



Complete Product Range





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BECKER VACUUM PUMPS, COMPRESSORS, REGENERATIVE BLOWERS, and CENTRAL SYSTEMS

Becker's North American headquarters
in Cuyahoga Falls, Ohio



WHY BECKER?

Look no
further than
Becker for
the solution
to your
problems

EXPERIENCE

Becker, founded in 1885, has been making vacuum pumps longer than most other pump manufacturers currently on the market. We were the first to develop several technologies that are today's standards. It is on this experience from which we draw when applying the correct product for your application.

FLEXIBILITY

Becker manufactures vacuum pumps in a number of basic designs that can fit your needs exactly. No longer do you have to settle for a pump that is a compromise. Our product line includes:

- 100% Oil-less vacuum pumps, capable of operation to 27" HgV, depending on model.
- Oil-flooded vacuum pumps, for operation to 29.83 in. HgV (2 torr abs.) with the SA version, or 29.9 in. HgV (0.4 torr abs.) with the F version.
- Combined pressure/vacuum pumps, capable of operation to 9 PSIG and 18" HgV—simultaneously!

- Low pressure oil-less compressors, for operation to 25 PSIG.
- Single and two stage regenerative blowers, with or without variable speed control. Oil-less, of course.
- Central vacuum systems in both 100% oil-less and oil-flooded designs for general industrial, medical/surgical, laboratory applications with automatic-purge, and router table hold down are available.

HIGH QUALITY

Becker is ISO 9001 certified, the highest international quality level attainable. In addition, all Becker pumps are CE compliant.

SALES and SERVICE

Becker has a nationwide network of sales offices and service centers. Chances are, we have someone near you.

You need to look no further than Becker for the solution to your problems.



Series Rotary Vane Oil-less Vacuum Pumps



• **20,000 Hour/3 year guaranteed vane life—
World's longest!**

- Continuous duty rated
- 100% Oil-less operation
- Improved performance
- Quiet
- Cool operation
- Inlet filters included
- Discharge silencers
- Direct drive
- Vacuum regulators included
- Minimal maintenance

DRY

| MODEL | CFM Open Flow | Max. Cont. Vacuum (in. Hg) | HP/kW (3~) | Wt. (lbs.) |
|---------------|------------------|-------------------------------|---------------|---------------|
| VX 4.10 | 7.1 | 27 | 0.6/0.45 | 35 |
| VX 4.16 | 11.2 | 27 | 0.94/0.7 | 50 |
| VX 4.25 | 17.7 | 27 | 1.2/0.9 | 57 |
| VX 4.40 | 28.2 | 27 | 2/1.5 | 85 |
| KVX 3.60 | 39 | 27 | 4/3 | 152 |
| KVX 3.80 | 46 | 27 | 4/3 | 152 |
| KVX 3.100 | 66 | 27 | 4.7/3.5 | 223 |
| KVX 3.140 | 91 | 24 | 6.4/4.8 | 245 |
| VXLF 2.200 | 128 | 24 | 6.4/4.8 | 617 |
| VXLF 2.250 | 168 | 24 | 8.6/6.4 | 551 |
| VXLF 2.250 SK | 174 | 27 | 12.5/9.3 | 569 |
| VXLF 400 | 264 | 24 | 16.8/12.5 | 1092 |
| VXLF 500 SK | 353 | 22.5 | 22.1/16.5 | 1103 |



Series Rotary Vane Oil-less Compressors



• **20,000 Hour/3 year *guaranteed* vane life—
World's longest!**

- Continuous duty rated
- 100% Oil-less operation
- Improved performance
- Quiet
- Cool operation
- Aftercooler included (K models)
- Direct drive
- Inlet filter standard
- Pressure regulator included
- Minimal maintenance

