

NRD24 / NRD24M

TWO STAGE OIL-SEALED ROTARY VANE PUMP

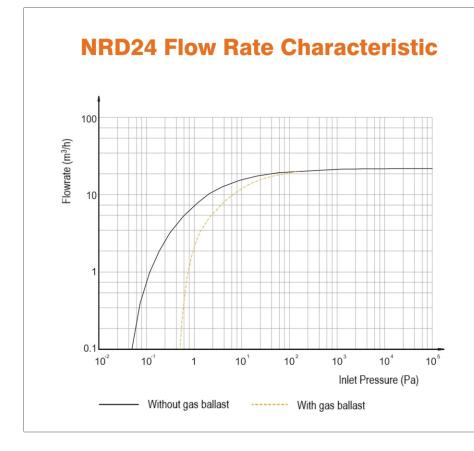


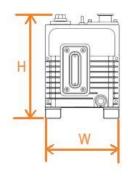
NAVAC offers the NRD and NRD M series rotary vane pumps. These are UL listed, two-stage, air-cooled, and direct-driven for long term continuous use. Typical applications include:

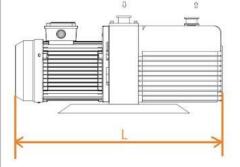
- ✓ Analytical Instruments (mass spectrometry, leak detection, RGA)
- ✓ Medical Equipment (plasma sterilizers, pharma freeze drying)
- ✓ Industrial Coatings (thin films, vacuum ovens, furnaces)
- ✓ Controlled Environment Horticulture (extraction, vacuum ovens)
- √ HVAC (refrigerant charging, helium leak 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.







TECHNICAL DATA



Durania a Canad (m3/h (star)	50 Hz	24 / 14.1		
Pumping Speed (m ³ /h / cfm)	60 Hz	28.9 / 17		
Potational Speed	50 Hz	1440		
Rotational Speed	60 Hz	1720		
Ultimate Total Pressure	torr	3.00 x 10 ⁻³		
Oldinate Total Plessure	mbar	4.00 x 10 ⁻³		
Ultimate Total Pressure w/ GB	torr	6.00 x 10 ⁻³		
Olumate Total Pressure w/ GB	mbar	8.00 x 10 ⁻³		
Standard Cooling Method		air		
Dimension (L x W x H)	in	22.1 x 7.4 x 10.7		
	mm	560 x 188 x 272		
Weight	(lb/kg)	77 / 35		
Inlet / Outlet Ports		KF25		
Power Rating @ 60Hz 1-ph	kW	1.1		
	hp	0.5		
Dougs Dating @ COUR 2 nh	kW	0.75		
Power Rating @ 60Hz 3-ph	hp	1		
Oil Capacity	ml	2000		
Sound emission	dB(A)	≤ 58		
Water Vapor Tolerance	torr	18		
	mbar	25		
Water Vapor Capacity	kg/h	0.5		
Protection Category		IP44		
Ambient Temperature range	°C	°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	N10241001	N10241001M	N10242001	N10242001M
230V, 50Hz, 1 ph	N10241002	N10241002M	N10242002	N10242002M
200-220/380-415V, 50Hz, 200-230/460v, 60Hz, 3 ph	N10241003	N10241003M	N10242003	N10242003M
Oil Mist Filter	NOT30B	NOT30B	NOT30B	NOT30B
Oil	NPO68H (1L)	NPO68H (1L)	* Prep Only *	* Prep Only *
Repair Kit	NSK24	NSK24M	NSK24	NSK24M



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