SET | WGT |
| 2" NPT | 337-H01-* | 240-948 | 4-15 PSI | 8 lbs. |
| 2.5" NPT | 337-J01-* | 364-1436 | 4-15 PSI | 12 lbs. |
| 3" NPT | 337-K01-* | 527-2061 | 4-15 PSI | 20 lbs. |
| 2" NPT | 215V-H01-* | 229-426 | 5-29 Hg | 8 lbs. |
| 2.5" NPT | 215V-J01-* | 347-646 | 5-29 Hg | 12 lbs. |
| 3" NPT | 215V-K01-* | 503-936 | 5-29 Hg | 20 lbs. |

* 337 Specify set pressure in PSIG, ½ PSI increments

* 215V Specify vacuum setting in Hg, ½ in increments



337 Style



215 V Style

Pressure and Vacuum ASME Section VIII, Air/Gas Vacuum, 'UV' National Board Certified Safety Valves. Bronze nozzle with a cast iron body. Seat and disc machined from bronze with a SS spring.

Pressure Model 337: Has 'pull-ring' lift device for easy manual testing. 1 to 60 psig -20° to 406°F.

Model 215V: Model used for Vacuum service. 2-inch HG to 29-inch HG -20° to 400°F.

| SUTORBILT PRESSURE WEIGHTED | | | | |
|-----------------------------|--------|------------|-------|-----|
| SIZE | MODEL | CFM | PSI | WGT |
| 1" NPT | PW1-5 | 50-200 | 3-5 | 6 |
| 1" NPT | PW1-10 | 50-200 | 6-10 | 16 |
| 1" NPT | PW1-15 | 50-200 | 11-15 | 26 |
| 2" NPT | PW2-5 | 200-800 | 3-5 | 20 |
| 2" NPT | PW2-10 | 200-800 | 6-10 | 40 |
| 2" NPT | PW2-15 | 200-800 | 11-15 | 60 |
| 3" NPT | PW3-5 | 800-2000 | 3-5 | 48 |
| 3" NPT | PW3-10 | 800-2000 | 6-10 | 103 |
| 3" NPT | PW3-15 | 800-2000 | 11-15 | 158 |
| 4" NPT | PW4-5 | 1300-3500 | 3-5 | 74 |
| 4" NPT | PW4-10 | 1300-3500 | 6-10 | 139 |
| 4" NPT | PW4-15 | 1300-3500 | 11-15 | 204 |
| 6" FLG | PW6-5 | 3400-7900 | 5 | 40 |
| 6" FLG | PW6-10 | 3400-7900 | 6-10 | 57 |
| 6" FLG | PW6-15 | 3400-7900 | 11-15 | 75 |
| 8" FLG | PW8-5 | 5200-11200 | 5 | 67 |
| 8" FLG | PW8-10 | 5200-11200 | 6-10 | 102 |
| 8" FLG | PW8-15 | 5200-11200 | 11-15 | 137 |

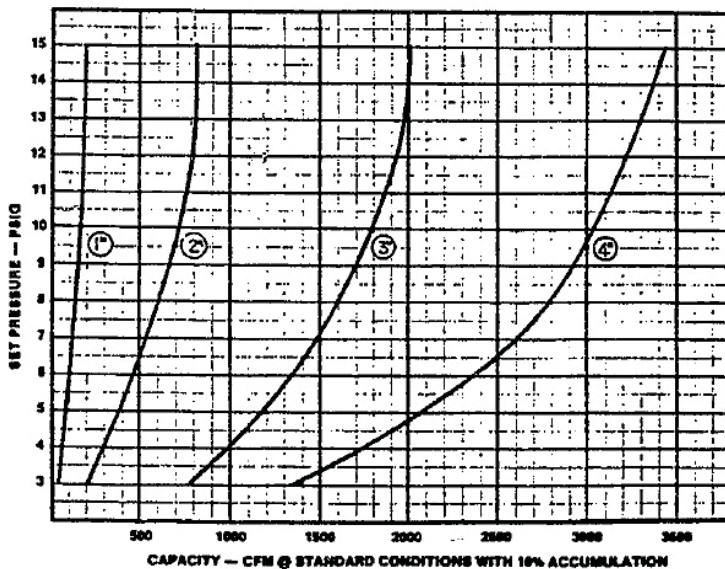


Weight loaded pressure relief valves have a simple trouble free design. As air pressure reaches the pressure setting, the weight loaded cap is forced upwards off the valve seat. As the pressure increases the cap continues to rise exposing more area of the discharge ports.

