

**Rotary vane air  
compressors for industry**

©hydrovane

## Industry's advantage with Hydrovane



[www.hydrovaneproducts.com](http://www.hydrovaneproducts.com)



Rotary Vane Air Compressors

# The right compressor for your business

## Versatile

### Open and enclosed format packages and air end options

- 50 / 60 Hz
- 6 - 10 bar
- 0.1 - 7.5 m<sup>3</sup>/min
- 4 - 264 cfm

### Quiet as standard

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

### Fixed and Regulated speed models

Matching air demand with your business needs.

## Reliable by Design

### Direct drive

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 - 1760 rpm speed operation results in low noise, low stresses and long life.

### Common replacement parts

Quick, cost-effective servicing, with minimal downtime.



## Powerful and Cost Effective

### **Hydrovane Pro Controller**

For total electronic control, greater connectivity and flexibility.

### **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%.

### **Air Intake modulation control**

No wasteful overproduction of air.

## Guaranteed

### **Market leading warranty**

Up to 10 years or 48,000 operating hours is now available for total peace of mind on all standard Hydrovane models.

### **Distributor support**

Hydrovane machines are supplied and maintained by a wide network of Authorised Distributors and highly skilled, factory-trained service engineers.

# A range of compressors

## From stand-alone...

### Open - Fixed Speed

Small and compact, Hydrovane HV01 - HV04 models are ideally suited for light industrial and workshop applications where the compressed air outlet needs to be situated close to the point of use.

### HV01 - HV04 Models

Tripod or Receiver mounted

- 50 / 60 Hz
- 1.1 - 4 kW
- 10 bar
- 0.1 - 0.6 m<sup>3</sup>/min
- 4 - 20 cfm



### Enclosed - Fixed Speed and Regulated Speed (RS)

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.

### HR04 - HR07RS Models

Fully Enclosed

- 50 / 60 Hz
- 4 - 7.5 kW
- 7 - 10 bar
- 0.6 - 1.3 m<sup>3</sup>/min
- 20 - 46 cfm





Whilst all Hydrovane rotary vane compressors are designed and built with the highest levels of efficiency in mind, if you're looking for the ultimate in energy-saving technology, we offer our 7.5 to 45 kW machines with a Regulated Speed (RS) option.

RS 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.

## HV11 - HV45RS Models

Fully Enclosed

- 50 / 60 Hz
- 11 - 45 kW
- 6 - 10 bar
- 1.3 - 7.5 m<sup>3</sup>/min
- 46 - 264 cfm



# ...to the complete compressed air solution

## Complete packages save space. Save time.

Hydrovane compressors are available as fully integrated packages. Hypacs are available with membrane or refrigerant dryers and integrated receivers and come as a factory built package or can be supplied as a kit for local assembly.

**Integrated packages can be more cost- effective than building a system using separate components.**

Hydrovane's knowledgeable Authorised Distributors can advise you on the best package for your business to make the most of factory space and give you more for your budget.

### Hypac Open – Fixed Speed

#### HV01 – HV04 Models

##### Receiver Mounted

- Integrated Membrane Dryer
- 50 / 60 Hz
- 4 - 7.5 kW
- 10 bar
- 0.1 - 0.6 m<sup>3</sup>/min
- 4 - 20 cfm



### Hypac Enclosed – Fixed Speed and Regulated Speed (RS)

#### HR04 – HV22RS Models

##### Fully Enclosed

- Integrated Refrigerant Dryer model
- Integrated Receiver model
- 50 Hz
- 4 - 22 kW
- 7 - 10 bar
- 0.6 - 3.6 m<sup>3</sup>/min
- 20 - 127 cfm



# Make your budget go further

**Hydrovane Air Solution packages are the ultimate in convenience.**

Fully packaged with integrated receivers, refrigerant dryers and filtration, Hydrovane Air Solution models offer you the best solution for your compressed air requirements.



