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Gas Boost Compressor Systems

G
gas boost



Compression systems
for gas boost applications

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Gas Boost Compressor Systems : HV04G - HV22G

- Suitable for: Sweet gas
Sour gas
Bio gas
- Applications: Microturbine fuelling
Gas recovery
 - Well head
 - Landfill
 - Sewage
- Built to ATEX Zone 2 specification
- 100% duty cycle operation
- Automatic gas delivery to demand
- Single or Regulated Speed
- 8,000 hour/annual service interval*
- Lubricant specifically blended for gas
- Specialised service kits
- 12 months warranty
- Available as a total package
- Available as a gas end for localised packaging

*Sour and Bio gases service intervals may reduce

With over 10 years of experience, Hydrovane gas boost compressor solutions set high quality standards for worldwide markets.

The Hydrovane range of gas boost (HGV) compressors are available in a modular format to allow customers to choose the level of pre-packaging required. Full packages are designed to meet ATEX zone 2 gas application standards.

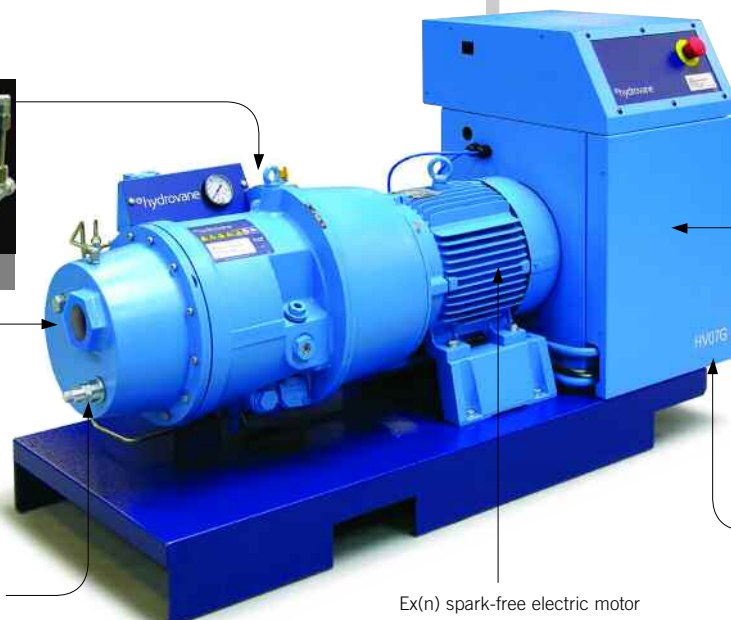
Hydrovane gas boost compressors are supported by a worldwide network of distribution outlets, offering the highest levels of after-sales support.