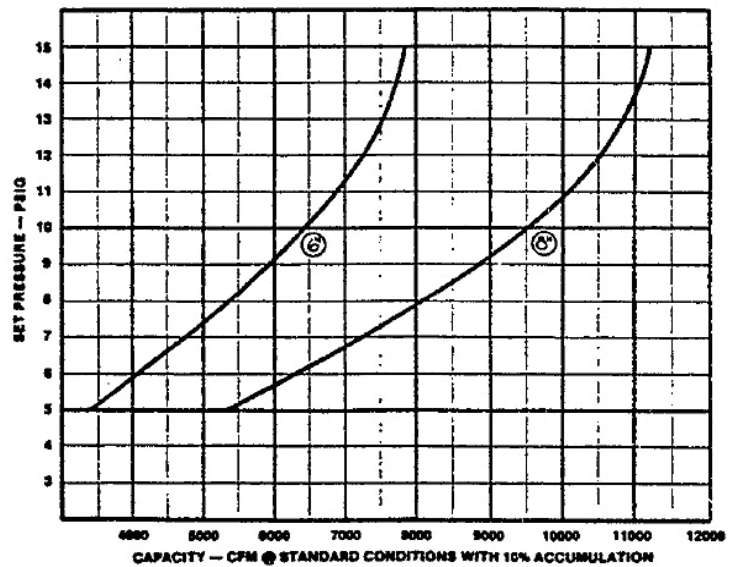
Since the opening and closing of the valve is essentially the sliding of a piston in a cylinder, the valve is virtually chatter free.

Removable weights have been carefully designed to permit accurate pressure settings in 1/5 PSI increments.

1" to 4" Capacity Chart



6" to 8" Capacity Chart



| MALE NPT THREADED ENDS | | | |
|------------------------|----------|------|----------|
| SIZE | MODEL | LGTH | WGT |
| 1" | CVT-1 | 3.5" | 0.4 lbs. |
| 1 1/4" | CVT-1.25 | 3.5" | 0.7 lbs. |
| 1 1/2" | CVT-1.5 | 4" | 0.9 lbs. |
| 2" | CVT-2.5 | 4" | 1.2 lbs. |
| 2 1/2" | CVT-2.5 | 5" | 2 lbs. |
| 3" | CVT-3 | 5.5" | 3 lbs. |
| 4" | CVT-4 | 6" | 4.5 lbs. |
| 5" | CVT-5 | 7" | 8 lbs. |
| 6" | CVT-6 | 8" | 12 lbs. |
| 8" | CVT-8 | 10" | 23 lbs. |
| 10" | CVT-10 | 12" | 40 lbs. |



Threaded check valves are full port providing maximum flow area with minimum pressure drop. The unique flexible elastomer seal provides final closure around the complete valve bore. Constructed with a threaded steel body, aluminum internals, and Viton sealing member material for operation from -20° to 400°F. Cold working pressure is 150 PSIG.

| WAFER 125# (FLAT FACE) | | | |
|------------------------|---------|--------|----------|
| SIZE | MODEL | LGTH | WGT |
| 2" | CVF-2 | 1.375" | 3 lbs. |
| 2 1/2" | CVF-2.5 | 1.675" | 5 lbs. |
| 3" | CVF-3 | 1.875" | 6 lbs. |
| 4" | CVF-4 | 2.375" | 12 lbs. |
| 5" | CVF-5 | 2.875" | 20 lbs. |
| 6" | CVF-6 | 3.375" | 22 lbs. |
| 8" | CVF-8 | 4.375" | 45 lbs. |
| 10" | CVF-10 | 5.375" | 63 lbs. |
| 12" | CVF-12 | 6.375" | 110 lbs. |
| 14" | CVF-14 | 7.375" | 170 lbs. |



