

NeoDry Series

Compact & Air Cooled Dry Pump



The great benefits of our air-cooled multi-stage roots pump await you with outstanding reliability proven in various applications on the market for over 10 years.

**Neo
Dry**

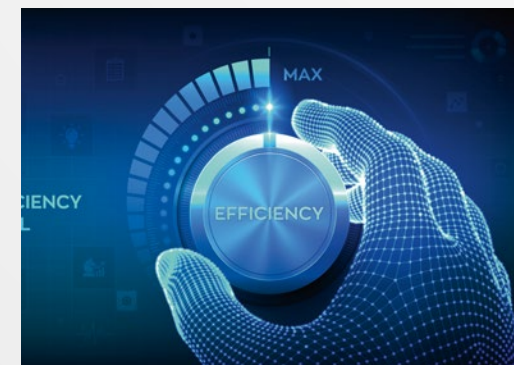
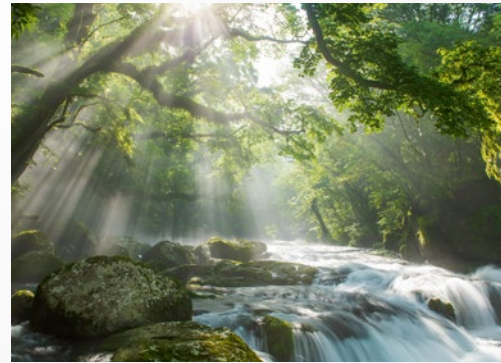
TECHNICAL ADVANTAGES
THAT BENEFIT CUSTOMERS

NeoDry Cares and Creates Clean Environments

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01 Clean dry vacuum pump for a contamination free environment

Roots rotate without mechanical contact, so **no particles such as PTFE tip seal dust** are generated. Our NeoDry pump series is gap-sealed and requires no oil sealant, thus **no oil vapor** will contaminate UHV equipment. Your system stays **free of hydrocarbons**. For a truly clean and safe working environment!



02 High performance at all pressure ranges

The NeoDry is the optimal solution for **handling high gas loads**. With the ability to **continuously operate at atmospheric pressure** without overheating, the NeoDry guarantees high pumping performance when evacuating large chambers, making it the optimal choice for accelerators, glove boxes or load locks.

03 Easy to install and user-friendly design

Thanks to its **user-friendly** design with **small-footprint and light-weight body** the NeoDry is easy to install into new and conventional vacuum systems. **The roots rotate without mechanical contact** and provide a **consistently quiet** performance.

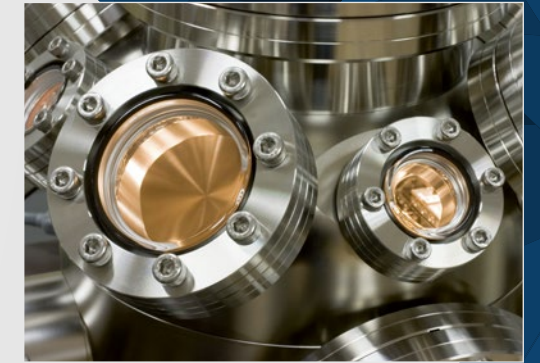


04 An average of 6 years maintenance-free operation for clean gas usage

On the market for over 10 years, according to a review of our records the **NeoDry has proven to run reliably for 6 years with no maintenance**. Its high durability and rotation without mechanical contact, also contribute toward a lower cost of ownership. **No oil changes or tip-seal changes are required**.

05 Bringing excellent quality to your laboratory

When aiming for UHV, a pump with a **high compression rate for H₂** is essential. Our pumps are designed for strict demands of quality and performance, offering a low base pressure and high compression rates even for light gases. Being free of contamination, the NeoDry is the **perfect backing pump for turbomolecular pumps**.

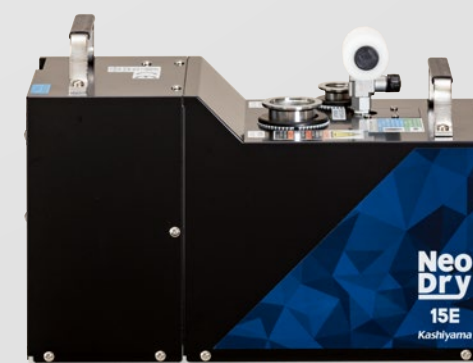


06 Great capability to handle water vapor and solvent in various applications

Our NeoDry series is equipped with a gas ballast, enabling the pump to handle **high moisture content of up to 600g/h!** This makes the NeoDry the perfect fit for any application where high amounts of water vapor need to be handled, such as cryo-pump regeneration. For many other condensable vapors, solvents and corrosive gases, Kashiya can offer a special coated version.

