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Киров (8332)68-02-04  
Краснодар (861)203-40-90  
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Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
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# Rotary Vane Vacuum Pumps

Rotary Vane Direct Drive Vacuum Pumps provide a reliable vacuum source for a variety of laboratory products including FreeZone Freeze Dryers, Protector Controlled Atmosphere Glove Boxes and CentriVap Centrifugal Concentrators. These rotary vane vacuum pumps are available with displacement capacities of 117 or 195 liters per minute (at 60 Hz).

## Rotary Vane Vacuum Pump, 117 LPM, 115V



Catalog # 1472100

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** U.S. and Canada

**Works With These**

**Products:** FreeZone 1 Liter Freeze Dry Systems, FreeZone 2.5 Liter Freeze Dry Systems, FreeZone 4.5 Liter Freeze Dry Systems, Precise

Boxes, Protector Controlled

Atmosphere Glove Boxes

**Displacement Capacity at 60 Hz**

**(50 Hz):** 117 (98) Liters/min

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

## Rotary Vane Vacuum Pump, 117 LPM, 230V



Catalog # 7739400

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** International

**Works With These**

**Products:** Precise Controlled Atmosphere Glove Boxes, Protector Controlled Atmosphere Glove Boxes  
**Displacement Capacity at 60 Hz**

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

[Rotary Vane Vacuum Pump, 117 LPM, 230V](#)



Catalog # 7739402

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** International

**Works With These**

**Products:** FreeZone 1 Liter Freeze Dry Systems, FreeZone 2.5 Liter Freeze Dry Systems, FreeZone 4.5 Liter Freeze Dry Systems, FreeZone Triad Freeze Dry Systems, Precise

Controlled Atmosphere Glove Boxes, Protector Controlled Atmosphere Glove Boxes

**Displacement Capacity at 60 Hz**

**(50 Hz):** 117 (98) Liters/min

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

[Rotary Vane Vacuum Pump, 195 LPM, 230V](#)



Catalog # 7739401

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** International

**Works With These**

**Products:** Precise Controlled Atmosphere Glove Boxes, Protector Controlled Atmosphere Glove Boxes

**Displacement Capacity at 60 Hz**

**(50 Hz):** 195 (163) Liters/min

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

[Rotary Vane Vacuum Pump, 195 LPM, 230V](#)



Catalog # 7739403

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** U.S. and Canada, International

**Works With These**

**Products:** FreeZone 6 Liter Freeze Dry Systems, FreeZone 12 Liter Freeze Dry Systems, FreeZone 18 Liter Freeze Dry Systems, FreeZone Triad Freeze Dry Systems

**Displacement Capacity at 60 Hz**

**(50 Hz):** 195 (163) Liters/min

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

[Rotary Vane Vacuum Pump, 195 LPM, 115V](#)



Catalog # 1467700

**Sample Contents:** Water only

**Pump Type:** Rotary Vane Vacuum Pump

**Region:** U.S. and Canada

**Works With These**

**Products:** FreeZone 6 Liter Freeze Dry Systems

**Displacement Capacity at 60 Hz**

**(50 Hz):** 195 (163) Liters/min

**Ultimate Vacuum:**  $2 \times 10^{-3}$  mBar

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