

**Rotary vane air
compressors for industry**

hydrovane

Standard Products

2015 Edition



Rotary vane compressors for industry

50 / 60 Hz Rotary Vane Air Compressors

- ➔ 1.1 to 75 kW
- ➔ Fixed Speed
- ➔ Regulated Speed
- ➔ Open or Enclosed Formats



Hydrovane. Our business

Hydrovane has manufactured over 850,000 compressors to date and they can be found throughout all sectors of industry, with specialist solutions within transit, gas and snow. In fact they are the perfect solution to meet your requirements for reliable, high quality compressed air or gas.

Hydrovane's principle global manufacturing and distribution centre is based at Redditch in the UK. The Hydrovane management system conforms to BS EN ISO 9001: 2008, ensuring the manufacture of first class compressors.



The Hydrovane Advantages

Our features are ultimately your benefits

Reliable

Direct drive and simple design

No gears. No belts. Up to 100,000+ operating hours due to its simple integral design.

High quality air

Clean, dry and pulse free straight from the outlet means less downstream equipment required.

Slow speed

1450 rpm speed operation results in low noise, low stresses and long life.

Common replacement parts

Quick, cost-effective servicing, with minimal downtime.

Versatile

Quiet as standard

With noise levels as low as 62 dB(A) a Hydrovane can be located at the point of use.

Air Intake modulation control

No wasteful overproduction of air.

Open and enclosed format packages and air end options

Power ranges 1.1 kW to 75 kW available.

Powerful and Cost Effective

Regulated speed

Proven, simple and long-lasting technology solutions delivering up to 50% energy savings.

Reduced Energy Venting System (REVS)

Reducing off-load power to as low as 20%.

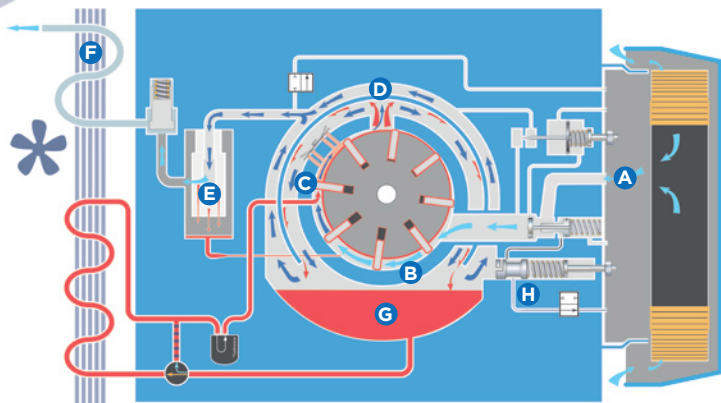
Hydrovane Pro Controller

For total electronic control, greater connectivity and flexibility.

Market leading warranty

Up to 10 years or 48,000 operating hours is available for total peace of mind.

The Hydrovane Principle



- A** Air is drawn in through the intake valve
- B** Air is contained between the rotor and the stator wall
- C** Air is compressed by decreasing volume
Oil is continually injected to cool, seal and lubricate
- D** High pressure air passes into the primary oil separator
- E** Remaining traces of oil are removed in a final separator element, providing high quality air
- F** System air passes through the aftercooler, removing most of the condensate
- G** Oil is circulated by differential internal air pressure. It passes through an air-blast oil cooler and filter before being returned into the compressor
- H** Air flow is regulated by an inbuilt modulation system

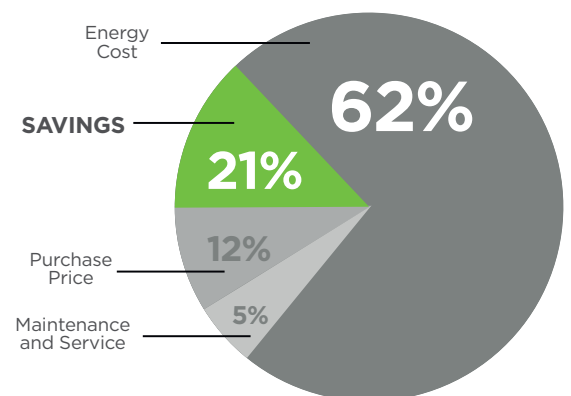
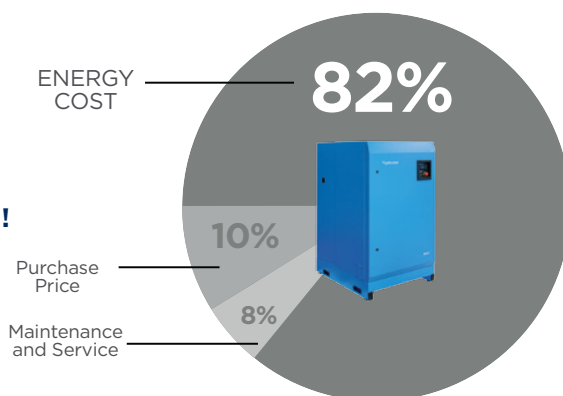
View video at: www.hydrovaneproducts.com/why_hydrovane



