

## HelixDrive

### Ultra-Compact, Oil-Free Dry Screw Vacuum Pump

**HelixDrive** is an ultra-compact, oil-free dry screw vacuum pump. Its unique coaxial design, with an integrated motor, enhances both efficiency and reliability. Its proprietary coating protects the pump from the most demanding industrial applications. Ideal for harsh applications where oil is not tolerated.



Oil Free Operation Ideal for harsh applications where oil is not tolerated.

### **▶** Temperature Management

Our temperature management system is optimized for the most effective cooling. Our larger pumps are water-cooled to enhance the performance of the pump while our smaller pumps are air cooled for easy operation.

#### Energy Efficiency

Equipped with Permanent Magnet motor, HD20 and HD40 are the most efficient dry pumps in their clasee.

#### Water Vapor Handling

HelixDrive pumps are robust and durable. They have excellent moisture handling capacities.

#### Compact Design

As one of the most innovative designs, this dry screw pump delivers fast pumping speed in an ultra compact package.



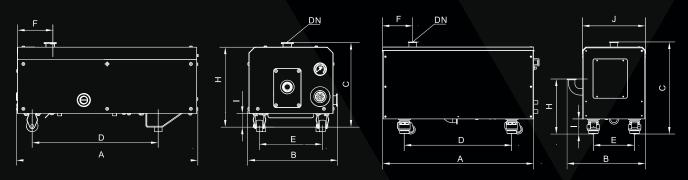


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▼ Ultra-Compact, Oil-Free Dry Screw Vacuum Pump

		HD8	<b>HD20</b>	HD40	HD80	HD100		
SPEC								
Pumping Speed(60Hz)	m³/h(CFM)	8	20 (12)	32 (19)	80 (47)	100 (59)		
Ultimate Pressure	mbar	1.0x10 <sup>-2</sup>	1.0x10 <sup>-2</sup>	1.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>	3.0x10 <sup>-2</sup>		
Ollimate Flessure	Torr	7 <b>.</b> 5x10 <sup>-</sup>	7.5x10 <sup>-4</sup>	7.5x10⁴	2.2x10 <sup>-2</sup>	2.2x10 <sup>-2</sup>		
Dry Nitrogen/Dry Cor	npressed Air slm	/	0~100	0~100	0~180	0~60		
Gas purge Pressure	Мра		0.04~0.07	0.04~0.07	0.015~0.02	0.015~0.02		
Joint		/	Quick joint for air pipe Φ6mm					
Rated power	kW	1.8	1.8	1.8	3	3		
Current at Ultimate Pressure	А	6	7	8	3	4		
Peak Current	A	13	13	13	6	7		
PID Functions		Yes						
Analog Input		Yes						
Communication Function				MODBUS-RTU	MODBUS-RTU			
Inlet/Outlet		KF25/KF16	KF25	KF25	KF40	KF40		
Water Vapor Treatment Capa	acity g/h	135	200	200	800	800		
Cooling Mode		Air Cooling Water Cooling				Cooling		
Ambient Temperature				5°C-40°C				
Noise	dB	≤58	≤60	≤60	≤65	≤65		
Weight	lbs	83.7	105.8	105.8	452	452		
Dimensions (L*W*H)	in	20.5x11.8x12.6	23.6x11.8x12.6	23.6x11.8x12.6	35.4x18.3x21.6	35.4x18.3x21.6		

## **Dimensions**



#### Unit: inch

Model	А	В	С	D	Е	F	Н	ı	J	Inlet/Outlet
HD8	20.5	11.8	12.6	13.5	8.2	4.2	11	2.3	/	KF25
HD20	23.6	11.8	12.6	16.3	8.2	4.2	11	2.3	/	KF25
HD40	23.6	11.8	12.6	16.3	8.2	4.2	11	2.3	/	KF25
HD80	35.4	18.3	21.6	25.2	9.7	7	13	3.5	14.8	KF40
HD100	35.4	18.3	21.6	25.2	9.7	7	13	3.5	14.8	KF40