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100% OIL FREE - GUARANTEED
Oil-free rotary screw compressors

⇒ **D15H – D110H SR**



INTELLIGENT AIR TECHNOLOGY

“Increasing pressures, both commercial and legislative demand lower environmental impact from your business – issues that our oil-free compressors meet head on. The DH range offers market-leading energy efficiency to minimise your carbon emissions whilst using no oil anywhere in the compressor – thus helping to demonstrate your ‘green’ credentials and increasing your market appeal.”



COMPAIR DH - TRADITIONAL OIL-FREE TECHNOLOGY DOESN'T GET CLOSE.

	CompAir DH	Traditional Oil-Free
Oil	No ✓	Yes
Speed	Up to 3500rpm ✓	6000 - 25000rpm
Compression Temperature	60°C ✓	Up to 200°C
Compression Elements	1 ✓	2
Number of Gears	0 ✓	5-7
Number of Bearings	7 ✓	More than 15
Number of Seals	2 ✓	More than 15



COMPAIR DH – THE MOST ADVANCED COMPRESSION TECHNOLOGY DELIVERING THE HIGHEST QUALITY, OIL-FREE COMPRESSED AIR FOR ALL APPLICATIONS

The use of absolutely no oil, negates the issues of contaminated air. **NO OIL - NO RISKS.**

- Purified water injected into the compression element lubricates, seals and cools the compression process.
- No gearbox means no need for associated oil lubrication.
- Low bearing loads and low speeds mean sealed-for-life bearings can be used, requiring no oil lubrication.

Our simply oil-free design is built to last, so **REDUCED LIFETIME COSTS AND EASIER MAINTENANCE**

can bring added peace of mind.

- Significantly fewer moving parts means less to go wrong.
- Lower speeds and balanced bearing loads extend the compression element service life to 48,000 hours for low-cost operation.
- Cooler operating temperatures reduce component wear.
- No oil or oil laden parts to dispose of, saving time and expense.

The CompAir DH compressor range uses smart technology, reducing the cost of operation and bringing the **POWER TO CUT ENERGY COSTS.**

- The hotter the air, the less efficient the compression. Water lubrication provides temperatures no higher than 60°C for near isothermal compression – helping to reduce power consumption.
- Power transmission is optimised thanks to a direct-drive motor with no gears or belts.
- CompAir's variable speed drive technology consumes just the energy required to do the job and no more.

Balanced Loads = Longest Life

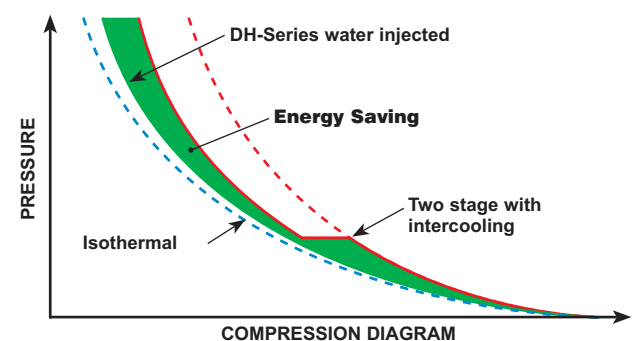


Axial loads act on both sides of the main rotor.



Radial loads act on both the top and underside of the main rotor.

Energy Savings



Water injection means lower temperatures, and lower temperatures mean more efficient compression

“The largest cost component of a compressor during its lifetime is the power required to run it. CompAir incorporate energy-saving technologies at every stage of the design, delivering a compressor that works harder and smarter.”

The DH range from CompAir:

- Decreases energy costs
 - Decreases maintenance costs
 - Decreases risk to businesses
 - Decreases impact on the environment
- Single-stage, direct-driven compression element maximises efficiency and minimises maintenance.
 - High quality water injection lubricates, cools and seals the compression process, maximising efficiency.
 - Fully packaged and silenced enclosure reduces noise and simplifies installation.
 - Variable speed technology available to reduce energy costs.
 - Comprehensive control ensures safe and reliable operation and includes remote communication capability.