Energy saving. Hydrovane leads from the front

The reduction of energy wastage and ultimately energy costs is an increasing priority for every business within every market sector on a global basis. To help achieve this objective, Hydrovane offers a comprehensive range of Regulated Speed compressors.

Reduce the cost of ownership and minimise your energy consumption!



Hydrovane Regulated Speed (RS) Compressors

Regulated speed compressors from Hydrovane (7.5 to 75 kW ACE) can efficiently and reliably meet the varying air demand found in the majority of air systems, by automatically controlling air output to meet your exact requirements. The right regulated speed compressor in the right application delivers significant energy savings and a stable air supply at a constant pressure. Most air systems operate between 50% and 75% of full load capacity.

Reduced Energy Venting System (REVS) Inside

REVS is a pneumatic system that reduces the internal compressor pressure to 2 bar (off-load), reducing energy consumption to as low as 20%. Air is instantly available at anytime during this venting period. Motor power is also reduced on re-start, as the intake valve is closed during the start sequence. REVS is standard on all Fixed and Regulated Speed compressors (ACE).



How does a Hydrovane RS compressor save energy?

- RS control ensures optimum load conditions throughout the speed range
Delivering maximum efficiency
- Air intake modulation at minimum speed delivers further energy savings
To match the reducing air demand
- In-built Reduced Energy Venting System (REVS)
Improved part-load and off-load performance
- Optimised motor, drive and air end (6 to 10 bar)
Proven air cooled inverter drive
High efficiency across a broad flow range
Substantial energy savings delivered.

Please contact your local authorised Hydrovane distributor for an Air System Energy Review and Data Logging.

Government Subsidies

As global energy costs continue to rise, many governments are introducing schemes to reward moves towards energy saving and greener technologies. Please contact your local government department or local authorised Hydrovane distributor for information on what schemes are available in your territory.

Hydrovane Regulated Speed compressors can reduce your energy bills by up to 50% with a typical payback in 3 years.





50 Hz Hydrovane Pro Electronic Controller

HR04 - HR07 (4 - 7.5 kW) and HV11 - HV75RS (11 - 75 kW) Models

All Hydrovane compressors in both Fixed and Regulated Speed in the 4 to 75 kW models are fitted as standard with the Hydrovane Pro Electronic Controller. This control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters of the compressor.

The Hydrovane Pro also has the capability to have programmable inputs and outputs for increased control of ancillary equipment.

It is now possible to simply connect a Hydrovane Pro controlled compressor to the range of Sequencer Technologies within the Gardner Denver group allowing flexibility of use and maximising energy reduction.

Controller Features:

Real Time Clock

Visibility and removing the need for an external timer

Timer Control

Start/stop at set times offering flexibility

Second Pressure Setting

Different pressure setting for low production periods

Status Display

Words not codes, in multiple languages

Group Fault Outputs

Forward to an external monitoring device

Error Logs

Explanation, times and dates

Digital Inputs

4 digital inputs for external control of ancillary equipment

MODBUS RTU

RS485 enabled, communication with external interfaces

Sequencer Capability

Pro Master 4, SmartAir Lite and Connect 4

Flash Programmable

Software upgrades completed on-site





Air Management Systems. Electronic Sequencers

Electronic compressed air management control system sequencers are designed to save energy. Sequencers have a compact, all-inclusive design, and come complete with fully programmed software to meet most requirements.

The sequencer allows central control of multi compressor installations, resulting in a large reduction in energy consumption. Compressors are only brought 'on-line' when needed, so service costs are minimized. Sequencers constantly sense system pressure and immediately respond to pressure changes, resulting in a totally reliable air supply.

