COMPLETE PRODUCT RANGE

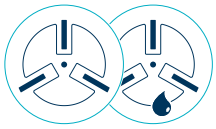
Vacuum Pumps and Systems, Compressors and Pressure/Vacuum Pumps

MAKE IT BECKER.

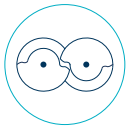


BECKER

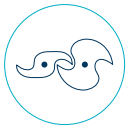
FUNCTIONAL PRINCIPLES
DISPLACEMENT PUMPS



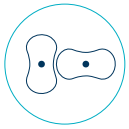
ROTARY VANE PUMPS
The robustly constructed rotary vane pumps are also suitable for higher pressure differences in vacuum and/or pressure applications. An eccentrically mounted rotor with slots rotates in a cylindrical housing and the precisely fitting sliding vanes move in the slots and separate the individual working chambers. Compared to dry-running rotary vane pumps, oil-lubricated pumps additionally seal the working chambers with the oil that is also transported. The pumps are thus able to generate a fine vacuum and are therefore suitable for applications that require a high vacuum.



SCREW PUMPS
Thanks to the direct drive via an integrated frequency inverter, a drive gear is no longer required. The rotors with screw profile rotate in opposite directions and contactless. The working chamber of the machines is 100% oil-free. The integrated speed control enables energy-optimized operation of the devices.

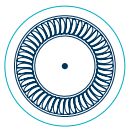


CLAW PUMPS
Claw vacuum pumps are 100% free of oil and contact during operation. To achieve this, the claw-like rotors rotate within the compression chamber in opposite directions and are contact less. This makes the pump particularly low-maintenance. The claw technology ensures a high degree of efficiency and low energy consumption.

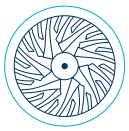


ROOTS BOOSTER PUMPS (PUMPING STATIONS)
In the case of contact less and oil-free compressing Roots booster pumps, two symmetrical lobes rotate in the working chamber. In combination with a displacement pump (e.g. rotary vane pump), Roots blowers are often used in pumping stations in order to achieve a very high volume flow with a high final vacuum.

TURBO DYNAMIC PUMPS



SIDE CHANNEL BLOWERS
Side channel blowers generate suction or blowing air for a wide variety of industrial applications. They contain a contact less, fast rotating impeller and are therefore wear and maintenance free. On both sides of the impeller there are two ring-shaped separate side channels along with the housing. This means that a single-stage device with a high volume flow or a two-stage device with higher pressure differences is possible.



RADIAL BLOWERS
Radial blowers are designed for high delivery volumes. The volume flow can be precisely adapted to customer requirements using the frequency inverter integrated on the motor. Radial blowers contain a very fast and contact less rotating impeller and are therefore wear and maintenance free.

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U 5.101–301
U 4.400–630
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VARIAIR UNIT

VARIAIR DIRECT SCREW

VARIAIR SPEED FLOW

VARIAIR TURBO PACKAGE

VARIAIR

The frequency inverter integrated in the VARIAIR UNIT significantly enhances the performance data of each pumps. It matches pump delivery exactly to customer requirements. Energy consumption is optimized and constant vacuum or pressure is guaranteed even where demand is subject to Variation or severe fluctuation. As no unnecessary blast or suction air is generated, (air discharge) noise is kept to a minimum. Dirt from the surrounding environment is kept out of the pumps via inlet filtration. "Gentle" pump start-up reduces strain on mechanical components and reliably extends their useful life. Variable Output ranges minimize the number of different types required, thus also providing logistical advantages.

VT • KVT • VTLF

ROTARY VANE VACUUM PUMPS

- Oil-free
- Air-cooled
- Integrated suction filter and blow off valve
- VT/KVT with vacuum regulating valve
- VTLF with vacuum safety valve
- Version /0-400 with VARIAIR frequency inverter



VT 4.8



VT 4.25

		CFM – Refers to intake pressure [1]										
	in. Hg V	0	3	6	9	12	15	18	21	23.6	25.1	26.6
VT 4.2	50 Hz	1.1	1.1	0.9	0.8	0.6	0.5	0.4				
	60 Hz	1.4	1.3	1.2	1.1	0.9	0.8	0.6				
VT 4.4	50 Hz	2.4	2.4	2.2	2.1	2.0	1.9	1.8	1.4	0.9	0.4	
	60 Hz	2.8	2.7	2.6	2.5	2.4	2.2	2.1	1.8	1.5	1.2	
VT 4.8	50 Hz	4.7	4.6	4.6	4.5	4.3	4.1	3.8	3.5	2.9	2.4	
	60 Hz	5.4	5.2	5.2	5.1	5.0	4.8	4.4	4.0	3.1	2.4	
VT 4.10	50 Hz	5.9	5.8	5.6	5.4	5.2	4.8	4.4	3.5	1.7	0.1	
	60 Hz	7.1	6.9	6.8	6.5	6.2	5.8	5.2	4.2	2.1	0.1	
VT 4.16	50 Hz	9.4	9.2	9.0	8.8	8.4	7.8	6.9	5.5	2.8	0.1	
	60 Hz	11.2	10.9	10.7	10.4	9.9	9.2	8.2	6.6	3.3	0.1	
VT 4.25	50 Hz	14.7	14.4	14.1	13.6	13.0	12.1	10.8	8.6	4.4	0.1	
	60 Hz	17.6	17.3	16.9	16.3	15.6	14.5	13.0	10.4	5.2	0.1	
VT 4.40	50 Hz	23.5	23.1	22.5	21.8	20.8	19.3	17.3	13.8	6.9	0.1	
	60 Hz	28.2	27.7	27.0	26.1	24.9	23.2	20.8	16.6	8.3	0.1	
KVT 3.60	50 Hz	32	32	32	31	31	29	28	26	22	12	0.1
	60 Hz	39	38	38	37	36	35	32	29	22	15	0.1
KVT 3.80	50 Hz	39	39	38	37	36	35	32	29	22	14	0.1
	60 Hz	46	45	45	44	43	41	38	34	26	17	0.1
KVT 3.100	50 Hz	58	57	56	55	53	51	47	42	33	21	0.1
	60 Hz	66	65	64	63	61	59	55	49	36	24	0.1
KVT 3.140	50 Hz	76	75	74	72	71	68	64	56	44	28	0.1
	60 Hz	91	89	88	86	84	81	76	69	53		
VTLF 2.200	50 Hz	105	102	100	97	93	89	82	68	50		
	60 Hz	128	126	124	120	116	111	105	94	74		
VTLF 2.250	50 Hz	144	142	140	138	135	131	124	116	97		
	60 Hz	168	167	165	162	159	154	146	135	115		
VTLF 2.250 SK	50 Hz	145	142	139	135	129	125	120	111	94	82	52
	60 Hz	173	172	170	167	162	158	151	141	122	112	84
VTLF 2.360	50 Hz	206	206	206	204	202	196	191	178	166 @ 22.15 in.Hg V		
	60 Hz	236	237	236	235	230	225	218	212	207 @ 22.15 in.Hg V		
VTLF 2.400	50 Hz	229	223	218	212	206	191	181	161	143		
	60 Hz	271	268	265	261	256	249	238	219	182		
VTLF 2.500	50 Hz	291	286	282	278	273	265	249	233	221 @ 22.15 in.Hg V		
	60 Hz	335	332	329	325	318	309	296	272	262 @ 22.15 in.Hg V		
KVT 3.100/0-400	60 Hz	66	65	64	63	61	58	55	49	40	33	21
KVT 3.140/0-400	60 Hz	85	82	81	79	77	75	71	65	56	49	36
VTLF 2.250/0-400	60 Hz	165	164	164	160	156	151	143	131	105		
VTLF 2.500/0-400	60 Hz	329	325	321	316	310	301	288	267	250 @ 22.15 in.Hg V		

[1] Reference (atmosphere): 750 Torr, 68°F / tolerance: ±5%
[2] Alternatively available as DC variant
[3] Power of the VARIAIR frequency inverter



