

# XtraDry™



**The Pump for Clean and Reliable Vacuum.**

**Hook Up. Switch On. Start Working!**

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**PFEIFFER**  **VACUUM**

## Innovative technology without particulate emissions

As a dry vacuum pump, the XtraDry™ is ideally suited for your medium-vacuum applications of down to  $10^{-1}$  mbar that involve the need to pump dry, inert and non-reactive gases. It is ideally suited for use in analytical systems and in industrial applications.

It can be operated as either a stand-alone pump or as a backing pump for our turbopumps and pumping stations. The XtraDry™ operates absolutely free of hydrocarbons and particulate matter. This avoids contaminating the process or the environment.

Unique seal design prevents gas back-streaming within the pumping system. This enables gases to be pumped regardless of their molecular weight.

Its automatic standby mode reduces the speed of the pump by more than 30 % during operation at near ultimate pressure. This saves energy and increases service life. The XtraDry™ comes ready to operate, without the need for any additional accessories. A do-it-yourself kit makes for simple maintenance. You'll need a maximum of 30 minutes to change piston seals.

**All in all, it's a "clean sweep!"**

## Top performance in any number of applications



*Modular high-vacuum pumping station for custom applications*



*Calibration system for DigiLine™ pressure gauges with XtraDry™ and turbopump*



*Compact pumping station with XtraDry™ as the backing pump*

## Advantages at a glance

- ▶ Gas independent pumping characteristics – No gas backstreaming in the pumping system
- ▶ Particle-free – No process contamination
- ▶ Hydrocarbon-free – Oil-free pumping system
- ▶ Vent-safe – No sudden air inrush in the event of a power failure
- ▶ Automatic standby mode – Saves energy without any impact on ultimate pressure
- ▶ Hour counter – Predictable maintenance intervals
- ▶ Service – Do-it-yourself kit; maximum time required 30 minutes
- ▶ Frequency converter – Same performance independent from 50 Hz and 60 Hz mains supply



## Applications

**Ideal as a stand-alone pump for all medium-vacuum applications ...**

### **Analytical systems**

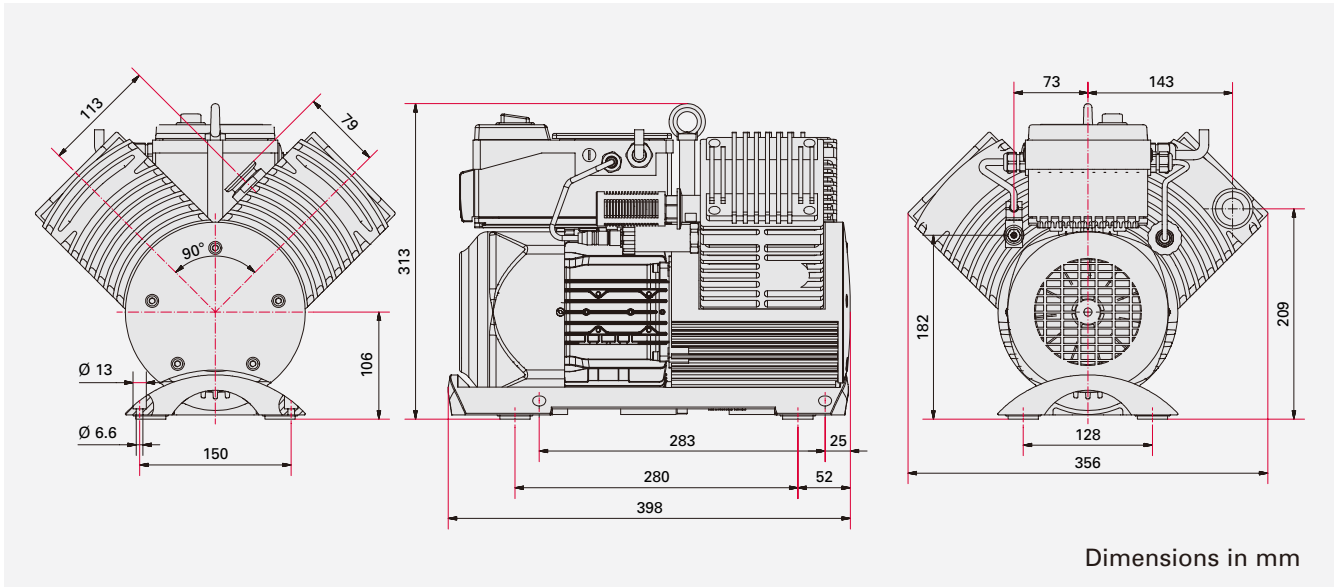
- ▶ Mass spectrometers
- ▶ Leak detectors
- ▶ Electron microscopes