A TOTALLY OIL-FREE COMPRESSOR MEANS ABSOLUTELY NO POSSIBILITY OF OIL CONTAMINATION IN YOUR PROCESS – GUARANTEED

Manufacturers and suppliers of oil-free compressors for over 80 years, CompAir are committed to quality and innovation and understanding the customers' operational and business needs. Nowhere is this more apparent than in the development of our DH range.

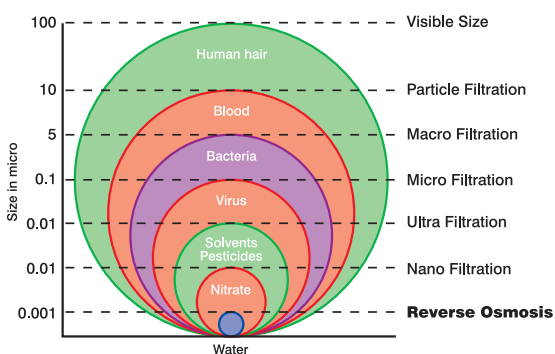
Our oil-free compressors are helping industries across the globe to meet and exceed quality and production objectives in food and beverage, pharmaceutical, electronic, healthcare and power generation applications to name but a few.

HIGH EFFICIENCY FILTRATION SYSTEM



The water purification system using a reverse osmosis membrane filtration system provides the high quality injection water.

Size of Filtration

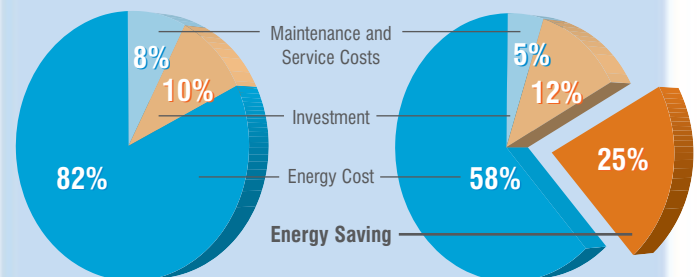


REGULATED SPEED TECHNOLOGY

Maximum efficiency at any level of demand cuts energy costs and saves money.

- High reliability
- High energy efficiency
- Low cost of ownership

ANNUAL COST OF OWNERSHIP



A A typical fixed speed compressor operating at 70% load.

B A variable speed compressor at 70% load.



“Relax - you’re in good company. From innovative warranties and technical support to rapid parts supply. CompAir’s comprehensive Aftermarket programmes ensure optimal performance 365 days of the year.”

- *Dedicated, around the clock service helpline.*
- *Rapid response from highly qualified local engineers.*
- *Genuine, quality spare parts where and when needed.*

ASSURE WARRANTY - TO ENSURE YOUR PEACE OF MIND!

The CompAir Assure Warranty and Service programs will assure you up to 44,000 hours/6 years ¹⁾ peace of mind, and is one of the most generous warranties available in the industry.

Your Benefits:

- The Assure warranty is totally free to the compressor owner ²⁾
- The CompAir authorised service provider will deliver a guaranteed quality of service
- An Assure service agreement underpinning the warranty will enable accurate maintenance budgeting and cost of ownership
- The use of genuine CompAir parts and lubricants will maximise compressor life and efficiency