Hydrovane Pro-Master Sequencer Series

The Hydrovane Pro-Master 4 is a narrow pressure band controller used as a compressor sequencer suitable for an installation of up to 4 compressors. It has four different preprogrammed defined sequences that provide a solution for specific characteristics of any installation:

- First In First Out (FIFO)
- Timer Rotation
- Equal Hours
- Fixed Cascade

The sequencer has a number of adjustable parameters offering flexibility to adapt the control mode to further fine tune the operation to suit the installation site, including Pre-Fill.





The industrial sectors we serve. Proven applications

Hydrovane provides versatile energy efficient air and gas compression within a wide range of industries, covering numerous applications:

Automotive and Garage

Tyre inflation / Product finishing / Air operated robots / Plasma cutting and welding / Air tools / Paint shops / Breathing air.

Construction

Fluidization of product / Reverse jet cleaning / Shot blasting / Pneumatic drilling, ramming or piling machines / Concrete conveying or spraying / Air conditioning / Air operated tools / Ventilation systems / Blasting.

Energy (Including Gas)

Gas boosting for micro turbines / Air operated process equipment / Process / Cooling / Air operated pumps / Filter cleaning / Pipe pigging / Cleaning / Wind generation / Control valves / Raw material handling / Conveying / Filtration cleaning.

Entertainment and Leisure

Water fountains / Leisure pools / Theme park rides / Simulators.

Farm and Agriculture

Milk production / Farm equipment / Conveying.

Food and Beverage

Packaging / Product handling / Food filling machines / Fluid pumps / Nitrogen generation / Air knives.

Manufacturing

Aluminium and steel processing plants / Air operated tools / Spray finishing equipment / Air operating lifting equipment / Shot blasting / Cooling and heating / Cleaning / Welding equipment.

Marine

Breathing air / Nitrogen generation / Air tools / Air grinder / Paint spraying equipment / Ballast water purification / Dock loading equipment / Chemical tankers.

Medical and Dental

Air driven medical tools / Breathing air / Sterilization equipment / Laboratory applications / Dentists / Air separation.

Military

Mobile tyre inflation / Simulators / Shooting range targets / Mobile tank cannon cleaning.

Pharmaceutical

Process air / Control valves and cylinders / Material handling / Nitrogen generation / Air curtains / Product drying.

Snow

Snow cannons.

Special Applications

Aluminium smelting plant gantry crane / Cement batching plant / Water industry - purity control / Dentistry / Food packaging / Farming / Construction / Shipboard / Low duty usage / Duplex configurations / Mobile motor racing - tyre inflation, etc.

Transit - Main Line and Light Rail Trains, Underground Trains, Shunters, Trams, Metros and Hybrid/Electric Buses

Air braking systems / Air operated doors / Suspension systems / Floor levelling systems / Pantographs / Claxons (horns) / Wipers.

Utility Services

Fibre optic cable blowing / Sewage plant flow control and air oxidation / Water purification and oxidization / Landfill sites.

Please visit our website for a comprehensive listing of applications by industrial sector at www.hydrovaneproducts.com



Custom Solutions. Versatile technology

With Hydrovane's versatile rotary vane compressor technology, we can deliver the widest range of bespoke OEM solutions.

The possibilities are endless when it comes to supplying air for a specific application inside and outside the standard industrial arena. Hydrovane has over 50 years experience in supplying proven solutions to OEMs, either as air ends or complete packages, designed and purpose built. In addition, there are occasions when a customer may require a special build, and this is where Hydrovane can deliver custom solutions.



Transit Package



Air Ends



Custom Package

Aftermarket Support. Back-up you can trust

Hydrovane service philosophy is one of regular maintenance being the key to long, reliable, trouble free compressor life. Hydrovane offers extensive aftermarket support with genuine service kits, individual spare parts and approved lubricants.

Only Hydrovane Aftermarket can provide:

Protection	Compressor longevity and a lifetime of productivity
Reliability	Regular Preventative Maintenance Programme
Quality	Genuine OEM engineered service kits, parts and lubricants
Performance	Guaranteed efficiency and optimisation, year in year out
Business made easy	Dedicated support team to handle all your Aftermarket needs
Value for money	Everything you need under one roof

Service Kits – Genuine OEM spare parts

The service kit concept has been developed to make our compressor servicing quick, easy and cost effective. Using the service kits as part of the recommended service schedule will prevent costly breakdowns, ensuring a continuous supply of high quality compressed air.

Lubricants – Approved for vane usage

Even the most reliable compressors in the world require routine lubricant changes to maintain peak performance. Over many years, Hydrovane has developed a range of high quality lubricants that have been specifically formulated to guarantee optimum compressor performance.