KVT 3.140



VTLF 2.250 SK



VARIAIR VTLF 2.250/0-400

Technical data											
	hp 3~		hp 1~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
VT 4.2	–	–	0.12	0.14	56.0	58.0	15.4	8.7	6.1	6.5	1/4"
VT 4.4	0.24 [2]	0.28 [2]	0.24 [2]	0.28 [2]	59.0	61.0	15.4	8.7	6.1	6.5	1/4"
VT 4.8	0.5 [2]	0.6 [2]	0.5 [2]	0.6 [2]	58.0	61.0	20.9	9.2–10	6.1–6.5	6.8–7.1	3/8"
VT 4.10	0.5	0.6	0.5	0.6	60.0	62.0	35.3	16.9	8.1	7.6	1/2"
VT 4.16	0.7	0.9	0.7	0.9	61.0	64.0	49.6	17.8	9.1	8.2	1/2"
VT 4.25	1.0	1.2	1.1	1.3	62.0	67.0	57.3	19.9	10.2	11.5	3/4"
VT 4.40	1.7	2.0	1.5	1.5	67.0	72.0	84.9	22.5	11.0	11.5	3/4"
KVT 3.60	3.0	3.5			71.0	73.0	185.2	29.4	13.9	12.9	1"
KVT 3.80	3.0	3.5			72.0	75.0	189.6	29.4	13.9	12.9	1"
KVT 3.100	4.0	4.8			75.0	77.0	238.1	33.5	18.5	13.2	1 ½"
KVT 3.140	5.4	6.4			76.0	79.0	314.2	38.1	18.5	13.2	1 ½"
VTLF 2.200	5.4	6.4			75.0	77.0	584.3	46.3	25.4	20.8	2 ½"
VTLF 2.250	7.4	8.9			77.0	79.0	568.9	45.1	25.4	20.8	2 ½"
VTLF 2.250 SK	10.1	12.1			77.0	79.0	590.9	46.5	25.4	22.0	2 ½"
VTLF 2.360	14.8	17.7			80.5	82.5	579.9	46.3	25.4	20.8	2 ½"
VTLF 2.400	10.1	12.1			77.0	79.0	937.1	58.2	29.4	22.8	4"
VTLF 2.500	14.8	17.7			79.0	80.0	906.3	58.2	29.4	22.8	4"
KVT 3.100/0-400	5.4 [3]					77.0	241.4	32.7	18.5	15.8	1 ½"
KVT 3.140/0-400	5.4 [3]					77.9	254.7	32.7	18.5	15.8	1 ½"
VTLF 2.250/0-400	10.1 [3]					79.0	595.4	49.3	25.4	22.9	2 ½"
VTLF 2.500/0-400	14.8–29.5 [3]					80.0	981.2	57.5	29.4	28.1	4"

SERIES X: BECKER INNOVATION WITH TOP WARRANTY

Equipped with specially developed vanes, these oil-free rotary vane pumps distinguish themselves by high abrasion resistance, and with that extremely long service lives. Due to the low wear there is also minimal dust, so the series X pumps are perfectly suited for precision processes under clean room conditions.

This innovation branded by Becker is outstanding not only because of its 100 percent oil-free operation, excellent degree of efficiency and low power consumption.

In the area of sensitive vacuum, series X also guarantees precise low-pulsation air conduction.

Becker guarantees for these pumps a vane life-time of 20,000 operating hours or a maximum of 3 years. The enhanced longevity of X series pumps also extends service life intervals, and can cut out the need for frequent service visits with costly pump failures now no longer an issue.

Available as
- VX 4.10 – VX 4.40 (26.6 in. Hg V)
- KVX 3.60 – KVX 3.140
- VXLF 2.200, 2.250, 2.400 and 2.500

ADVANTAGES

- Quick, clean and quiet
- Oil-free
- Wear resistant
- Energy saving
- Long-life reliability

O • U

ROTARY VANE VACUUM PUMPS

- Oil-lubricated
- Air-cooled
- Non return valve and oil separator
- U 5.40 XL K – U 5.301 additionally with gas ballast valve and oil filter
- VARIAIR pumps including frequency inverter



O 6.4



O 5.25 XL K

		CFM – Nominal air flow refers to intake pressure [1]													CFM [1]	
	Torr	750	675	600	525	450	375	300	225	150	75	37.5	18.75	7.5	@ max. Torr	
O 6.4	50 Hz	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.5	1.4	1.1	0.1	≤1.5
	60 Hz	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.3	1.9	1.8	1.4	0.1	≤1.5
O 6.8	50 Hz	4.7	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.2	3.6	3.5	3.1	0.1	≤1.5
	60 Hz	5.6	5.4	5.4	5.4	5.3	5.3	5.2	5.2	5.2	5.1	4.9	4.7	4.1	0.1	≤1.5
O 5.10 XL	50 Hz	6.2	5.9	5.9	5.9	5.9	5.6	5.6	5.6	5.3	5.3	5.0	4.7	3.8	0.1	1.5
	60 Hz	7.4	7.1	7.1	7.1	7.1	7.1	6.8	6.8	6.8	6.2	5.6	5.0	4.4	0.1	1.5
O 5.16 XL	50 Hz	9.4	9.4	9.1	9.1	9.1	8.8	8.8	8.5	8.2	7.9	7.4	7.1	5.6	0.1	1.5
	60 Hz	11.2	11.2	9.7	10.9	10.6	10.3	10.3	10.0	9.7	9.1	8.5	7.9	6.5	0.1	1.5
O 5.21 XL	50 Hz	13.8	13.5	13.2	13.2	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.4	8.8	0.1	1.5
	60 Hz	15.9	15.6	15.6	15.3	15.3	14.7	14.4	14.4	14.4	14.4	14.4	14.1	11.2	0.1	1.5
O 5.25 XL K	50 Hz	15.3	15.0	14.7	14.7	14.4	14.4	14.4	14.4	14.4	14.4	14.4	13.8	9.4	0.1	1.5
	60 Hz	17.6	17.3	17.3	17.1	17.1	16.5	16.2	16.2	16.2	16.2	16.2	15.9	11.8	0.1	1.5
U 5.40 XL K	50 Hz	23.5	23.2	22.9	22.6	22.4	22.1	21.8	21.4	21.5	20.3	20.3	19.8	19.2	0.1	0.75
	60 Hz	28.2	27.8	27.3	26.9	26.5	26.1	25.8	25.3	24.6	24.1	23.2	22.2	21.3	0.1	0.75
U 5.45	50 Hz	26.5	26.5	26.5	26.5	26.5	26.5	26.5	25.9	25.3	25.3	25.3	24.7	24.1	0.1	0.375
	60 Hz	31.8	31.8	31.8	31.8	31.8	31.8	31.2	30.6	30.0	30.0	30.0	29.4	28.2	0.1	0.375
U 5.65 XL K	50 Hz	38.2	37.1	36.5	35.9	35.3	34.7	34.1	33.5	32.9	31.8	29.4	27.6	23.5	0.1	0.375
	60 Hz	45.9	44.7	43.5	42.3	41.8	41.2	40.6	40.0	38.8	37.6	34.7	33.5	28.2	0.1	0.375
U 5.101	50 Hz	59	58	56	55	54	54	52	51	50	49	48	45	43	0.1	<0.075
	60 Hz	71	69	68	66	64	63	61	59	58	56	55	54	47	0.1	<0.075
U 5.166	50 Hz	97	95	94	92	91	89	87	85	83	80	78	71	62	0.1	<0.075
	60 Hz	116	115	112	111	108	106	104	102	100	96	94	83	75	0.1	<0.075
U 5.201	50 Hz	118	115	114	111	109	107	105	102	101	99	96	88	81	0.1	<0.075
	60 Hz	141	138	135	133	130	127	124	121	119	114	111	98	91	0.1	<0.075
U 5.301	50 Hz	176	173	171	167	164	161	157	154	151	148	144	139	128	0.1	<0.075
	60 Hz	212	208	203	199	195	191	186	182	179	171	167	155	146	0.1	<0.075
U 4.400 SA/K U 4.400 F/K	50 Hz	256	256	256	256	256	256	256	255	255	255	253	252	243	0.1	2.3/0.4
	60 Hz	299	299	299	299	299	299	299	298	298	298	296	293	343	0.1	2.3/0.4
U 4.630 SA/K U 4.630 F/K	50 Hz	367	367	367	367	367	367	367	366	366	365	363	360	348	0.1	2.3/0.4
	60 Hz	431	431	431	431	431	431	431	430	430	429	426	422	409	0.1	2.3/0.4
VARIAIR U 5.101	60 Hz	82	73	71	70	69	68	66	65	64	62	59	55	52	0.3	0.075
VARIAIR U 5.201	60 Hz	141	137	134	129	124	119	114	114	122	132	124	115	104	18.8	0.075
VARIAIR U 5.301	60 Hz	194	195	195	196	197	198	198	197	196	195	193	188	176	0.3	0.075