assure™

First Class Compressor - First Class Warranty

¹⁾ whichever is the soonest

²⁾ subject to Terms & Conditions



CompAir DH – TECHNICAL DATA

⇒ FIXED SPEED – AIR AND WATER COOLED

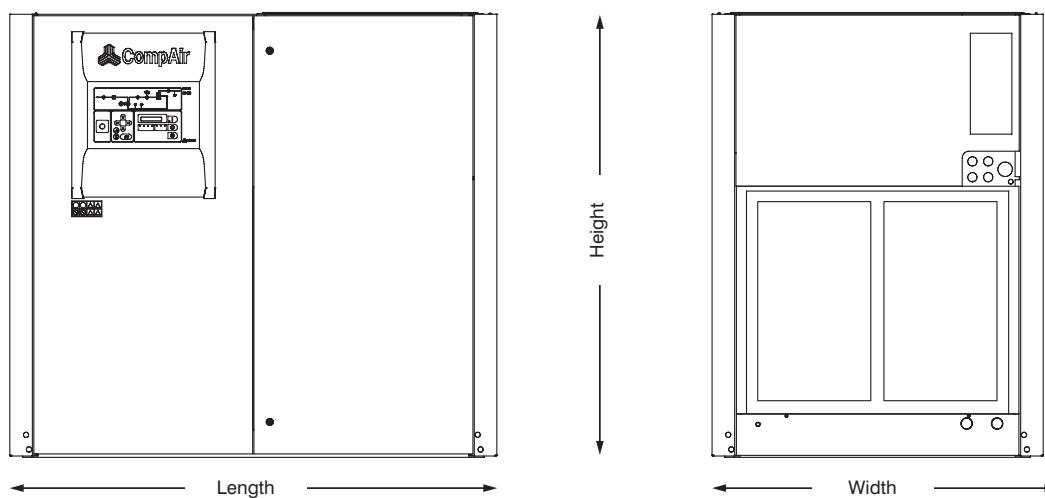
MODEL	Cooling Method	Motor Rating (kW)	Working Pressure (bar g)		Free Air Delivered (m ³ /min)		Dimensions L x W x H (mm)	Noise Level dB(A)**	Weight (kg)
					8 bar g*	10 bar g*			
D15H	Air	15	8	10	2.48	1.91	1477 x 868 x 1511	73	610
	Water							65	540
D22H	Air	22	8	10	3.54	2.88	1477 x 868 x 1511	74	660
	Water							65	570
D37H	Air	37	8	10	5.86	5.04	1722 x 920 x 1659	71	960
	Water							61	860

⇒ VARIABLE SPEED – AIR AND WATER COOLED

MODEL	Cooling Method	Motor Rating (kW)	Working Pressure (bar g)		Free Air Delivered at 7 bar g (m ³ /min)		Dimensions L x W x H (mm)	Noise Level dB(A)**	Weight (kg)
			Min.	Max.	Min.*	Max.*			
D15H RS	Air	15	5	10	0.67	2.29	1677 x 868 x 1511	72	685
	Water							65	615
D22H RS	Air	22	5	10	1.09	3.40	1677 x 868 x 1511	73	740
	Water							65	650
D37H SR	Air	37	5	10	1.23	6.38	1722 x 920 x 1659	71	970
	Water							61 (70% load)	870
D50H SR	Air	50	5	10	2.03	7.48	2158 x 1412 x 1971	72 (70% load)	1850
	Water							1750	
D75H SR	Air	75	5	10	3.48	11.27	2158 x 1412 x 1971	75 (70% load)	2000
	Water							11.77	1900
D110H SR	Water	110	5	10	3.29	17.96	2158 x 1412 x 1971	75 (70% load)	2100

* Data measured and stated in accordance with ISO 1217, Ed. 4, Annex C & E and Pneurop/Cagi PN2CPTC2 and the following conditions:
 Air Intake Pressure 1 bar a
 Air Intake Temperature 20 °C
 Humidity 0 % (Dry)

** Measured in free field conditions in accordance with the Pneurop/Cagi PN8TNC2.2 test code, +/- 3dB.



INNOVATIVE PRODUCTS AND SERVICES

– TRUST COMPAIR TO SUPPLY INTELLIGENT COMPRESSED AIR SOLUTIONS



With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, CompAir has consistently been at the forefront of

compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.



COMPAIR COMPRESSED AIR PRODUCT RANGE

Advanced Compressor Technology

Lubricated

- Rotary Screw
 - > Fixed and Regulated Speed
- Piston
- Portable

Oil-Free

- Water Injected Screw
 - > Fixed and Regulated Speed
- Two Stage Screw
 - > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal - Quantima®

Complete Air Treatment Range

- Filter
- Refrigerant Dryer
- Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer

Value Added Services

- Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

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.

