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Vacuum Pumps and Compressors

Rotary Vane Vaccum Pumps and Compressors
Free moving vanes are inserted into slots in the pump rotor, which is mounted eccentricly in the pump cylinder. As the rotor turns, centrifugal force throws the vanes against the cylinder wall, creating several chambers in the compression space between the rotor and the cylinder. As these chambers pass the intake port, air flows into them, and as the rotor continues to turn, the air is compressed owing to the eccentricity of the rotor, until finally the compressed air is pushed out through the outlet port.
Both rotary vane vacuum pumps and compressors are manufactured as oil lubricated ar non-lubricated versions, and the rotary vane principal is renowned for its robustness and durability.

Side Channel Vacuum Pumps and Compressors
In the chambers set in the periphery of the impeller, air is accelerated due to the centrifugal force created as the impeller turns, and is thrown into the side channels. It then flows into the next chamber, and is again similarly accelerated, thus continuously increasing compression as the impeller turns until it reaches the outlet port.
Side Channel pumps operate oil free, and as the impeller rotates without contact with the inside of the housing, the compression space is free from wear.

Rotary Vane Combined Vacuum Pumps and Compressors
These units, working on the same basic principle of the rotary vane, are additionally equipped with a so-called "second suction" port.
At a certain point in the suction cycle after the vacuum inlet, a defined amount of fresh air is let into the pump through the seond suction opening from the atmoshere, thus allowing the pump not only to produce a good vacuum, but simultaneously produce a very high blast air flow even after the vacuum has been generated.
The Rotary Vane combined pumps are manufactured as non-lubricated units, with vanes that are made from a special self-lubricationg material with a very long service life, ensuring that the blast air is totally free from oil contamination.

Centrifugal Compressors

Air flows into the compressor through the centrally situated input duct in the compressor housing, where it is directed radially and accelerated by centrifugal force, so achieving compression.
The compressed air flows out radially from the outer diameter of the fan housing.
The impeller works inside the compressor housing without cotact, so the compression space is free from wear.

Model	Air Cooled	Water Cooled	Flow, m³/h @ 50 Hz[4]	Overpressure, bar (max.)[5]	Motor Power, kW[6]	R.P.M. @ 50 Hz[7]	Single Phase Motor, Volts/Hz[8]	Three Phase Motor, Volts/Hz[9]	Noise Level, dB(A) @ 1 metre[10]	Length, mm[11]	Width, mm[11]	Height, mm[11]	Inlet Port Thread, G"	Weight with motor, kg[12]	Weight without motor, kg[12]
Rotary Vane Compressors, Oil-Free															
DT 4.4	●		4	1	0.18	2800	230 V ± 10% 50/60 Hz	175 – 260/300 – 450 V 50 Hz 202 – 300/350 – 520 V 60 Hz	60	221.5	151.5	165.5	1/4"	7	7)
DT 4.8	●		8	1	0.35	2800	230 V ± 10% 50/60 Hz	175 – 260/300 – 450 V 50 Hz 202 – 300/350 – 520 V 60 Hz	58	251	151.5	171.5	3/8"	11.5	7)
DT 4.10	●		10	1	0.37	1420	230 V ± 10% 50/60 Hz	175 – 260/300 – 450 V 50 Hz 202 – 300/350 – 520 V 60 Hz	60	429	206	195	1/2"	16	7)
DT 4.16	●		16	1	0.55	1420	230 V ± 10% 50/60 Hz	175 – 260/300 – 450 V 50 Hz 202 – 300/350 – 520 V 60 Hz	62	452	231	211	1/2"	23.5	7)
DT 4.25	●		25	1	1.1	1420	230 V ± 10% 50 Hz	190 – 255/330 – 440 V 50 Hz 190 – 290/330 – 500 V 60 Hz	65	545	328	290	3/4"	36.5	7)
DT 4.40	●		40	1	1.85	1420	230 V ± 10% 50 Hz	190 – 255/330 – 440 V 50 Hz 190 – 290/330 – 500 V 60 Hz	67	625	328	290	3/4"	46	7)
KDT 3.60	●		55	1.5	3.0	1450	1)	230/400 V ± 10%, 50 Hz	72	703	353	328	1"	69	47
KDT 3.80	●		68	1.5	4.0	1450	1)	230/400 V ± 10%, 50/60 Hz	74	703	353	328	1"	77	49
KDT 3.100	●		98	1.5	5.5	1450	1)	400/690 V ± 10%, 50/60 Hz	76	891	470	336	1 1/2"	127	71
KDT 3.140	●		135	1.5	7.5	1450	1)	400/690 V ± 10%, 50/60 Hz	82	929	470	336	1 1/2"	146	78
DTLF 250	●		250	2.0	15.0	960	1)	400/690 V ± 10%, 50/60 Hz	85	1344	612	493.5	2 1/2"	410	235
DTLF 360	●		360	1.8	22.0	1450	1)	400/690 V ± 10%, 50 Hz	93	1324	612	493.5	2 1/2"	405	235
DTLF 500	●		500	1.8	30.0	950	1)	400/690 V ± 10%, 50/60 Hz	84	1576	766	660	4"	600	320