Compressor purge point

2" BSP gas inlet

External control of pressure



Ex(n) spark-free electric motor

Intrinsically safe barrier



ATEX remote starter



Pressure control



Oil drain

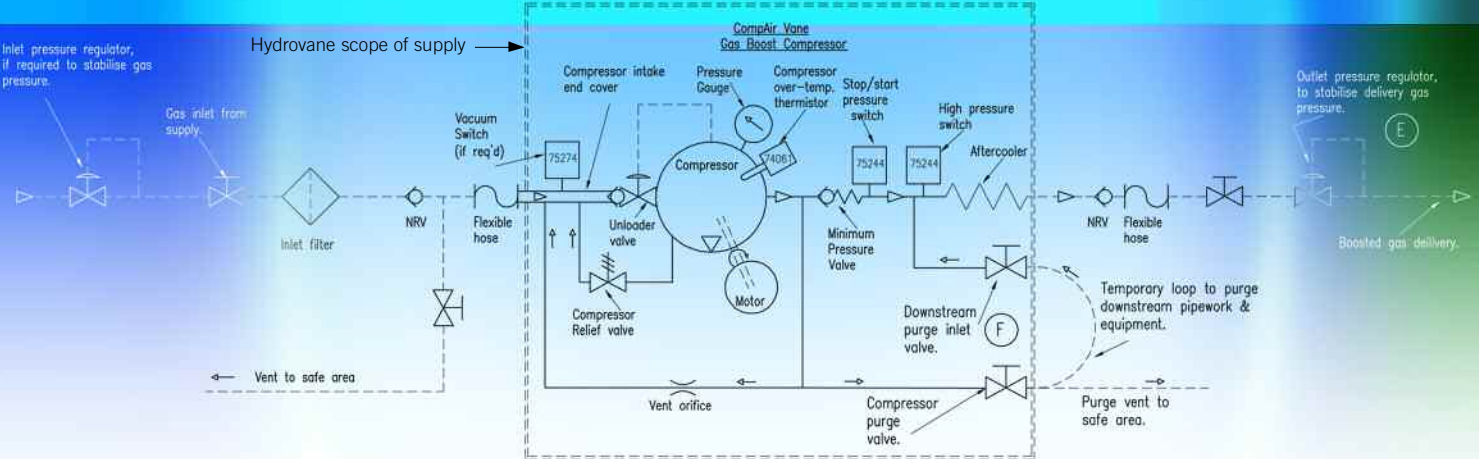


Well head pumping



Micro generation

Typical gas boost compressor installation



The Hydrovane Air Cooled range of gas boost compressor packages

		Performance Data							Electrical Data					
Model		Working Pressure bar g		FGD @ 6 bar (other pressures available) m ³ /min	Ambient Temp °C	Max Inlet Gas Pressure bar g	Motor Speed rpm	Discharge Temp AA* K	Free Field Noise Level dB(A)	Nominal Motor Rating kW	Electric Motor Detail	Starter ATEX Remote	Controls	Intrinsically Safe Aparatus
		Min	Max											
Single Speed	HV04G	6	10	0.60	-15 to +45	0.4	1450	8	66	4	IP55 Ex(n) (non sparking)	IP65 DOL enclosure to be positioned minimum 2 metres from compressor	Stop/start	Shunt diode safety barriers (Zenner)
	HV05G			0.90					5.5					
	HV07G			1.30					7.5					
	HV18G			2.90					18					
	HV22G			3.50					22					
Regulated Speed	HV05GRS**	6	10	0 to 0.85	0 to +40	0.4	Regulated	8	67	5.5		Regulated speed	Galvanic Isolator	Repeater power supply
	HV07GRS**			0 to 1.25					7.5					
	HV22GRS			0 to 3.30					22					

		Weights Dimensions and Capacities Data									
Model		Compressor Oil Capacity litres	Compressor Oil Type	Gas Quality (Residual Oil Content) mg/m ³	Weight IP55 kg	Package Dimensions mm			Gas Inlet Inches	Gas Outlet Inches	Drive
						Length	Width	Height			
Single Speed	HV04G	3	Emkerate (PAG)	2	181	635	500	1050	2	0.75	Direct
	HV05G				186						
	HV07G				197						
	HV18G				428	1772	610	1087			
	HV22G				450						
Regulated Speed	HV05GRS**	13.6	Emkerate (PAG)	2	204	635	550	1050	2	0.75	Direct
	HV07GRS**				490						
	HV22GRS				490						

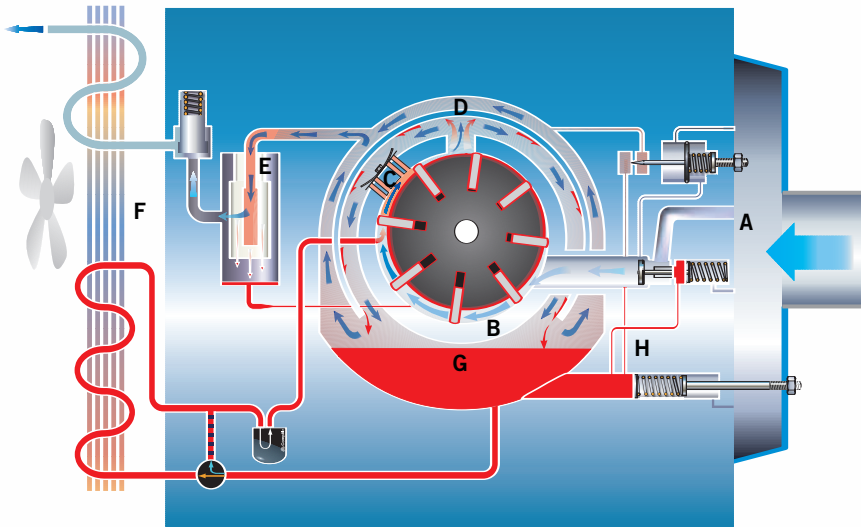
Free Gas Delivered (FGD) according to ISO 1217. Noise measured in accordance with ISO 3744, tolerance ±3dB(A). *Above ambient **Available for operation from DC supply
Compressors operate to ambient temperatures up to 45°C (Regulated Speed (RS) compressor operate up to 40°C). Warranty: 12 months.
Quality: CompAir UK Ltd Quality Management System approved to BS EN ISO 9002. Registered Design

Hydrovane key benefits

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

Hydrovane technology	Quiet and vibration free
Pure rotary motion	Delivers pulse free gas
Continuous operation	24/7
Three stage oil separation	High quality gas
Only one rotating part	Long reliable life
Intake modulation	Only compress to the gas demand
Direct drive	No belts and pulleys

How it works



- A** Gas is drawn in through the intake valve.
- B** Gas is contained in cells between the rotor blades and stator.
- C** Gas is compressed by decreasing volume. Oil is continually injected to cool, seal and lubricate.
- D** Pressurised gas passes into the primary oil separator.
- E** Remaining traces of oil are removed in a final separator element, delivering high quality gas.
- F** System gas passes through the aftercooler
- G** Oil is circulated by internal gas pressure; it passes through an oil cooler and filter before being returned into the compressor.
- H** Gas flow is regulated by an automatic modulation system.



Mobile gas pump trailers contain Hydrovane GBCs



Landfill pumping

Service backup

Wherever you are, expect excellent service from factory trained engineers, to keep your investment working at peak performance throughout its life.

We provide local service coverage across the UK & Ireland and throughout the world.