

# © hydrovane

V01 - HV37

Rotary Vane Air Compressors



Hydrovane is part of the CompAir Group

## Rotary Vane Compressors

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

**The CompAir Hydrovane 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 meet your requirements for reliable, high quality compressed air. No matter what industry you operate in - there is a Hydrovane compressor that will meet your needs.

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

Hydrovane compressors are built to the highest level of specifications. They consistently meet the most demanding requirements with minimum maintenance, downtime or replacement parts.

Every machine 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 look forward to continuous running in the years to come.

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



# The Rotary Vane Principle

The key to the success of the Hydrovane 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 potential component malfunction to a minimum.
- The rotor has slots where the 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 center 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 directly to your equipment without the need for a receiver.
- For applications that have fluctuating demands, regulated speed control ensures 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

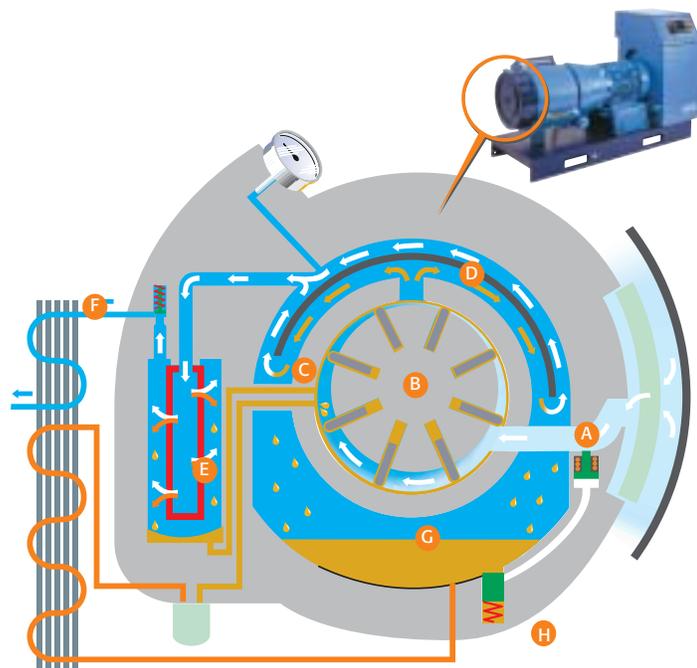
Fixed displacement means constant output.

## C. Oil Injection

Long component life and reliable performance.

## D. Primary Separation

Cyclonic action allows extended separator life.



## E. Final Separator

Consistent top quality air.

## F. Aftercooler

Standard equipment allowing optimum dryer sizing straight from the compressor.

## G. Pressurized Oil Circulation

No oil pump means there's 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.

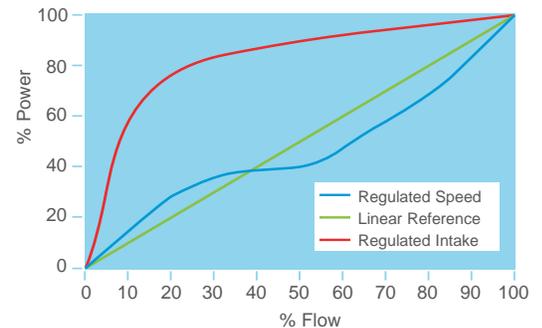
## Regulated Speed

- “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
- Built In EMC Filter
- Easy to Install
- Easy to Operate
- Supported with Five Year 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. A savings of over 50% in energy costs can be achieved by supplying compressed air according to demand. Some areas 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

## 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 and 24/7 running.

### Bushes Not Bearings

Bushes last a lifetime; bearings need to be replaced.

### Regulation Control/Automatic Start-Stop

Minimal energy is required to fulfill your air demands.

### Thermistor Protection

Total protection of your 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.

### 115°F 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 Five Year Warranty providing you use original parts, recommended oils and have regular servicing by an approved distributor.*



Electronic controller as used on HV04-HV15 (vertical) models.

## Technical Information

Model	cfm			Motor Power hp (kW)	Oil Capacity (gal.)	Noise Levels dB(A) (Open/Encl.)	Air Outlet NPT	Dimensions Inches			Weight lbs. (Open/Encl.)	Available Voltages	Receiver Tank Capacity (gal.)	Enclosure Kit Part No.	Noise Attenuation Module Part No.
	100 psi	115 psi	150 psi					Length (Open/Encl.)	Width (Open/Encl.)	Height (Open/Encl.)					
V01	6.7	-	5.0	2 (1.5)	1	65	3/8	30/38*	11/22*	18/33*	130/315*	***	30	-	-
V04	23	-	15	5 (4)		72		1/2	42/63*	24/21*	24/40*		300/665*		
HV04	24	-	20	5 (4)	1	66	3/4	27	19	41	335	200/3/60 208/3/60 230/3/60 460/3/60	60	Std.	-
HV05	32	-	25	7.5 (5.5)											
HV07	44	-	35	10 (7.5)											
HV07RS**	0-42														
HV11	-	61	-	15 (11)	1.85	69	3/4	32.5	27.6	54.7	772	208/3/60 230/3/60 460/3/60 230/3/60	120	Std.	-
HV15	-	81	-	20 (15)											
HV15RS**	0-78														
HV18	-	104	-	25 (18)	3.6	76/72	1	64/65	24	43	944/1,294	208/3/60 200/3/60 230/3/60 460/3/60	120	34541	34552
HV22	-	120	-	30 (22)		78/74									
HV22RS	0-119					26			977/1,327						
HV37	-	200	-	50 (37)	3.8	84	1 1/2	83.2	36	43	1,235	460/3/60	-	-	-
HV37RS	0-200					84		83	38	37	1,670				

\* Open/Receiver Mounted Unit

\*\* V07RS and HV15RS Horizontal is Available for 230/3/60

\*\*\* V01 and V04 Voltages: 115/1/60, 208/1/60, 230/1/60, 208/3/60, 230/3/60, 460/3/60

Hy-Pack part numbers, all with 1) 60 gal receiver: 1 compressor G204-2256; 1 compressor with dryer G204-2257. Hy-Pack Plus 2 compressors 1G204-2256; 2) compressors with dryers 1G204-2257.

SmartBox Sequencer to and control up to 8 HV compressors, part number 33983.

Shaded areas are vertical design.



Hydrovane 04  
(Receiver Mounted)



Hydrovane 07



Hydrovane 11/15



Hydrovane 18  
(Enclosed Option)



Hydrovane 22RS

Free Air Delivery (F.A.D) in accordance with ISO 1217.  
Noise: Tested to Pneurop PN8NTC2.3.

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 Labor. 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.



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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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