DRY

| MODEL | CFM Open Flow | Max. Cont. Pressure (PSIG) | HP/kW (3~) | Wt. (lbs.) |
|--------------|------------------|-------------------------------|---------------|---------------|
| DX 4.10 | 7.1 | 15 | 0.6/0.45 | 35 |
| DX 4.16 | 11.2 | 15 | 0.94/0.7 | 52 |
| DX 4.25 K | 17.7 | 15 | 1.7/1.3 | 81 |
| DX 4.40 K | 28.3 | 15 | 3/2.2 | 101 |
| KDX 3.60 | 37 | 22* | 4.7/3.5* | 176* |
| KDX 3.80 | 45 | 22* | 6.4/4.8* | 187* |
| KDX 3.100 | 69 | 22* | 8.6/6.4* | 284* |
| KDX 3.140 | 90 | 22* | 12.5/9.3* | 309* |
| DXLF 2.200 | 127 | 22* | 11.5/8.6* | 551* |
| DXLF 2.250 | 173 | 22* | 17/12.7* | 651* |
| DXLF 2.250 K | 167 | 26* | 24.1/18* | 739* |
| DXLF 400 | 264 | Contact the factory | | |
| DXLF 500 | 353 | Contact the factory | | |



* Smaller motors available. Motor size relates to max. pressure.
Data shown with motor sized for operation at max. pressure.

Rotary Vane Oil-less Vacuum Pumps



- 100% Oil-less operation
- Quiet
- Cool operation
- Long vane life
- Inlet filters included
- Discharge silencers
- Direct drive
- Vacuum regulators included
- Minimal maintenance
- Continuous duty rated



DRY



| MODEL | CFM Open Flow | Max. Cont. Vacuum (in. Hg) | HP/kW | Wt. (lbs.) |
|---------------|------------------|-------------------------------|-----------|---------------|
| VT 4.4 | 2.8 | 25.5 | 0.3/0.21 | 15 |
| VT 4.8 | 5.4 | 25.5 | 0.6/0.44 | 25 |
| VT 4.10 | 7.1 | 25.5 | 0.6/0.44 | 35 |
| VT 4.16 | 11.2 | 25.5 | 0.9/0.7 | 50 |
| VT 4.25 | 17.7 | 25.5 | 1.2/0.9 | 57 |
| VT 4.40 | 28.2 | 25.5 | 2/1.5 | 85 |
| KVT 3.60 | 39 | 27 | 3/2.2 | 152 |
| KVT 3.80 | 46 | 27 | 5/3.6 | 178 |
| KVT 3.100 | 66 | 27 | 5/3.6 | 230 |
| KVT 3.140 | 91 | 24 | 7.5/5.6 | 320 |
| VTLF 2.200 | 128 | 24 | 6.4/4.8 | 617 |
| VTLF 2.250 | 168 | 24 | 8.6/6.4 | 551 |
| VTLF 2.250 SK | 174 | 27 | 12.5/9.3 | 573 |
| VTLF 2.360 | 237 | 22.5 | 17.7/13.2 | 569 |
| VTLF 400 | 265 | 24 | 16.8/12.5 | 1092 |
| VTLF 500 SK | 353 | 22.5 | 22.1/16.5 | 1103 |

Rotary Vane Oil-less Compressors



- 100% Oil-less operation
- Quiet
- Cool operation
- Aftercooler included (K models)
- Direct drive
- Long vane life
- Inlet filter standard
- Pressure regulator included
- Minimal maintenance
- Continuous duty rated

DRY

| MODEL | CFM Open Flow | Max. Cont. Pressure (PSIG) | HP/kW | Wt. (lbs.) |
|--------------|------------------|-------------------------------|-----------|---------------|
| DT 4.4 | 2.8 | 15 | 0.3/0.21 | 15 |
| DT 4.8 | 5.6 | 15 | 0.6/0.42 | 25 |
| DT 4.10 | 7.1 | 15 | 0.6/0.45 | 35 |
| DT 4.16 | 11.2 | 15 | 1/0.75 | 52 |
| DT 4.25 K | 17.7 | 15 | 1.7/1.3 | 81 |
| DT 4.40 K | 28.2 | 15 | 3/2.2 | 101 |
| KDT 3.60 | 37 | 22 | 5/3.6 | 191 |
| KDT 3.80 | 45 | 22 | 7.5/5.6 | 265 |
| KDT 3.100 | 69 | 22 | 10/7.5 | 323 |
| KDT 3.140 | 90 | 22 | 12/9 | 368 |
| DTLF 2.200 | 127 | 22 | 16.8/12.5 | 706 |
| DTLF 2.250 | 173 | 22 | 24.1/18 | 717 |
| DTLF 2.250 K | 167 | 26 | 24.1/18 | 739 |
| DTLF 400 | 264 | Contact the factory | | |
| DTLF 500 | 353 | Contact the factory | | |