U 5.40 XL K



U 5.65 XL K



U 5.101

Technical data													
	max. Torr		hp 3~		hp 1~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
O 6.4	≤1.5	≤1.5			0.16	0.2	48.0	52.0	11.9	9.7–10.2	5.5–8.6	5.4	Ø 0.35 Inch
O 6.8	≤1.5	≤1.5			0.34–0.4	0.4–0.48	58.0	60.0	22.1	11.6	6.5–9.1	5.2	Ø 0.67 Inch
O 5.10 XL	1.5	1.5	0.5	0.6	0.5–0.7	0.6–0.9	58.5	64.0	37.5	11.5–12.6	8.8	6.2–7.4	½" / ¾"
O 5.16 XL	1.5	1.5	0.7	0.9	0.7	0.9	60.5	67.0	39.7	12.6	8.8	6.2–7.4	½" / ¾"
O 5.21 XL	1.5	1.5	1.0	1.2	1.0	1.2	64.0	69.0	47.4	12.6–13.9	8.9–11	7.7	½" / ¾"
O 5.25 XL K	1.5	1.5	1.0	1.2	1.0	1.2	63.0	66.0	48.5	16.9	9–11.1	8.3–8.6	½" / ¾"
U 5.40 XL K	0.75	0.75	1.5	1.8	1.5	1.8	67.0	71.0	≤62.8	≤18.0	≈9.9	≈7.6	1"
U 5.45	0.375–225	0.375–225	2.0	2.0–2.4			62.0	64.0	68.4	≤24.2	11.2	10.4	1 ¼"
U 5.65 XL K	0.375–225	0.375–225	2.0	2.0–2.4			72.0	74.0	79.4	≤25.6	14.0	10.4	1 ¼"
U 5.101	<0.075–300	<0.075–300	3.0	3.5			65.0	68.0	169.8	29.2	15.0	13.0	1 ¼"
U 5.166	<0.075–75	<0.075–75	4.0	4.8			70.0	72.0	235.9	33.2	20.1	15.7	2"
	<0.075–300	<0.075–300	5.4	6.4			70.0	72.0	229.3	32.3	20.1	15.7	2"
U 5.201	<0.075–75	<0.075–75	5.4	6.4			72.0	75.0	224.9	32.3	20.1	15.7	2"
	<0.075–300	<0.075–300	7.4	8.9			72.0	75.0	266.8	34.8	20.1	15.7	2"
U 5.301	<0.075–75	<0.075–75	7.4	8.9			73.0	76.0	356.1	38.4	21.6	16.1	2"
	<0.075–300	<0.075–300	10.1	12.1			73.0	76.0	356.1	38.4	21.6	16.1	2"
U 4.400 SA/K	2.25	2.25	14.8	17.7			78.0	81.0	882.0	53.9	26.5	19.9	3"
U 4.400 F/K	0.375	0.375	14.8	17.7			78.0	81.0	882.0	53.9	26.5	19.9	3"
U 4.630 SA/K	2.25	2.25	20.1	24.1			80.0	83.0	1201.7	60.6	27.4	19.9	3"
U 4.630 F/K	0.375	0.375	20.1	24.1			80.0	83.0	1201.7	60.6	27.4	19.9	3"
VARIAIR U 5.101	0.075	0.075	5.4 [2]				65.0	68.0	157.7	29.0	15.0	14.7	1 ¼"
VARIAIR U 5.201	0.075	0.075	5.4 [2]				72.0	74.0	235.9	32.3	20.1	16.2	2"
VARIAIR U 5.301	0.075	0.075	10.1 [2]				73.0	76.0	374.9	38.6	21.6	18.4	2"

VARIAIR UNIT



VARIAIR U 5.101

[1] Reference (atmosphere): 750 Torr, 68°F / tolerance: ±10% (U4. ±5%)
[2] Power of the VARIAIR frequency inverter

VADS

SCREW VACUUM PUMPS

- Non-contact compression
- Air-cooled
- Direct drive
- VARIAIR frequency inverter



VADS 250



VADS 1500+

		CFM – Refers to intake pressure (reference (atmosphere): 750 Torr, 68°F / tolerance: ±5%)														
	Torr	750	675	600	525	450	375	300	225	150	75	37.5	18.75	7.5	3.75	≤0.075
VADS 250	340 Hz	141	142	142	143	144	145	145	146	147	155	169	172	174	171	0.1
VADS 1500+	200 Hz	812	815	818	809	800	783	765	724	683						

Technical data							
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
VADS 250	10.1 hp • 400/480 V ±10% • 50/60 Hz	68	617.4	47.0	20.5	35.7	2 ½"
VADS 1500+	40.2 hp • 400/480 V ±10% • 50/60 Hz	75/80 (110/200 Hz)	2646	63.0	59.5	71.2	DN 150



BCV

CLAW VACUUM PUMPS

- Non-contact compression
- Air-cooled
- BCV 100–300 with
- integrated suction filter
- VARIAIR BCV with VARIAIR
- frequency inverter



BCV 300



BCV 500



BCV 500 FD

		CFM – Nominal air flow refers to intake pressure [1]											
	Torr	750	675	600	525	450	375	300	225	150	112.5	75	37.5
BCV 100	50 Hz	59	52	51	49	48	45	43	39	34	22	11	0.1
	60 Hz	71	64	62	61	59	57	55	52	44	29	15	0.1
BCV 150	50 Hz	88	81	78	76	73	71	67	62	56	45	29	
	60 Hz	106	95	93	91	88	85	82	78	77	65	51	
BCV 300	50 Hz	162	151	149	147	145	143	141	135	112	91		
	60 Hz	191	179	178	176	172	169	166	159	147	120		
BCV 400 FD	50 Hz	235	236	236	236	236	235	234	231	0.1			
	60 Hz	277	274	273	273	272	271	269	266	0.1			
BCV 500 FD	50 Hz	294	293	292	291	290	289	289	276	0.1			
	60 Hz	353	352	350	349	346	345	343	329	0.1			
VARIAIR BCV 100	60 Hz	71	60	59	58	58	56	55	53	48	43	35	6
VARIAIR BCV 150	60 Hz	106	88	88	86	85	84	82	76	65	54	35	
VARIAIR BCV 300	60 Hz	191	170	168	168	170	171	170	153	115	86		

Technical data									
	hp 3~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
BCV 100	3.0–4.0	3.0–4.0	67	71	266.8–293.3	30.3–31.7	21.2	21.0	2 ½"
BCV 150	4.0–5.4	4.0–5.4	67	71	419.0–443.2	31.7–33.4	21.2	22.8	2 ½"
BCV 300	7.4–10.1	7.4–10.1	59	72	712.2–729.9	36.2	22.9	24.6	2 ½"
BCV 400 FD	10.1	12.3	73	75	747.1–761.9	49.2	20.5	20.8	3"
BCV 500 FD	12.3	15.8	74	77	785.2–871.0	51.7–54.1	20.5	20.8	3"
VARIAIR BCV 100	5.4 [2]		70		392.5	33.4	21.2	21.0	2 ½"
VARIAIR BCV 150	5.4 [2]		71		458.6	32.4	21.2	22.8	2 ½"
VARIAIR BCV 300	10.1 [2]		74		749.7	37.7	22.9	24.6	2 ½"

VARIAIR UNIT



VARIAIR BCV 300

[1] Reference (atmosphere): 750 Torr, 68°F / tolerance: ±10%
[2] Power of the VARIAIR frequency inverter

SV

SIDE CHANNEL VACUUM PUMPS

- Non-contact compression
- Single or double stage
- Air-cooled



SV 130



SV 400



SV 1100

		CFM – Refers to intake pressure [1]									CFM [1]	
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8		@ max.
	in. Hg V	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0		in. H_2O
Single stage												
SV 130/1	50 Hz	76	61	45	30	14					2	96.5
	60 Hz	94	80	65	49	34	21				13	108.5
SV 200/1	50 Hz	106	81	61	40	15					7	86.4
	60 Hz	135	106	84	64	42					28	92.5
SV 201/1	50 Hz	112	94	77	61	45	30				22	110.6
	60 Hz	135	116	100	84	68	52				42	114.6
SV 300/1	50 Hz	191	167	142	119	94	71				51	116.6
	60 Hz	229	206	183	159	134	109	79			75	124.6
SV 400/1	50 Hz	229	208	185	161	136	109	81			72	126.6
	60 Hz	276	256	233	209	183	156	127			102	136.7
SV 500/1	50 Hz	300	278	251	226	202	176	148			112	142.7
	60 Hz	359	341	318	293	268	241	212			168	148.7
SV 700/1	50 Hz	441	402	361	322	279	239	192			152	136.7
	60 Hz	529	489	449	410	371	329	284			249	136.7
SV 1100/1	50 Hz	618	566	516	463	412	355	293			267	128.6
	60 Hz	735	687	642	592	540	485	427			402	128.6
Double stage												
SV 130/2	50 Hz	41	34	28	23	18	14	10	5		2	152.8
	60 Hz	50	44	38	33	28	24	19	15	11	11	160.8
SV 200/2	50 Hz	53	44	35	28	23	16	8			4	132.7
	60 Hz	65	56	48	42	35	29	22	14		14	140.7
SV 201/2	50 Hz	53	48	42	38	32	28	23	16	10	10	160.8
	60 Hz	65	59	54	49	44	38	33	27	21	21	160.8
SV 300/2	50 Hz	94	85	77	70	62	54	45	37	27	26	162.8
	60 Hz	112	104	96	90	82	74	65	57	47	46	164.8
SV 400/2	50 Hz	115	106	98	89	80	71	63	54	45	38	176.9
	60 Hz	138	131	122	114	106	98	89	80	71	63	176.9
SV 500/2	50 Hz	153	141	128	117	104	93	82	72	61	59	164.8
	60 Hz	179	172	161	151	140	129	119	108	96	96	160.8
SV 700/2	50 Hz	220	207	195	183	172	160	147	133	116	116	160.8
	60 Hz	256	246	236	225	215	203	190	179	161	161	160.8
SV 1100/2	50 Hz	300	275	250	224	198	174	149	128		111	156.8
	60 Hz	356	329	301	274	248	221	196	171		151	156.8

