



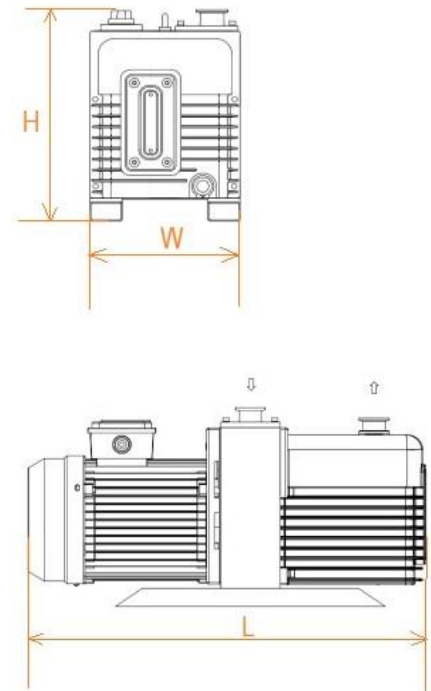
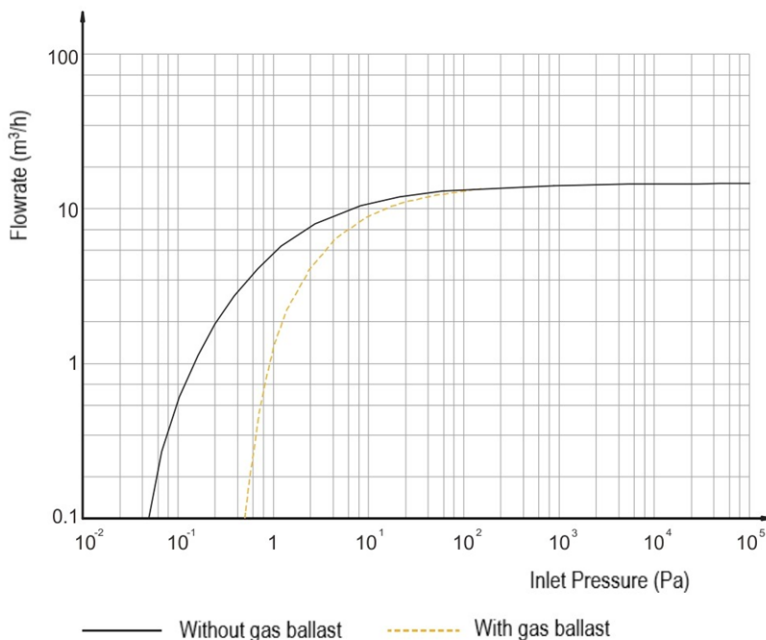
NAVAC offers the NRD and NRD M series rotary vane pumps. These are UL listed, two-stage, air-cooled, and direct-driven for long term continuous use. Typical applications include:

- ✓ Analytical Instruments (mass spectrometry, leak detection, RGA)
- ✓ Medical Equipment (plasma sterilizers, pharma freeze drying)
- ✓ Industrial Coatings (thin films, vacuum ovens, furnaces)
- ✓ Controlled Environment Horticulture (extraction, vacuum ovens)
- ✓ HVAC (refrigerant charging, helium leak detection and recovery)
- ✓ Electronics, Power, Gas Recovery, etc...
- ✓ General laboratory use (backing for turbo-pump, central vacuum)

DESIGN FEATURES

- Adjustable gas ballast valve – allows for the different requirements of condensable gases.
- Dual automatic anti-suckback design – protects vacuum system from oil contamination in the event of an unexpected shutdown.
- Forced oil circulation – ensures stable vacuum
- Integrated cylinder structure and pin connection – convenient and accurate for maintenance/inspection.
- M series pumps were specifically created for the plasma sterilization industry to handle the mild corrosiveness of H₂O₂ in the process. Excellent for freeze drying applications' high H₂O vapor content.

NRD16 Flow Rate Characteristic



TECHNICAL DATA



Pumping Speed (m ³ /h / cfm)	50 Hz	16 / 9.6
	60 Hz	18.4 / 11.2
Rotational Speed	50 Hz	1440
	60 Hz	1720
Ultimate Total Pressure	torr	3.00 x 10 ⁻³
	mbar	4.00 x 10 ⁻³
Ultimate Total Pressure w/ GB	torr	6.00 x 10 ⁻³
	mbar	8.00 x 10 ⁻³
Standard Cooling Method		air
Dimension (L x W x H)	in	20.5 x 7.4 x 10.7
	mm	520 x 188 x 272
Weight	(lb/kg)	73 / 33
Inlet / Outlet Ports		KF25
Power Rating @ 60Hz 1-ph	kW	0.75
	hp	1
Power Rating @ 60Hz 3-ph	kW	0.55
	hp	0.74
Oil Capacity	ml	1500
Sound emission	dB(A)	≤ 58
Water Vapor Tolerance	torr	18
	mbar	25
Water Vapor Capacity	kg/h	0.3
Protection Category		IP44
Ambient Temperature range	°C	5 - 40

ORDERING INFORMATION

Product Description	Order No. (Standard)	Order No. (M Series)	Order No. PFPE prepped	Order No. (M Series, PFPE prepped)
115V, 60Hz, 1 ph	N10161001	N10161001M	N10162001	N10162001M
230V, 50Hz, 1 ph	N10161002	N10161002M	N10162002	N10162002M
200-220/380-415V, 50Hz, 200-230/460v, 60Hz, 3 ph	N10161003	N10161003M	N10162003	N10162003M
Oil Mist Filter	NOT30B	NOT30B	NOT30B	NOT30B
Oil	NPO68H (1L)	NPO68H (1L)	* Prep Only *	* Prep Only *
Repair Kit	NSK16	NSK16M	NSK16	NSK16M