Short form wafer style check valves are full port providing maximum flow area with minimum pressure drop. The unique flexible elastomer seal provides final closure around the complete valve bore. Cast iron flat face body, aluminum internals, and Viton sealing member material for operation from -20° to 400°F. Cold working pressure is 125 PSIG.

| THIN WAFER | | | |
|------------|--------|-------|---------|
| SIZE | MODEL | LGTH | WGT |
| 3" | CVTW-3 | .562" | 9 lbs. |
| 4" | CVTW-4 | .656" | 12 lbs. |
| 5" | CVTW-5 | .725" | 20 lbs. |
| 6" | CVTW-6 | 0.687 | 22 lbs. |



Thin wafer tilting disc style check valves are designed to locate between standard ASME Class 150 flanges. The balanced thin disc design minimizes pressure drop. The Teflon seal material provides long service life. Aluminum body and internals for operation from -20° to 400°F. Cold working pressure is 50 PSIG.



Wika 213



1009



**1279
Ashcroft**



1377



Dwyer 762

LIQUID FILLED PRESSURE/VACUUM GAUGES

| MFG / SERIES | SIZE | RANGE | MODEL | MOUNTING | CASE | SOCKET | CONN | NPT | GRADE |
|-----------------|------|----------|--------------|----------|------------|--------|--------|------|---------|
| Wika / 213 | 2.5" | 0-15 PSI | 25-15-S-T.25 | THRD | SS | BRASS | BOTTOM | 1/4" | A 2.5% |
| Wika / 213 | 2.5" | 0-30 PSI | 25-30-S-T.25 | THRD | SS | BRASS | BOTTOM | 1/4" | A 2.5% |
| Wika / 213 | 2.5" | 30-0 Hg | 25-0-S-T.25 | THRD | SS | BRASS | BOTTOM | 1/4" | A 2.5% |
| Ashcroft / 1009 | 4.5" | 0-15 PSI | 45-15-SS-F.5 | FLANGE | SS | BRASS | BACK | 1/2" | 1A 1% |
| Ashcroft / 1009 | 4.5" | 0-30 PSI | 45-30-SS-F.5 | FLANGE | SS | BRASS | BACK | 1/2" | 1A 1% |
| Ashcroft / 1009 | 4.5" | 30-0 Hg | 45-0-SS-F.5 | FLANGE | SS | BRASS | BACK | 1/2" | 1A 1% |
| Ashcroft / 1377 | 4.5" | 0-15 PSI | 45-15-A-P.5 | PANEL | EPOXY/ALUM | BRASS | BACK | 1/2" | 2A 0.5% |
| Ashcroft / 1377 | 4.5" | 0-30 PSI | 45-30-A-P.5 | PANEL | EPOXY/ALUM | BRASS | BACK | 1/2" | 2A 0.5% |
| Ashcroft / 1377 | 4.5" | 30-0 Hg | 45-0-A-P.5 | PANEL | EPOXY/ALUM | BRASS | BACK | 1/2" | 2A 0.5% |
| Ashcroft / 1279 | 4.5" | 0-15 PSI | 45-15-P-T.5 | THRD | PHENOLIC | BRASS | BOTTOM | 1/2" | 2A 0.5% |
| Ashcroft / 1279 | 4.5" | 0-30 PSI | 45-30-P-T.5 | THRD | PHENOLIC | BRASS | BOTTOM | 1/2" | 2A 0.5% |
| Ashcroft / 1279 | 4.5" | 30-0 Hg | 45-0-P-T.5 | THRD | PHENOLIC | BRASS | BOTTOM | 1/2" | 2A 0.5% |
| Dwyer / 762 | 4.5" | 0-15 PSI | 45-15-P-T.25 | THRD | PHENOLIC | SS | BOTTOM | 1/4" | 2A 0.5% |
| Dwyer / 762 | 4.5" | 0-30 PSI | 45-30-P-T.25 | THRD | PHENOLIC | SS | BOTTOM | 1/4" | 2A 0.5% |
| Dwyer / 762 | 4.5" | 30-0 Hg | 45-0-P-T.25 | THRD | PHENOLIC | SS | BOTTOM | 1/4" | 2A 0.5% |