[1] Reference (atmosphere): 0 in. Hg, V 68°F / tolerance: ±10%

Technical data													
	max. in. H_2O		hp 3~		hp 1~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
Single stage													
	30.2	26.1	0.7	0.9			60.9	63.6	46.3	15.0	10.4	12.2	1 ½"
	50.3	46.2	1.0	1.2	1.0	1.2	60.9	63.6	48.5	15.1–15.8	10.4	12.2	1 ½"
SV 130/1	84.4	80.4	1.5	1.7	1.5	1.7	63.4	64.8	49.6	15.2–16.7	10.4	12.2	1 ½"
	96.5	98.5	1.7	2.0			63.4	64.8	54.0	16.7	10.4	12.2	1 ½"
	96.5	108.5	2.0	2.4	2.0	2.4	64.0	65.4	57.3	16.7–16.8	10.4	12.2	1 ½"
SV 200/1	60.3	56.3	1.5	1.7	1.5	1.7	63.9	69.2	56.2	16.6	12.1	14.1	2"
	86.4	92.5	2.0	2.4	2.0	2.4	63.9	69.2	62.8	17.0	12.1	14.1	2"
	56.3	50.3	1.5	1.7	1.5	1.7	65.2	68.3	56.2	16.6	12.1	14.1	2"
SV 201/1	88.4	84.4	2.0	2.4	2.0	2.4	66.5	68.2	62.8	17.0	12.1	14.1	2"
	110.6	114.6	3.0	3.6			66.3		71.7	17.8	12.1	14.1	2"
	68.3	62.3	3.0	3.6			67.3	68.3	88.2	18.5	14.6	16.8	2 ½"
SV 300/1	106.5	98.5	4.0	4.8			70.1	71.0	93.7	19.5	14.6	16.8	2 ½"
	116.6	124.6	5.4	6.4			71.4	72.7	120.2	21.2	14.6	16.8	2 ½"
	84.4	76.4	4.0	4.8			72.5	74.4	115.8	19.3	15.4	17.9	3"
SV 400/1	126.6	116.6	5.4	6.4			72.5	74.4	116.9	19.8	15.4	17.9	3"
	126.6	136.7	7.4	8.9			74.5	74.0	120.2	21.1	15.4	17.9	3"
	80.4	70.4	5.4	6.4			75.5	76.7	≤135.6	19.5	18.7	20.6	3"
SV 500/1	126.6	116.6	7.4	8.9			75.5	76.7	146.6	20.9	18.7	20.6	3"
	142.7	148.7	10.1	12.1			75.5	76.7	166.5	23.6	18.7	20.6	3"
	80.4	68.3	7.4	8.9			69.0	71.0	196.2	22.5	19.5	23.5	4"
SV 700/1	120.6	112.6	10.1	12.1			72.0	73.0	247.0	24.2	19.5	23.5	4"
	136.7	136.7	14.8	17.7			73.0	74.0	262.4	25.0	19.5	23.5	4"
	64.3	52.3	10.1	12.1			73.0	77.0	260.2	24.5	20.7	24.1	4"
SV 1100/1	116.6	108.5	14.8	17.7			75.0	79.0	275.6	25.3	20.7	24.1	4"
	128.6	128.6	20.1	24.1			75.0	79.0	346.2	26.8	20.7	24.1	4"
Double stage													
	68.3	60.3	0.7	0.9			57.3	59.0	47.4	15.2	10.4	12.2	1 ½"
SV 130/2	108.5	100.5	1.0	1.2	1.0	1.2	60.4	59.6	48.5	15.2–15.8	10.4	12.2	1 ½"
	152.8	160.8	1.5	1.7	1.5	1.7	59.8	62.7	50.7	15.2–16.7	10.4	12.2	1 ½"
SV 200/2	132.7	120.6	1.5	1.7	1.5	1.7	63.7	68.4	56.2	16.8	12.1	14.1	2"
	132.7	140.7	2.0	2.4	2.0	2.4	63.7	68.4	62.8	17.0	12.1	14.1	2"
SV 201/2	112.6	100.5	1.5	1.7	1.5	1.7	65.6	68.7	56.2	16.8	12.1	14.1	2"
	160.8	160.8	2.0	2.4	2.0	2.4	65.6	68.7	62.8	17.0	12.1	14.1	2"
SV 300/2	140.7	126.6	3.0	3.6			67.8	67.5	89.3	18.5	14.6	16.8	2 ½"
	162.8	164.8	4.0	4.8			69.9	69.7	94.8	19.5	14.6	16.8	2 ½"
SV 400/2	176.9	160.8	4.0	4.8			71.1	73.0	118.0	19.3	15.4	17.9	3"
	176.9	176.9	5.4	6.4			71.1	73.0	119.1	19.8	15.4	17.9	3"
SV 500/2	112.6	96.5	4.0	4.8			68.9	71.7	127.9	19.1	18.7	20.6	3"
	164.8	160.8	5.4	6.4			68.9	71.7	≤137.8	19.5	18.7	20.6	3"
SV 700/2	156.8	136.7	7.4	8.9			68.0	69.0	196.2	22.5	19.5	23.5	4"
	160.8	160.8	10.1	12.1			69.0	73.0	247.0	24.2	19.5	23.5	4"
SV 1100/2	136.7	100.5	10.1	12.1			69.0	76.0	260.2	24.5	20.7	24.1	4"
	156.8	156.8	14.8	17.7			71.0	77.0	275.6	25.3	20.7	24.1	4"

VARIAIR SV • VARIAIR Speed Flow

SIDE CHANNEL VACUUM PUMPS

- Non-contact compression
- Single or double stage
- Air-cooled
- VARIAIR frequency inverter



VARIAIR SV 300



VASF 2.120 AC [2]

		CFM – Refers to intake pressure [1]									CFM [1]	
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8		@ max.
	in. Hg V	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0		in. H_2O
Single stage												
VARIAIR SV 130/1	100 Hz	168	146	126	106	87	69	51			49	122.6
VARIAIR SV 201/1	100 Hz	206	206	195	179	160	140	71			52	124.6
VARIAIR SV 300/1	87 Hz	329	313	293	271	206	99	0			71	102.5
VARIAIR SV 300/1	100 Hz	376	365	346	326	303	237	146			145	122.6
VARIAIR SV 400/1	100 Hz	509	496	473	446	415	379	320			217	136.7
VARIAIR SV 500/1	100 Hz	588	579	560	538	510	477	436	388		343	148.7
VARIAIR SV 700/1	80 Hz	694	675	645	605	558	510	464			432	135.1
VASF 2.50/1	300 Hz	28	25	24	22	20	16 AC 12 DC				0.1	116.6 AC 112.6 DC
VASF 2.80/1	250 Hz	53	46	42	39	36	30				0.1	112.6 AC 116.6 DC
VASF 2.120/1	200 Hz	84	74	68	64	55					0.1	92.5 AC
Double stage												
VARIAIR SV 130/2	100 Hz	82	74	66	59	52	45	38	32	26	25	164.8
VARIAIR SV 201/2	100 Hz	103	101	98	94	89	85	79	74	66	62	168.8
VARIAIR SV 300/2	100 Hz	176	175	171	165	160	154	146	132	116	113	164.8
VASF 2.50/2	300 Hz	14	13	12	11	11	10	10	9	8	0.1	225.1 AC 221.1 DC
VASF 2.80/2	250 Hz	26	25	22	21	19	18	16	14	11	0.1	201.0 AC 229.1 DC
VASF 2.120/2	200 Hz	42	38	35	32	30	28	26	24	20	0.1	184.9 AC

Technical data							
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
VARIAIR SV 130/X	5.4 hp • 400/480 V ±10% • 50/60 Hz	70.0	67.3	16.7	10.4	15.0	1 ½"
VARIAIR SV 201/X	5.4 hp • 400/480 V ±10% • 50/60 Hz	77.2	70.6	16.9	12.1	16.0	2"
VARIAIR SV 300/1 87 Hz	5.4 hp • 400/480 V ±10% • 50/60 Hz	70.2	101.4	19.4	14.6	18.0	2 ½"
VARIAIR SV 300/X 100 Hz	10.1 hp • 400/480 V ±10% • 50/60 Hz	71/74	109.1	20.2	14.6	19.7	2 ½"
VARIAIR SV 400/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	76.8	165.4	22.5	15.4	23.3	3"
VARIAIR SV 500/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	80.6	215.0	23.6	18.7	24.6	3"
VARIAIR SV 700/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	74.5	264.6	24.9	19.5	26.9	4"
VASF 2.50/X	0.87 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	61.0	27.1	13.9	6.9	10.1	1"
	0.80 hp • AC~ • 100 V -10% ... 115 V +10% • 50/60 Hz	61.0	27.1	13.9	6.9	10.1	1"
	1.0 hp • DC~ • 24 V ±20%	65.0	25.4	13.9	6.8	9.2	1"
VASF 2.80/X	1.48 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	61.0	33.1	15.4	6.9	11.5	1 ¼"
	1.48 hp • DC~ • 48 V ±20%	65.0	32.4	15.4	6.8	10.6	1 ¼"
VASF 2.120/X	1.88 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	63.0	41.5	17.0	7.9	12.6	1 ½"

[1] Reference (atmosphere): 0 in. Hg V, 68°F / tolerance: ±10%
[2] Optionally with integrated VARIAIR frequency inverter, fan and silencers

