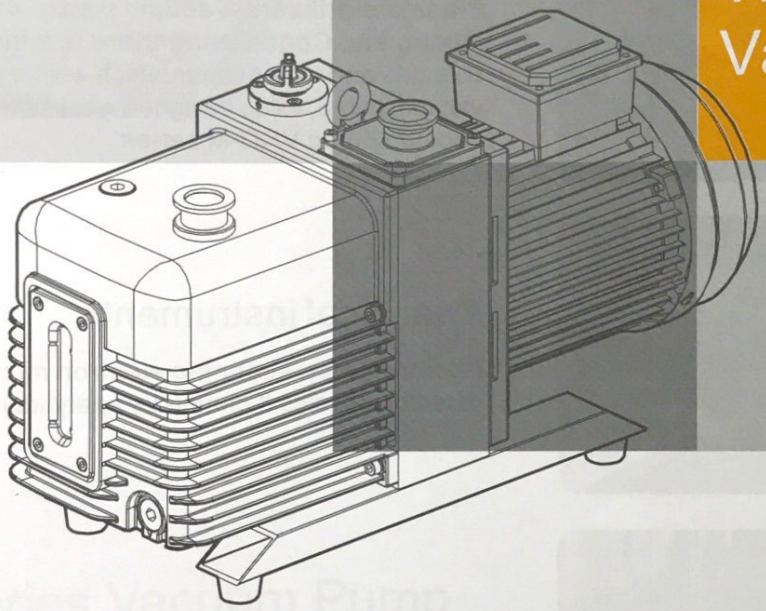
VRD dual stage Vacuum Pump



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● Patented Design

VRD Series

Perfect Performance

- Tow-Shift adjustable gas ballast valve satisfies different requirements of condensable vapor(such as water vapor) to be exhausted out of pump in different processes.
- Dual protection of oil anti-sucking back ensures vacuum system from oil pollution when pump stops running and needs to be easily restarted.
- Forced oil circulation system consisted of oil pump and constant pressure oil supply mechanism ensures stable running of the pump.
- Less components are used, easy to maintain and repair.

Specifications

Model		VRD-4	VRD-6	VRD-8	VRD-16	VRD-24	VRD-30	VRD-48	VRD-65
Displacement speed m^3/h (L/s)	50Hz	4(1.1)	6 (1.7)	8(2.2)	16(4.4)	24(6.6)	30(8.3)	48(13.3)	65(18)
	60Hz	4.8(1.3)	7.2(2)	9.6(2.6)	19.2(5.2)	28.8(7.9)	36(9.9)	57.6(16)	78(21.6)
Ultimate partial pressure gas ballast close (Pa)		5×10^{-2}	5×10^{-2}	5×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}
Ultimate total pressure gas ballast close (Pa)		5×10^{-1}	5×10^{-1}	5×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}
Ultimate total pressure gas ballast open (Pa)		10	10	10	8×10^{-1}	8×10^{-1}	8×10^{-1}	8×10^{-1}	8×10^{-1}
Power supply		Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase	Three-Phase	Three-Phase
Power rating (kW)		0.4/0.37	0.4/0.37	0.4/0.37	0.75/0.55	1.1/0.75	1.1	1.5	2.2
Intake and exhaust DN (mm)		KF16/25	KF16/25	KF16/25	KF25	KF25/40	KF25/40	KF40	KF40
Oil capacity (L)		0.6~1.0	0.6~1.0	0.6~1.0	0.9~1.5	1.3~2.0	1.3~2.0	3.3~4.5	3.3~4.5
Motor speed (rpm)	50Hz	1440	1440	1440	1440	1440	1440	1440	1440
	60Hz	1720	1720	1720	1720	1720	1720	1720	1720
Ambient temperature (°C)		10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40
Noise level (dB)		≤56	≤56	≤56	≤58	≤58	≤58	≤62	≤62
Weight (Kg)		19	19	21	30	35	43	62	65