Air Solution Enclosed - Fixed Speed and Regulated Speed (RS)

## **HR04 - HV22RS Models**

Fully Enclosed. Fully Packaged

- Complete Package
- Integrated Refrigerant Dryer
- Integrated Receiver
- Filter Pack
- 50 Hz
- 4 - 22 kW
- 6 - 10 bar
- 0.6 - 3.6 m<sup>3</sup>/min
- 20 - 127 cfm



At the heart of your  
compressor's performance

# Hydrovane Pro puts you in complete control

HR04 - HV45RS Models

Hydrovane Pro  
Controller Features:

- Real Time Clock
- Timer Control
- Second Pressure Setting
- Status Display
- Group Fault Outputs
- Error Logs
- Digital Inputs
- MODBUS RTU
- Sequencer Capability
- Flash Programmable





## with simple-to-use, intelligent electronics

All Hydrovane compressors in both Fixed and Regulated Speed in the 4 to 45 kW model range 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.

### HV01, HV02 and HV04 Models Standard Starters

A high quality srarter with a robust control circuit, including over-temperature protection.





# Reduce your energy costs

## How does a Hydrovane compressor save energy?

### Regulated Speed (RS)

- RS control ensures optimum load conditions throughout the compressor's speed range

**Delivering maximum efficiency**

### Air Intake Modulation

- Air intake modulation at minimum speed delivers further energy savings

**To match the reducing air demand**

### Reduced Energy Venting System (REVS)

- In-built Reduced Energy Venting System (REVS)

**Improved part-load and off-load performance**

### SMART SERVO energy reduction system

- Optimised motor, drive and air end

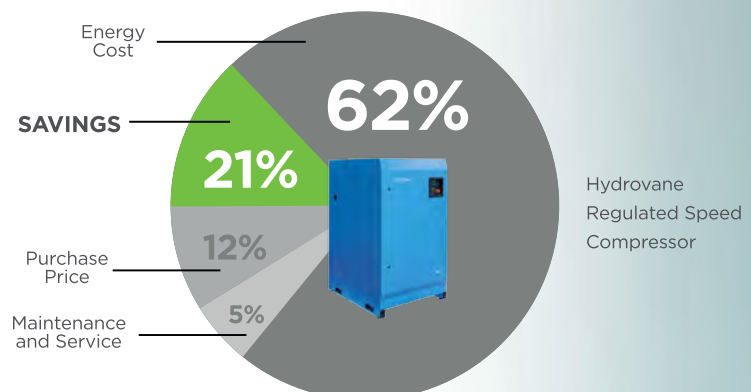
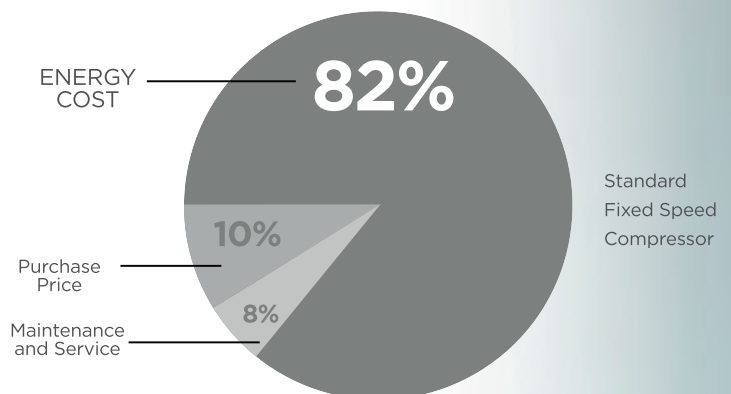
**Proven air cooled inverter drive**