VARIAIR RV • VATP

RADIAL VACUUM PUMPS

- Non-contact compression
- Air-cooled
- VARIAIR RV with external VARIAIR frequency inverter
- VATP (VARIAIR Turbo Package) consisting of RV 2.1944/10, VARIAIR frequency inverter, intake filter and sound enclosure



RV 2.1944/10



VATP 1600

		CFM – Refers to intake pressure [1]						
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	116.6
	in. Hg V	0	1.5	3.0	4.5	6.0	7.5	8.7
RV 2.1944/10	400 Hz	923	950	887	817	738	623	286
VATP 1600	400 Hz	923	950	887	817	738	623	286

Technical data							
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
RV 2.1944/10	14.8–29.5 hp [2] • 400/480 V ±10% • 50/60 Hz	75	178.6	21.7 [3]	17.7 [3]	20.5 [3]	Ø 5.91 Inch
VATP 1600	14.8–29.5 hp [2] • 400/480 V ±10% • 50/60 Hz	64	357.2	32.1	22.6	44.7	[4]

[1] Reference (atmosphere): 0 in. Hg V, 68°F / tolerance: ±5%
[2] Alternatively available as 10.1 hp version (see pump data sheet)
[3] Without frequency inverter
[4] Flange for hose connector

DT • KDT • DTLF

ROTARY VANE COMPRESSORS

- Oil-free
- Air-cooled
- Integrated suction filter
- DT/KDT with pressure regulating valve
- DTLF with pressure safety valve
- Version /0-400 with VARIAIR frequency inverter



DT 4.4



DT 4.16

		CFM [1]									CFM [1]	
	PSIA	14.5	17.4	20.3	23.2	26.1	29	31.9	34.8	37.7		@ max.
	PSIG	0	2.9	5.8	8.7	11.6	14.5	17.4	20.3	23.2		PSIG
DT 4.2	50 Hz	1.1	1.0	0.9	0.9						0.9	8.7
	60 Hz	1.4	1.2	1.2	1.1						1.1	8.7
DT 4.4	50 Hz	2.5	2.4	2.2	2.1	2.0	1.9				1.9	14.5
	60 Hz	2.9	2.8	2.6	2.5	2.4	2.2				2.2	14.5
DT 4.6/0-61	50 Hz	3.4	3.1	2.9							2.9	5.8
	60 Hz	3.8	3.5	3.2							3.2	5.8
DT 4.8	50 Hz	4.7	4.6	4.4	4.2	4.0	3.8				3.8	14.5
	60 Hz	5.6	5.4	5.1	4.9	4.6	4.4				4.4	14.5
DT 4.10	50 Hz	5.9	5.6	5.2	4.8	4.5	4.1				4.1	14.5
	60 Hz	7.1	6.9	6.5	6.1	5.8	5.4				5.4	14.5
DT 4.16	50 Hz	9.4	9.0	8.6	8.2	7.8	7.4				7.4	14.5
	60 Hz	11.2	10.9	10.5	10.1	9.6	9.3				9.3	14.5
DT 4.25 K	50 Hz	14.7	14.4	14.0	13.6	13.3	12.9				12.9	14.5
	60 Hz	17.6	17.3	17.1	16.8	16.5	16.2				16.2	14.5
DT 4.40 K	50 Hz	23.5	22.2	21.5	20.8	20.1	19.3				19.3	14.5
	60 Hz	28.2	26.9	26.2	25.5	24.8	24.1				24.1	14.5
KDT 3.60	50 Hz	32	31	30	29	28	26	26	25		24	21.8
	60 Hz	37	36	35	35	34	32	32	31		30	21.8
KDT 3.80	50 Hz	39	38	36	36	35	34	32	31		31	21.8
	60 Hz	45	44	43	42	41	40	39	38		37	21.8
KDT 3.100	50 Hz	58	57	55	54	53	52	51	49		49	21.8
	60 Hz	69	68	67	65	64	62	61	60		59	21.8
KDT 3.140	50 Hz	76	75	74	72	71	70	68	66		66	21.8
	60 Hz	90	89	88	86	85	84	82	81		81	21.8
DTLF 2.200	50 Hz	102	99	96	93	89	86	83	80	76	74	26.1
	60 Hz	127	125	122	118	115	112	109	106	103	100	26.1
DTLF 2.250	50 Hz	145	143	141	138	135	131	129	126	123	121	26.1
	60 Hz	173	171	168	165	162	159	156	153	150	146	26.1
DTLF 2.250 K	50 Hz	141	139	136	134	131	128	126	124	121	119	26.1
	60 Hz	167	164	162	159	156	153	151	148	145	142	26.1
DTLF 2.360	50 Hz	212	210	208	206	203					202	13.1
DTLF 2.400	50 Hz	215	208	202	197	193	192	191	189	189	188	26.1
	60 Hz	259	254	248	245	243	241	239	236	235	232	26.1
DTLF 2.500	50 Hz	303	290	283	277	271	265	259	253	248	242	26.1
	60 Hz	353	345	338	331	325	319	313	307	300	291	26.1
KDT 3.80/0-400	60 Hz	45	44	42	41	40	39	38	36		36	21.8
KDT 3.100/0-400	60 Hz	69	68	67	65	64	62	61	58		58	21.8
KDT 3.140/0-400	60 Hz	88	88	86	85	84	84	76	70		67	21.8
DTLF 2.250/0-400	60 Hz	171	169	166	164	161	157	154	151	88	69	24.7
DTLF 2.500/0-400	60 Hz	343	337	331	325	319	315	300	271		253	21.8



VARIAIR KDT 3.80/0-400



KDT 3.140



DTLF 2.250

Technical data										
	max. PSIG	hp 3~		db(A)		lbs	Inch			Connection
	50 & 60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
DT 4.2	8.7	0.12 (1~)	0.14 (1~)	53.0	55.0	15.4	8.7	6.1	6.5	1/4"
DT 4.4	14.5	0.24 [2,3]	0.28 [2,3]	60.0	60.5	15.4	8.7	6.1	6.5	1/4"
DT 4.6/0-61	5.8	0.24 [3]	0.28 [3]	67.0	69.0	15.4	9.2	6.1	6.8	3/8"
DT 4.8	14.5	0.5 [3]	0.6 [3]	58.0	61.5	20.9	9.2–10	6.1–6.5	6.8–7.1	3/8"
DT 4.10	14.5	0.5 [3]	0.6 [3]	60.0	62.0	35.3	16.9	8.1	7.7	1/2"
DT 4.16	14.5	0.7 [3]	0.9 [3]	62.0	64.0	51.8	17.8	9.1	8.3	1/2"
DT 4.25 K	14.5	1.5 [3]	1.7	65.0	67.0	80.5	21.5	12.9	11.4	3/4"
DT 4.40 K	14.5	2.5 [3]	3.0	67.0	70.0	101.4	24.6	12.9	11.4	3/4"
KDT 3.60	7.3/14.5/21.8	3.0/3.0/4.0	3.5/3.5/4.8	≤72	≤74	185.2	29.4	13.9	12.9	1"
KDT 3.80	7.3/14.5/21.8	3.0/4.0/5.4	3.5/4.8/6.4	≤74	≤76	250.3	34.0	13.9	12.9	1"
KDT 3.100	7.3/14.5/21.8	5.4/7.4/7.4	6.4/8.9/8.9	≤76	≤78	298.8	38.1	18.5	14.3	1 ½"
KDT 3.140	7.3/14.5/21.8	7.4/10.1/10.1	8.9/12.1/12.1	≤82	≤84	321.9	37.5	18.5	14.3	1 ½"
DTLF 2.200	11.6/14.5/26.1	7.4/10.1/14.8	8.9/12.1/17.7	≤82	≤83	804.8	53.7	25.4	20.8	2 ½"
DTLF 2.250	11.6/14.5/26.1	10.1/14.8/20.1	12.1/14.5/24.1	≤84	≤85	749.7	51.2	25.4	21.9	2 ½"
DTLF 2.250 K	11.6/14.5/26.1	10.1/14.8/20.1	12.1/14.5/24.1	≤84	≤85	796.0	51.2	27.9	20.8	2 ½"
DTLF 2.360	7.3/13.1 (50 Hz)	14.8/20.1	–	≤84	–	630.6	46.5	25.4	20.8	2 ½"
DTLF 2.400	13.1/18.1/26.1	14.8/20.1/24.8	17.7/24.1/29.5	≤80	≤82	1058.4	60.5	29.4	22.8	4"
DTLF 2.500	11.6/16/21.8/26.1	20.1/24.8/29.5/40.2	24.1/29.5/34.9/48.3	≤81	≤82	1080.5	60.5	29.4	22.8	4"
KDT 3.80/0-400	21.8	5.4 [4]		71.2		192.9	28.6	13.9	15.8	1"
KDT 3.100/0-400	21.8	10.1 [4]		76.0		328.5	36.5	18.6	17.9	1 ½"
KDT 3.140/0-400	21.8	10.1 [4]		82.0		328.5	36.5	18.6	17.9	1 ½"
DTLF 2.250/0-400	21.8	14.8–29.5 [4]		76.7		683.6	50.9	25.5	26.9	2 ½"
DTLF 2.500/0-400	21.8	14.8–29.5 [4]		80.6		1080.5	56.7	29.4	28.1	4"