Service Training

Hydrovane is committed to providing every Hydrovane compressor owner with fully trained Service Engineers to care for their investment throughout our Global Distribution Network.





Advance™10 Warranty that delivers complete peace of mind

The Hydrovane Advance 10 extended warranty programme is a unique market leading compressor care package designed to deliver comprehensive warranty cover for up to 10 years or 48,000 operating hours* on all Hydrovane compressor airends**.

Key benefits

- ➔ **Free** The Advance warranty is totally free to the compressor owner***
- ➔ **Guaranteed Quality** A Hydrovane authorised service provider will deliver a guaranteed quality of service
- ➔ **Accurate Maintenance Budgeting** An Advance service agreement underpinning the warranty will enable accurate maintenance budgeting and cost of ownership
- ➔ **Maximise Compressor Life** The use of genuine Hydrovane service kits, parts and lubricants will maximise compressor life and efficiency.

Hydrovane standard warranty:

All Hydrovane compressors are guaranteed for 12 months from the date of installation providing the installation is approved by an authorised Hydrovane distributor and the correct service procedures and genuine service kits, parts and lubricants are used.

The use of genuine service kits, parts and lubricants are mandatory for continued Advance warranty cover. Advance servicing must be carried out by an authorised Hydrovane Distributor, whose personnel are fully trained and competent in the maintenance of a Hydrovane Compressor.

Please consult your local Hydrovane Distributor for Advance availability within your territory.

* Whichever comes first.

** Excluding gas compressors, HV04RM and non-standard product.

*** See Hydrovane Advance 10 brochure for more details.

50 / 60 Hz Rotary Vane Air Compressors

50 / 60 Hz Open – Fixed Speed

HV01 – HV04 (1.1 – 4 kW) Models*

The HV (PUTS and PURS) range of compressors are engineered to meet the most stringent of specifications. Their compact, simple, robust and integrated design allows them to be fitted anywhere undercover.

Receivers (BS EN 286-1: Air and Nitrogen only):

- HV01 and HV02 (1.1 – 2.2 kW) - 75 litre receiver
- HV04 (4 kW) - 200 litre receiver



1.1 - 2.2 kW PUTS



1.1 - 2.2 kW PURS



4 kW PURS

The only model available in 60 Hz is the 1.5 kW PUTS / PURS. Hypac versions available (HV01RM to HV04RM): Aftercooler, Dryer and Filtration.

Specification Overview:

- 10 bar
- Less than 3 ppm Oil Carryover
- Low Noise: 62 to 73 dB(A)
- Integral Oil Cooler**
- Continuous Run or Start/Stop
- IP55 Electric Motor Rating

* PUTS (Package Unit, Tripod and Starter) and PURS (Package Unit, Receiver and Starter).

** Air aftercooler kit available (HV01 – HV02RM (PURS and PUTS) plus HV04RM (PURS) only).

50 / 60 Hz Enclosed – Fixed Speed

HV11 – HV45 (11 – 45 kW) Models

The HV (ACE) range of compressors is the heart of the Hydrovane product line, offering world class flexibility and reliability.



11 - 45 kW ACE

Specification Overview:

- 8 to 10 bar
- Low Noise: 67 dB(A)
- Low Off-load Power (REVS)
- Fully Enclosed
- IP55/IE3 Electric Motor Rating
- Pro Electronic Controller
- Automatic Start/Stop
- Full Air Intake Modulation
- Over-Temperature Protection
- Less than 3 ppm Oil Carryover
- Air Intake Filtration
- High Quality Air <10°C Above Ambient
- Integral Air and Oil Cooler
- Advance 10 Year Warranty Available

Hypac combination versions available (HV11 to HV22) in 50 Hz only: Integrated packages with receiver, dryer and filtration.

REGENERATION

HR04 - HR07RS (4 - 7.5 kW) Models

Reassuringly familiar on the outside - significantly different inside

Constant improvements in technology and ever-increasing demands for energy-saving features force the pace of change.

Taking components that have been developed specifically with energy-saving in mind, Hydrovane's designers and engineers have developed a rotary vane compressor for the twenty first century, whilst retaining the features which have helped build Hydrovane's reputation for quality and reliability around the world.



Hypac combination versions available (HR04 to HR07RS) in 50 Hz only: Integrated packages with receiver, dryer and filtration.

