

# Hydrovane

## Rotary Vane Compressors



Intelligent Air Technology



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Hydrovane – The best investment in compressed air technology you can make today



**The Hydrovane HV series of rotary vane compressors** are versatile, powerful and cost effective. They can be found in trains, ships, engineering, distilling, brewing, packaging sites, and in large and small industrial units throughout the world. In fact, they are the perfect business solution to your requirement for reliable, high quality compressed air. No matter what industry you operate in - there will be a Hydrovane compressor that is perfectly able to meet your needs.

The low noise operation of Hydrovane air compressors means that they can be installed right alongside your equipment. Most models are available either as open units or fitted with enclosure panels which reduce noise levels. For particularly sound sensitive sites, we can supply you with noise attenuation kits.

Hydrovane compressors are built to the highest of specifications. They consistently meet the most demanding of requirements with a minimum of maintenance, down time, and replacement parts.

Every machine we make undergoes rigorous testing before being shipped for installation. This means we ensure that the set up of a Hydrovane air compressor is fast, cost effective and hassle free. You can now look forward to 24/7 running in the years to come.

In fact, many of the Hydrovane compressors built in the 1970's are still faithfully producing high quality air at this very moment!



# Some good reasons why you should invest in a Hydrovane Compressor

- Rotary Vane - Technology - Provides a consistent supply of high quality, pulse free air
- Direct Drive - No belts - nothing to fail and no power loss
- Slow Running Speed - Low noise, low stress, vibration free operation
- Cast Iron Components - Long life, trouble free, low maintenance, 24/7 running
- Bushes not Bearings - Bushes lasts a lifetime, bearings needs to be replaced
- Regulation Control/ Automatic Start-Stop - Minimal energy required to fulfill your air demands
- Thermistor Protection - Total protection of compressor and motor from damage by over temperature
- Rigorous Testing - Guaranteed first time start up
- Low Noise Level - People can work alongside a Hydrovane compressor without discomfort or risk
- 45 Degree C Ambient Capability - Suitable for installation in all climates
- Small Footprint - Can be installed alongside equipment taking up minimal space
- Ease of Installation - "Plug and Play" installation
- Total Accessibility - Quick and easy to maintain

## **We stand behind our products!**

We include a "No quibble" 5 year Advance Warranty\* providing you use original parts, recommended oils and have regular servicing by an approved distributor.

\* In nominated markets



# The Rotary Vane Principle

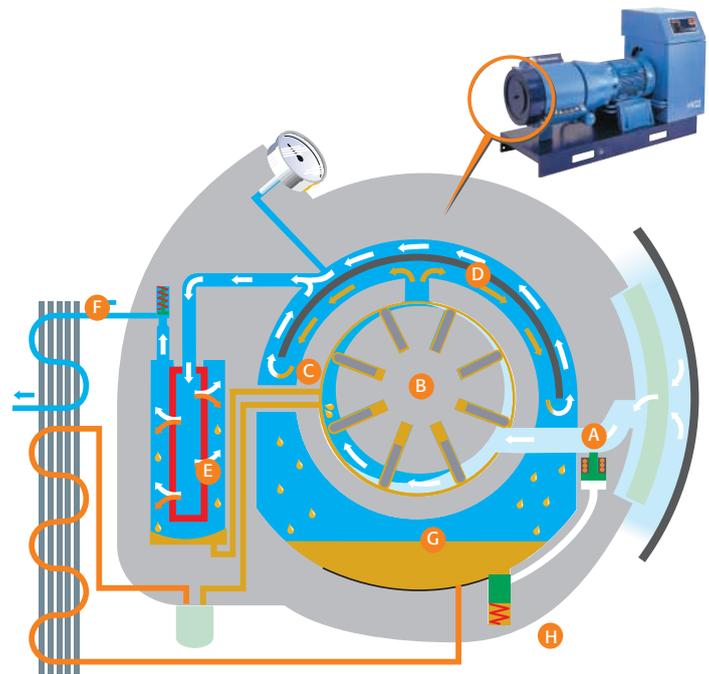
The key to the success of the Hydrovane HV Series is the unique rotary vane principle.