**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.

**Reduce the cost of ownership and minimise your energy consumption.**



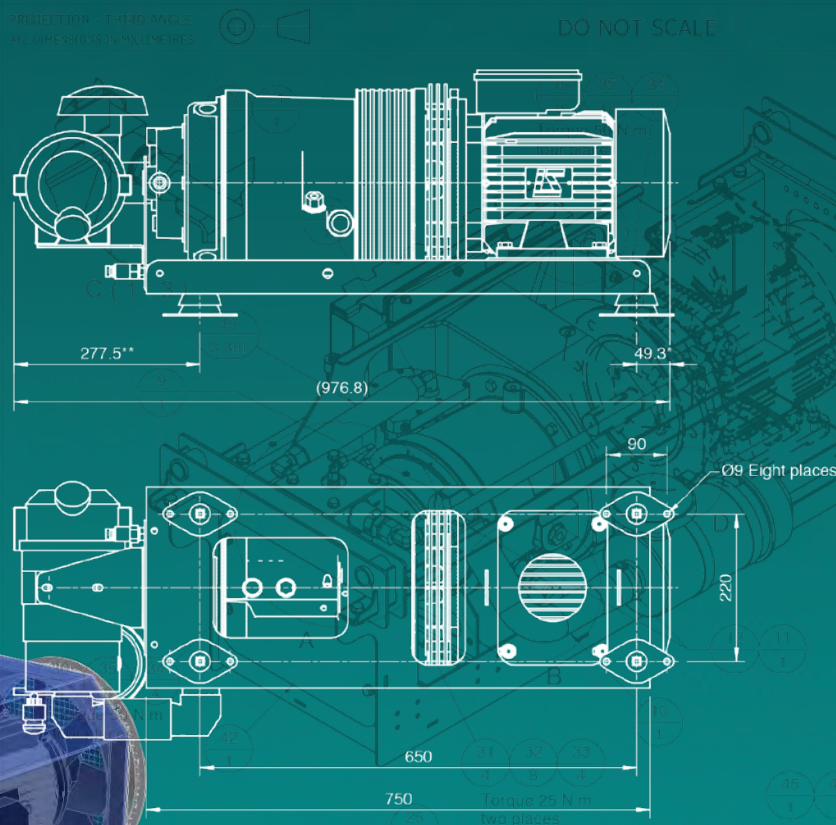
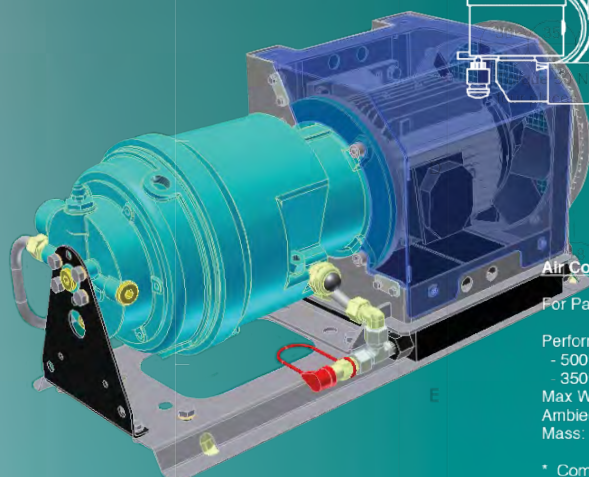


# Customise your Hydrovane

## to suit your applications

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.



### Air Cooled Compressor Arrangement

For Part Numbers refer to Drawing AV04-ATSN-xx

Performance @ 1450 rpm:  
 - 500\* l/min @ 10 bar  
 - 350\* l/min @ 12 bar  
 Max Working Pressure: 12 bar  
 Ambient: 40°C max  
 Mass: 75\* kg (approximately)

\* Compressor stator and motor type will be selected to suit specific flow/pressure requirements and ambient conditions. Motor dimensions/weight may vary.

\*\* Inlet Air Cleaner can be supplied as a loose item or mounted on a bracket on the end of the frame. Air Inlet adapter can be rotated through 30° increments to suit the application  
 Torque 50 N.m four places



# Hydrovane Advance™10

Warranty that delivers complete peace of mind



## 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 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
- ➔ Guaranteed Quality
- ➔ Accurate Maintenance Budgeting
- ➔ Maximise Compressor Life
- ➔ Simple administration
- ➔ Hydrovane will give you an appropriate service schedule
- ➔ Trained and qualified engineers will take care of your machines.