VARIAIR UNIT



VARIAIR DTLF 2.500/0-400

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±5%
[2] Alternatively available as DC variant
[3] Alternatively available as 1~ variant
[4] Power of the VARIAIR frequency inverter

VADS

SCREW COMPRESSORS

- Non-contact compression
- Air-cooled
- Direct drive
- VARIAIR frequency inverter



VADS 1500+

		CFM (reference (atmosphere): 0 PSIG, 68°F / tolerance: ±5%)							
	PSIG	0	2.9	5.8	8.7	10.2	11.6	13.1	14.5
VADS 1500+	167 Hz	705	705	705	705	691	663	609	530

Technical data							
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
VADS 1500+	60.3 hp • 400/480 V ±10% • 50/60 Hz	75/80 (80/165 Hz)	2646	63	57.8	71.2	DN 150



BCP

CLAW COMPRESSORS

- Non-contact compression
- Air-cooled
- Integrated suction filter
- Pulsation damper



BCP 150 PD



BCP 300 PD

		CFM [1]										
	PSIG	0	2.9	5.8	8.7	11.6	14.5	17.4	20.3	23.2	26.1	29.0
BCP 100 PD	50 Hz	58.8	48.2	45.9	43.5	41.2	38.8	35.9	32.9	30.6	28.2	25.9
	60 Hz	70.6	56.5	54.1	51.8	49.4	47.0	44.7	42.3	40.0	38.8	37.6
BCP 150 PD	50 Hz	88.2	72.9	70.0	67.0	64.7	61.8	58.8	55.9	52.9	50.0	47.6
	60 Hz	105.9	87.6	84.7	82.3	80.0	77.0	74.7	72.3	70.0	67.6	65.3
BCP 300 PD	50 Hz	161.7	141.7	137.0	132.9	128.8	124.1	120.6	116.4	112.3	108.2	104.1
	60 Hz	191.1	171.7	166.4	161.1	157.0	151.7	147.0	142.3	137.6	133.5	128.8

Technical data										
	max. PSIG	hp 3~		db(A)		lbs	inch			Connection
	50 & 60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	w/o motor	Length	Width	Height	
BCP 100 PD	11.6/18.85/21.75/29.0	4.0–10.1	4.0–10.1	≤83	≤85	≈286.7	40.7	21.7	24.4	1 ½"
BCP 150 PD	14.5/18.85/24.65/29.0	7.4–14.8	7.4–17.7	≤85	≤87	≈315.3	40.7	23.0	≈26.2	1 ½"
BCP 300 PD	18.85/23.2/29.0	14.8–24.8	14.8–24.8	≤85	≤90	≈445.4	44.5	26.4	≈28.2	2"

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±10%

SV

SIDE CHANNEL BLOWERS

- Non-contact compression
- Single or double stage
- Air-cooled



SV 130



SV 400



SV 1100

		CFM [1]											CFM [1]	
	PSIG	0	0.725	1.45	2.175	2.9	3.625	4.35	5.075	5.8	6.525	7.25		@ max.
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8	180.9	201		in. H_2O
Single stage														
SV 130/1	50 Hz	76	61	48	35	22	15						8	112.6
	60 Hz	94	79	68	55	45	34	25					25	120.6
SV 200/1	50 Hz	106	81	62	47	31							22	90.5
	60 Hz	135	107	88	72	57							51	88.4
SV 201/1	50 Hz	112	93	78	65	53	43	34					26	136.7
	60 Hz	135	117	102	88	76	65	55					50	132.7
SV 300/1	50 Hz	191	169	148	128	109	93	78	65				60	148.7
	60 Hz	229	210	191	172	154	137	119					106	136.7
SV 400/1	50 Hz	229	208	188	168	149	131	114	97	82			75	170.9
	60 Hz	276	256	235	215	195	177	160	144	128			125	164.8
SV 500/1	50 Hz	300	276	253	232	212	192	176	158	142			132	174.9
	60 Hz	359	336	318	298	279	259	240	221	201			198	162.8
SV 700/1	50 Hz	441	404	369	339	310	281	251	221	191			191	160.8
	60 Hz	529	490	456	423	393	362	332	299	268			268	160.8
SV 1100/1	50 Hz	618	575	536	497	459	479	383	346				317	156.8
	60 Hz	735	692	652	611	572	532	494	456				456	140.7
Double stage														
SV 130/2	50 Hz	41	34	29	25	20	16	14	11	8			8	160.8
	60 Hz	50	45	39	35	31	26	24	20				18	156.8
SV 200/2	50 Hz	53	44	36	31	26	22	18	12	8			6	164.8
	60 Hz	65	56	49	43	38	33	29	25	21			18	172.9
SV 201/2	50 Hz	53	49	44	39	35	31	26	23	19			18	168.8
	60 Hz	65	60	55	51	46	42	39	35	32			32	160.8
SV 300/2	50 Hz	94	85	78	72	65	59	53	47	41	36		29	207.0
	60 Hz	112	104	98	91	68	79	74	68	63	53		53	180.9
SV 400/2	50 Hz	115	106	99	92	84	78	71	65	59	55	49	47	213.1
	60 Hz	138	131	124	118	112	105	99	94	89	84	79	79	201.0
SV 500/2	50 Hz	153	140	129	119	109	101	92	85	77	71		66	193.0
	60 Hz	179	171	161	152	144	136	128	123	115	108	101	97	213.1
SV 700/2	50 Hz	220	209	197	186	175	1283	156	147	139	131	124	124	201.0
	60 Hz	256	245	233	223	213	205	196	188	180	172		172	180.9
SV 1100/2	50 Hz	300	288	277	265	254	243	232	221	210	200		192	197
	60 Hz	356	344	333	323	313	303	294	284	274			272	164.8

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±10%

Technical data													
	max. in. H_2O		hp 3~		hp 1~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
Single stage													
	30.2	24.1	0.7	0.9			61.2	64.0	46.3	15.0	10.4	12.2	1 ½"
	50.3	44.2	1.0	1.2	1.0	1.2	61.2	64.0	48.5	15.1–15.8	10.4	12.2	1 ½"
SV 130/1	84.4	78.4	1.5	1.7	1.5	1.7	63.9	64.7	49.6	15.2–16.7	10.4	12.2	1 ½"
	96.5	94.5	1.7	2.0			64.2	65.3	54.0	16.7	10.4	12.2	1 ½"
	112.6	120.6	2.0	2.4	2.0	2.4	64.2	65.3	57.3	16.7–16.8	10.4	12.2	1 ½"
SV 200/1	58.3	52.3	1.5	1.7	1.5	1.7	64.6	68.2	56.2	16.6	12.1	14.1	2"
	90.5	88.4	2.0	2.4	2.0	2.4	64.6	68.2	62.8	17.0	12.1	14.1	2"
	54.3	48.2	1.5	1.7	1.5	1.7	63.9	68.0	56.2	16.6	12.1	14.1	2"
SV 201/1	84.4	80.4	2.0	2.4	2.0	2.4	65.0	68.0	62.8	17.0	12.1	14.1	2"
	136.7	132.7	3.0	3.6			68.3		71.7	17.8	12.1	14.1	2"
	66.3	56.3	3.0	3.6			66.9	68.9	88.2	18.5	14.6	16.8	2 ½"
SV 300/1	100.5	92.5	4.0	4.8			71.1	69.4	93.7	19.5	14.6	16.8	2 ½"
	148.7	136.7	5.4	6.4			72.8	73.4	120.2	21.2	14.6	16.8	2 ½"
	80.4	72.4	4.0	4.8			71.6	74.2	115.8	19.3	15.4	17.9	3"
SV 400/1	116.6	108.5	5.4	6.4			71.6	74.2	116.9	19.8	15.4	17.9	3"
	170.9	164.8	7.4	8.9			76.8	76.1	120.2	21.1	15.4	17.9	3"
	76.4	70.4	5.4	6.4			71.6	74.1	≤135.6	19.5	18.7	20.6	3"
SV 500/1	118.6	110.6	7.4	8.9			71.6	74.1	146.6	20.9	18.7	20.6	3"
	174.9	162.8	10.1	12.1			75.4	77.4	166.5	23.6	18.7	20.6	3"
	74.4	60.3	7.4	8.9			71.0	72.0	196.2	22.5	19.5	23.5	4"
SV 700/1	114.6	100.5	10.1	12.1			72.0	74.0	247.0	24.2	19.5	23.5	4"
	160.8	160.8	14.8	17.7			73.0	75.0	262.4	25.0	19.5	23.5	4"
	56.3	44.2	10.1	12.1			74.0	76.0	260.2	24.5	20.7	24.1	4"
SV 1100/1	104.5	88.4	14.8	17.7			74.0	76.0	275.6	25.3	20.7	24.1	4"
	156.8	140.7	20.1	24.1			76.0	79.0	346.2	26.8	20.7	24.1	4"
Double stage													
	64.3	56.3	0.7	0.9			59.9	59.4	47.4	15.2	10.4	12.2	1 ½"
SV 130/2	100.5	92.5	1.0	1.2	1.0	1.2	60.4	60.0	49.6	15.2–15.8	10.4	12.2	1 ½"
	160.8	156.8	1.5	1.7	1.5	1.7	59.8	62.7	50.7	15.2–16.7	10.4	12.2	1 ½"
SV 200/2	120.6	104.5	1.5	1.7	1.5	1.7	64.5	67.6	56.2	16.8	12.1	14.1	2"
	164.8	172.9	2.0	2.4	2.0	2.4	64.5	67.6	62.8	17.0	12.1	14.1	2"
SV 201/2	104.5	92.5	1.5	1.7	1.5	1.7	66.9	70.0	56.2	16.8	12.1	14.1	2"
	168.8	160.8	2.0	2.4	2.0	2.4	66.9	70.0	62.8	17.0	12.1	14.1	2"
SV 300/2	132.7	112.6	3.0	3.6			68.3	68.5	89.3	18.5	14.6	16.8	2 ½"
	207.0	180.9	4.0	4.8			71.7	74.5	94.8	19.5	14.6	16.8	2 ½"
SV 400/2	156.8	140.7	4.0	4.8			73.1	75.1	118.0	19.3	15.4	17.9	3"
	213.1	201.0	5.4	6.4			73.1	75.1	119.1	19.8	15.4	17.9	3"
SV 500/2	148.7	136.7	5.4	6.4			69.9	71.6	≤137.8	19.5	18.7	20.6	3"
	193.0	213.1	7.4	8.9			69.8	72.2	148.8	20.9	18.7	20.6	3"
SV 700/2	132.7	100.5	7.4	8.9			68.0	69.0	196.2	22.5	19.5	23.5	4"
	201.0	180.9	10.1	12.1			70.0	73.0	247.0	24.2	19.5	23.5	4"
SV 1100/2	100.5	64.3	10.1	12.1			70.0	75.0	260.2	24.5	20.7	24.1	4"
	197	164.8	14.8	17.7			72.0	82.0	275.6	25.3	20.7	24.1	4"

