

Rotary Screw Compressors

RKHD Heavy Duty Fixed and Variable Speed 50HP-420HP

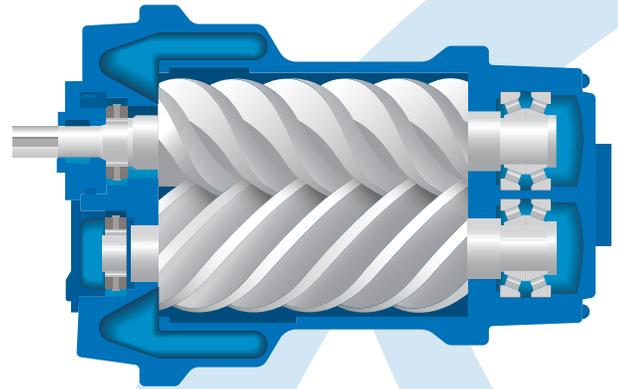


10 YEAR WARRANTY

RKHD Heavy-Duty Rotary Screw Compressors

50HP-420HP Fixed Speed and Variable Speed

The RKHD and RKHD-VSD is a series of oil-flooded, rotary screw air compressors particularly designed for generating industrial use compressed air. When a continuous air demand is needed, the RKHD Fixed Speed may be the best solution. In case of non-continuous needs and several daily fluctuations of air demand, the RKHD-VSD is the most suitable solution. Low rotational ensures a long life and high efficiency of the compressor. The variable speed version is equipped with a Inverter Duty Motor.

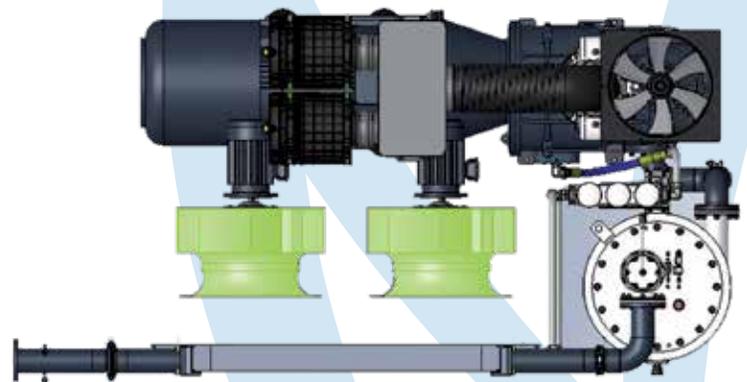


Features & Benefits

- The RKHD-VSD with Inverter Duty Motor guarantees an excellent reduction of energy costs and consistency of air flow rates.
- Capable of unlimited operating pressure adjustments.
- The Fixed Speed RKHD models are equipped with direct drive IE3 motors offering additional energy savings.
- Low rotation speeds allow longer service life for the bearings in the Air-End.
- The Air-End on the RKHD series features an optimized rotor profile.
- Low internal pressure drop results in 8% less energy consumption while improving power output.

Cooling System

The Variable Speed Drive (VSD) series has been developed and sized to work at a 100% duty cycle even in the most severe conditions. Energy savings are achieved due to an inverter controlled fan of the oil cooler. All the components are fully enclosed and protected from contamination. The air cooling system has been sized to work at up to 125° F ambient temperature.



RKHD Compressors are also available with a water cooled system.

Industry 4.0 Capable

RKHD Compressors are Industry 4.0-Ready. The compressor can be networked locally and managed remotely via the internet.



Benefits of Speed Control

The high-precision detection of the working pressure and the motor speed control guarantees the perfect flow rate as it reacts to real air demand of the operation, offering considerable energy savings.



Electronic Controller

The intuitive KTronic 1000 touch screen panel permits full access to the functions, parameter control and diagnostics of the unit, increasing the efficiency of the compressor.

Remote Control and Connectivity Always With You

The RKHD Series can be connected to a local area network (LAN) allowing the compressor to be monitored and managed remotely from any web-enabled device.