Specification Overview:

HRE Range (Enclosed)

- 7 to 10 bar
- 4 - 7.5 kW
- Direct drive 'spider' coupling
- Low Noise: 62 to 73 dB(A)
- SMART SERVO energy reduction system
- Highest efficiency IE3 motors as standard
- New rotor stator unit for increased flow and lower power
- Mitsubishi inverter for smoother transfer and quicker response
- Low Off-load Power (REVS)
- Star Delta starters
- Advance 10 Year Warranty Available

HRP Range (Open Units)

- 7 to 10 bar
- 5.5 - 7.5 kW
- Direct drive coupling
- Low Noise: 73 dB(A)
- Pro Electronic Controller
- Low Off-load Power (REVS)
- Highest efficiency IE3 motors as standard
- Advance 10 Year Warranty Available

HR OEM Airends

- Direct drive allows direct coupling to electric motors, hydraulic motors, petrol and diesel engines and PTO drives
- Compact design and lightweight
- Spin-on filtration for easy maintenance
- Less than 3 ppm Oil Carryover
- Simple white metal bushes for long airend life
- HR airends suitable for vertical or horizontal mounting
- Integral oil cooler

STANDARD PLUS

- If extra features are required for specific applications, Hydrovane can offer modifications to standard products

50 / 60 Hz Rotary Vane Air Compressors

50 / 60 Hz Enclosed – Regulated Speed (RS)

HV11RS – HV75RS (11 – 75 kW) Models

The HV (ACE) RS range provides a variable speed offering for the Vertical Enclosed product selection. Whilst most fixed speed compressors are most efficient in continuous duty applications, regulated speed machines optimise energy efficiency when operated below full load capacity. This can deliver benefits of up to 50% energy savings compared to the equivalent standard fixed speed model.



11 - 45 kW ACE RS

Specification Overview:

- 6 to 10 bar
- Low Noise: 67 to 73 dB(A)
- Proven Air Cooled Inverter Drive
- Built-in EMC Filter
- Line Reactor (Choke) Standard
- Low Off-load Power (REVS)
- Direct Drive
- Fully Enclosed
- IP55 Electric Motor Rating
- Less than 3 ppm Oil Carryover
- Pro Electronic Controller
- Selectable Target Pressure
- Automatic Start/Stop
- Full Air Intake Modulation
- Over-Temperature Protection
- Remote Air Intake Filtration
- High Quality Air <10°C Above Ambient
- Integral Air and Oil Cooler
- Advance 10 Year Warranty Available

The HV75RS is designed and engineered to satisfy the larger demands of industry.

Fully enclosed, the direct drive compressor takes full advantage of the latest microprocessor technology for total compressor control.



Air Management Systems. Simple Controllers

Controller Options for Standard Starters - HV01 to HV04 Models Only

HFP02 Duty Selector

- Ideal where fluctuating air demand exists.
- Reduces energy consumption and balances the running hours of each compressor unit.
- Two compressors can be remotely selected in two modes, base load or standby duties.

HFP04 Automatic Time Controller

- Enables the operating times of the compressor to be pre-programmed for a period of up to one week.
- The compressor will switch on and off at preset times.
- The compressor retains its auto-start functions offering greater flexibility.

HFP05 Remote Stop/Start Controller

- Allows compressors to be remotely operated.
- Fitted with 'compressor running' and 'compressor tripped' indicators to give the operator information on the compressor's status.

HFP06 Short Run Auto Timer (Low Duty Usage) - HV01 and HV02 Models Only

- Designed to prevent condensation build-up where compressors run for short periods of time.
- Starts the compressor at an off duty period and runs it 'on-load' for a period at optimum working temperature to remove any excess moisture (Discharging to atmosphere).
- The compressor retains its auto start functions offering greater flexibility.
- A Hydrovane compressor must run for a minimum of 2 hours per week discharging to atmosphere for the moisture to be removed (When in use).



50 Hz Hypacs (Packaged Units)

50 Hz Hypacs (Packaged Units)

HV01 - HV04 (1.1 - 4 kW) Fixed Speed Models*

Membrane Dryer Range

Hydrovane HV (PURS) range of Open fixed speed compressors are available as fully integrated packages. Hypacs are available as a factory built package or can be supplied as a kit for local assembly.