### **Further applications**

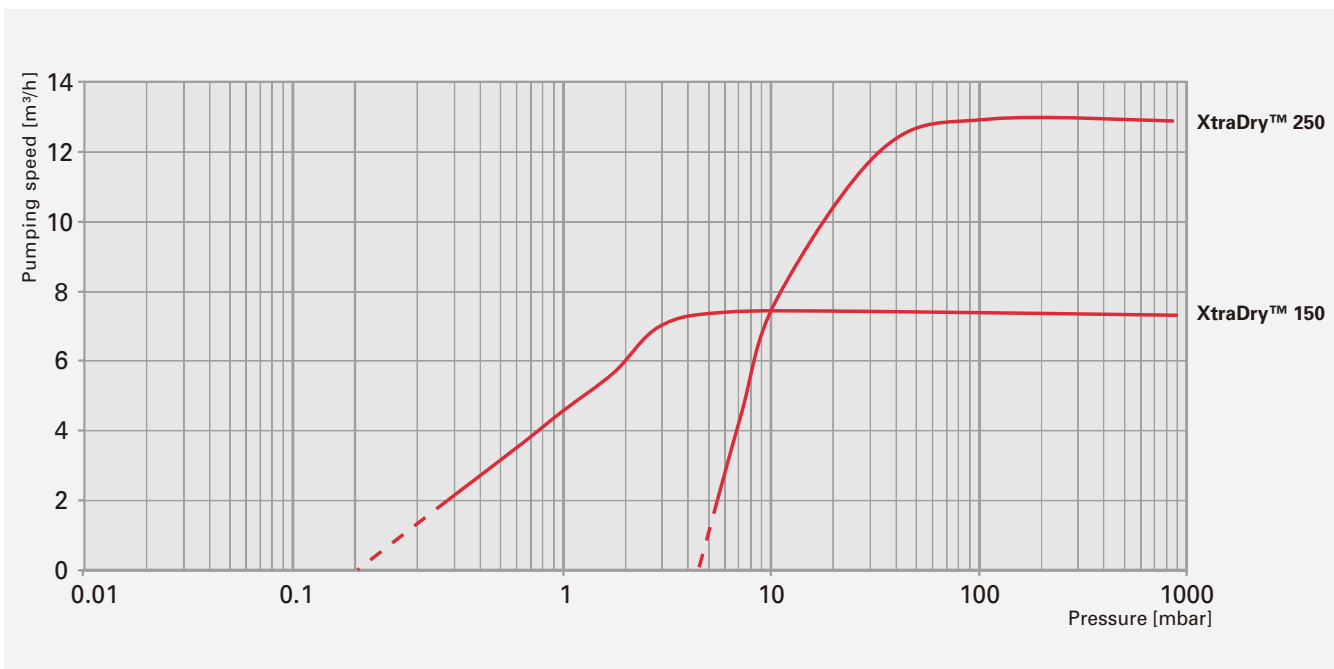
- ▶ Robotics (handling systems)
- ▶ Differential sealing systems
- ▶ Vacuum packaging