Improved Air/Oil Temperature Control

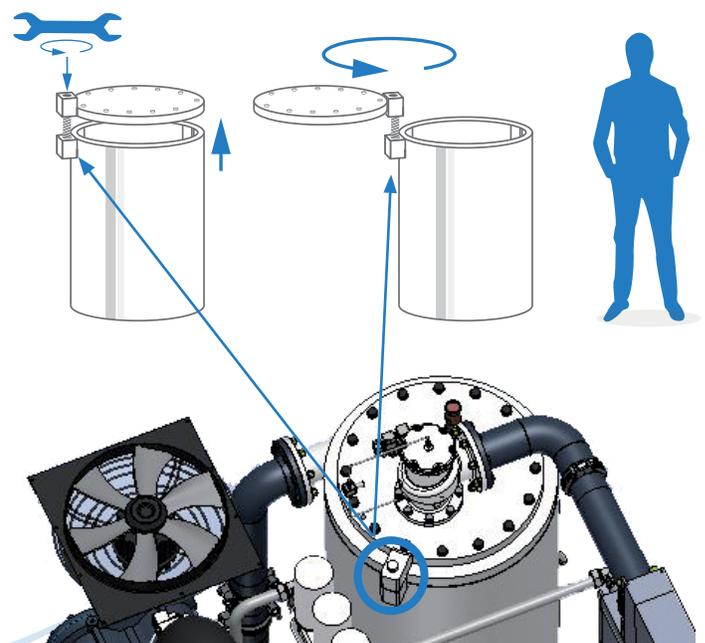
The air and oil coolers are separate and managed individually on the RKHD-VSD Series. The oil cooler fan is inverter controlled and dynamically manages the temperature of the oil. The perfectly controlled oil temperature is a benefit to the oil circuit and further improves energy savings. In addition, the separate air cooler management allows optimization of the air temperature at the compressor outlet, avoiding condensation and eliminating the damages caused by moisture. As a result, the dryer after the compressor also benefits from the lower operating load.



All these features allow energy savings across the entire system.

Easy Maintenance

The access panels are easily removed and permit quick access to all the components that require routine maintenance. The air-oil separator cartridge can be quickly replaced with an easy rotation of the tank lid on its pivot arm.

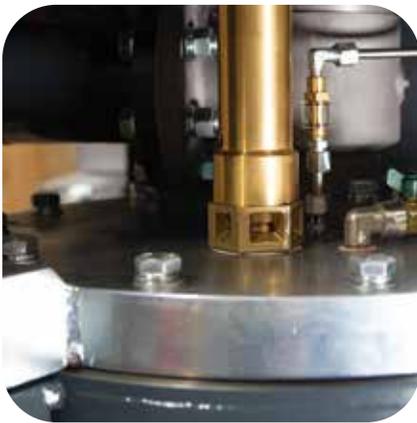


RKHD Heavy-Duty Rotary Screw Compressors

50HP-420HP Fixed Speed and Variable Speed



Oversized Exhaust Fan



Easy Access Sump Tank



Low Speed Air-End



 **10** YEAR WARRANTY

Variable Speed Drive Technology

The VSD unit allows the compressor to be very flexible and efficient in responding to changes in air demand. The required air demand is managed through the inverter that constantly adjusts the speed of the electric motor and the compressor. The real air flow and pressure values are constantly monitored through the electronic controller to guarantee achievement of the preset values.



Electronic Controller



Unlimited Motor Starts per Hour

Eliminates the inrush current that leads to motor overheating.

Consistent Discharge Pressure

Set a 'target' pressure rather than load/unload set-points. Consistent pressure means consistent production results.

Soft Motor Starts

As opposed to full voltage motor starts on most fixed speed machines, the VSD drive initiates slow motor starts, significantly lowering the demand on your electrical meter.

Up to 70% Turn-Down

The VFD runs the machine between 15-100% capacity in order to meet current demand.

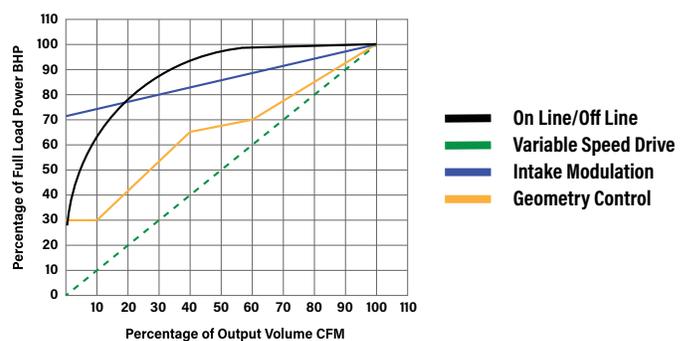
Reduced Power Consumption

Unlike a fixed speed machine, KW consumption is matched with your compressed air demand, resulting in significant energy savings.