NOTE: Terms and conditions apply to all Advance 10 Warranty offers. Please consult your local Authorised Hydrovane Distributor for details.

## We're the professionals

Hydrovane's distributors will visit your site, free of charge, to assess your individual compressed air requirements in order to deliver the solution that best meets your requirements.

# Your local **Hydrovane** distributor

Sales and 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 through an extensive network of Authorised Distributors who will provide:

### **FREE energy surveys**

To test your compressed air system for possible leaks and other costly inefficiencies

### **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.

### **Factory-trained service engineers**

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

Look after your Hydrovane and it will last a lifetime



# 50 / 60 Hz Rotary Vane Air Compressors

## Open - Fixed Speed



| Motor Power (kW) | Model  | Voltage/Phase        |                                  | Starter Type | Configuration    | Receiver Capacity (litres) | Maximum FAD m³/min (cfm) | Dimensions (mm) |       |        | Noise dB(A) | Air Quality (mg/m³) |
|------------------|--------|----------------------|----------------------------------|--------------|------------------|----------------------------|--------------------------|-----------------|-------|--------|-------------|---------------------|
|                  |        | 50Hz                 | 60Hz                             |              |                  |                            | 10 bar                   | Depth           | Width | Height |             |                     |
| 1.1              | HV01   | 240V 1Ph<br>400V 3Ph | -                                | DOL          | Tripod Mounted   | -                          | 0.12 (4.3)               | 270             | 700   | 470    | 62          | <3                  |
| 1.5              | HV01   | -                    | 230V 1ph<br>230V 3ph<br>460V 1ph |              |                  |                            | 0.14 (4.9)               |                 |       |        | 65          |                     |
| 2.2              | HV02   | 240V 1Ph<br>400V 3Ph | -                                |              |                  |                            | 0.23 (8.0)               |                 |       |        | 69          |                     |
| 1.1              | HV01   | 240V 1Ph<br>400V 3Ph | -                                |              | Receiver Mounted | 75                         | 0.12 (4.3)               | 300             | 1120  | 730    | 62          |                     |
| 1.5              | HV01   | -                    | 230V 1ph<br>230V 3ph<br>460V 1ph |              |                  |                            | 0.14 (4.9)               |                 |       |        | 65          |                     |
| 2.2              | HV02   | 240V 1Ph<br>400V 3Ph | -                                |              |                  |                            | 0.23 (8.0)               |                 |       |        | 69          |                     |
| 4.0              | HV04RM | 400V 3Ph             | -                                |              |                  | 200                        | 0.57 (20.1)              | 455             | 1410  | 990    | 73          |                     |
| 5.5              | HR05PR | 400V 3Ph             | -                                | SD           | Receiver Mounted | 200                        | 0.77 (27.02)             | 760             | 1332  | 1068   | 73          | <3                  |
| 7.5              | HR07PR | 400V 3Ph             | -                                |              |                  |                            | 1.04 (37.0)              |                 |       |        |             |                     |

## Regeneration 50 Hz Enclosed - Fixed and Regulated Speed



| Motor Power (kW) | Model    | Voltage/Phase | Starter Type | Maximum FAD m³/min (cfm) |             | Dimensions (mm) |       |        | Noise dB(A) | Air Quality (mg/m³) |
|------------------|----------|---------------|--------------|--------------------------|-------------|-----------------|-------|--------|-------------|---------------------|
|                  |          |               |              | 7 bar                    | 10 bar      | Depth           | Width | Height |             |                     |
| 4.0              | HR04E    | 400V 3Ph      | SD           | 0.68 (24.0)              | 0.57 (20.1) | 680             | 630   | 1055   | 66          | <3                  |
| 5.5              | HR05E    |               |              | 0.91 (32.1)              | 0.71 (25.1) |                 |       |        |             |                     |
| 7.5              | HR07E    |               |              | 1.25 (44.1)              | 1.00 (35.0) |                 |       |        | 67          |                     |
| 7.5              | HR07E RS | 400V 3Ph      | SD           | -                        | 0.97 (34.3) | 680             | 630   | 1055   | 70          | <3                  |

