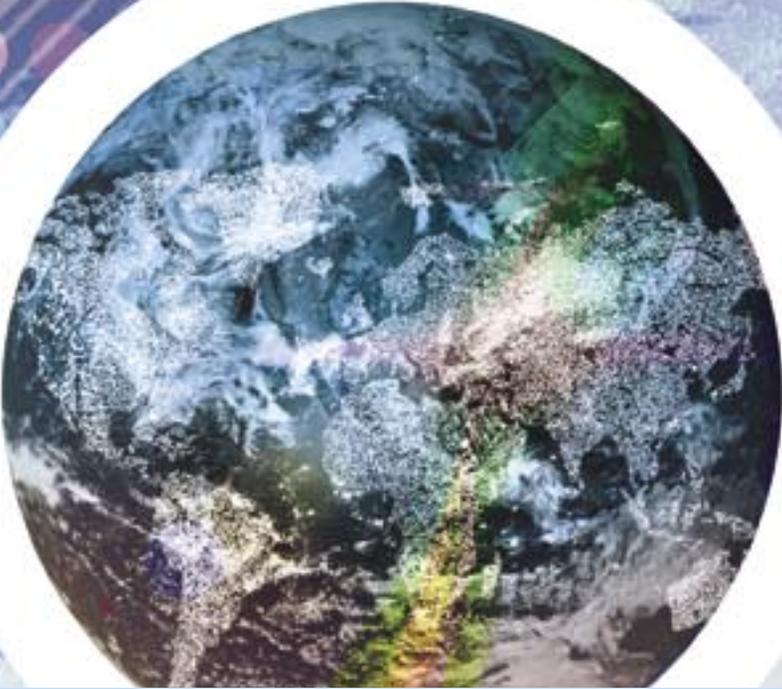


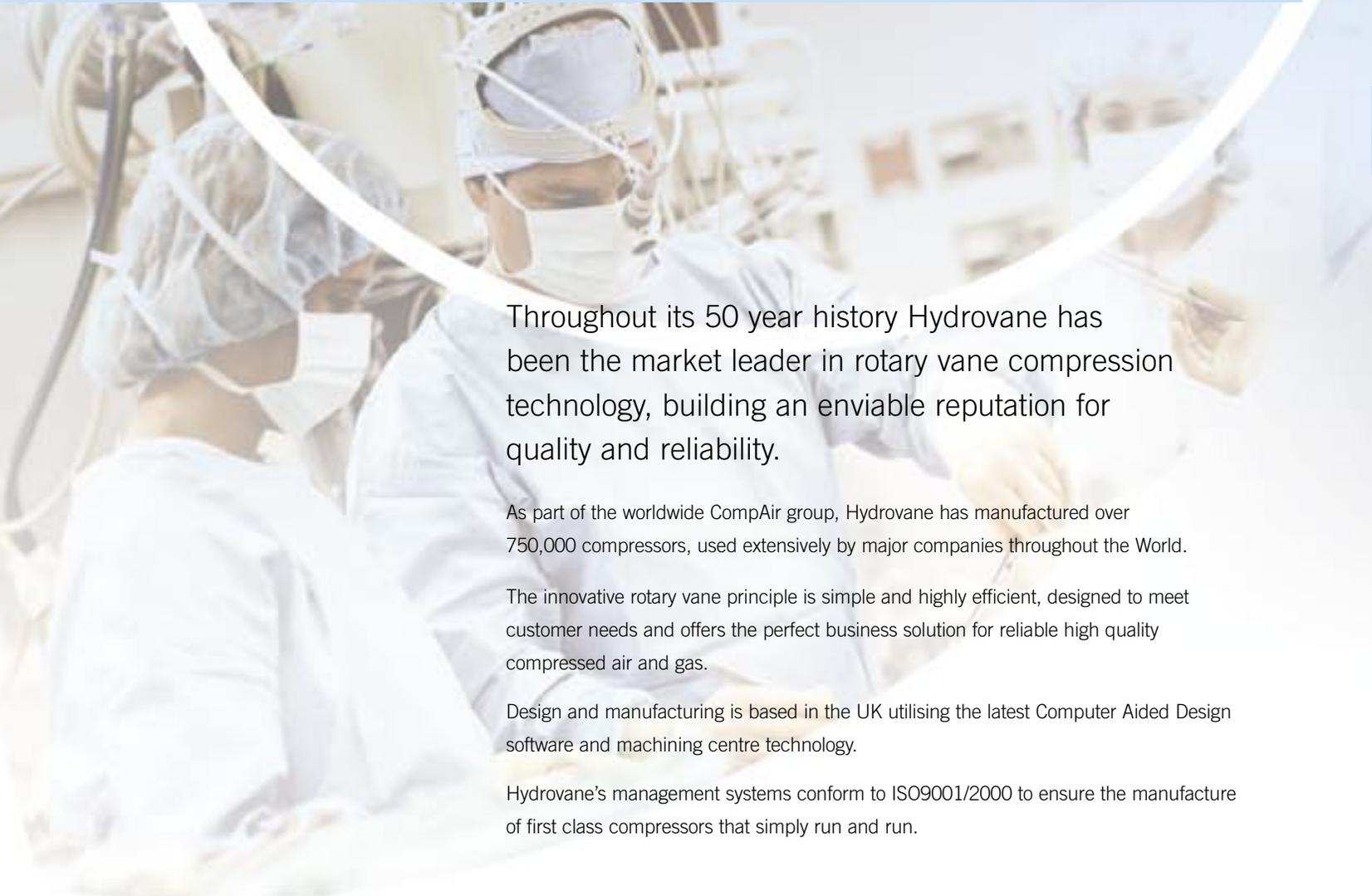


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© **hydrovane** revolves around **innovation**



Throughout its 50 year history Hydrovane has been the market leader in rotary vane compression technology, building an enviable reputation for quality and reliability.

As part of the worldwide CompAir group, Hydrovane has manufactured over 750,000 compressors, used extensively by major companies throughout the World.