Variair Variable Speed Rotary Vane Vacuum Pumps



- **X-Series: 20,000 Hour/3 year guaranteed vane life—World's longest!**
- Patented intelligent variable speed controller
- Continuous duty rated
- 100% Oil-less operation
- Quiet
- Compact
- Extended vane life
- 5:2 flow ratio
- Integrated inlet filters
- Minimal maintenance
- Maintains constant pressure

DRY

| MODEL* | Max. CFM Open Flow | Max. Vacuum (In. Hg) | HP/kW | Wt. (lbs.) |
|----------------------|-----------------------|-------------------------|--------|---------------|
| VAU VT 4.40/0-400 | 24 | 25.5 | 2/1.5 | 93 |
| VAU KVT 3.100/0-400 | 66 | 27 | 5.4/4 | 232 |
| VAU VTLF 2.250/0-400 | 165 | 24 | 10/7.5 | 595 |



X-Series

| MODEL* | Max. CFM Open Flow | Max. Vacuum (In. Hg) | HP/kW | Wt. (lbs.) |
|----------------------|-----------------------|-------------------------|---------|---------------|
| VAU VX 4.40/0-400 | 24** | 25.5** | 2/1.5** | 93** |
| VAU KVX 3.100/0-400 | 66** | 27** | 5.4/4** | 232** |
| VAU VXLF 2.250/0-400 | 165 | 24 | 10/7.5 | 595 |

* Models are voltage specific. Contact factory for availability.

** Contact factory for details

Variair Variable Speed Rotary Vane Compressors



- **X-Series: 20,000 Hour/3 year *guaranteed* vane life—World's longest!**
- Patented intelligent variable speed controller
- Continuous duty rated
- 100% Oil-less operation
- Quiet
- Extended vane life
- Compact
- 5:2 flow ratio
- Integrated inlet filters
- Maintains constant pressure
- Minimal maintenance

DRY

| MODEL* | Max. CFM Open Flow | Max. Pressure (PSIG) | HP/kW | Wt. (lbs.) |
|--------------------|-----------------------|-------------------------|-------|---------------|
| VAU DT 4.40/0-400 | 25 | 15 | 3/2.2 | 108 |
| VAU KDT 3.80/0-400 | 47 | 22 | 5.4/4 | 196 |



X-Series

| MODEL* | Max. CFM Open Flow | Max. Pressure (PSIG) | HP/kW | Wt. (lbs.) |
|--------------------|-----------------------|-------------------------|---------|---------------|
| VAU DX 4.40/0-400 | 25** | 15** | 3/2.2** | 108** |
| VAU KDX 3.80/0-400 | 47** | 22** | 5.4/4** | 196** |

* Models are voltage specific. Contact factory for availability.

** Contact factory for details

VARI AIR



Series Oil-less Combined Vacuum & Pressure Pumps



• **20,000 Hour/3 year *guaranteed vane life*—
World's longest!**

- Adjust vacuum flow and pressure flow simultaneously with the ability to adjust either without loss of performance.
- No need to purchase separate pumps for vacuum and pressure for the same application.
- 100% Oil-less operation
- Minimal maintenance
- Continuous duty rated
- Separate inlet filters for each port
- Discharge silencers
- Direct drive
- Vacuum and pressure regulators included

DRY

| MODEL | CFM Open Flow | Max. Vac. (In. Hg)* | Max. Pr. (PSIG)* | HP/kW | Wt. (lbs.) |
|------------|------------------|------------------------|---------------------|----------|---------------|
| X 4.16 DV | 11.8 | 15 | 7.5 | 0.9/0.7 | 53 |
| X 4.25 DSK | 17.7 | 18 | 9 | 1.7/1.3 | 77 |
| X 4.40 DSK | 25.3 | 18 | 9 | 3/2.2 | 101 |
| DVX 3.60 | 41 | 18 | 9 | 4.7/3.5 | 157 |
| DVX 3.80 | 48 | 18 | 9 | 6.4/4.8 | 159 |
| DVX 3.100 | 71 | 18 | 9 | 8.6/6.4 | 284 |
| DVX 3.140 | 94 | 18 | 9 | 12.5/9.3 | 309 |

| | | | | | |
|-------------|----|-------|---|----------|-----|
| DVX 3.80 R | 48 | 15/12 | 9 | 6.4/4.8 | 165 |
| DVX 3.100 R | 71 | 15/12 | 9 | 8.6/6.4 | 290 |
| DVX 3.140 R | 94 | 15/12 | 9 | 12.5/9.3 | 315 |

* Maximum vacuum and pressure when operated simultaneously. Contact factory for other conditions.