## Enclosed - Fixed Speed



| Motor Power (kW) | Model | 50Hz          |              | 60Hz          |              | Maximum FAD m³/min (cfm) |              |              |              | Dimensions (mm) |       |        | Noise dB(A) | Air Quality (mg/m³) |
|------------------|-------|---------------|--------------|---------------|--------------|--------------------------|--------------|--------------|--------------|-----------------|-------|--------|-------------|---------------------|
|                  |       | Voltage/Phase | Starter Type | Voltage/Phase | Starter Type | 50Hz                     |              | 60Hz         |              | Depth           | Width | Height |             |                     |
|                  |       |               |              |               |              | 8 bar                    | 10 bar       | 8 bar        | 10 bar       |                 |       |        |             |                     |
| 11.0             | HV11  | 400V 3Ph      | SD           | 460V 3Ph      | DOL          | 1.63 (57.6)              | 1.41 (49.8)  | 1.48 (52.4)  | 1.29 (45.6)  | 850             | 700   | 1550   | 69          | <3                  |
| 15.0             | HV15  |               |              |               |              | 2.21 (78.1)              | 2.01 (71.0)  | 1.90 (67.1)  | 1.65 (58.4)  |                 |       |        | 70          |                     |
| 18.0             | HV18  |               |              |               |              | 2.88 (101.7)             | 2.55 (90.1)  | 2.80 (99.0)  | 2.44 (86.2)  |                 |       |        | 71          |                     |
| 22.0             | HV22  |               |              |               |              | 3.60 (127.1)             | 2.96 (104.5) | 3.25 (114.6) | 2.83 (100.0) | 1130            | 900   | 1640   | 73          |                     |
| 30.0             | HV30  |               |              |               |              | 5.00 (176.6)             | 4.31 (152.2) | 4.43 (156.5) | 3.86 (136.2) |                 |       |        |             |                     |
| 37.0             | HV37  |               |              |               |              | 5.95 (210.1)             | 5.07 (179.0) | 5.48 (193.7) | 4.77 (168.5) |                 |       |        |             |                     |
| 45.0             | HV45  |               |              |               |              | 7.33 (258.9)             | 6.54 (231.0) | 6.54 (231.0) | 5.73 (202.3) |                 |       |        |             |                     |

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

## Enclosed - Regulated Speed (RS)



| Motor Power (kW) | Model  | Voltage/Phase |          | Starter Type | Maximum FAD<br>m³/min (cfm) |              |              | Dimensions (mm) |       |        | Noise dB(A) | Air Quality (mg/m³) |
|------------------|--------|---------------|----------|--------------|-----------------------------|--------------|--------------|-----------------|-------|--------|-------------|---------------------|
|                  |        | 50Hz          | 60Hz     |              | 6 bar                       | 8 bar        | 10 bar       | Depth           | Width | Height |             |                     |
| 11.0             | HV11RS | 400V 3Ph      | 460V 3Ph | v            | 1.74 (61.6)                 | 1.56 (55.0)  | 1.37 (48.5)  | 850             | 700   | 1550   | 69          | <3                  |
| 15.0             | HV15RS |               |          |              | 2.29(80.8)                  | 2.03 (71.6)  | 1.72 (60.7)  |                 |       |        | 70          |                     |
| 18.0             | HV18RS |               |          |              | 2.96 (104.6)                | 2.75 (96.9)  | 2.51 (88.5)  |                 |       |        | 71          |                     |
| 22.0             | HV22RS |               |          |              | 3.53 (124.5)                | 3.22 (113.8) | 3.07 (108.3) | 1130            | 900   | 1640   | 73          |                     |
| 30.0             | HV30RS |               |          |              | 5.38 (189.9)                | 4.87 (171.9) | 4.51 (159.3) |                 |       |        |             |                     |
| 37.0             | HV37RS |               |          |              | 6.17 (217.8)                | 5.72 (202.1) | 5.27 (186.1) |                 |       |        |             |                     |
| 45.0             | HV45RS |               |          |              | 7.47 (263.7)                | 6.90 (243.5) | 6.51 (230.0) |                 |       |        |             |                     |

