



# atac

ATAC Solutions Ltd is a leading environmental engineering company based in Maidstone, United Kingdom.

ATAC Solutions is known for its state-of-the-art liquid collection fleet and its expertise in providing bespoke turnkey wastewater process solutions.

With a focus on sustainability and accreditation in ISO 9001 & ISO 14001, the company serves domestic and industrial clients across the South-East and London.

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Axiom Water companies







**Complete Product Range**





**Becker Pumps Corp.**  
**100 East Ascot Lane**  
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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	Please contact factory		
DXLF 500	353	Please contact 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	Please contact factory		
DTLF 500	353	Please contact 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**

# 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

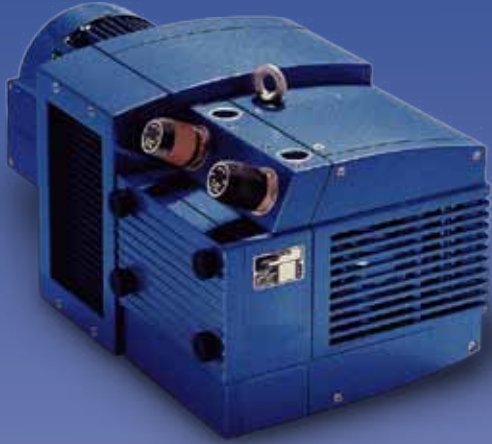
\* Maximum vacuum and pressure when operated simultaneously. Contact factory for other conditions.







# 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-Flooded Vacuum Pumps

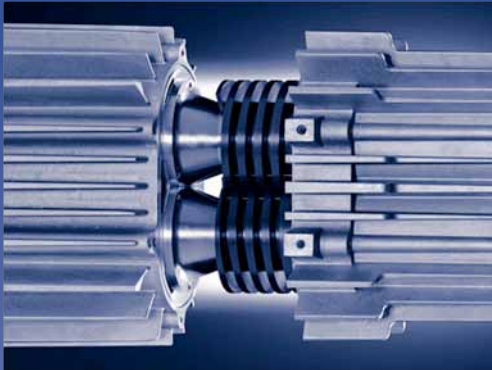


- Vacuum to 29.9 in. Hg (0.4 Torr)
- Quiet
- Highly efficient
- Compact
- Direct drive
- Semi-synthetic oil standard
- Gas ballast optional
- Cool running
- Multi-stage oil separation system—99.9+% efficient

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.)
<b>Vacuum</b>	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.)
<b>Vacuum</b>	VADS 1500	460-840	24	—	50/38	2318
<b>Pressure</b>	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 <sub>2</sub> 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	108
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	117
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 <sub>2</sub> 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	88
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	88
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 <sub>2</sub> 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	115
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	117
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 <sub>2</sub> 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	88
SV 8.400/2	147	236	8.9/6.6	175
SV 7.430/2	171	160	6.4/4.8	88
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 <sub>2</sub> O)	HP/kW	Wt. (lbs.)
<b>1-Stage</b>	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

<b>2-Stage</b>	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 <sub>2</sub> O)	HP/kW	Wt. (lbs.)
<b>1-Stage</b>	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
<b>2-Stage</b>	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 <sub>2</sub> O)	HP/kW (1 ph.)	Wt. (lbs.)
<b>1-Stage</b>	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
<b>2-Stage</b>	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 <sub>2</sub> O)	HP/kW (1 ph.)	Wt. (lbs.)
<b>1-Stage</b>	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	
<b>2-Stage</b>	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 <sub>2</sub> 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 <sub>2</sub> 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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