The innovative rotary vane principle is simple and highly efficient, designed to meet customer needs and offers the perfect business solution for reliable high quality compressed air and gas.

Design and manufacturing is based in the UK utilising the latest Computer Aided Design software and machining centre technology.

Hydrovane's management systems conform to ISO9001/2000 to ensure the manufacture of first class compressors that simply run and run.

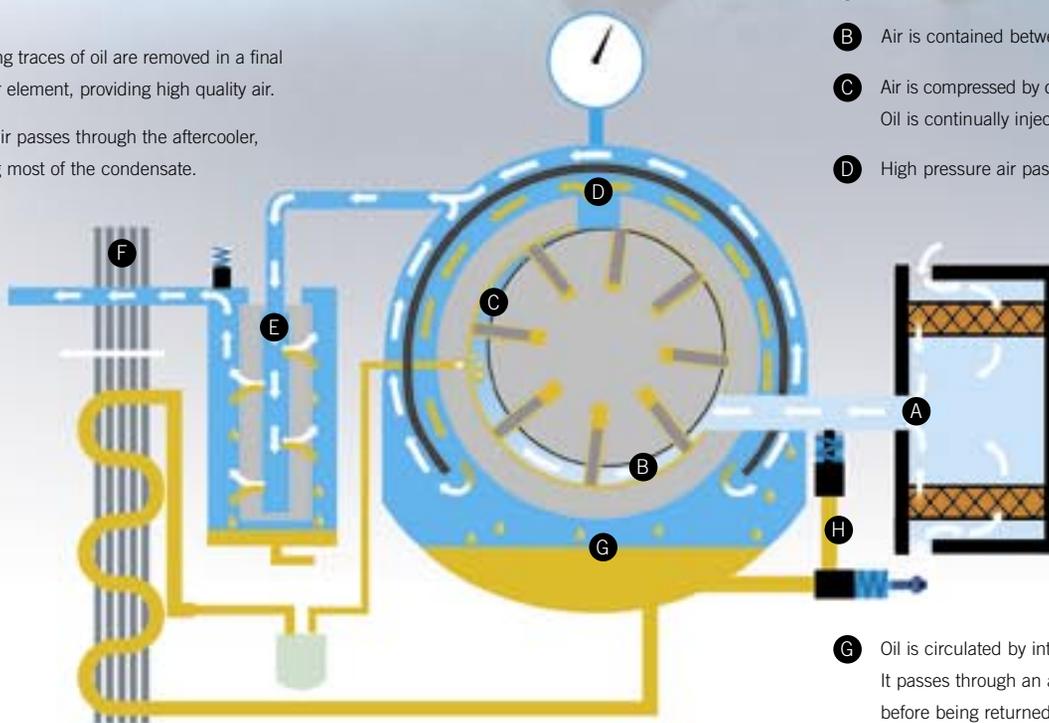
## Hydrovane key benefits

The key to Hydrovane's exceptional performance is the simplicity of the rotary vane principle:

- Reliability** Directly driven at low speed with minimal stresses, **provides a totally dependable air supply**
- Quality air** Consistent pulse free supply with automatic regulation **delivers clean dry compressed air**
- Efficiency** Intake modulation combined with low energy vent down **minimises energy costs**
- Long lasting** No bearings or metal parts to be replaced **just runs and runs and runs**
- Quiet** Integral design combined with slow speed **offers extensive choice of locations**
- Back up** 10 year 'built in' Advance warranty programme **known costs for total peace of mind.**

## how it works

- 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.



- 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.
- G** Oil is circulated by 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.

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# HV01 - 04 (1 - 4kW)



Engineered to meet the most stringent of specifications this range is designed for a wide variety of applications including automobile, car body repair shops, dentistry, packaging and machine tools.

## Key Features

- Small integrated design fits anywhere
- Available free standing or receiver mounted
- Continuous run or stop/start control
- Low noise level
- Totally vibration free
- Ideal for a wide range of OEM applications
- Single phase versions up to 2kW
- Design Council award winning design linking simplicity of operation with proven reliability.



	Model	Maximum FAD m <sup>3</sup> /min (cfm) 10 bar	Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A)	Weight (kg)
							Depth	Width	Height		
<b>Tripod Mounted</b>	HV01	0.12 (4)	1.1	1450	1.0	0.375	270	700	470	62	41
	HV02	0.24 (8)	2.2	2900	1.0	0.375	270	700	470	69	41
<b>Receiver Mounted</b>	HV01RM	0.12 (4)	1.1	1450	1.0	0.375	300	1120	730	62	77
	HV02RM	0.24 (8)	2.2	2900	1.0	0.375	300	1120	730	69	77
	HV04RM	0.54 (20)	4.0	1450	1.8	0.5	455	1410	990	73	145

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## HV04 - 15 (4 - 15kW)



The vertical Hydrovane compressor is a totally new concept building on the proven vane technology that has been continually developed over the last 50 years.

### Key Features

- Maximum air delivery at minimum cost.  
'No drive drive' means no belts, pulleys or couplings, nothing to fail, nothing to change.  
100% drive efficiency 100% of the time
- Cleanest air available from a lubricated compressor
- Smallest footprint in its kW range
- Lowest noise level
- Electronic control panel
- Designed to look good.  
Compliments the most modern environment
- Full air intake modulation and automatic stop/start
- Spin off maintenance. Quick, easy and cost effective
- Single speed 4 - 7kW in 7 or 10 bar,  
11 and 15kW in 8 or 10 bar
- Regulated speed with integrated inverter offering choice of system pressures from 6 to 10 bar combined with minimum energy consumption
- Reduced Energy Venting System (REVS) on 11 and 15kW models.

	Model	Maximum FAD m <sup>3</sup> /min (cfm)			Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A)	Weight (kg)
		7 bar	8 bar	10 bar					Depth	Width	Height		
Free Standing Vertical	HV04	0.66 (24)	-	0.54 (20)	4.0	1450	3.0	0.75	635	500	1050	66	181
	HV05	0.90 (32)	-	0.72 (25)	5.5	1450	3.0	0.75	635	500	1050	66	186
	HV07	1.26 (44)	-	1.02 (35)	7.5	1450	3.0	0.75	635	500	1050	67	197
	HV11	-	1.74 (61)	1.50 (52)	11.0	1450	7.0	0.75	825	700	1390	69	350
	HV15	-	2.28 (81)	1.98 (71)	15.0	1450	7.0	0.75	825	700	1390	70	363

Free Air Delivered (FAD) according to ISO 1217 Noise measured in accordance with ISO 3744, tolerance ±3dB(A)

#### CompAir UK Ltd

Claybrook Drive, Washford Industrial Estate, Redditch, Worcs B98 0DS, UK

T. +44 (0) 1527 525522 F. +44 (0) 1527 521140 E. hydrovane@compair.com www.hydrovane.co.uk

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## HV18 - 22 (18 - 22kW)

This range is normally supplied as an open free standing compressor which can be simply upgraded to a fully enclosed super silent unit.