- The compressor is driven by an electric motor. It operates at a very low speed, which ensures long component life and total reliability.
- The rotor is the only part that is continually moving, reducing any potential component malfunction to a minimum.
- The rotor has slots into which sliding vanes are fitted. These vanes ride on a film of oil so that they move smoothly in and out of the slots.
- The rotor is positioned off centre within the stator. The rotor is directly driven by the electric motor so that it rotates within the stator.
- During rotation, centrifugal force extends the vanes from their slots to form individual compression cells.
- As the cells move around the stator the trapped air is compressed and then expelled from the stator. The oil is separated from compressed air.
- This cool, clean, compressed air is then piped direct to your equipment without the need for a receiver.
- For applications that have fluctuating demands, regulated speed control ensure that you draw only on the energy required to meet your demands.

**This means that you only use power and energy when you need it. You save money!**

# The 'ABC' of the Hydrovane compressor

- A Air intake valve - Precise control of delivery pressure.
- B Rotor and stator - Fixed displacement means constant output.
- C Oil Injection - Long component life and reliable performance
- D Primary separation - Cyclonic action allows extended separator life



- E Final Separator - Consistant top quality air
- F After cooler - Standard equipment allowing optimum dryer sizing straight from the compressor
- G Pressurised oil circulation - No oil pump means nothing to fail, instant air circulation on start up - totally sealed system
- H Modulating Servo Control - Only the air required by the system is compressed - minimum energy - minimum cost

# Hydrovane Control Systems

## Automatic

Stop/start control, hours counter, operating mode selector switch, warning light and pressure gauge.



## Electronic

Touch sensitive stop/start control. Permanent monitoring and display of all operating parameters, mode selection, event log, service countdown and oil condition monitoring.

Available on 11 kW to 75 kW Hydrovane air compressors



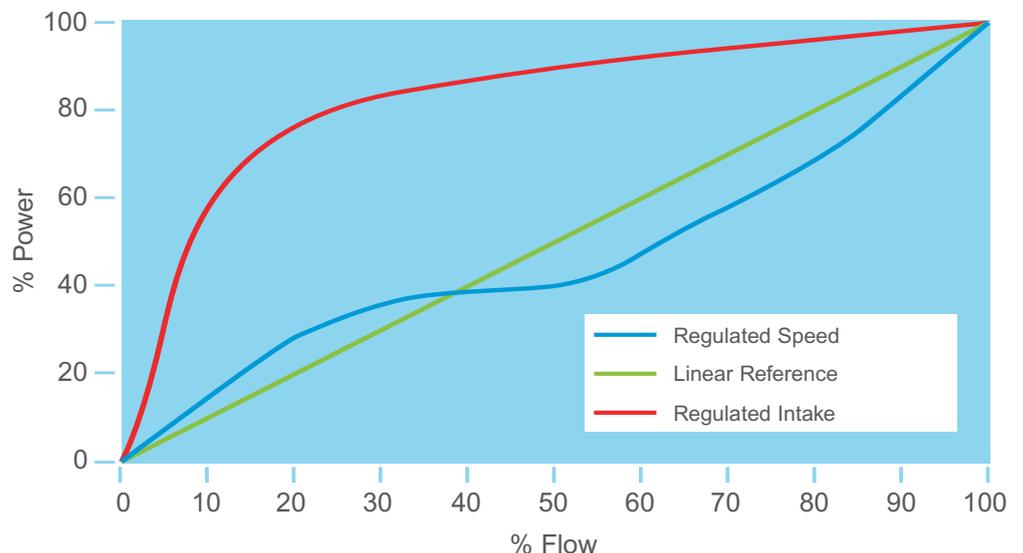
## Regulated Speed

- “Supersoft” start/stop
- Automatic stop/start control
- Customer adjustable system pressure
- Permanent display options
- Graphic display of supply power, motor current, motor torque
- RS 485 communication
- In built EMC filter
- Easy to install
- Easy to operate
- Supported with 5 year advanced warranty

Regulated speed is ideal for sites with fluctuating air demands.

## Regulated Speed Offers Energy Savings

Most air installations operate between 40% to 70% of full load capacity. Savings of over 50% in energy costs can be achieved by supplying compressed air according to demand. Some countries offer government subsidies and tax relief, so the investment in a Regulated Speed Hydrovane Air Compressor can be self financing! Your purchase becomes an investment that keeps on working - and saving you money well after you have passed the pay back point.