07 Wide range of choices for a variety of vacuum systems with market-proven reliability

7 models from 7 m³/h - 300m³/h with high reliability proven for over 10 years on the market make up the NeoDry product family. Giving our customers easy choices to build their vacuum solution with the benefits of air-cooled, multi-stage roots dry pumps.



Application examples

NeoDry is compatible with various applications

- Roughing vacuum for Turbomolecular pumps
- Chamber evacuation
- Mass spectrometers (w/ GC, LC, ICP, CI etc.)
- Helium leak detectors
- SEMs and TEMs
- Chemical applications including gel dryers
- Sputtering and evaporation (PVD, CVD and ALD in research facilities)
- Plasma cleaners
- Vacuum laminators
- Freeze dryers
- Electrode drying (Lithium ion battery manufacturing processes)
- Vacuum drying, degassing, molding, packing, filling, etc.

Standard models

Spec. / Products	NeoDry7E	NeoDry15E	NeoDry30E	NeoDry36E	NeoDry60E	NeoDry100E	NeoDry300E
Max. pumping speed	7m ³ /h (110L/min)	15m ³ /h (250L/min)	30m ³ /h (500L/min)	36m ³ /h (600L/min)	60m ³ /h (1,000L/min)	100m ³ /h (1,670L/min)	300m ³ /h (5,000L/min)
Ultimate pressure (Without gas ballast)	0.05mbar (5.0Pa)			0.01mbar (1.0Pa)		0.02mbar (2.0Pa)	0.003mbar (0.3Pa)
Supply voltage (50/60Hz) *1	Single Phase, AC200 ~ 240V						
Gas ballast mechanism	Standard accessory						
Power Connector *2	IEC 60320-C14			IEC-60320-C20		Contact us	
Max allowable moisture [g/h] (With gas ballast)	120		250	350		600	
Noise [dB(A)] (Inlet closed) *3		≤56		≤58	≤60	≤55	≤72
Vibration [μmp-p] (Inlet closed)				≤8			≤15
Weight [kg]	19	23	25	54	56	90	125
Inlet size	NW25			NW40			NW50
Outlet size	NW25						
Dimensions [mm] W×H×L *4	196×219×360	210×250×385	210×250×410	298×275×475	315×275×530	320×365×576	304×575×574
Safety standard	CE Marking, NRTL(UL 61010-1, CAN/CSA C22.2 No.61010-1)						

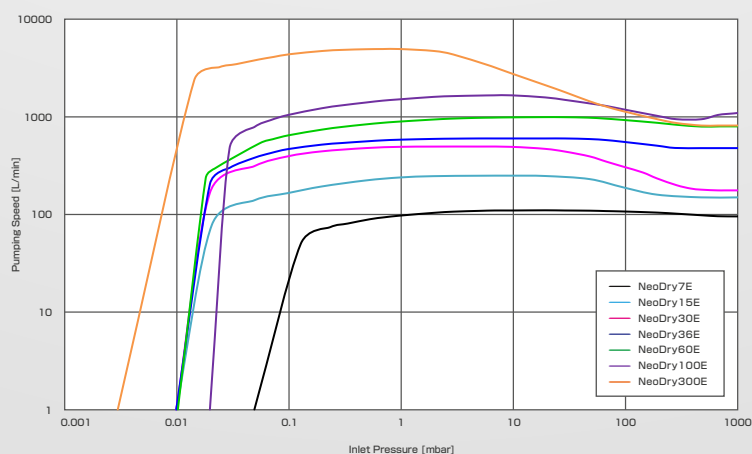
*1) Please contact us for other voltage options. *2) Please contact us for other connectors.

*3) This is based on JIS standard, please contact us about some date based on ISO. *4) Net size.

* Spec. & name of products are subject to change without prior notice.

⚠ Please contact us if you have any questions about different versions.

S-P Curves



Accessories

Items	Applicable for	Parts number
In-Line Pipe Type Silencer SR-60 (Horizontal)	All	27910-22850
In-Line Pipe Type Silencer SR-28-2 (Vertical)	All	27910-22101
Filter Type Silencer EFS-11	7E and 15E	27102-10390
Filter Type Silencer EFS0001002	30E	27102-10410

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