### Key Features

- Open or enclosed
- Low noise levels in standard open form
- Full air intake modulation
- IP55 Class F motor directly driving the well proven Hydrovane air end
- Integrated starter providing auto idle (low power off load) running combined with automatic stop/start
- Quality air, <10°C above ambient, oil content <5ppm
- Total service access backed up with full range of service kits
- Regulated speed with integrated inverter offering choice of system pressures from 6 to 10 bar (HV22RS only).



### Combi Design

The key to the combi design's versatility is the unique platform base. All models utilise a standard steel base frame on which the compressor/motor assembly sits. The addition of four clip-on panels quickly and easily converts the open compressor into a totally enclosed unit reducing noise levels by 2dB(A) and improving the aesthetics.

	Model	Maximum FAD m <sup>3</sup> /min (cfm)		Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A) open (enc)	Weight (kg)
		8 bar	10 bar					Depth	Width	Height		
Open Platform Base	HV18	2.94 (104)	2.52 (90)	18.0	1450	13.6	1.0	610	1772	1087	76 (74)	450
	HV22	3.60 (127)	3.12 (110)	22.0	1450	13.6	1.0	610	1772	1087	78 (76)	450

HV18 - HV22 enclosure kit 34541, noise attenuation module 34552

Free Air Delivered (FAD) according to ISO 1217      Noise measured in accordance with ISO 3744, tolerance ±3dB(A)

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## HV30 - 45 (30 - 45kW)

Hydrovane heavy duty range mounted on steel tripods.

### Key Features

- Full air intake modulation
- Power saving dual mode controls
- Easy access starter with auto idle (low power off load running) combined with automatic stop/start
- Directly driven at electric motor speed
- Simple to operate, install and maintain
- Cast iron components. Efficiency improves with time
- Over temperature protection of compressor and electric motor
- Integral aftercooler
- Regulated speed with integrated inverter offering choice of system pressures from 6 to 10 bar (HV37RS only).



### No Air Receiver Required

All Hydrovane compressors deliver clean, pulse free air at a constant pressure. This means the compressor can utilise a receiver or alternatively the compressed air may be taken direct to the system.

	Model	Maximum FAD m <sup>3</sup> /min (cfm)		Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A)	Weight (kg)
		8 bar	10 bar					Depth	Width	Height		
<b>Tripod Mounted</b>	HV30	4.68 (165)	4.32 (152)	30.0	1450	13.6	1.25	867	1875	900	80	560
	HV37	5.64 (199)	5.22 (185)	37.0	1450	14.5	1.5	910	1972	1032	84	620
	HV45	6.84 (242)	6.00 (210)	45.0	1450	24.0	1.5	910	1972	1032	84	696

Free Air Delivered (FAD) according to ISO 1217      Noise measured in accordance with ISO 3744, tolerance ±3dB(A)

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## HV55 - 75 (55 - 75kW)

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.

### Key Features

- Low noise level - acoustically attenuated steel panels
- Intake modulation and low energy vent down
- IP55 Class F motor
- Compressor directly driven at electric motor speed
- High quality air <10°C above ambient
- Serviceability - easy panel removal for total access
- Cyclonic air intake
- Electronic control panel
- Thermistor overtemperature protection of motor and compressor.



	Model	Maximum FAD m <sup>3</sup> /min (cfm) 7.5 bar	Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A)	Weight (kg)
							Depth	Width	Height		
Enclosed	HV55	9.48 (335)	55.0	1450	45.0	1.5	955	2330	1600	71	1450
	HV75	12.66 (447)	75.0	1450	45.0	1.5	955	2330	1600	73	1560

Free Air Delivered (FAD) according to ISO 1217

Noise measured in accordance with ISO 3744, tolerance ±3dB(A)

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## HV07 - 75RS Regulated Speed (7.5 - 75kW)



The major cost of compressor ownership is energy.

The Hydrovane range of Regulated Speed compressors are specifically designed to save energy.