Specific performance showing energy savings



## Technical Information

Model	Performance F.A.D l/s (cfm)			Motor Power	Oil Capacity	Noise Levels	Air Outlet	Dimensions			Weight
	7 bar	8 bar	10 bar	kW (hp)	Litres	dBA (open/encl)	RP (open/encl)	Length (open/encl)	Width (open/encl)	Height (open/encl)	kg (open/encl)
HV01	-	-	1.96 (4.2)	1.1 (1.5)	1	62	3/8	700 *1153	270 *300	470 *681	35 *72
HV02	-	-	3.7 (7.9)	2.2 (3.0)							35 *83
HV04	11 (24)	-	9 (20)	4 (5.5)	3	66	3/4	680	470	1050	152
HV05	15 (32)	-	12 (25)	5.5 (7.5)							
HV07	21 (44)	-	17 (35)	7.5 (10)		67					156
HV07RS	0 - 20 (0-42)										160
HV11	-	29.0 (61.4)	24.5 (51.9)	11 (15)	5.7	76/72	3/4	1578/1648	610	976	291/341
HV15	-	38.0 (80.5)	33.3 (70.6)	15 (20)		78/74		1627/1648			324/374
HV15RS	0-39 (0-83)							339/389			
HV18	-	49.0 (103.8)	42.3 (89.7)	18 (25)	13.6	76/72	1	1772/1778	610	1087	428/480
HV22	-	60.0 (127.1)	52.0 (110.2)	22 (30)		78/74					620
HV22RS	0-56 (0-119)										
HV30	-	78 (165)	72 (152)	30 (40)		80/73	1 1/4	2010/1800	867/725	920/1225	510/675
HV37	-	94 (199)	87 (185)	37 (50)	14.5	84/72	1 1/2	2114/1800	910/900	1058/1415	560/780
HV37RS	0-95 (0-200)					84		2108	965	940	771
HV45	-	114 (242)	100 (210)	45 (60)	24	84/73			2141/1800	910/900	1058/1415
HV55	158 (335)	-	-	55 (75)	42	71	2	2330	955	1600	1450
HV75	211 (447)	-	-	75 (100)		73					



Hydrovane HV02RM  
(Receiver Mounted)



Hydrovane HV07



Hydrovane HV11  
(Enclosed Option)

Free Air Delivery (F.A.D) in accordance with ISO 1217  
Noise: Tested to Pneuop PN8NTC2.3.  
\* Receiver mounted unit  
\*\* HV30: 1" open, 1 1/4" enclosed

## Options

Model	Dryer			Dryer Connection Kit		Dryer Bypass Kit	Aftercooler	Receiver Tank Capacity l	Enclosure Kit	Noise Attenuation Module		
	Membrane	Dessicant	Refrigerant	Electronic	Automatic							
HV01	ACA-501D	HDD1AK	-	-	-	-	ACA-501	75	-	-		
HV02	ACA-502D	HDD2AK	-	-	-	-	ACA-502		-	-		
HV04	-	-	34800	-	-	-	-	250	-	-		
HV05	-	-		-	-	-	-		-	-		
HV07	-	-		-	-	-	-		-	-		
HV07RS	-	-		-	-	-	-		-	-		
HV11	-	-	F18	34575	34574	34576	-	-	34560	34564		
HV15	-	-	F26				-	-			-	-
HV15RS	-	-					-	-			-	-
HV18	-	-	F37	34568	34567	34569	-	-	34541	34552		
HV22	-	-					-	-			-	-
HV22RS	-	-					-	-			-	-



Hydrovane HV22  
(Enclosed Option)



Hydrovane HV45



Hydrovane HV75

Standard Voltages 230/400V, 50Hz.  
 Safety Features: Motor - Thermistors and overloads, Compressor - Silicon Sensors, Emergency Stop, High Pressure Safety Valve. Lubricants: CompAir rotary vane oils. Warranty: 12 month on-site parts and labour. Built-in five year warranty for nominated countries. Ask your distributor for further details. Quality: CompAir UK Ltd Quality Management System approved to BS EN ISO 9001. Registered Design.

# Intelligent Air Technology

Compressed air solutions for every application

## Compressors

0.1 - 43m<sup>3</sup>/min

0.75 - 450 kW

Up to 414 bar g

## Lubricated

Rotary Vane

Single Stage Screw

Speed Regulated Vane

## Complete Accessories Programme

Filters and Dryers

Cooling Systems

Heat Recovery

Condensate Management

Air Receivers

Multi-Set Controllers

Lubricants

## Value Added Services

Air Audit

Performance Reporting

Utility Air

Performance Contracting

## Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations

Local Service Centres

Guaranteed Parts Availability



**Hydrovane**<sup>®</sup>  
A CompAir Product

www.CompAir.com  
Email hydrovane@compair.com

**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

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.



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