Rotary Vane Oil-less Combined Vacuum & Pressure Pumps



- 100% Oil-less operation
- Quiet
- Direct drive
- No need to purchase separate pumps for vacuum and pressure for the same application.
- Adjust vacuum flow and pressure flow simultaneously with the ability to adjust either without loss of performance.
- Separate inlet filters for each port
- Vacuum and pressure regulators included
- Minimal maintenance

DRY

| MODEL | CFM Open Flow | Max. Vac. (In. Hg)* | Max. Pr. (PSIG)* | HP/kW | Wt. (lbs.) |
|------------|------------------|------------------------|---------------------|---------|---------------|
| T 4.16 DV | 11.8 | 15 | 7.5 | 0.9/0.7 | 53 |
| T 4.25 DSK | 17.7 | 18 | 9 | 1.7/1.3 | 77 |
| T 4.40 DSK | 25.3 | 18 | 9 | 3/2.2 | 101 |
| DVT 3.60 | 41 | 18 | 9 | 5/3.6 | 175 |
| DVT 3.80 | 48 | 18 | 9 | 5/3.6 | 240 |
| DVT 3.100 | 71 | 18 | 9 | 7.5/5.6 | 306 |
| DVT 3.140 | 94 | 18 | 9 | 10/7.5 | 392 |

| | | | | | |
|-------------|----|-------|---|---------|-----|
| DVT 3.80 R | 48 | 15/12 | 9 | 5/3.6 | 245 |
| DVT 3.100 R | 71 | 15/12 | 9 | 7.5/5.6 | 310 |
| DVT 3.140 R | 94 | 15/12 | 9 | 10/7.5 | 398 |

* Maximum vacuum and pressure when operated simultaneously. Contact factory for other conditions.



Rotary Vane Oil-Flooded Vacuum Pumps

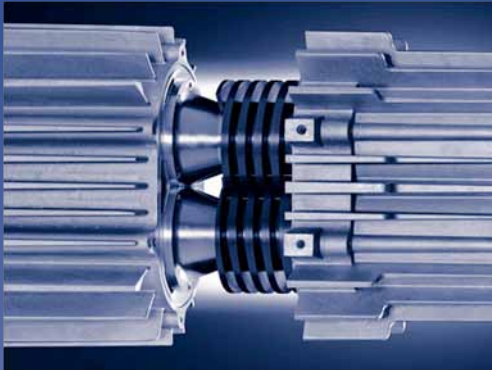


- Vacuum to 29.9 in. Hg (0.4 Torr)
- Quiet
- Highly efficient
- Compact
- Direct drive
- Semi-synthetic oil standard
- Gas ballast optional
- Cool running
- Multi-stage oil separation system—99.9+% efficient

| MODEL | CFM Open Flow | Ultimate Pressure (Torr/In. HgV*) | HP/kW | Wt. (lbs.) |
|------------|------------------|--------------------------------------|---------|---------------|
| U 3.6 SA | 4.4 | 2.3/29.83 | 0.4/0.3 | 31 |
| U 4.20 | 12.4 | 1.5/29.9 | 0.9/0.7 | 44 |
| U 4.40 | 28.2 | 0.5/29.91 | 2.4/1.8 | 84 |
| U 4.70 SA | 44 | 2.3/29.83 | 3/2.2 | 119 |
| U 4.70 F | 44 | 0.4/29.91 | 3/2.2 | 119 |
| U 4.100 SA | 69 | 2.3/29.83 | 5/3.6 | 170 |
| U 4.100 F | 69 | 0.4/29.91 | 5/3.6 | 170 |
| U 4.165 SA | 112 | 2.3/29.83 | 5/3.6 | 284 |
| U 4.165 F | 112 | 0.4/29.91 | 5/3.6 | 284 |
| U 4.190 SA | 131 | 2.3/29.83 | 7.5/5.5 | 359 |
| U 4.190 F | 131 | 0.4/29.91 | 7.5/5.5 | 359 |
| U 4.250 SA | 162 | 2.3/29.83 | 10/7.5 | 393 |
| U 4.250 F | 162 | 0.4/29.91 | 10/7.5 | 393 |
| U 4.400 SA | 299 | 2.3/29.83 | 15/11 | 882 |
| U 4.400 F | 299 | 0.4/29.91 | 15/11 | 882 |
| U 4.630 SA | 431 | 2.3/29.83 | 25/18.7 | 1157 |
| U 4.630 F | 431 | 0.4/29.91 | 25/18.7 | 1157 |