To achieve this the compressor speed is regulated to exactly meet the system air requirement, providing high quality air at minimum cost.

### Key Features

- Energy savings typically 30% to 50%
- Customer selectable target pressure
- Pressure range from 6 to 10 bar (7 to 22kW), 6 to 8 bar (37 and 75kW)
- Standard component parts - inverter, motor and compressor
- Top efficiency through operating speeds
- Industry 'state-of-the-art' inverter technology
- Automatic 'super soft' starting
- Low operating speed range of motor
- Built-in choke and filter to remove EMC noise
- As easy to maintain as a single-speed compressor
- Reduced Energy Venting System (REVS) on 15 - 75kW models.

	Model	Maximum FAD m <sup>3</sup> /min (cfm)	Pressure Range (bar)	Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet Rp	Dimensions (mm)			Noise dB(A) open (enc)	Weight (kg)
								Depth	Width	Height		
<b>Regulated Speed</b>	HV07RS	0 to 1.23 (44)	6 to 10	7.5	up to 2220	3.0	0.75	635	500	1050	(67)	204
	HV15RS	0 to 2.46 (87)	6 to 10	15.0	up to 2250	7.0	0.75	825	700	1390	(70)	372
	HV22RS	0 to 3.52 (124)	6 to 10	22.0	up to 2160	13.6	1.0	780	1772	1087	78(76)	490
	HV37RS	0 to 5.63 (199)	6 to 8	37.0	up to 1930	14.5	1.5	950	2113	979	84	831
	HV75RS	0 to 12.31 (435)	6 to 8	75.0	up to 1960	45.0	1.5	955	2330	1600	(73)	1560

Free Air Delivered (FAD) according to ISO 1217 Noise measured in accordance with ISO 3744, tolerance ±3dB(A)

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## Hypac range HV01-15 (1 - 15kW)

A fully integrated range of compressor packages with outputs from 0.12 to 2.46m<sup>3</sup>/min



### **Hypac Membrane Range HV01 to HV04 Horizontal Compressors**

Available as a factory built package or kit for local assembly

- Horizontal receiver (75 litre for 1 and 2kW, 200 litre for 4kW)
- Hydrovane direct drive horizontal compressor
- Aftercooler for primary water separation
- Membrane dryer technology
- CF series filtration
- Automatic stop start
- Fully connected and ready to run.

HV04 to HV07



HV11 and HV15



### **Hypac Refrigerant Range HV04 to HV15 Vertical Compressors**

Available in 3 versions

- ACER with receiver
- ACED with refrigerant dryer and filtration
- AERD with receiver, refrigerant dryer and filtration.

#### **ACER With Receiver**

An integrated compressor and receiver combination

- Hydrovane vertical compressor
- Receiver 250 litres (4 - 7kW), 272 litres (11 - 15kW)
- Automatic stop start and regulated speed.

#### **ACED With refrigerant dryer and filtration**

A complete compressor and dryer package

- Hydrovane vertical compressor
- X series water trap
- Refrigerant dryer (pressure dew point 3°C)
- In-line filter (1 micron)
- Automatic stop start and regulated speed
- Fully connected and ready to run.

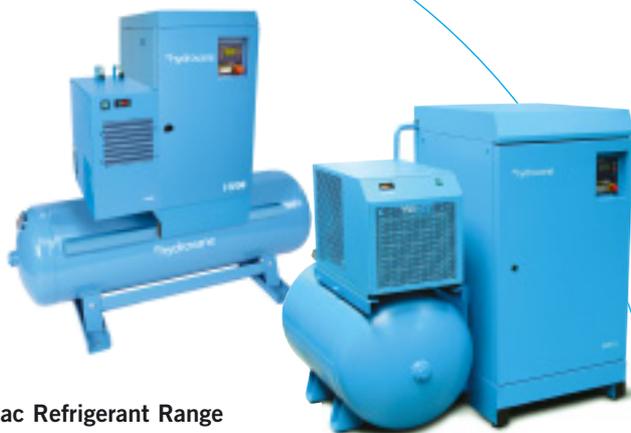
#### **AERD With receiver, refrigerant dryer and filtration**

The total package of compressor dryer, filtration and receiver

- Hydrovane vertical compressor
- Receiver 250 litres (4 - 7kW), 272 litres (11 - 15kW)
- Water trap
- Refrigerant dryer (pressure dew point 3°C)
- In-line filter (1 micron)
- Automatic stop start and regulated speed
- Fully connected and ready to run.



