

Rotary Vane Vacuum Pumps

Dr. Frank



Frank Make Rotary Vane (Medical) Vacuum System shall ensure the minimum pipeline vacuum level of 450mmHg is maintained at the plant service connection point at the rated volumetric 'free air' flow rate with either two pumps in standby (ISO7396-1/HTM02-01) or with one pump on standby (HTM2022). The bacteria filtration system shall be 'duplexed' such that each filter can be isolated for replacement of the filter cartridge.

Vacuum Pumps

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Control Systems

The central control system shall provide an intelligent human machine interface incorporating on board flash memory and real-time clock for recording operational parameters in the in-built event log. Cascading of vacuum pumps shall be achieved by measuring the vacuum level at the plant inlet with a pressure transducer.

Vacuum Receiver

Vacuum receiver(s) shall be supplied with relevant test certificates and have a total volume of at least 100% of the plant output in 1 minute in terms of free air aspirated at normal working pressure. Each vacuum receiver shall be painted as normal.

Features

Rotary vane vacuum pumps are designed for silent & continuous operation. The built-in exhaust filter ensures an oil-mist free exhaust gas over the entire range of operating pressures from atmospheric pressure to ultimate pressure.

Single (Centralised Rotary Vane Vacuum Plant)								
Model	Piston Displacement		Vacuum (Hg)		Motor Power		Vacuum Pump	Tank Capacity
	LPM	cfm	Inch	mm	HP	Kw	(rpm)	Litres
SV-063	1050	37	0.2	5.1	3	2.2	1400	270/500
SV-160	2667	94	0.2	5.1	5.5	4.0	1440	270/500
SV-200	3333	118	0.2	5.1	7.5	5.5	1440	500
SV-300	5000	176	0.03	0.82	10	7.5	1440	-
SV-630	10667	377	0.03	0.82	20	15	970	-
Duplex (Centralised Rotary Vane Vacuum Plant)								
Model	Piston Displacement		Vacuum (Hg)		Motor Power		Vacuum Pump	Tank Capacity
	LPM	cfm	Inch	mm	HP	Kw	(rpm)	Litres
CEVAC - 63D	2100	74	0.2	5.1	3+3	2.2*2	1400	-
CEVAC - 100D	4166	148	0.2	5.1	5+5	3.7*2	1400	-
CEVAC - 163D	5334	188	0.2	5.1	5.5+5.5	4*2	1440	-
CEVAC - 200D	6666	236	0.2	5.1	7.5+7.5	5.5*2	1440	-
CEVAC - 300D	10000	352	0.03	0.82	10+10	7.5*2	1440	-
Duplex (Centralised Rotary Vane Vacuum Plant - Vertical Receiver)								
Model	Piston Displacement		Vacuum (Hg)		Motor Power		Vacuum Pump	Tank Capacity
	LPM	cfm	Inch	mm	HP	Kw	(rpm)	Litres
CEVAC - 63DVR	2100	74	0.2	5.1	3+3	2.2*2	1400	220/270
CEVAC - 100DVR	4166	148	0.2	5.1	5+5	3.7*2	1400	270/500
CEVAC - 163DVR	5334	188	0.2	5.1	5.5+5.5	4*2	1440	270/500
CEVAC - 200DVR	6666	236	0.2	5.1	7.5+7.5	5.5*2	1440	500/1000
CEVAC - 300DVR	10000	352	0.03	0.82	10+10	7.5*2	1440	500/1000

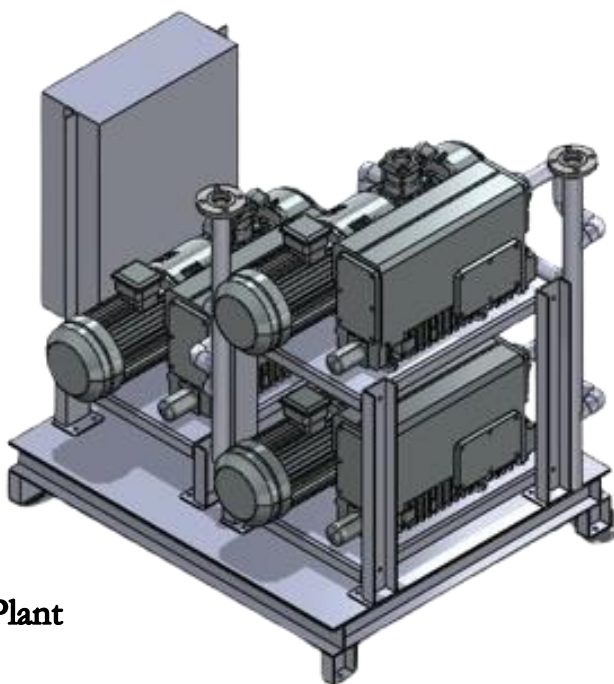
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Triplex (Centralised Rotary Vane Vacuum Plant)

Model	Piston Displacement		Vacuum (Hg)		Motor Power		Vacuum Pump	Tank Capacity
	LPM	cfm	Inch	mm	HP	Kw	(rpm)	Litres
CEVAC - 63T	3150	111	0.2	5.1	3+3+3	2.2*3	1400	-
CEVAC - 100T	6249	222	0.2	5.1	5+5+5	3.7*3	1400	-
CEVAC - 163T	8001	282	0.2	5.1	5.5+5.5+5.5	4*3	1440	-
CEVAC - 200T	9999	354	0.2	5.1	7.5+7.5+7.5	5.5*3	1440	-
CEVAC - 300T	15000	528	0.03	0.82	10+10+10	7.5*3	1440	-

Triplex (Centralised Rotary Vane Vacuum Plant- Vertical Receiver)

Model	Piston Displacement		Vacuum (Hg)		Motor Power		Vacuum Pump	Tank Capacity
	LPM	cfm	Inch	mm	HP	Kw	(rpm)	Litres
CEVAC - 63TVR	3150	111	0.2	5.1	3+3+3	2.2*3	1400	270
CEVAC - 100TVR	6249	222	0.2	5.1	5+5+5	3.7*3	1400	500
CEVAC - 163TVR	8001	282	0.2	5.1	5.5+5.5+5.5	4*3	1440	500
CEVAC - 200TVR	9999	354	0.2	5.1	7.5+7.5+7.5	5.5*3	1440	1000
CEVAC - 300TVR	15000	528	0.03	0.82	10+10+10	7.5*3	1440	1000



Rotary Vane Vacuum Pump Plant

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