

RU

0400-0630



RU 0400

Description

RU vacuum pumps are based on our proven rotary vane vacuum pump R 5 series. Compared with the standard series, they are designed to achieve an ultimate pressure of 100 microns.

RU vacuum pumps are single stage, air cooled, and direct driven. They are also one of the simplest and most reliable oil recirculating vacuum pumps available on the world market.

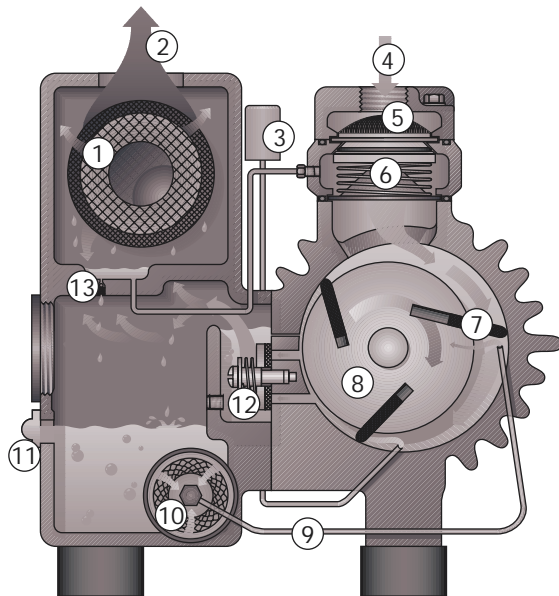
RU pumps are ideal for applications such as vacuum coating and vacuum furnaces.

Features

- Compact, simple design for easy installation and low maintenance
- Air cooled, requiring no water
- Direct drive, eliminating belts and gears to loosen or wear
- Oil mist eliminator for 99.9% oil-free exhaust
- Quiet operation
- Water-cooled versions available
- Booster/pump packages available

Rotary Vane Vacuum Pumps

Operating Principle



- | | |
|------------------------|------------------------|
| 1. Oil Mist Eliminator | 8. Rotor |
| 2. Exhaust | 9. Main Oil Feed Line |
| 3. Gas Ballast | 10. Spin-On Oil Filter |
| 4. Inlet | 11. Oil Sight Glass |
| 5. Inlet Screen | 12. Exhaust Valve |
| 6. Anti-Suckback Valve | 13. Oil Return Valve |
| 7. Vane | |

Operating Principle

Rotation of the pump rotor, which is mounted eccentrically in the pump cylinder, traps entering vapor between rotor vane segments. As rotation continues, vapor is compressed and discharged into the exhaust box.

Vapors then pass through several stages of internal oil and mist eliminators to remove 99.9% of lubricating oil from

the exhaust. Oil is then returned to the oil reservoir. Additional features include an automotive type spin-on oil filter, and a built-in inlet anti-suckback valve that prevents the pump from rotating backwards.

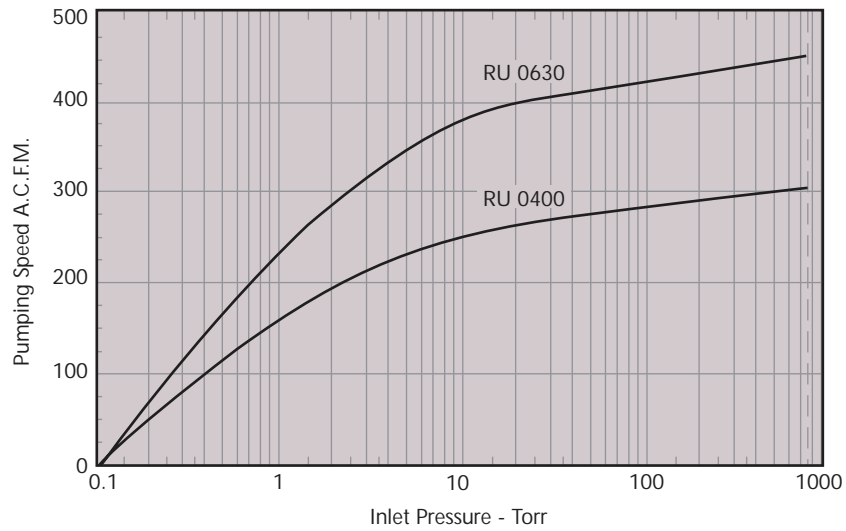
A built-in gas ballast permits pumping with high water vapor loads.

Application

- Vacuum furnaces
- Vacuum coatings
- Metallurgy
- Leak detectors
- Research and laboratory
- Applications requiring a lower ultimate pressure than provided by the standard R 5 vacuum pumps



Technical Data

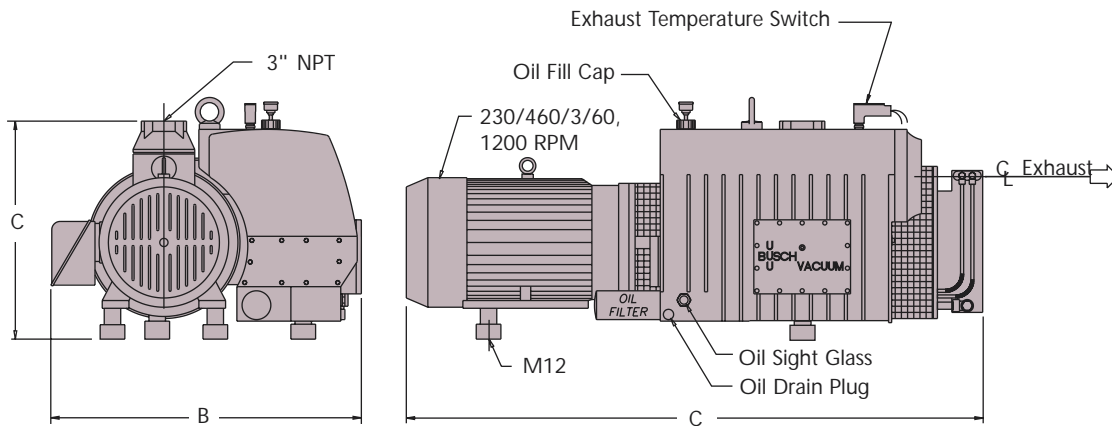


Technical Data R 5 100 Micron Models		RU 0400	RU 0630
Nominal pumping speed	ACFM	305	455
Free air displacement	CFM	330	490
Ultimate pressure	Microns (Torr)	100 (0.1)	100 (0.1)
Sound level rating*	dB(A)	83	85
Motor size for 3 phase	HP	15	25
Motor rotational speed	RPM	1150	1150
Oil capacity (approx.)	Qts	14	16
Inlet size	NPT	3"	3"
Weight (approx.)	Lbs.	1152	1525

*DIN45635



Dimensions



Model RU 0630

Dimensions	A	B	C
RU 0400	54 ³ / ₈	36 ³ / ₈	26 ¹ / ₂
RU 0630	70 ¹ / ₈	37 ³ / ₄	26 ¹ / ₂

All dimensions in inches unless otherwise noted.

Busch - all over the world in industry

ISO 9001 Registered Company

Busch, Inc. 516 Viking Drive Virginia Beach, VA 23452
Phone (757) 463-7800 FAX (757) 463-7407

www.buschpump.com
1-800-USA-PUMP

Amsterdam Barcelona Birmingham Basel Brussels Dublin Göteborg Helsinki Istanbul Copenhagen Kuala Lumpur Milan Maulburg Melbourne Montreal Moscow
 New York New Plymouth Oslo Paris San Jose São Paulo Seoul Singapore Taipei Tokyo Vienna