DIFFERENTIAL PRESSURE



AFG-1



Dwyer 5000



Dwyer 2000

DIFFERENTIAL PRESSURE FILTER CONDITION GAUGES

| MFG / SERIES | SIZE | RANGE | MODEL | MOUNTING | CASE | SOCKET | CONN | NPT | GRADE |
|--------------|------|----------|-------------|----------|----------|--------|--------|------|-------|
| Unimac / AFG | N/A | 0-20" WC | AFG-1 | THRD | POLY | POLY | BOTTOM | 1/8" | N/A |
| Dwyer / 5000 | 2.5" | 0-20" WC | 25-20-P-P.1 | THRD | PHENOLIC | BRASS | BACK | 1/8" | 5% |
| Dwyer / 2000 | 4.5" | 0-20" WC | 45-20-A-P.1 | THRD | ALUM | ALUM | BACK | 1/8" | 2% |

TEMPERATURE GAUGES



Ashcroft EI



TG35 & 45



Ashcroft 600A

TEMPERATURE GAUGES

| MFG / SERIES | SIZE | RANGE | MODEL | MOUNTING | CASE | BULB | CONN | NPT | GRADE |
|-----------------|------|---------|---------|------------|----------|--------|-------|------|-------|
| Unimac / TG35 | 3.5" | 50-350F | TG-35 | REMOTE 10' | SS | COPPER | UNION | 1/2" | 2% |
| Unimac / TG45 | 4.5" | 50-350F | TG-45 | REMOTE 10' | SS | COPPER | UNION | 1/2" | 2% |
| Ashcroft / EI | 3" | 50-550F | TG-EI | DIRECT | SS | SS | N/A | 1/2" | 1% |
| Ashcroft / 600A | 4.5" | 50-550F | TG-600A | REMOTE 30' | PHENOLIC | SS | UNION | 1/2" | 1% |



Barksdale D1



Ashcroft B400 P

| PRESSURE / VACUUM SWITCHES | | | | | |
|----------------------------|------|------------|---------------|---------|---|
| MFG / SERIES | NPT | RANGE | MODEL | NEMA | DESCRIPTION |
| Ashcroft / B400 | 1/2" | 0-15 PSI | PS-B400-15 | NEMA 4X | 15A 125/250 VAC, SPDT VARIABLE DEADBAND |
| Ashcroft / B400 | 1/2" | -30WC/30WC | PS-B400-30/30 | NEMA 4X | 15A 125/250 VAC, SPDT VARIABLE DEADBAND |
| Barksdale / D1H | 1/4" | 0.5-18 PSI | PS-D1H-30/30 | NEMA 4 | 10A 125/250 VAC, SPDT VARIABLE DEADBAND |
| Barksdale / D1X | 1/2" | 0.5-18 PSI | PS-D1X-30/30 | NEMA 7 | 10A 125/250 VAC, SPDT VARIABLE DEADBAND |



Barksdale MT1



Ashcroft B400 T

| TEMPERATURE SWITCHES | | | | | |
|----------------------|-----|----------|---------------|---------|---|
| MFG / SERIES | CAP | RANGE | MODEL | NEMA | DESCRIPTION |
| Ashcroft / B400 | 10' | 235-375F | TS-B400-15 | NEMA 4X | 15A 125/250 VAC, SPDT VARIABLE DEADBAND |
| Barksdale / MT1H | 6' | 150-350F | TS-MT1H-30/30 | NEMA 4 | 10A 125/250 VAC, SPDT VARIABLE DEADBAND |
| Barksdale / MT1X | 6' | 150-350F | TS-MT1X-30/30 | NEMA 7 | 10A 125/250 VAC, SPDT VARIABLE DEADBAND |

Weatherproof Sound enclosure systems with (4) walls and a pitched (or flat) roof are designed to be erected around existing blower packages. The addition of an acoustic enclosure can solve noise problems while still allowing access for service.