Inlet Valve



Efficiency Load Comparison



RKHD Fixed Speed

Technical Specifications

Direct Drive ▪ Single Stage ▪ Fixed Speed
IE3 Asynchronous Motor

Model	HP	Pressure PSI	Air Flow (ISO1217) CFM	Outlet Dimension	Noise Level dB[A]	Dimensions (inches)	Weight (LBS)
RKHD-50F	50	100	244	1 1/2"	74	74 x 48 x 63	2176
		110	244				
		125	205				
RKHD-60F	60	100	293	1 1/2"	74	74 x 48 x 63	2350
		110	293				
		125	275				
RKHD-75F	75	100	332	1 1/2"	74	74 x 48 x 63	2632
		110	332				
		125	346				
RKHD-100F	100	100	515	2"	74	83 x 60 x 77	4740
		110	491				
		125	457				
RKHD-125F	125	100	674	3" Flange	76	118 x 73 x 80	6393
		110	621				
		125	553				
RKHD-150F	150	100	823	3" Flange	76	118 x 73 x 80	7055
		110	754				
		125	666				
RKHD-180F	180	100	911	4" Flange	78	130 x 74 x 84	7937
		110	865				
		125	800				
RKHD-220F	220	100	923	4" Flange	78	136 x 79 x 85	10141
		110	914				
		125	894				
RKHD-250F	250	100	1137	4" Flange	78	136 x 79 x 85	10803
		110	1108				
		125	1062				
RKHD-270F	270	100	1253	4" Flange	78	136 x 79 x 85	11023
		110	1221				
		125	1172				
RKHD-340F	340	100	1527	5" Flange	78	158 x 85 x 89	15432
		110	1479				
		125	1407				
RKHD-420F	420	100	1922	5" Flange	78	158 x 85 x 89	16755
		110	1868				
		125	1782				

The technical parameters are based on ISO1217. Different voltages are available upon request. Water-cooled units are available. PSI can be set to pressures up to 190 PSI. If you need other power models, please contact the sales team. All noise levels are calculated in ducted conditions. PneuTech holds the right to modify the mechanical layout and the technical specifications.

RKHD Variable Speed

Technical Specifications

Direct Drive ▪ Single Stage ▪ Variable Speed

PM Permanent Magnet Motor ▪ SM IE3 Asynchronous Motor

Model	Power HP	Pressure PSI	Air Flow (ISO1217) CFM	Outlet Dimension	Noise Level dB[A]	Dimensions (inches)	Weight (LBS)
RKHD-50VSD	50	100	46 - 247	1 1/2"	74	74 x 48 x 63	2216
		110	49 - 233				
		125	60 - 219				
RKHD-60VSD	60	100	44 - 283	1 1/2"	74	74 x 48 x 63	2407
		110	49 - 272				
		125	53 - 256				
RKHD-75VSD	75	100	57 - 335	1 1/2"	74	74 x 48 x 63	2762
		110	58 - 327				
		125	62 - 307				
RKHD-100VSD	100	100	143 - 505	2"	74	83 x 60 x 77	4850
		110	142 - 494				
		125	140 - 459				
RKHD-125VSD	125	100	198 - 639	3" Flange	76	118 x 73 x 80	6614
		110	191 - 618				
		125	180 - 576				
RKHD-150VSD	150	100	244 - 784	3" Flange	76	118 x 73 x 80	7055
		110	234 - 749				
		125	221 - 682				
RKHD-180VSD	180	100	290 - 911	4" Flange	78	130 x 74 x 84	7937
		110	272 - 862				
		125	252 - 802				
RKHD-220VSD	220	100	332 - 936	4" Flange	78	130 x 74 x 84	10141
		110	325 - 922				
		125	313 - 893				
RKHD-250VSD	250	100	432 - 1245	4" Flange	78	136 x 79 x 85	10582
		110	417 - 1180				
		125	395 - 1122				
RKHD-270VSD	270	100	487 - 1271	4" Flange	78	136 x 79 x 85	10803
		110	466 - 1243				
		125	441 - 1201				
RKHD-340VSD	340	100	528 - 1554	5" Flange	78	158 x 85 x 89	15432
		110	519 - 1501				
		125	509 - 1423				
RKHD-420VSD	420	100	673 - 1925	5" Flange	78	158 x 85 x 89	17196
		110	653 - 1872				
		125	627 - 1783				

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10 Year Pneu-Assure Warranty

Industry-Leading Peace-of-Mind

- ✓ **10 Year Air-End Warranty***
Includes Parts & Labor
- ✓ **1 Year Warranty on the Entire Unit**
Regular maintenance NOT included
- ✓ **5 Year Warranty on Major Components***
Oil Sump Tank
Electric Motor(s)
Air Cooler
Oil Cooler
VSD Unit
- ✓ **Guaranteed Support**
From Your Certified Distributor
- ✓ **Technical Expertise**
Industry-leading knowledge & experience

Warranty subject to change based on region and distributor's agreement.

* 10 Year Warranty on Air-End and 5 Year Warranty on Major Components requires the use of Genuine PneuTech Parts & Compressor Oil

Why PneuTech?

You are the **#1** priority when you partner with PneuTech.

Your goals are our goals - because your success is our success.

Your experience is superior when partnering with PneuTech because of quality products and personal service.

*You want **efficiency, reliability and versatility** when sourcing compressed air equipment - **that's what we strive for.***

PneuTech

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