# Hypac range



## Hypac Membrane Range HV01 - 04 Horizontal

- Ultra dry air (pressure dew point 30°C below ambient)
- Ultra clean air (0.01 micron)
- Dry air stored in receiver - no corrosion
- Membrane dryer technology
  - No moving parts
  - No maintenance
  - No electrical connections
  - No condensate discharge
  - No CFCs
  - No noise

### Typical Applications

- Co-ordinate measuring, dentistry, electronics, laboratories, laser cutting, machine tools, optical, packaging, spraying, printing, robotics and a multitude of OEM applications.

## Hypac Refrigerant Range HV04 - 15 Vertical

- Dry air (pressure dew point 3°C)
- Clean air (1 micron)
- Dry air stored in receiver - no corrosion
- Refrigerant dryer technology
  - Simple, efficient, reliable

### Typical Applications

- Garages, tyre shops, body shops, engineering, woodworking, textiles, laundries, packaging, paper.
- any compressed air user looking for a compact total package solution.

Compressor Performance	Model	Maximum FAD m³/min (cfm)				Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet (Rp)	Noise dB(A)	Weight (kg)
		7 bar	7.5 bar	8 bar	10 bar						
Horizontal Membrane Range	HV01RM	-	-	-	0.12 (4)	1.1	1450	1.0	0.75	62	77
	HV02RM	-	-	-	0.24 (8)	2.2	2900	1.0	0.375	69	77
	HV04RM	-	-	-	0.54 (20)	4.0	1450	1.8	0.5	73	145
Vertical Refrigerant Range	HV04	0.66 (24)	-	-	0.54 (20)	4.0	1450	3.0	0.75	66	181
	HV05	0.90 (32)	-	-	0.72 (25)	5.5	1450	3.0		66	186
	HV07	1.26 (44)	-	-	1.02 (35)	7.5	1450	3.0		67	197
	HV11	-	-	1.74 (61)	1.50 (52)	11.0	1450	7.0		69	350
	HV15	-	-	2.28 (81)	1.98 (71)	15.0	1450	7.0		70	363
	HV07RS	0 to 1.23 (44) - 6 to 10 bar				7.5	up to 2220	3.0		67	204
	HV15RS	0 to 2.46 (87) - 6 to 10 bar				15.0	up to 2250	7.0		70	372

Hypac Performance	Model	Package Dimensions (mm)			Package Weights (kg)								Ambient Temperature min - max (°C)	Receiver Capacity (l)	Dryer Type	Pressure Dew Point (°C)	Air Cleanliness (mg/m³)	Air Outlet (Rp)	
		Depth	Width	Height	Horizontal HV01/02/04	Vertical 4kW	5kW	7kW	11kW	15kW	7kWRS	15kWRS							
Horizontal Membrane Range	HV01RM	300	1153	681	93	-	-	-	-	-	-	-	0 - 40	75	Membrane	30*	0.01	0.375	
	HV02RM	300	1153	681	93	-	-	-	-	-	-	75		30*		0.01	0.375		
	HV04RM	459	1420	982	156	-	-	-	-	-	-	200		30*		0.01	0.5		
Vertical Refrigerant Range	HV04 - HV07RS												0 - 45**		Refrigerant			0.75	
	ACER	741	1570	1520	-	306	311	322	-	-	329	-		250		8	<2		
	ACED	741	900	1100	-	223	229	240	-	-	247	-		-		3	<1		
	AERD	741	1570	1520	-	348	354	365	-	-	372	-		250		3	<1		
	HV11 - HV15RS																		
	ACER	1187	1354	1387	-	-	-	-	487	500	-	507		272		8	<2		
	ACED	825	1110	1387	-	-	-	-	412	425	-	432		-		3	<1		
AERD	1187	1354	1387	-	-	-	-	552	565	-	572	272	3	<1					

Free Air Delivered (FAD) according to ISO 1217  
 Noise measured in accordance with ISO 3744, tolerance ±3dB(A)  
 \*Below ambient  
 \*\*Regulated Speed (RS) units operate to ambient temperature up to 40°C

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## Hydrovane Advance Warranty Programme

The Hydrovane 'Advance' warranty is a unique compressor care programme formulated to offer the compressor owner complete warranty cover on Hydrovane compressors from 4kW to 75kW. In addition there is a lifetime guarantee on the blades.