Standard Equipment

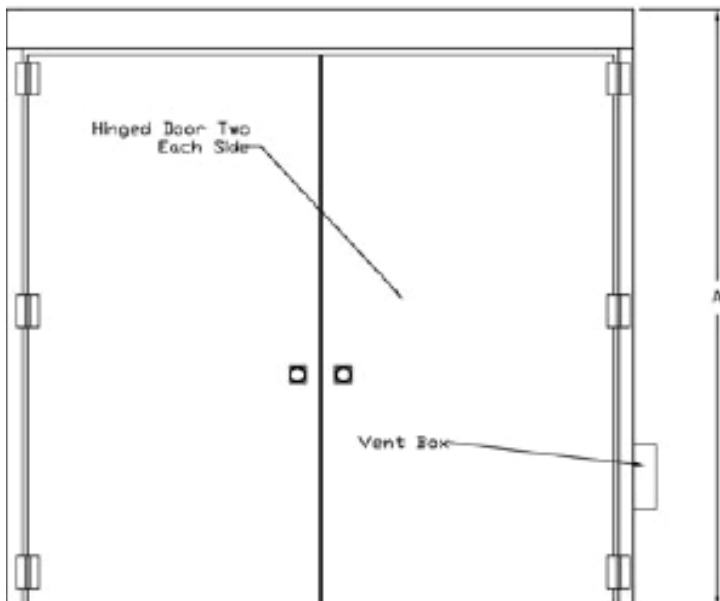
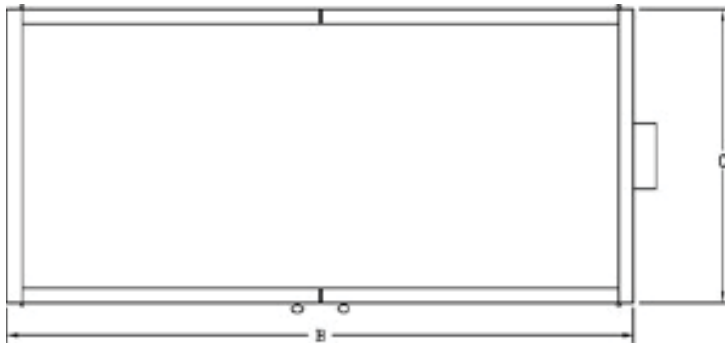
- Typical 20 dBA of attenuation
- Corrosion resistant aluminum panels
- 3 inch thick tongue & groove construction
- Lined with 2.75 inch thick acoustic grade foam
- Trim items and fasteners included
- Four (4) hinged doors
- Full service access from two sides
- Vent panels included
- Drawings & instructions included



Hinged Access Doors



Optional Vent Fan



| Dimensions | | | |
|-------------------|----------|----------|----------|
| MODEL | A | B | C |
| SAE-1 | 72 | 66 | 42 |
| SAE-2 | 78 | 84 | 48 |
| SAE-3 | 101 | 84 | 48 |
| SAE-4 | 102 | 108 | 54 |
| SAE-5 | 110 | 114 | 54 |

The above dimensions are external. When selecting a size allowance must be made for the panel thickness and clearance for the equipment. Optional vent fans sized for the specific application are available.



AA Series heat exchangers cool low pressure gas streams with ambient air.