Specification Overview:

- HV01 and HV02 (1.1 and 2.2 kW) - 75 Litre Receiver**
- HV04 (4 kW) - 200 Litre Receiver**
- Low Noise: 62 to 73 dB(A)
- Open Compressor
- Membrane Dryer Technology
- Ultra Dry Air - Pressure Dew Point 30°C Below Ambient
- In-line Filtration (0.01 micron)
- Automatic Start/Stop
- Fully Connected and Ready to Run
- Aftercooler for Primary Water Separation
- Standard 1 Year Warranty

* PURS (Package Unit, Receiver and Starter)

** Receivers: (BS EN 286-1: Air and Nitrogen only)

50 Hz Hypac - Refrigerant Dryer Range

HV11 - HV22 (11 - 22 kW) Fixed and Regulated Speed Models

The HV (ACE) enclosed range of compressors is available in 3 versions; fully connected and ready to run - ER (ACER), ED (ACED) and ERD (AERD).

Advance 10 Year Warranty available.

ACER



ACED



AERD



REGENERATION Hypac Range

HR04 - HR07RS (4 - 7.5 kW) Models

The HR Regeneration enclosed range of compressors is available in 3 versions; fully connected and ready to run - ER (HRER), ED (HRED) and ERD (HRERD).

Advance 10 Year Warranty available.



RS Hypac versions only available in 7.5 kW.

HR/ACE with Receiver

Specification Overview:

- Hydrovane Enclosed Compressor
- Integrated with Receiver*
- HR04 to HR07 (4 to 7.5 kW) - 260 Litre Receiver
- HV11 to HV22 (11 to 22 kW) - 272 Litre Receiver
- Regulated Speed Option
- Automatic Start/Stop Option

HR/ACE with Dryer and Filtration

Specification Overview:

- Hydrovane Enclosed Compressor
- Integrated with Refrigerant Dryer
- Water Trap
- In-line Filter (1 micron)
- Regulated Speed Option
- Automatic Start/Stop Option

HR/ACE with Receiver, Dryer and Filtration

Specification Overview:

- Hydrovane Enclosed Compressor
- Integrated with Refrigerant Dryer and Receiver*
- HR04 to HV07 (4 to 7.5 kW) - 260 Litre Receiver
- HV11 to HV22 (11 to 22 kW) - 272 Litre Receiver
- Water Trap
- In-line Filter (1 micron)
- Regulated Speed Option
- Automatic Start/Stop Option

* Receivers: (BS EN 286-1: Air and Nitrogen only)

50 / 60 Hz Rotary Vane Air Compressors



Open - Fixed Speed

Motor Power (kW)	Model	Voltage/Phase		Starter Type	Mounting Configuration	Receiver Capacity (litres)	Maximum FAD m ³ /min (cfm)		Motor Speed (rpm)	Oil Capacity (litres)	Air Outlet (Rp)	Dimensions (mm)			Noise dB(A)	Weight (kg)	Air Quality (mg/m ³)						
		50Hz	60Hz				8 bar	10 bar				Depth	Width	Height									
1.1	HV01	240V 1Ph 400V 3Ph	-	DOL	Tripod	-	-	0.12 (4.3)	1450	1.0	3/8"	270	700	470	62	41	<3						
1.5	HV01	-	230V 1ph 230V 3ph 460V 1ph				-	0.14 (4.9)	1760						65								
2.2	HV02	240V 1Ph 400V 3Ph	-				0.23 (8.0)	2800	69														
1.1	HV01	240V 1Ph 400V 3Ph	-				Receiver	75	-			0.12 (4.3)	1450	1.8	1/2"			300	1120	730	62	77	<3
1.5	HV01	-	230V 1ph 230V 3ph 460V 1ph						-			0.14 (4.9)	1760								65		
2.2	HV02	240V 1Ph 400V 3Ph	-						-			0.23 (8.0)	2800								69		
4.0	HV04RM	400V 3Ph	-						200			-	0.57 (20.1)								1450		

Regeneration 50 Hz Enclosed - Fixed and Regulated Speed



Motor Power (kW)	Model	Voltage/Phase	Starter Type	Mounting Config	Maximum FAD m ³ /min (cfm)		Motor Speed (rpm)	Air Outlet (Rp)	Dimensions (mm)			Noise dB(A)	Weight (kg)	Air Quality (mg/m ³)
					7 bar	10 bar			Depth	Width	Height			
4.0	HR04E	400V 3Ph	SD	Floor	0.68 (24.0)	0.57 (20.1)	1450	3/4"	650	500	1050	66	181	<3
5.5	HR05E				0.91 (32.1)	0.71 (25.1)							186	
7.5	HR07E				1.25 (44.1)	1.00 (35.0)							197	
7.5	HR07E RS	400V 3Ph	SD	Floor	-	0.97 (34.3)	1450	3/4"	850	700	1550	70	397	<3



