



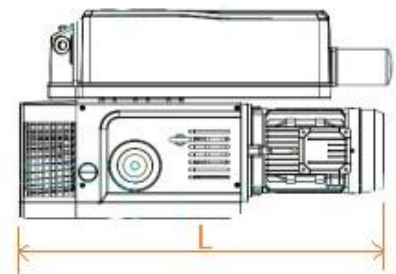
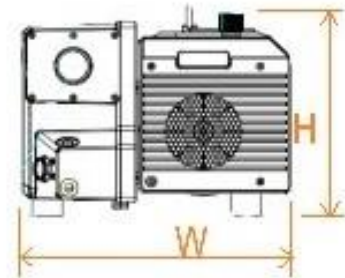
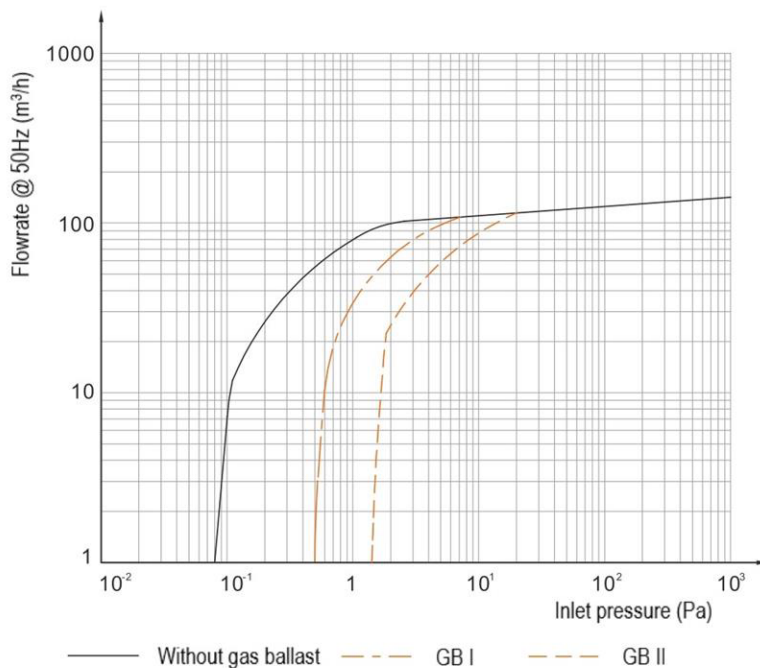
NAVAC offers the NRS series rotary vane pumps. These are single stage, air-cooled, and direct driven for long term and continuous use. Common applications include: Analytical Instruments (mass spectrometry, SEM)

- ✓ Battery Manufacturing (Li-ion) and Solar Panels
- ✓ Food & Beverage (Thermoforming, Vacuum Packaging, Vacuum Cooling, Filling/Sealing)
- ✓ Vacuum Conveying and lifting
- ✓ Medical / Hospitals (central vacuum, surgical, R&D)
- ✓ Plastics (thermoforming, Calibration table, Extruder degassing)

## DESIGN FEATURES

- Two shift gas ballast valve – allows for the different requirements of condensable gases to be exhausted.
- High efficiency oil mist filters prevent smoking and oil vapor exhausting into the equipment space while also prolonging the service life.
- Dual automatic anti-suckback design – protects vacuum system from oil contamination in the event of an unexpected shutdown.
- Sealing parts are made from FPM improving the anti-corrosion performance and preventing oil leakage.
- Integrated pump and motor design.

### NRS160 Flow Rate Characteristic



# TECHNICAL DATA



Pumping Speed (m <sup>3</sup> /h / cfm)	<b>50 Hz</b>	160 / 94.2
	<b>60 Hz</b>	192 / 113
Rotational Speed	<b>50 Hz</b>	1440
	<b>60 Hz</b>	1720
Ultimate Total Pressure	<b>torr</b>	6.00 x 10 <sup>-2</sup>
	<b>mbar</b>	8.00 x 10 <sup>-2</sup>
Ultimate Total Pressure - GB I	<b>torr</b>	3.75 x 10 <sup>-1</sup>
	<b>mbar</b>	5.00 x 10 <sup>-1</sup>
Ultimate Total Pressure - GB II	<b>torr</b>	1.125
	<b>mbar</b>	1.5
Standard Cooling Method		air
Dimension (L x W x H)	<b>in</b>	36.6 x 21 x 17.2
	<b>mm</b>	930 x 533 x 436
Weight	<b>(lb/kg)</b>	316 / 143
Connection ports (inlet / outlet)		G 2"
Power Rating	<b>kW</b>	4
	<b>hp</b>	5.4
Oil Capacity	<b>ml</b>	7000
Sound emission	<b>dB(A)</b>	≤ 70
Water Vapor Tolerance - GB I	<b>torr</b>	22
	<b>mbar</b>	30
Water Vapor Capacity - GB I	<b>kg/h</b>	2.4
Water Vapor Tolerance - GB II	<b>torr</b>	37
	<b>mbar</b>	50
Water Vapor Capacity - GB II	<b>kg/h</b>	4
Protection Category		IP54
Ambient Temperature range	<b>°C</b>	10 - 40

## ORDERING INFORMATION

Product Description	Order No.
200-220/380-415V, 50Hz, 200-230/460v, 60Hz, 3 ph	N201601001
Service Kit	NSK160
Oil Mist Filter	320750402
Oil Filter	320750501

442 5927 114   
 info@hivac.us   
 www.hivac.us

Retorno Universitario 1 Int. 53-B, Terra Business Park,  
 El Marqués, Querétaro, Qro. CP 76269