VARIAIR SV • VARIAIR Speed Flow

SIDE CHANNEL BLOWERS

- Non-contact compression
- Single or double stage
- Air-cooled
- VARIAIR frequency inverter



VARIAIR SV 300



VASF 2.120 AC [2]

		CFM [1]												CFM [1]	
	PSIG	0	0.725	1.45	2.175	2.9	3.625	4.35	5.075	5.8	6.525	7.25	7.975		@ max.
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8	180.9	201	221.1		in. H_2O
Single stage															
VARIAIR SV 130/1	100 Hz	168	156	145	133	122	111	100	89	61				56	162.8
VARIAIR SV 201/1	100 Hz	206	197	185	172	161	131	81						24	136.7
VARIAIR SV 300/1	87 Hz	329	304	287	247	196	74							45	102.5
VARIAIR SV 300/1	100 Hz	376	373	356	340	316	265	191	94					93	142.7
VARIAIR SV 400/1	100 Hz	509	481	462	442	423	377	307	210					126	152.8
VARIAIR SV 500/1	100 Hz	588	579	562	544	525	505	485	465	446	399	354		302	213.1
VARIAIR SV 700/1	80 Hz	694	663	633	605	575	545	512	430	261				230	164.8
VASF 2.50/1	300 Hz	28	25	24	22	21	19							0.1	116.9 AC 112.6 DC
VASF 2.80/1	250 Hz	53	47	44	42	39	35							0.1	112.6 AC 116.6 DC
VASF 2.120/1	200 Hz	84	73	69	66	55								0.1	92.5 AC
Double stage															
VARIAIR SV 130/2	100 Hz	82	78	74	70	66	63	59	56	54	50	48	45	45	221.1
VARIAIR SV 201/2	100 Hz	103	99	96	93	89	86	84	81	76	68	59	48	44	225.1
VARIAIR SV 300/2	100 Hz	176	174	170	165	161	157	153	148	138	125	108	88	78	229.1
VASF 2.50/2	300 Hz	14	13	12	11	11	10	10	9	9	9	8	2	0.1	225.1 AC
VASF 2.80/2	250 Hz	26	24	22	21	20	19	18	18	17	16	10	3	0.1	229.1 AC 229.1 DC
VASF 2.120/2	200 Hz	42	38	35	34	32	31	30	29	27	6			0.1	184.9 AC

Technical data						
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
VARIAIR SV 130/X	5.4 hp • 400/480 V ±10% • 50/60 Hz	71.0	67.3	16.7	10.4	15.0	1 ½"
VARIAIR SV 201/X	5.4 hp • 400/480 V ±10% • 50/60 Hz	77.7	70.6	16.9	12.1	16.0	2"
VARIAIR SV 300/1 87 Hz	5.4 hp • 400/480 V ±10% • 50/60 Hz	69.6	101.4	19.4	14.6	18.0	2 ½"
VARIAIR SV 300/X 100 Hz	10.1 hp • 400/480 V ±10% • 50/60 Hz	72/75	109.1	20.2	14.6	19.7	2 ½"
VARIAIR SV 400/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	77.8	165.4	22.5	15.4	23.3	3"
VARIAIR SV 500/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	80.9	215.0	23.6	18.7	24.6	3"
VARIAIR SV 700/1	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	75.1	264.6	24.9	19.5	26.9	4"
VASF 2.50/X	0.87 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	61.0	27.1	13.9	6.9	10.1	1"
	0.80 hp • AC~ • 100 V -10% ... 115 V +10% • 50/60 Hz	61.0	27.1	13.9	6.9	10.1	1"
	1.0 hp • DC~ • 24 V ±20%	65.0	25.4	13.9	6.8	9.2	1"
VASF 2.80/X	1.48 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	61.0	33.1	15.4	6.9	11.5	1 ¼"
	1.48 hp • DC~ • 48 V ±20%	65.0	32.4	15.4	6.8	10.6	1 ¼"
VASF 2.120/X	1.88 hp • AC~ • 200 V -10% ... 230 V +10% • 50/60 Hz	63.0	41.5	17.0	7.9	12.6	1 ½"

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±10%
[2] Optionally with integrated VARIAIR frequency inverter, fan and silencers

VARIAIR RV • VATP

RADIAL BLOWERS

- Non-contact compression
- Air-cooled
- VARIAIR RV with external VARIAIR frequency inverter
- VATP (VARIAIR Turbo Package) consisting of RV 2.1944/10, VARIAIR frequency inverter, intake filter and sound enclosure



RV 2.1944/10



VATP 1600

		CFM [1]									
	PSIG	0	0.725	1.45	2.175	2.9	3.625	4.35	5.075	5.8	5.945
	in. H_2O	0	20.1	40.2	60.3	80.4	100.5	120.6	140.7	160.8	164.8
RV 2.1944/10	400 Hz	923	923	865	790	717	643	569	496	339	268
VATP 1600	400 Hz	923	923	865	790	717	643	511	496	339	268

Technical data							
	Frequency inverter	db(A)	lbs	Inch			Connection
				Length	Width	Height	
RV 2.1944/10	14.8–29.5 hp [2] • 400/480 V ±10% • 50/60 Hz	75	178.6	21.7 [3]	17.7 [3]	20.5 [3]	Ø 5.91 Inch
VATP 1600	14.8–29.5 hp • 400/480 V ±10% • 50/60 Hz	64	357.2	32.1	22.6	44.7	[4]

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±5%
[2] Alternatively available as 10.1 hp version (see pump data sheet)
[3] Without frequency inverter
[4] Flange for hose connector

T • DVT

ROTARY VANE PRESSURE/VACUUM PUMPS

- Oil-free
- Air-cooled
- Integrated suction filter
- Pressure and vacuum regulating valve