* Based on standard barometric pressure of 29.92 in. Hg

VADS Dry Screw Vacuum Pumps and Compressors



- Continuous operation at 0.4 Torr
- High volume flow at low absolute pressure
- Ultimate pressure reached quickly
- Cyclical operation possible
- Long service intervals
- Minimal and easy maintenance
- Low cost of ownership
- Environmentally friendly

DRY

| | MODEL | CFM Range Open Flow | Ult. Pressure (Torr) | HP/kW | Wt. (lbs.) |
|---------------|----------|------------------------|-------------------------|------------|---------------|
| Vacuum | VADS 250 | 87-174 | ≤0.4 | 4-10/3-7.5 | 616 |



- Dry operation
- Direct drive - No drive transmission
- Variable speed controlled
- 2:1 speed regulation
- Sound enclosure standard

DRY

| | MODEL | CFM Range Open Flow | Max. Vac. (In. Hg) | Max. Pr. (PSIG) | HP/kW | Wt. (lbs.) |
|-----------------|-----------|------------------------|-----------------------|--------------------|-------|---------------|
| Vacuum | VADS 1500 | 460-840 | 24 | — | 50/38 | 2318 |
| Pressure | VADS 1500 | 460-840 | — | 15 | 60/45 | 2318 |

VARI AIR

Regenerative Single Stage Blowers for Vacuum



- 100% Oil-less operation
- Quiet
- Compact
- High performance
- Integrated inlet filter (7 & 8 series)
- Integrated vacuum relief valve (7 & 8 series)
- Contact-less
- Minimal maintenance
- Convertible to two stage operation

DRY

| MODEL | CFM Open Flow | Max. Vacuum (In. H ₂ O) | HP*/kW | Wt. (lbs.) |
|-------------|------------------|---------------------------------------|-----------|---------------|
| SV 5.90/1 | 54 | 32 | 0.6/0.44 | 29 |
| SV 8.130/1 | 86 | 90 | 2/1.5 | 53 |
| SV 8.160/1 | 100 | 88 | 2.4/1.8 | 53 |
| SV 8.190/1 | 128 | 112 | 3.2/2.4 | 66 |
| SV 5.250/1 | 148 | 56 | 2.4/1.8 | 62 |
| SV 5.300/1 | 232 | 141 | 8.9/6.6 | 196 |
| SV 7.330/1 | 200 | 108 | 4.8/3.6 | 132 |
| SV 7.380/1 | 253 | 100 | 6.4/4.8 | 115 |
| SV 8.400/1 | 288 | 129 | 8.9/6.6 | 173 |
| SV 7.430/1 | 290 | 90 | 6.4/4.8 | 132 |
| SV 5.490/1 | 344 | 108 | 8.9/6.6 | 209 |
| SV 5.690/1 | 527 | 106 | 12.1/9 | 242 |
| SV 5.1050/1 | 739 | 100 | 17.7/13.2 | 247 |

* Models are available with various HP motors to meet application requirements. Contact factory.