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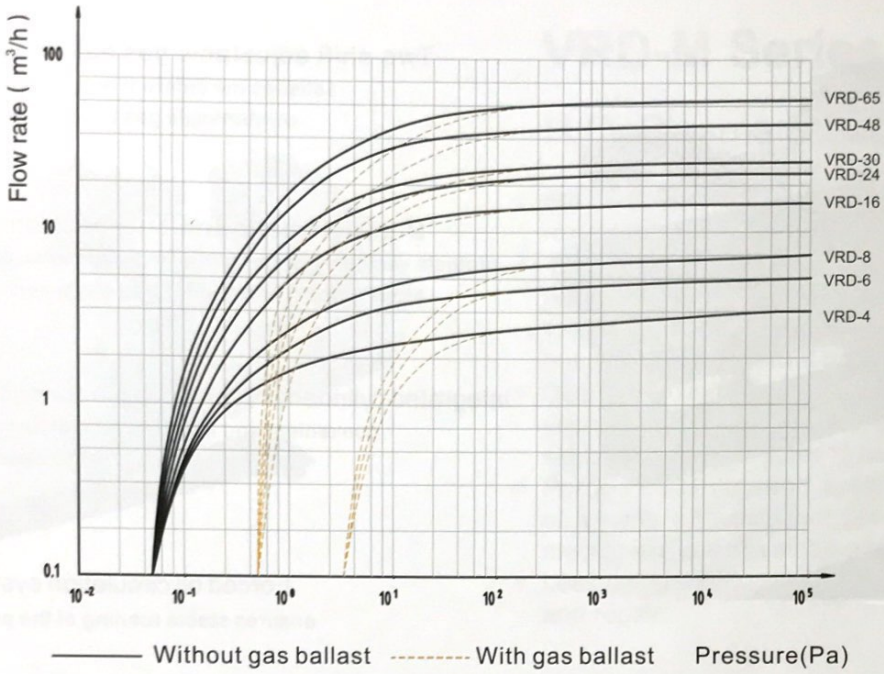
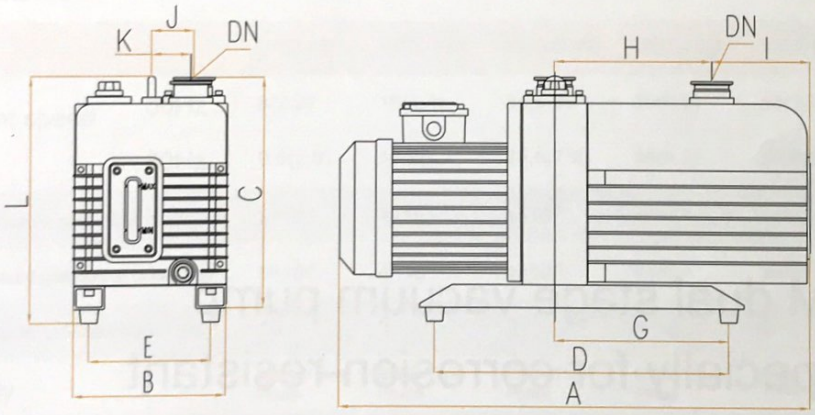
Flow Rate Characteristic



Dimension



VRD Dimensions

Model	A	B	C	D	E	G	H	I	J	K	L	DN
VRD-4	460	144	207	210	110	126	154	45	45	34	/	KF16/25
VRD-6	460	144	207	210	110	126	154	45	45	34	/	KF16/25
VRD-8	460	144	207	210	110	126	154	45	45	34	/	KF16/25
VRD-16	520	188	272	320	148	160	165	69	59	38	295	KF25
VRD-24	560	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-30	560	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-48	730	234	358	396	190	200	223	157	69	55	390	KF40
VRD-65	730	234	358	396	190	200	223	157	69	55	390	KF40

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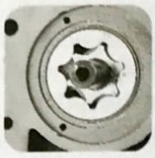
Two-shift adjustable gas ballast valve
satisfies the different requirements of condensable gas to be exhausted

Dual automatic anti-suckback design
protects vacuum system from oil pollution when pump stops running and needs to be easily restarted

Integrated cylinder structure and pin connection
convenient and accurate for maintenance and inspection



Forced oil circulation system
ensures stable running of the pump

VRD-M dual stage vacuum pump
——Specially for corrosion-resistant

We did individual analylsis on special applications such as medeical industry. Because large amount of corrosive gas and vapor needs to be pumped, we used stainless spring, fluorubber oil seal and etc. to upgrade our product,which ensures the pump to run reliably.

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VRD-M Series

H_2O_2 Plasma Sterilizers Pump

- Stainless spring is used for a better corrosion resistance.
- Two-Shift adjustable gas ballast valve satisfies different requirements of condensable vapor(such as water vapor) to be exhausted out of pump in different processes.
- Dual protection of oil anti-suckback ensures vacuum system from oil pollution when pump stops running and needs to be easily restarted.
- Forced oil circulation system consisted of oil pump and constant pressure oil supply mechanism ensures stable running of the pump.
- Less components are used, easy to maintain and repair.