### Key benefits

- Total package warranty for 10 years or 48,000 hours - Complete peace of mind
- Free of charge - No premiums to pay
- Planned maintenance schedules - Maximum production
- Known revenue costs - No unexpected repair bills
- Simple to join with minimum administration - No fuss, no complication.

### Customer requirements

- Purchase a new Hydrovane compressor from an authorised Hydrovane distributor
- Have the installation approved by an authorised Hydrovane distributor
- Enter into a service agreement with an authorised Hydrovane distributor
- Set up regular servicing as detailed in the service schedule
- Use genuine Hydrovane parts and lubricants for service
- Register for the Hydrovane Advance warranty programme.

### Hydrovane commitment

- An appropriate service package will be agreed
- Trained and qualified engineers will be used.

### Re-Advance

An opportunity for Hydrovane customers to join the Hydrovane Advance warranty programme and achieve up to 10 years full warranty cover, subject to the following:

- The compressor will have less than 10,000 running hours
- A chargeable 'Health check' will be carried out.

### Standard Warranty

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



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## Aftermarket Support Packages

Hydrovane service philosophy is one of regular maintenance being the key to long, reliable and trouble free compressor life. Hydrovane have refined and developed the approach to compressor service and is without question the leader in the field.



### Servicing kits

The kit concept has been developed to make servicing quick, easy and reliable. Hydrovane kits have been carefully constructed to contain all of the parts required for an effective preventative maintenance programme. Using the kits as part of the recommended service schedule will prevent costly breakdowns, ensuring a continuous supply of high quality compressed air.

### Lubricants

Hydrovane lubricants have been developed over many years specifically for Hydrovane compressors. The range has been specially formulated to ensure peak operating efficiency, guaranteeing optimum compressor performance.

Under the Fluid Force brand the lubricants offer high quality solutions for a wide range of compressor applications:

- Fluid Force red 2000 for standard compressor installations
- Fluid Force Clear for food and sensitive applications
- Fluid Force HPO (High Performance Oil) for high temperature and arduous conditions

### Training

The company is committed to providing the Hydrovane owner with fully trained engineers to care for their investment. In our fully equipped training school we instruct our distributors service engineers on the correct procedures of service and repair. Engineers are taught the theory of compression, the principles of valve operation combined with practical training on installed and fully operational compressors.

All engineers must pass a written examination and only then are presented with a qualifying certificate of competence.

Annually, engineers are required to attend update courses to ensure they are always fully aware of the latest products and improvements.

#### CompAir UK Ltd

Claybrook Drive, Washford Industrial Estate, Redditch, Worcs B98 0DS, UK

T. +44 (0) 1527 525522 F. +44 (0) 1527 521140 E. [hydrovane@compair.com](mailto:hydrovane@compair.com) [www.hydrovane.co.uk](http://www.hydrovane.co.uk)