Design Options:

Connection types: tube, pipe, flange, NPT, ferrule, etc

Materials of construction:

Core: aluminum

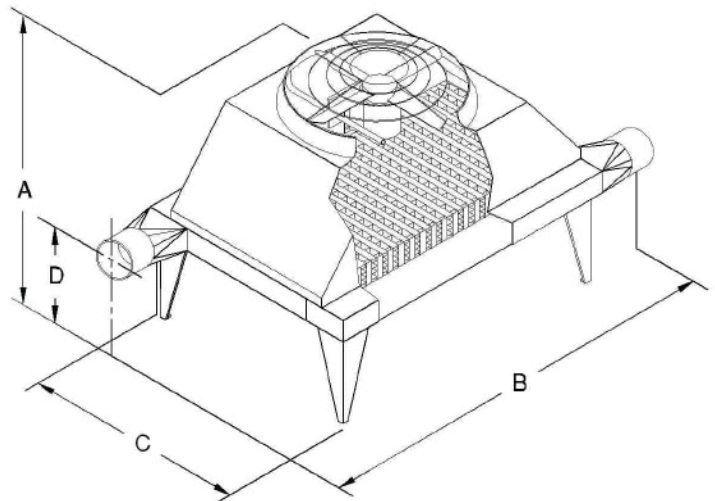
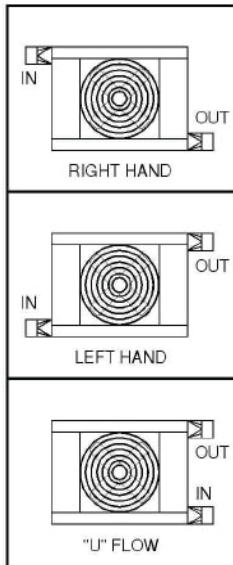
Epoxy phenolic coating for corrosion protection of the core

Propeller, venturi and shroud: aluminum, painted, galvanized, or stainless steel

Motors: any available

AA Series after coolers feature a TEFC 230/460 VAC, 3 phase motor, a heavy-duty cooling fan and an OSHA approved fan guard. The exhaust hood is galvanized steel, and the venturi frame is painted carbon steel.

The aluminum plate-fin core is furnace brazed with alternating finned flow channels. Process gas flows in horizontal channels, and ambient cooling air flows upward, through vertical channels. The process stream enters and exits through rectangular aluminum headers, which are welded to the core.



| AIR COOLED AFTER-COOLERS | | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|
| MODEL | AA-250 | AA-500 | AA-1000 | AA-1750 | AA-2000 | AA-2750 | AA-3500 |
| A | 33" | 33" | 35" | 35" | 41" | 44" | 46" |
| B | 32" | 40" | 66" | 66" | 66" | 66" | 66" |
| C | 24" | 24" | 36" | 36" | 36" | 36" | 36" |
| D | 14" | 14" | 16" | 17" | 18" | 20" | 21" |
| WGT | 140 lbs. | 160 lbs. | 250 lbs. | 310 lbs. | 440 lbs. | 470 lbs. | 620 lbs. |

UNIMAC

Unimac LP, founded on the principle of offering superior blower packages, has a history of innovation and excellence that sets standards for the industry. For twenty years Unimac LP has supplied blower packages on an international scope, with installations in the Middle East, Central and South America, Indonesia and the United States.

Our 16,000 sq. ft. shop is located on over an acre with an overhead crane, welding shop, metal-cutting saws and paint booth. A 600-amp test stand allows full load testing up to 250 HP and a VFD drive allows testing with 50 Hz power, common for international voltages.

Products are designed using Autodesk INVENTOR 2009, and manufactured in house, adhering to standardized quality control procedures. Critical steps in the fabrication process such as cutting, welding, piping, wiring and painting are performed by fabricator-welders, mechanics and technicians experienced in their craft with a proven track record of success in producing quality equipment. The end result is a consistent level of high quality that ships on time and performs as expected.

Pre-designed packages range from bare bones "Base Mounted" to "Quiet Enclosed" for maximum noise attenuation. By standardizing our designs we can streamline the whole manufacturing process, providing an excellent value with faster delivery. Our products incorporate innovative design concepts with added features to improve reliability, extend useful life, and make routine service easier. Attention to detail and an exceptional level of construction quality are evident throughout our products.

Sizes from 1 to 27,000 CFM • Pressures to 40 PSI • Vacuum to 27" Hg • Combined Pressure-Vacuum



Base Mounted



Table Top



Clam Shell



Quiet Enclosed



Gas Booster