Enclosed - Fixed Speed

Note: The 50 Hz / 400 Volts / 3 Phase Regulated Speed (RS) models also cover 60 Hz / 460 Volts / 3 Phase

Motor Power (kW)	Model	50Hz		60Hz		Mount Config.	Maximum FAD m ³ /min (cfm)				Motor Speed (rpm)		Oil Cap. (litres)	Air Outlet (Rp)	Dimensions (mm)			Noise dB(A)	Weight (kg)	Air Quality (mg/m ³)
		Voltage/Phase	Starter Type	Voltage/Phase	Starter Type		50Hz		60Hz		50Hz	60Hz			Depth	Width	Height			
							8 bar	10 bar	8 bar	10 bar										
11.0	HV11	400V 3Ph	SD	460V 3Ph 575V 3Ph	DOL	Floor	1.63 (57.6)	1.41 (49.8)	1.48 (52.4)	1.29 (45.6)	1450	1760	7.0	3/4"	850	700	1550	69	384	
15.0	HV15						2.21 (78.1)	2.01 (71.0)	1.90 (67.1)	1.65 (58.4)								70	397	
18.0	HV18						2.88 (101.7)	2.55 (90.1)	2.80 (99.0)	2.44 (86.2)								71	481	
22.0	HV22						3.60 (127.1)	2.96 (104.5)	3.25 (114.6)	2.83 (100.0)			7.5	1"	71	494				
30.0	HV30						5.00 (176.6)	4.31 (152.2)	4.43 (156.5)	3.86 (136.2)			23.0	1 1/2"	1130	900	1640	73	911	
37.0	HV37						5.95 (210.1)	5.07 (179.0)	5.48 (193.7)	4.77 (168.5)								940		
45.0	HV45						7.33 (258.9)	6.54 (231.0)	6.54 (231.0)	5.73 (202.3)								940		
75.0	HV75						400V 3Ph	Star Delta	-	-			Floor	12.06 (425.9) @ 7.5 bar		-	1450	-	1.0	1 1/2"

Enclosed - Regulated Speed (RS)

Motor Power (kW)	Model	Voltage/Phase		Starter Type	Mounting Config.	Maximum FAD m ³ /min (cfm)			Motor Speed (rpm)	Oil Capacity (litres)	Air Outlet (Rp)	Dimensions (mm)			Noise dB(A)	Weight (kg)	Air Quality (mg/m ³)
		50Hz	60Hz			6 bar	8 bar	10 bar				Depth	Width	Height			
11.0	HV11RS	400V 3Ph	460V 3Ph	v	Floor	1.74 (61.6)	1.56 (55.0)	1.37 (48.5)	870 to 1900	7.0	3/4"	850	700	1550	69	393	
15.0	HV15RS					2.29(80.8)	2.03 (71.6)	1.72 (60.7)	870 to 1800						70	406	
18.0	HV18RS					2.96 (104.6)	2.75 (96.9)	2.51 (88.5)	71						507		
22.0	HV22RS					3.53 (124.5)	3.22 (113.8)	3.07 (108.3)	870 to 1700	23.0	1 1/2"	1115	900	1640	73	963	
30.0	HV30RS					5.38 (189.9)	4.87 (171.9)	4.51 (159.3)							909		
37.0	HV37RS					6.17 (217.8)	5.72 (202.1)	5.27 (186.1)							963		
45.0	HV45RS					7.47 (263.7)	6.90 (243.5)	6.51 (230.0)	992								
75.0	HV75RS					400V 3Ph	460V 3Ph	v	Floor	11.95 (422.0)	11.04 (390.0)	-	up to 1870	45.0	1 1/2"	955	2330

Hypac 50/60 Hz Open - Membrane Dryer Range



Motor Power (kW)	Model	Voltage/Phase	Starter Type	Mounting Config	Maximum FAD m ³ /min (cfm)		Motor Speed (rpm)	Receiver Capacity (litres)	Air Outlet (Rp)	Package Dimensions (mm)			Ambient Temp Min - Max (°C)	Pressure Dew Point (°C)	Air Quality (mg/m ³)
					10 bar					Depth	Width	Height			
1.1	HV01RM	400V 3Ph	DOL	Receiver	0.12 (4.3)		1450	75	3/8"	300	1120	730	0-40	30*	0.01
2.2	HV02RM				0.23 (8.0)										
4.0	HV04RM				0.57 (20.1)										