Regenerative Two Stage Blowers for Vacuum



- 100% Oil-less operation
- Quiet
- Compact
- High performance
- Integrated inlet filter (7 & 8 series)
- Integrated vacuum relief valve (7 & 8 series)
- Contact-less
- Minimal maintenance
- Convertible to single stage operation

DRY

| MODEL | CFM Open Flow | Max. Vacuum (In. H ₂ O) | HP*/kW | Wt. (lbs.) |
|----------------|------------------|---------------------------------------|----------|---------------|
| SV 5.90/2 | 29 | 96 | 0.6/0.44 | 29 |
| SV 8.130/2 | 44 | 140 | 2/1.5 | 54 |
| SV 8.160/2 | 56 | 130 | 2/1.5 | 54 |
| SV 8.190/2 | 69 | 150 | 3.2/2.5 | 68 |
| SV 5.250/2 | 94 | 123 | 2.4/1.8 | 62 |
| SV 7.330/2 | 111 | 160 | 4.8/3.6 | 133 |
| SV 8.400/2 | 147 | 171 | 8.8/6.6 | 175 |
| SV 8.400/2-501 | 153 | 185 | 6.4/4.8 | 173 |
| SV 7.430/2 | 171 | 120 | 4.8/3.6 | 133 |
| SV 5.690/2 | 256 | 161 | 12.1/9 | 211 |

* Models are available with various HP motors to meet application requirements. Contact factory.

Regenerative Single Stage Blowers for Pressure



- 100% Oil-less operation
- Quiet
- Compact
- High performance
- Integrated inlet filter (7 & 8 series)
- Integrated pressure relief valve (7 & 8 series)
- Contact-less
- Minimal maintenance
- Convertible to two stage operation

DRY

| MODEL | CFM Open Flow | Max. Pressure (In. H ₂ O) | HP*/kW | Wt. (lbs.) |
|-------------|------------------|---|-----------|---------------|
| SV 5.90/1 | 52 | 28.1 | 0.6/0.44 | 29 |
| SV 8.130/1 | 86 | 100 | 2/1.5 | 53 |
| SV 8.160/1 | 100 | 90 | 2.4/1.8 | 53 |
| SV 8.190/1 | 128 | 102 | 3.2/2.4 | 66 |
| SV 5.250/1 | 148 | 48 | 2.4/1.8 | 62 |
| SV 5.300/1 | 232 | 161 | 8.9/6.6 | 196 |
| SV 7.330/1 | 197 | 146 | 6.4/4.8 | 132 |
| SV 7.380/1 | 252 | 110 | 6.4/4.8 | 115 |
| SV 8.400/1 | 288 | 125 | 8.9/6.6 | 173 |
| SV 7.430/1 | 290 | 84 | 6.4/4.8 | 132 |
| SV 5.490/1 | 344 | 148 | 12.1/9 | 232 |
| SV 5.690/1 | 527 | 158 | 17.7/13.2 | 247 |
| SV 5.1050/1 | 739 | 102 | 24.1/18 | 282 |

* Models are available with various HP motors to meet application requirements. Contact factory.

Regenerative Two Stage Blowers for Pressure



- 100% Oil-less operation
- Quiet
- Compact
- High performance
- Integrated inlet filter (7 & 8 series)
- Integrated pressure relief valve (7 & 8 series)
- Contact-less
- Minimal maintenance
- Convertible to single stage operation

DRY

| MODEL | CFM Open Flow | Max. Pressure (In. H ₂ O) | HP*/kW | Wt. (lbs.) |
|------------|------------------|---|----------|---------------|
| SV 5.90/2 | 29.4 | 90 | 0.6/0.44 | 29 |
| SV 8.130/2 | 44 | 160 | 2/1.5 | 54 |
| SV 8.160/2 | 56 | 126 | 2/1.5 | 54 |
| SV 8.190/2 | 69 | 200 | 3.2/2.4 | 68 |
| SV 5.250/2 | 94 | 115 | 2.4/1.8 | 62 |
| SV 7.330/2 | 111 | 200 | 4.8/3.6 | 133 |
| SV 8.400/2 | 147 | 236 | 8.9/6.6 | 175 |
| SV 7.430/2 | 171 | 160 | 6.4/4.8 | 133 |
| SV 5.690/2 | 256 | 181 | 12.1/9 | 211 |

* Models are available with various HP motors to meet application requirements. Contact factory.