**... and as a backing pump for high-vacuum pumps, such as turbopumps from Pfeiffer Vacuum**

## Dimensions



## Pumping speed

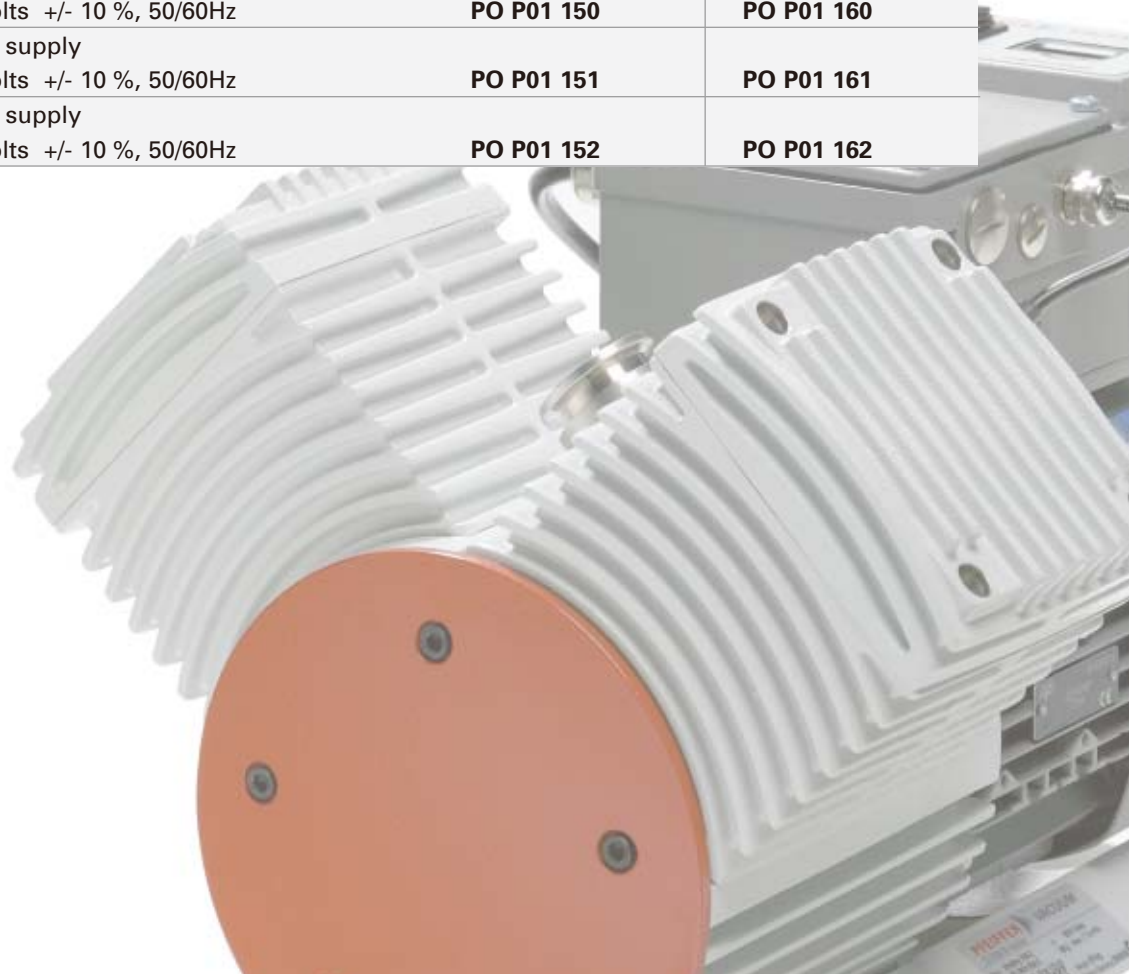


## Technical data

Piston pump		XtraDry™ 150	XtraDry™ 250
Connection flange	Inlet	DN 25 KF	
	Outlet	DN 25 KF/1/2"	
Ultimate pressure		< 0,1 mbar (< 0.08 Torr)	< 7 mbar (< 6 Torr)
Rated pumping speed		7.5 m³/h (4.5 CFM)	13 m³/h (8 CFM)
Max. exhaust pressure		1.1 bar (830 Torr)	
Leakage rate		< 0.01 mbar l/s (0.5 sccm)	
Max. permissible permanent intake pressure		25 mbar	
Rated motor power		550 W	
Noise level		< 65 dB(A)	
Ambient temperature		12–40 °C	
Weight		30 kg	

## Order numbers

Piston pump		XtraDry™ 150	XtraDry™ 250
Power supply			
230 Volts +/- 10 %, 50/60Hz		<b>PO P01 150</b>	<b>PO P01 160</b>
Power supply			
115 Volts +/- 10 %, 50/60Hz		<b>PO P01 151</b>	<b>PO P01 161</b>
Power supply			
100 Volts +/- 10 %, 50/60Hz		<b>PO P01 152</b>	<b>PO P01 162</b>





## Vacuum is nothing, but everything to us!

Pfeiffer Vacuum has been setting technological milestones for creating, measuring and analyzing vacuum for over 100 years. Our comprehensive product range covers individual components to complex vacuum systems.

Quality and service worldwide from the inventor of the turbopump: Pfeiffer is the international market leader with more than 300,000 turbopumps sold to date.

Do you have questions about your application? Please ask us.



All data subject to change without prior notice. PU0044PE (January 2007)

## Sales, service and consulting

- ▶ Worldwide on-site service
- ▶ Comprehensive in-factory and on-site training programs
- ▶ Modular service system ranging from spare parts to maintenance contracts