## Hypac 50 Hz Enclosed



| Motor Power (kW) | Model         | Configuration | Voltage/Phase                | Starter Type | Receiver Capacity (litres) | Package Dimensions (mm) |       |        | Ambient Temp Min - Max (°C) | Pressure Dew Point (°C) | Air Quality (mg/m³) |    |
|------------------|---------------|---------------|------------------------------|--------------|----------------------------|-------------------------|-------|--------|-----------------------------|-------------------------|---------------------|----|
|                  |               |               |                              |              |                            | Depth                   | Width | Height |                             |                         |                     |    |
| 4.0              | HR04          | HRER          | Integrated Receiver          | 400V 3Ph     | SD                         | 260                     | 685   | 1146   | 1165                        | 0-40                    | 8                   | <3 |
| 5.5              | HR05          |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 7.5              | HR07 / HR07RS | HRER / RS     |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 11               | HV11 / HV11RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 15               | HV15 / HV15RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 18               | HV18 / HV18RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 22               | HV22 / HV22RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 4.0              | HR04          | HRED          | Integrated Refrigerant Dryer | 400V 3Ph     | SD                         | -                       | 968   | 630    | 1078                        | 0-40                    | 3                   | <1 |
| 5.5              | HR05          |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 7.5              | HR07 / HR07RS | HRED / RS     |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 11               | HV11 / HV11RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 15               | HV15 / HV15RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 18               | HV18 / HV18RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |
| 22               | HV22 / HV22RS |               |                              |              |                            |                         |       |        |                             |                         |                     |    |

## Air Solution 50 Hz Enclosed - The Complete Package



| Motor Power (kW) | Model         |      | Configuration                           | Voltage/Phase | Starter Type | Receiver Capacity (litres) | Package Dimensions (mm) |       |        | Ambient Temp Min - Max (°C) | Pressure Dew Point (°C) | Air Quality (mg/m³) |
|------------------|---------------|------|-----------------------------------------|---------------|--------------|----------------------------|-------------------------|-------|--------|-----------------------------|-------------------------|---------------------|
|                  |               |      |                                         |               |              |                            | Depth                   | Width | Height |                             |                         |                     |
| 1.1              | HV01RM        | AERD | Receiver Mounted + Membrane Dryer       | 400V 3Ph      | DOL          | 75                         | 300                     | 1120  | 730    | 0 - 40                      | 30*                     | <1                  |
| 2.2              | HV02RM        |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 4.0              | HV04RM        |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 4.0              | HR04          | AERD | Integrated Refrigerant Dryer & Receiver | 400V 3Ph      | SD           | 260                        | 968                     | 1146  | 1165   | 0 - 40                      | 3                       | <1                  |
| 5.5              | HR05          |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 7.5              | HR07 / HR07RS |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 11               | HV11 / HV11RS |      |                                         |               |              | 272                        | 1187                    | 1355  | 1550   | 3                           | <1                      |                     |
| 15               | HV15 / HV15RS |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 18               | HV18 / HV18RS |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |
| 22               | HV22 / HV22RS |      |                                         |               |              |                            |                         |       |        |                             |                         |                     |

Note: The only 60 Hz model available is the HV01RM

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 45°C ambient

Hydrovane compressors are designed for indoor installation under cover only.



[www.hydrovaneproducts.com](http://www.hydrovaneproducts.com)

Global Expertise  
Local solutions



Supplied by your local Authorised Hydrovane Distributor:

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F. +44 (0)1527 521140

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Denver**

Your Ultimate Source for Pressure and Vacuum