Variair Regenerative Blowers for Vacuum



- 100% Oil-less operation
- Patented intelligent variable speed controller
- 20:1 flow ratio
- Quiet
- Compact
- High performance
- Integrated inlet filter
- Contact-less
- Minimal maintenance
- Maintains constant vacuum level

DRY

| | MODEL* | Max. CFM Open Flow | Max. Vacuum (In. H ₂ O) | HP/kW | Wt. (lbs.) |
|----------------|--------------------|-----------------------|---------------------------------------|--------|---------------|
| 1-Stage | VAU SV 8.130/1-401 | 138 | 100 | 5.3/4 | 70 |
| | VAU SV 8.190/1-401 | 188 | 108 | 5.3/4 | 77 |
| | VAU SV 7.330/1-401 | 306 | 133 | 10/7.5 | 133 |

| | | | | | |
|----------------|--------------------|-----|-----|--------|-----|
| 2-Stage | VAU SV 8.130/2-401 | 76 | 153 | 5.3/4 | 72 |
| | VAU SV 8.190/2-401 | 103 | 153 | 5.3/4 | 77 |
| | VAU SV 7.330/2-401 | 171 | 181 | 10/7.5 | 133 |

* Inverter is voltage specific. Contact factory for availability.

** Contact factory for details

Variair Regenerative Blowers for Pressure



- 100% Oil-less operation
- Patented intelligent variable speed controller
- 20:1 flow ratio
- Quiet
- Compact
- High performance
- Integrated inlet filter
- Contact-less
- Minimal maintenance
- Maintains constant pressure

DRY

| | MODEL* | Max. CFM Open Flow | Max. Pressure (In. H ₂ O) | HP/kW | Wt. (lbs.) |
|----------------|--------------------|-----------------------|---|--------|---------------|
| 1-Stage | VAU SV 8.130/1-401 | 138 | 153 | 5.3/4 | 70 |
| | VAU SV 8.190/1-401 | 188 | 153 | 5.3/4 | 77 |
| | VAU SV 7.330/1-401 | 306 | 181 | 10/7.5 | 133 |
| 2-Stage | VAU SV 8.130/2-401 | 76 | 221 | 5.3/4 | 72 |
| | VAU SV 8.190/2-401 | 103 | 201 | 5.3/4 | 77 |
| | VAU SV 7.330/2-401 | 171 | 221 | 10/7.5 | 133 |

* Inverter is voltage specific. Contact factory for availability.

** Contact factory for details

VARIAIR

VASF Compact High-Performance Regenerative Blowers



- 100% Oil-less operation
- Patented intelligent variable speed controller
- Compact, slim in-line design
- Extremely small size and low weight
- High flows at high pressures
- Wide operating range
- Contact-free operation
- Variable speed drive motor
- Integrated frequency converter and control
- Gas-tight version available

DRY

| | VACUUM MODEL* | Max. CFM Open Flow | Max. Vacuum (In. H ₂ O) | HP/kW (1 ph.) | Wt. (lbs.) |
|----------------|------------------|-----------------------|---------------------------------------|------------------|---------------|
| 1-Stage | VASF 1.50/1 | 27.7 | 88* | 0.7/0.5 | 15.4 |
| | VASF 1.80/1 | 44 | 94* | 1.1/0.8 | 31 |
| | VASF 1.120/1 | 67 | 73*/88** | 2.2/1.7 | 53 |
| 2-Stage | VASF 1.50/2 | 14.2 | 151* | 0.7/0.5 | 15.4 |
| | VASF 1.80/2 | 22 | 151* | 1.1/0.8 | 31 |
| | VASF 1.120/2 | 38 | 127* | 2.2/1.7 | 53 |

| | PRESSURE MODEL* | Max. CFM Open Flow | Max. Pressure (In. H ₂ O) | HP/kW (1 ph.) | Wt. (lbs.) |
|----------------|--------------------|-----------------------|---|------------------|---------------|
| 1-Stage | VASF 1.50/1 | 27.7 | 93* | 0.7/0.5 | 15.4 |
| | VASF 1.80/1 | 44 | 104* | 1.1/0.8 | 31 |
| | VASF 1.120/1 | 67 | 82*/110** | 2.2/1.7 | 53 |
| 2-Stage | VASF 1.50/2 | 14.2 | 166* | 0.7/0.5 | 15.4 |
| | VASF 1.80/2 | 22 | 169* | 1.1/0.8 | 31 |
| | VASF 1.120/2 | 38 | 145*/171** | 2.2/1.7 | 53 |

* 100-240V; 1-phase; 50/60 Hz

** 200-240V; 1-phase; 50/60 Hz

SVw Water-Cooled Regenerative Blowers



- 100% Oil-less operation
- Patented intelligent variable speed controller
- Near isothermal compression
- High flows at high pressures
- Wide operating range
- Contact-free operation
- Integrated frequency converter
- 1, 2, and 4-Stage units
- Housing, bearings, motor, exhaust, and VFD, all water-cooled.

