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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.
- Variable speed drives including CompAir's unique SR technology, consume just the energy required to do the job and no more.

## Balanced Loads = Longest Life



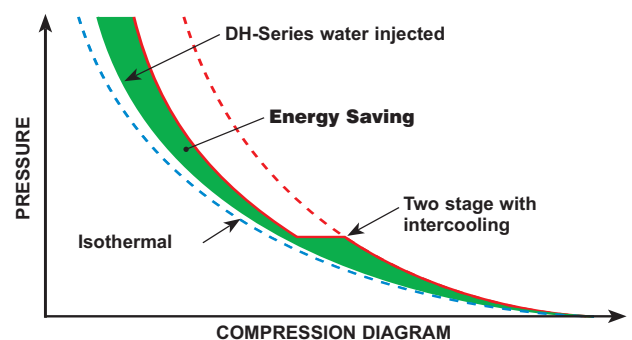
*Axial loads act on both sides of the main rotor.*



*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.

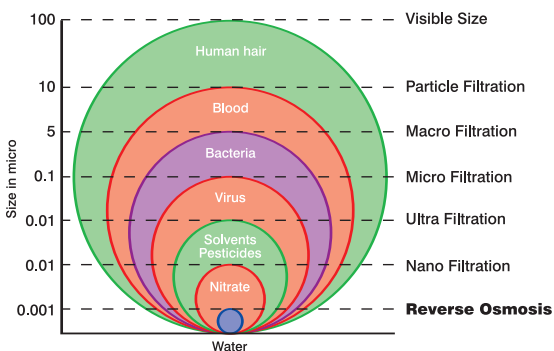
Our oil-free compressors are helping industries across the globe to meet and exceed quality and production objectives in food and beverage, pharmaceutical, electronic, healthcare and power generation applications to name but a few.

## HIGH EFFICIENCY FILTRATION SYSTEM



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

### Size of Filtration



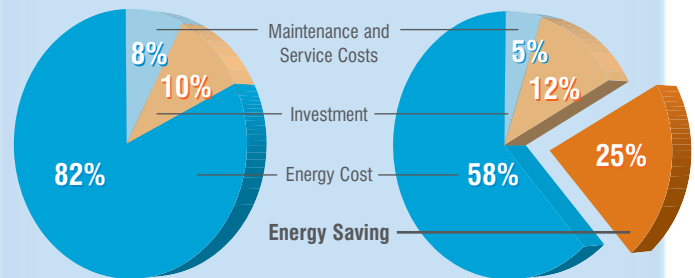
## SR VARIABLE SPEED

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 SR series 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.*

## **COMPAIR ASSURE™ - FOR YOUR PEACE OF MIND, WE TAKE CARE**

We’re so confident in our products that every CompAir DH comes with our market leading **Assure™** FREE extended warranty scheme, to ensure that your compressor delivers the quality, efficiency and reliability that you need, day after day.

Unlike the typical yearly-based warranties that you might expect from other manufacturers, **Assure™** is based on the number of running hours and is completely free-of-charge for up to 44,000 hours operating time.

Working only when the compressor does, **Assure™** means that the compressor is maintained to its peak performance and you are free from risk of expensive and unscheduled service costs.



# CompAir DH – TECHNICAL DATA

## ⇒ FIXED SPEED – AIR AND WATER COOLED

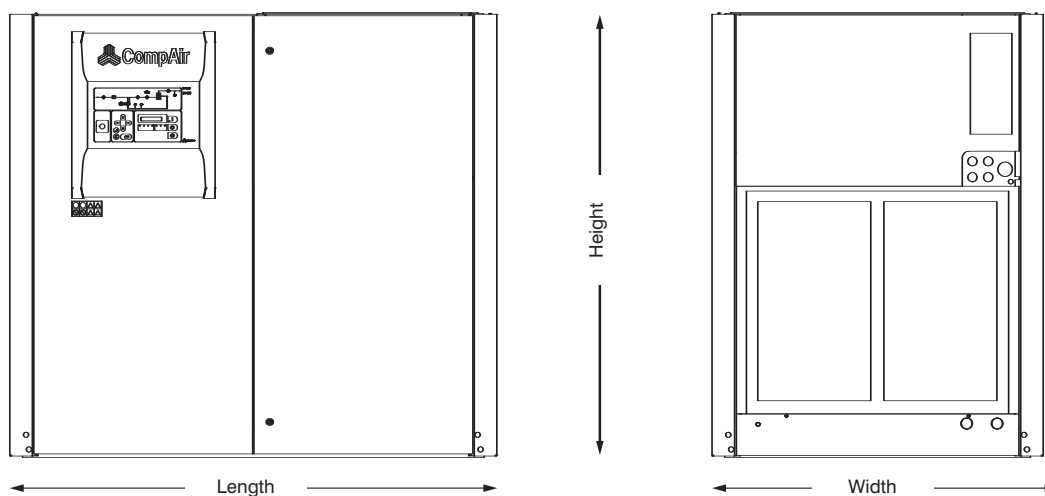
MODEL	Cooling Method	Motor Rating (kW)	Working Pressure (bar g)		Free Air Delivered (m <sup>3</sup> /min)		Dimensions L x W x H (mm)	Noise Level dB(A)**	Weight (kg)
					8 bar g*	10 bar g*			
D15H	Air	15	8	10	2.48	2.01	1477 x 868 x 1511	73	610
	Water							65	540
D22H	Air	22	8	10	3.54	2.94	1477 x 868 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 <sup>3</sup> /min)		Dimensions L x W x H (mm)	Noise Level dB(A)**	Weight (kg)
			Min.	Max.	Min.*	Max.*			
D15H RS	Air	15	5	10	0.71	2.41	1677 x 868 x 1511	72	685
	Water							65	615
D22H RS	Air	22	5	10	1.11	3.47	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 Annex C 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, +/- 3 dB.



## GLOBAL INNOVATION FROM CompAir - WHATEVER THE APPLICATION

With nearly 200 years of experience in the marketplace, CompAir has built a complete range of compressed air and gas solutions to meet every need.

From one of its four, world class manufacturing facilities in the UK, Germany, America and China, CompAir remains at the forefront of compressed air technology development, culminating in the most energy efficient compressors on the market today.

With an extensive network of dedicated distributors across 6 continents, CompAir offers global expertise with a truly local service.

We supply reliable, highly efficient compressors for a broad range of applications, including general industry, offshore, oil-free, construction and CNG refuelling.

CompAir offers one of the widest product ranges available, including the ancillaries and services required for a completely bespoke solution.



Simmern, Germany, the production facility for the DH range of oil free screw compressors

### Lubricated

- Rotary Screw
- Rotary Vane
- Speed Regulated
- Piston
- Portable

### Oil-Free

- Water Injected Screw
- Two Stage Screw
- Speed Regulated
- Piston

### 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

- Custom Engineered
- Local Service Centres
- Guaranteed Parts Availability



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.