Specifications

Model		VRD-8M	VRD-16M	VRD-24M	VRD-30M	VRD-48M	VRD-65M
Displacement speed m^3/h (L/s)	50Hz	8(2.2)	16(4.4)	24(6.6)	30(8.3)	48(13.3)	65(18)
	60Hz	9.6(2.6)	19.2(5.2)	28.8(7.9)	36(9.9)	57.6(16)	78(21.6)
Ultimate partial pressure gas ballast close (Pa)		5×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}	4×10^{-2}
Ultimate total pressure gas ballast close (Pa)		5×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}	4×10^{-1}
Ultimate total pressure gas ballast open (Pa)		10	3	3	3	3	3
Power supply		Single/Three Phase	Single/Three Phase	Single/Three Phase	Single/Three Phase	Three-Phase	Three-Phase
Power rating (kW)		0.4/0.37	0.75/0.55	1.1/0.75	1.1	1.5	2.2
Intake and exhaust DN (mm)		KF25	KF25	KF25/40	KF25/40	KF40	KF40
Oil capacity (L)		0.6~1.0	0.9~1.5	1.3~2.0	1.3~2.0	3.3~4.5	3.3~4.5
Motor speed (rpm)	50Hz	1440	1440	1440	1440	1440	1440
	60Hz	1720	1720	1720	1720	1720	1720
Ambient temperature (°C)		10 - 40	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40
Noise level (dB)		≤56	≤58	≤58	≤58	≤62	≤62
Weight (Kg)		21	30	35	43	62	65

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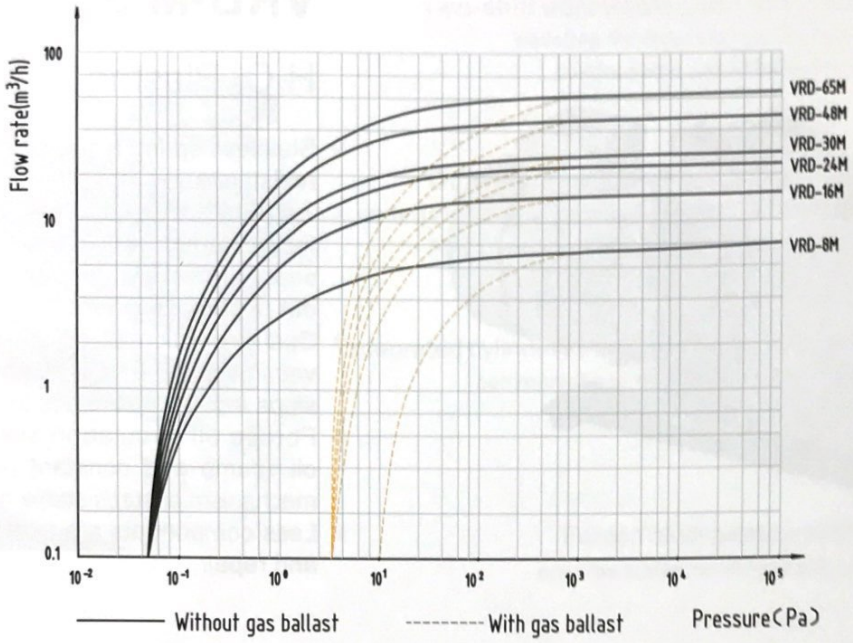
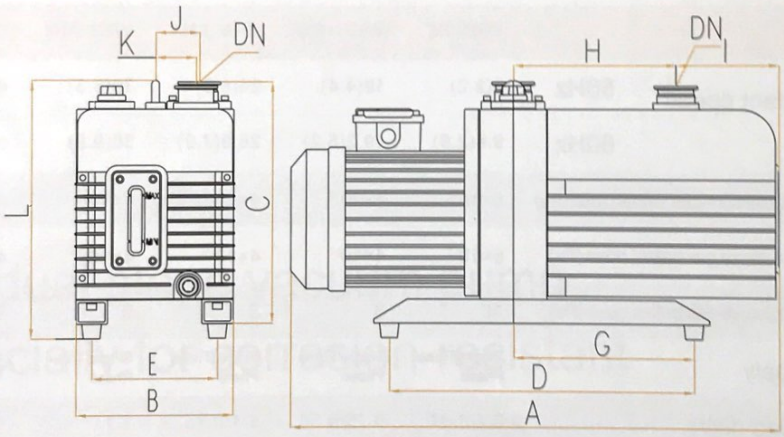
Flow Rate Characteristic



Dimension



VRD-M Dimensions

Model	A	B	C	D	E	G	H	I	J	K	L	DN
VRD-8M	460	144	207	210	110	126	154	45	45	34	/	KF25
VRD-16M	520	188	272	320	148	160	165	69	59	38	295	KF25
VRD-24M	560	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-30M	560	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-48M	730	234	358	396	190	200	223	157	69	55	390	KF40
VRD-65M	730	234	358	396	190	200	223	157	69	55	390	KF40

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