DRY

| | VACUUM MODEL* | Max. CFM Open Flow | Max. Vacuum (In. H ₂ O/in. HgV) | HP/kW (3 ph.) | Wt. (lbs.) |
|---------|------------------|-----------------------|---|------------------|---------------|
| 1-Stage | SVw 190/1 | 224 | 116/8.5 | 5.3/4 | 104 |
| | SVw 380/1 | 413 | 114/8.4 | 7.5/10 | 163 |
| 2-Stage | SVw 190/2 | 106 | 230/16.9 | 2.2/1.7 | 104 |
| | SVw 380/2 | 206 | 232/17 | 10/7.5 | 163 |
| 4-Stage | SVw 380/4 | 106 | 366/27 | 10/7.5 | 163 |

| | PRESSURE MODEL* | Max. CFM Open Flow | Max. Pressure (In. H ₂ O/PSIG) | HP/kW (3 ph.) | Wt. (lbs.) |
|---------|--------------------|-----------------------|--|------------------|---------------|
| 1-Stage | SVw 190/1 | 224 | 110/3.9 | 5.3/4 | 104 |
| | SVw 380/1 | 413 | 116/4 | 7.5/10 | 163 |
| 2-Stage | SVw 190/2 | 106 | 214/7.6 | 2.2/1.7 | 104 |
| | SVw 380/2 | 206 | 236/8.4 | 10/7.5 | 163 |
| 4-Stage | SVw 380/4 | 106 | 427/15 | 10/7.5 | 163 |

* Inverter is voltage specific. Contact factory for availability.

VARI-AIR

Rotary Vane Central Vacuum Systems



- **X-Series: 4 year, bumper-to-bumper warranty!**
World's longest lasting dry vanes!
- Tank mounted or modular/expandable arrangements
- Field expandable up to six pumps
- Compact
- Automatic alternating and cascading controls
- Most models fit through 36" doorway
- 18 to over 2600 CFM capacities

Advantage-X

Advantage-X systems are our best: 100% oil-less central vacuum systems supplied with the **world's longest lasting** dry vane technology. They are ideal for medical/surgical or general industrial applications that require operating vacuum levels from atmosphere to as high as 27 in. Hg. These applications are typically those that involve air or inert gases, or moderate amounts of water vapor. Medical/surgical systems meet current NFPA 99 requirements. **4-year, bumper-to-bumper warranty.**

Advantage-D

Advantage-D systems are 100% oil-less central vacuum systems for medical/surgical or general industrial applications that require operating vacuum levels from atmosphere to as high as 27 in. Hg. These applications are typically those that involve air or inert gases, or moderate amounts of water vapor. Medical/surgical systems meet current NFPA 99 requirements.

Advantage-L

Advantage-L systems employ our "U" series oil-flooded pumps for applications that require operation at higher vacuum levels, up to 29.9 in. Hg (0.5 torr). These applications include medical/surgical, laboratory, material handling, and other industrial processes. Available NFPA 99 compliant for medical/surgical use.

Advantage-P

Advantage-P systems employ our "U" series oil-flooded pumps and include our auto-purge process to purge potentially corrosive or flammable gases when the system shuts down. Advantage-P systems are ideal for use in laboratories or applications where there is potential for ingesting corrosive or flammable gases.

Advantage-W

Advantage-W systems are specifically designed to meet the requirements of manufacturers that use vacuum hold-down for router tables in the woodworking and other related industries. They are available in duplex or triplex designs, and can be supplied with up to triple the normal inlet filtration to ensure clean air and long pump life, and to minimize filter maintenance.

Accessories



- Inlet Filters
- Filter/Separators
- Liquid separators
- Vacuum pump oil
- Vacuum grease and grease guns
- Vacuum gauges:
 - Analog and digital
 - Relative and absolute pressure
- Silencers
- Sound reducing enclosures
- Eductors
- ... and more



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