Note: The only 60 Hz model available is the HV01RM

Regeneration Hypac 50 Hz Open

Motor Power (kW)	Model	Voltage/Phase	Starter Type	Mounting Config	Maximum FAD m ³ /min (cfm)		Motor Speed (rpm)	Receiver Capacity (litres)	Air Outlet (Rp)	Package Dimensions (mm)			Ambient Temp Min - Max (°C)	Pressure Dew Point (°C)	Air Quality (mg/m ³)
					7 bar	10 bar				Depth	Width	Height			
5.5	HR05PR	400V 3Ph	SD	Receiver	0.92 (35.52)	0.77 (27.02)	1450	200	1/2"	760	1332	1068	0-40	30*	<3
7.5	HR07PR				1.27 (44.70)	1.04 (37.0)									



Regeneration Hypac 50 Hz Enclosed - Refrigerant Dryer Range

Model		Mounting Config	Voltage/Phase	Starter Type	Motor Speed (rpm)	Receiver Capacity (litres)	Air Outlet (Rp)	Package Dimensions (mm)			Ambient Temp Min - Max (°C)	Pressure Dew Point (°C)	Air Quality (mg/m ³)
								Depth	Width	Height			
HR04	HRER	Receiver	400V 3Ph	SD	1450	260	3/4"	685	1146	1165	0-40	8	<3
	HRERD	Dryer				-		968	630	1078		3	<1
	HRERD	Dryer + Receiver				260		685	1146	1165		8	<3
HR05	HRER	Receiver				-		968	630	1078		3	<1
	HRERD	Dryer				260		685	1146	1165		8	<3
	HRERD	Dryer + Receiver				-		968	630	1078		3	<1
HR07 HR07RS	HRER / RS	Receiver				260		685	1146	1165		8	<3
	HRED / RS	Dryer				-		968	630	1078		3	<1
	HRERD / RS	Dryer + Receiver				260		968	1146	1165		3	<1



Hypac 50 Hz Enclosed - Refrigerant Dryer Range

Model		Mounting Config	Voltage/Phase	Starter Type	Motor Speed (rpm)	Receiver Capacity (litres)	Air Outlet (Rp)	Package Dimensions (mm)			Ambient Temp Min - Max (°C)	Pressure Dew Point (°C)	Air Quality (mg/m ³)		
								Depth	Width	Height					
HV11 HV11RS	ACER	Receiver	400V 3Ph	SD	1450	272	3/4"	1187	1355	1550	0-40	8	<2		
	ACED	Dryer				-		825	1215			3	<1		
	AERD	Dryer + Receiver				272		1187	1355			8	<2		
HV15 HV15RS	ACER	Receiver				-		825	1215			3	<1		
	ACED	Dryer				272		1187	1355			1550	0-40	8	<2
	AERD	Dryer + Receiver				-		825	1215			3	<1		
HV18 HV18RS	ACER	Receiver				272		1187	1355			1550	0-40	8	<2
	ACED	Dryer				-		825	1215			3	<1		
	AERD	Dryer + Receiver				272		1187	1355			1550	0-40	8	<2
HV22 HV22RS	ACER	Receiver	-	825	1215	3	<1								
	ACED	Dryer	272	1187	1355	1550	0-40	8	<2						
	AERD	Dryer + Receiver	-	825	1215	3	<1								

Note: There are no 60 Hz Hypac models

Starter Types:

- DOL Direct On Line
- SD Star Delta
- V Regulated Speed (RS)

Free Air Delivered (FAD) according to BS ISO1217:2009-Annex B, C and E

*Below ambient. Both fixed speed and regulated speed compressors operate up to 40°C ambient
Hydrovane compressors are designed for indoor installation under cover only.

Hypac Kits

Model	Full Membrane Dryer Kit Option	Aftercooler Option Only
HV01RM (PUTS)	ACA-501BD-P	ACA-5-B
HV02RM (PUTS)	ACA-502-BD-P	ACA-5-B
HV04RM (PUTS)	ACA-504BD-300	ACA-504-WEG

Hypac Membrane dryer kits installed within the factory have a nominal fitting charge. Please contact your local distributor to determine your exact requirements.



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