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## The Hydrovane 50hz range

Compressor Performance	Model	Maximum FAD m <sup>3</sup> /min (cfm)				Motor Power (kW)	Motor Speed (rpm)	Oil Capacity (l)	Air Outlet (Rp)	Dimensions (mm)			Noise dB(A) open (in-c)	Weight (kg)	
		7 bar	7.5 bar	8 bar	10 bar					Depth	Width	Height			
	<b>Tripod Mounted</b>	HV01	-	-	-	0.12 (4)	1.1	1450	1.0	0.375	270	700	470	62	41
		HV02	-	-	-	0.24 (8)	2.2	2900	1.0	0.375	270	700	470	69	41
	<b>Receiver Mounted</b>	HV01RM	-	-	-	0.12 (4)	1.1	1450	1.0	0.375	300	1120	730	62	77
		HV02RM	-	-	-	0.24 (8)	2.2	2900	1.0	0.375	300	1120	730	69	77
		HV04RM	-	-	-	0.54 (20)	4.0	1450	1.8	0.5	455	1410	990	73	145
	<b>Vertical</b>	HV04	0.66 (24)	-	-	0.54 (20)	4.0	1450	3.0	0.75	635	500	1050	(66)	181
		HV05	0.90 (32)	-	-	0.72 (25)	5.5	1450	3.0	0.75	635	500	1050	(66)	186
		HV07	1.26 (44)	-	-	1.02 (35)	7.5	1450	3.0	0.75	635	500	1050	(67)	197
		HV11	-	-	1.74 (61)	1.50 (52)	11.0	1450	7.0	0.75	825	700	1390	(69)	350
	<b>Combi</b>	HV18	-	-	2.94 (104)	2.52 (90)	18.0	1450	13.6	1.0	610	1772	1087	76 (74)	450
		HV22	-	-	3.60 (127)	3.12 (110)	22.0	1450	13.6	1.0	610	1772	1087	78 (76)	450
	<b>Tripod Mounted</b>	HV30	-	-	4.68 (165)	4.32 (152)	30.0	1450	13.6	1.25	867	1875	900	80	560
		HV37	-	-	5.64 (199)	5.22 (185)	37.0	1450	14.5	1.5	910	1972	1032	84	620
		HV45	-	-	6.84 (242)	6.00 (210)	45.0	1450	24.0	1.5	910	1972	1032	84	696
	<b>Enclosed</b>	HV55	-	9.48 (335)	-	-	55.0	1450	45.0	1.5	955	2330	1600	(71)	1450
		HV75	-	12.66 (447)	-	-	75.0	1450	45.0	1.5	955	2330	1600	(73)	1550
	<b>Regulated Speed</b>	HV07RS	0 to 1.23 (44) - 6 to 10 bar				7.5	up to 2220	3.0	0.75	635	500	1050	(67)	204
		HV15RS	0 to 2.46 (87) - 6 to 10 bar				15.0	up to 2250	7.0	0.75	825	700	1390	(70)	372
		HV22RS	0 to 3.52 (124) - 6 to 10 bar				22.0	up to 2160	13.6	1.0	780	1772	1087	78 (76)	490
		HV37RS	0 to 5.63 (199) - 6 to 8 bar				37.0	up to 1930	14.5	1.5	950	2113	979	84	831
		HV75RS	0 to 12.31 (435) - 6 to 8 bar				75.0	up to 1960	45.0	1.5	955	2330	1600	(73)	1560

Free Air Delivered (FAD) according to ISO 1217. Noise measured in accordance with ISO 3744, tolerance ±3dB(A). Compressors operate to ambient temperatures up to 45°C (Regulated Speed (RS) compressor operate up to 40°C).

## The Hypac range

Hypac Performance	Model	Package Dimensions (mm)			Package Weights (kg)		Ambient Temperature min - max (°C)	Receiver Capacity (l)	Dryer Type	Pressure Dew Point (°C)	Air Cleanliness (mg/m <sup>3</sup> )	Air Outlet (Rp)					
		Depth	Width	Height	Horizontal HV01-02/04	Vertical HV04 - HV15RS											
	<b>Horizontal Membrane Range</b>	HV01RM	300	1153	681	93	-	75	Membrane	30*	0.01	0.375					
		HV02RM	300	1153	681	93	-										
		HV04RM	459	1420	982	156	-										
	<b>Vertical Refrigerant Range</b>	HV04-HV07RS		741	1570	1520	-	306 - 329	250	8	<2	0.75					
		ACED	741										900	1100	-	223 - 247	
		AERD	741										1570	1520	-	348 - 372	
		HV11-HV15RS		1187	1354	1387	-	487 - 507	272	272	8	<2	0.75				
		ACED	825											1110	1387	-	412 - 432
		AERD	1187											1354	1387	-	552 - 572

\*Below ambient

\*\*Regulated Speed (RS) units operate to ambient temperature up to 40°C

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Claybrook Drive, Washford Industrial Estate,  
Redditch, Worcs B98 0DS, UK

T. +44 (0) 1527 525522  
F. +44 (0) 1527 521140

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For full details and enquiries please see [www.hydrovane.co.uk](http://www.hydrovane.co.uk)

**Servivane** 

Av. Las Trojes #109 Col. Centro Bodegero Las Trojes  
C.P. 37227  
León Guanajuato,  
Tel y Fax: +52 (477) 764 017 4 / (477) 764 017 3 / (477) 763 046 0



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