Model	Air Cooled	Flow, m³/h @ 50 Hz	Max. Overpressure + bar[5]	Max. Negative pressure – bar[5]	Motor Power, kW[6]	R.P.M. @ 50 Hz[7]	Single Phase Motor, Volts/Hz[8]	Three Phase Motor, Volts/Hz[9]	dB (A) @ 1 metre[10] Noise Level,	Length, mm[11]	Width, mm[11]	Height, mm[11]	Inlet Port Thread, G"	Weight with motor, kg[12]	Weight without motor, kg[12]
Combined Rotary Vane Vacuum Pumps/Compressors, Oil-Free															
T 4.16 DS	●	16	0.6	0.6	0.55	1420	230 V ± 10% 50/60 Hz	175 – 260/ 300 – 450 V 50 Hz 202 – 300/ 350 – 520 V 60 Hz	65	452	231	211	1/2"	23.5	8)
T 4.25 DSK	●	25	0.6	0.6	1.1	1420	230 V ± 10% 50 Hz	190 – 255/ 330 – 440 V 50 Hz 190 – 290/ 330 – 500 V 60 Hz	69	545	328	290	3/4"	35	8)
T 4.40 DSK	●	40	0.6	0.6	1.85	1420	230 V ± 10% 50 Hz	190 – 255/ 330 – 440 V 50 Hz 190 – 290/ 330 – 500 V 60 Hz	68	625	328	290	3/4"	46	8)
DVT 3.60	●	58	0.6	0.6	3	1420	9)	230/400 V ± 10% 50/60 Hz	75	703	353	328	1"	69	47
DVT 3.80	●	70	0.6	0.6	3	1420	9)	230/400 V ± 10% 50/60 Hz	76	703	353	328	1"	72	49
DVT 3.100	●	103	0.6	0.6	5.5	1430	9)	400/690 V ± 10% 50/60 Hz	77	891	470	336	1 1/2"	120	71
DVT 3.140	●	137	0.6	0.6	7.5	1450	9)	400/690 V ± 10% 50/60 Hz	78	929	470	336	1 1/2"	136	78
DVTLF 250	●	250	0.5	0.5	7.5	960	9)	400/690 V ± 10% 50/60 Hz	83	1189	612	534	2 1/2"	350	235

Model	Air Cooled	Flow, m³/h @ 50 Hz	Negative pressure, mbar (max.)[5], or Overpressure, mbar (max.)[5]		Motor Power, kW[6]	R.P.M. @ 50 Hz[7]	Single Phase motor, Volts/Hz[8]	Three Phase motor, Volts/Hz[9]	dB (A) @ 1 metre[10] Noise Level,	Diameter, mm[11]	Height, mm[11]	Port Internal Thread, G"	Weight with motor, kg[12]
Side Channel Vacuum Pumps and Compressors, Two Stage													
SV 8.90/2-01	●	45	240	230	0.55	2820	230 V ± 10% 50/60 Hz	230/400 V ± 10% 50/60 Hz	63	270	421	2"	23
SV 8.130/2-01	●	65	300	300	0.75	2820	230 V ± 10% 50/60 Hz	230/400 V ± 10% 50/60 Hz	64	270	431	2"	24
SV 8.160/2-01	●	72	340	320	1.1	2820	230 V ± 10% 50/60 Hz	230/400 V ± 10% 50/60 Hz	65	270	439	2"	25
SV 7.190/2-01	●	95	395	400	1.5	2820	8)	230/400 V ± 10% 50/60 Hz	63	347	445	2"	32
SV 5.250/2	●	135	400	400	2.0	2820	7)	230/400 V ± 10% 50 Hz	65	375	431	2"	29
SV 7.330/2-01	●	155	475	400	3.0	2820	7)	230/400 V ± 10% 50/60 Hz	73	420	500	2 1/2"	40
SV 7.430/2-01	●	235	450	325	4.0	2820	7)	230/400 V ± 10% 50/60 Hz	76	420	512	2 1/2"	40
SV 5.690/2	●	355	500	400	7.5	2820	7)	400/690 V ± 10% 50/60 Hz	74	497	657	4"	115

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