T 4.40 DSK



DVT 3.100

		CFM – Suction | Blast air rate[1]					
		50 Hz			60 Hz		
		0 in. Hg	-7.4 in. Hg	-14.8 in. Hg	0 in. Hg	-7.4 in. Hg	-14.8 in. Hg
T 4.10 DV	3.63 PSIG	5.6 | 5.6	4.2 | 4.2	2.4 | 2.4	6.9 | 6.9	4.8 | 4.8	2.9 | 4.9
	7.25 PSIG	5.5 | 5.5	3.8 | 3.8	2.1 | 2.1	6.5 | 6.5	4.1 | 4.1	2.6 | 4.5
T 4.16 DV	3.63 PSIG	9.1 | 9.1	6.5 | 6.5	3.8 | 3.8	10.6 | 10.6	7.8 | 7.8	4.7 | 8.0
	7.25 PSIG	8.8 | 8.8	5.9 | 5.9	3.5 | 3.5	10.5 | 10.5	7.2 | 7.2	4.3 | 7.3
T 4.25 DV	3.63 PSIG	13.9 | 13.9	9.7 | 9.7	5.4 | 5.4	16.6 | 16.6	11.8 | 11.8	6.7 | 11.4
	7.25 PSIG	13.0 | 13.0	8.8 | 8.8	4.6 | 4.6	15.8 | 15.8	10.8 | 10.8	6.0 | 10.2
T 4.40 DV	3.63 PSIG	21.1 | 21.1	15.2 | 15.2	8.8 | 8.8	25.0 | 25.0	17.9 | 17.9	9.7 | 16.5
	7.25 PSIG	20.1 | 20.1	14.1 | 14.1	7.9 | 7.9	24.2 | 24.2	17.2 | 17.2	7.9 | 13.5
		50 Hz			60 Hz		
		0 in. Hg	-14.8 in. Hg	-17.7 in. Hg	0 in. Hg	-14.8 in. Hg	-17.7 in. Hg
T 4.25 DSK	7.25 PSIG	13.8 | 14.6	5.8 | 10.7	4.2 | 9.9	16.8 | 18.1	7.2 | 12.6	5.4 | 11.5
	8.70 PSIG	13.5 | 14.4	5.7 | 10.5	4.1 | 9.7	16.6 | 17.9	7.2 | 12.5	5.3 | 11.4
T 4.40 DSK	7.25 PSIG	20.3 | 19.9	7.9 | 13.6	5.8 | 11.8	24.8 | 24.6	10.0 | 16.0	7.5 | 14.0
	8.70 PSIG	20.1 | 19.6	7.8 | 13.4	5.7 | 11.3	24.2 | 24.2	9.6 | 15.6	7.1 | 13.5
DVT 3.60	7.25 PSIG	32.5 | 33.5	13.1 | 22.0	9.5 | 19.3	38.2 | 40.2	15.9 | 25.6	12.4 | 22.8
	8.70 PSIG	32.1 | 33.1	12.9 | 21.8	9.2 | 19.1	37.5 | 39.5	16.0 | 25.5	12.1 | 22.4
DVT 3.80	7.25 PSIG	37.6 | 38.8	14.7 | 27.7	10.6 | 25.3	45.0 | 47.9	18.8 | 33.4	13.8 | 29.8
	8.70 PSIG	37.1 | 38.1	14.5 | 27.5	10.3 | 24.9	44.7 | 47.4	18.6 | 32.9	13.8 | 29.5
DVT 3.100	7.25 PSIG	56.2 | 57.6	23.6 | 39.3	17.5 | 34.6	66.9 | 70.0	29.4 | 46.0	22.1 | 39.9
	8.70 PSIG	56.5 | 57.9	23.5 | 39.2	17.6 | 34.6	66.3 | 69.3	29.0 | 45.7	22.1 | 39.9
DVT 3.140	7.25 PSIG	74.1 | 81.2	32.3 | 53.5	24.1 | 47.1	87.6 | 95.9	39.1 | 61.2	29.4 | 53.5
	8.70 PSIG	74.1 | 81.2	30.0 | 52.3	22.3 | 45.9	87.0 | 95.3	38.8 | 60.6	29.4 | 52.9

Technical data													
	max. PSIG		hp 3~		hp 1~		db(A)		lbs	Inch			Connection
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		Length	Width	Height	
T 4.10 DV	7.25	7.25	0.5	0.6	0.5	0.6	55	58	35.3	16.9	8.2	7.6	½"
T 4.16 DV	7.25	7.25	0.7	0.9	0.7	0.9	61	63	52.9	17.8	9.1	8.3	½"
T 4.25 DV	7.25	7.25	1.0	1.2	1.1	1.5	69	69	57.3	19.9	10.2	11.4	¾"
T 4.40 DV	7.25	7.25	1.7	2.0			66	68	84.9	22.5	11.0	11.4	¾"
T 4.25 DSK	8.70	8.70	1.5	1.7	1.5		69	69	77.2	21.5	12.9	11.4	¾"
T 4.40 DSK	8.70	8.70	2.5	3.0			68	68	101.4	24.6	12.9	11.4	¾"
DVT 3.60	7.25/8.70	7.25/8.70	3.0/4.0	3.5/4.8			≤75	≤76	185.2	≤29.4	13.9	12.9	1"
DVT 3.80	7.25/8.70	7.25/8.70	5.4/5.4	6.4/6.4			≤76	≤77	250.3	≤34.0	13.9	12.9	1"
DVT 3.100	7.25/8.70	7.25/8.70	7.4/7.4	8.9/8.9			≤77	≤78	296.6	≤37.5	18.5	13.2	1 ½"
DVT 3.140	7.25/8.70	7.25/8.70	10.1/10.1	12.1/12.1			≤78	≤79	321.9	≤37.5	18.5	13.2	1 ½"

[1] Reference (atmosphere): 14.5 PSIA, 68°F / tolerance: ±5%

PS

ROOTS BOOSTER PACKAGES (PUMPING STATIONS)

- Consisting of an oil-lubricated rotary vane vacuum pump and a booster pump (roots) with integrated bypass as a backup for packaging processes with quick cycling times for high operational reliability and availability



PS 200/500

Technical data													
	CFM [1]		Torr	RBP	hp 3~		U 5 / U 4	hp 3~		lbs	Inch			Connection
	50 Hz	60 Hz	50+60 Hz		50 Hz	60 Hz		50 Hz	60 Hz	total	Length	Width	Height	
PS 200/500	294	353	< 0.075	RBP 500	3.0–4.0	3.0–4.0	U 5.201	5.4	6.4	≈728	37.7	27.7	42.9	DN100
PS 300/500	294	353	< 0.075	RBP 500	3.0–4.0	3.0–4.0	U 5.301	7.4	8.9	≈838	40.3	27.7	42.9	DN100
PS 300/1000	588	706	< 0.075	RBP 1000	5.4–7.4	5.4–7.4	U 5.301	7.4	8.9	≈1058	44.7	27.7	44.2	DN100
PS 630/2000	1176	1412	< 0.075	RBP 2000	7.4–10.1	7.4–10.1	U 4.630	20.1	24.8	≈2426	60.6	34.5	59.0	DN150

[1] Nominal air flow refers to intake pressure; Reference (atmosphere): 750 Torr, 68°F / tolerance: ±10%

D1 • D2 • D3 • L1 • L2 • L3

VACUUM SYSTEMS

- Dry-running (D) or oil-lubricated (L)
- 1, 2 or 3 rotary vane vacuum pumps
- Vacuum vessel, condensate drain and suction filter



D1/D2/D3			Technical data per pump		
	Pumps	Vessel [US gal]	CFM 50/60Hz	in. Hg V 50/60Hz	hp 50/60Hz
D1-060X/0250-34D	1x KVX 3.60	66	32/39	27/27	3.0/3.5
D1-080X/0250-34D	1x KVX 3.80	66	39/46	27/27	3.0/3.5
D1-100X/0250-34D	1x KVX 3.100	66	58/66	27/27	4.0/4.8
D1-140X/0250-34D	1x KVX 3.140	66	76/91	27/24	5.4/6.4
D1-250X/0500-34D	1x VXLF 2.250	132	144/168	24/24	7.4/8.9
D2-040X/0250-34D	2x VX 4.40	66	23.5/28.2	27/27	1.7/2.0
D2-060X/0250-34D	2x KVX 3.60	66	32/39	27/27	3.0/3.5
D2-080X/0500-34D	2x KVX 3.80	132	39/46	27/27	3.0/3.5
D2-100X/0500-34D	2x KVX 3.100	132	58/66	27/27	4.0/4.8
D2-140X/0500-34D	2x KVX 3.140	132	76/91	27/24	5.4/6.4
D3-025X/0250-VC+	3x VX 4.25	66	14.7/17.6	27/27	1.0/1.2
D3-040X/0250-VC+	3x VX 4.40	66	23.5/28.2	27/27	1.7/2.0
D3-060X/0500-VC+	3x KVX 3.60	132	32/39	27/27	3.0/3.5
D3-080X/0500-VC+	3x KVX 3.80	132	39/46	27/27	3.0/3.5
D3-100X/0500-VC+	3x KVX 3.100	132	58/66	27/27	4.0/4.8

L1/L2/L3			Technical data per pump		
	Pumps	Vessel [US gal]	CFM 50/60Hz	in. Hg V 50+60Hz	hp 50/60Hz
L1-5.101/0250-34D	1x U 5.101	66	59/71	<0.075–300	3.0/3.5
L1-5.166/0250-34D	1x U 5.166	66	97/116	<0.075–300	5.4/6.4
L1-5.201/0500-34D	1x U 5.201	132	118/141	<0.075–300	7.4/8.9
L2-5.45/0250-34D	2x U 5.45	66	26.5/31.8	0.375	1.5/1.8
L2-5.101/0250-34D	2x U 5.101	66	59/71	<0.075–300	3.0/3.5
L2-5.101/0500-34D	2x U 5.101	132	59/71	<0.075–300	3.0/3.5
L2-5.166/1000-34D	2x U 5.166	264	97/116	<0.075–300	5.4/6.4
L2-5.201/1000-34D	2x U 5.201	264	118/141	<0.075–300	7.4/8.9
L2-5.301/1000-34D	2x U 5.301	264	176/218	<0.075–300	10.1/12.1
L3-5.101/0500-VC+	3x U 5.101	132	59/71	<0.075–300	3.0/3.5
L3-5.166/1000-VC+	3x U 5.166	264	97/116	<0.075–300	5.4/6.4
L3-5.201/1000-VC+	3x U 5.201	264	118/141	<0.075–300	7.4/8.9
L3-5.301/1000-VC+	3x U 5.301	264	176/218	<0.075–300	10.1/12.1

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