Gardner Denver

Heat-Of-Compression Air Dryers

HC-Series
Dew Points Below -40°C

Unsurpassed
Energy-Efficency

HOC Desiccant Dryers Consume Virtually No Energy

Heat-of-compression (HOC) dryers are dual-tower, desiccant designs. The HOC dryer is the most energy-efficient dryer available.

It recovers the heat that is a natural by-product of the compression process.

This **"free"** heat is utilised in the airdrying process to provide moisture-free air while consuming virtually no energy.

Reliability

Gardner Denver heat-of-compression (HOC) dryers, HC-Series, are the world's simplest and most reliable regenerative dryers. Their design innovation, coupled with unsurpassed performance, will help assure the reliability of your compressed air system.

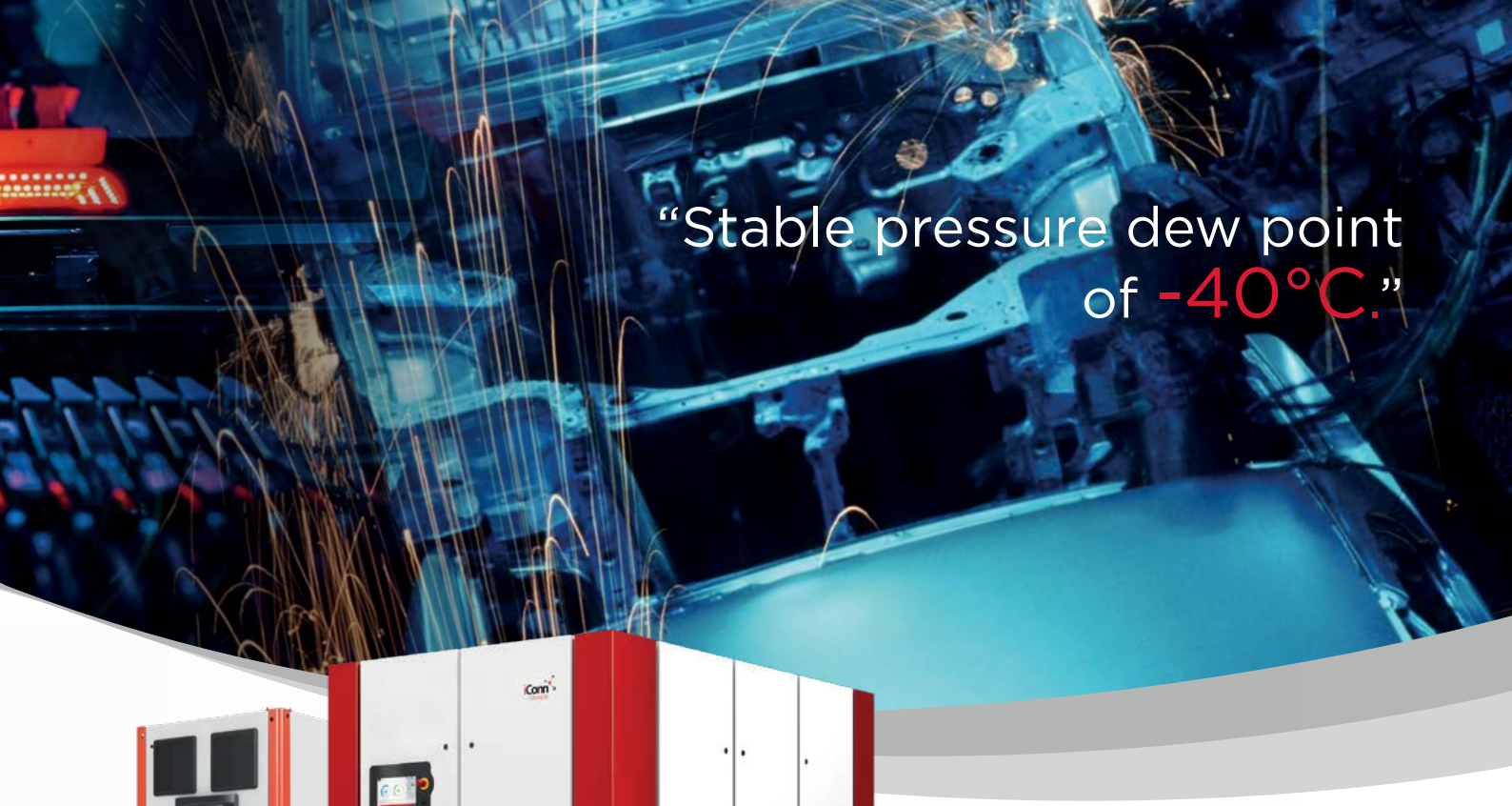
- **High Performance:** HOC dryer includes proven high performance two-way valves, providing years of trouble free operation
- **Unique Design:** Unique design of the HOC dryer with its stripping and cooling cycles, enables it to achieve year-round dew points below -40°C
- **Smart PLC Based Control System:** Equipped with PLC based control system that maintains performance and monitors the health of unit, so downtime can be minimised
- **Expansion Flexibility:** HC Series Dryers can be installed with multiple compressors, allowing maximum flexibility without sacrificing the integrity of the compressed air system

Energy Efficiency

- **Reduced Electrical Cost:** The HC series has a very reduced total electrical cost as they use very small strip heaters of neglible capacity
- **Compressed Air Saving:** The HC series design consumes neglible purge air
- **Minimum Pressure Drop:** The HOC dryer is designed to minimise pressure drop by utilising full-flow valves and minimal piping

Consistent Dew Point

The HC-Series can constantly provide -40°C or lower dew points, at a fraction of the cost associated with other regenerative type dryers.



"Stable pressure dew point of -40°C."

Compatible with fixed and variable speed oil-free screw air compressors.

"Compressed air to ISO 8573."

Heat-Of-Compression Technology

HC-Series Dryer is a sophisticated dryer, which includes a stripping and cooling cycle, delivering a constant dew point without temperature or dew point spikes.

SINGLE SOURCE 360° COMPRESSED AIR SOLUTIONS

Technical Data

HOC Desiccant Dryers

Model	Flow @7 bar		CFM	Weight	Dimensions (mm)
	m^3/hr	m^3/min		kg	L x W x H
HC-6	976	16	574	2900	2540 x 1803 x 2521
HC-9	1525	25	897	3036	2540 x 1803 x 2521
HC-14	2262	38	1331	3336	2820 x 1956 x 2573
HC-21	3429	57	2017	5280	3048 x 2007 x 2642
HC-30	4940	82	2906	5310	3277 x 2540 x 2700
HC-41	6385	106	3756	8085	3683 x 2870 x 2920
HC-54	8782	146	5166	8747	3810 x 3200 x 2902
HC-69	11115	185	6538	9947	4445 x 3455 x 2985
HC-85	13722	229	8072	11768	4623 x 4521 x 3251
HC-103	16602	277	9766	13379	5002 x 3962 x 3202
HC-122	19752	329	11619	15102	5561 x 4064 x 3404
HC-143	23190	386	13641	16916	5637 x 4216 x 3404
HC-166	26894	448	15820	19410	6247 x 4369 x 3556

Capacity based on: Compressor discharge Temperature: 107 °C, Cooling water inlet temp: 29°C, Operating Pressure: 7 bar(g) regenerative type dryers.

Global Expertise

The GD rotary screw compressor range from 2.2 – 250 kW, available in both variable and fixed speed compression technologies, are designed to meet the highest requirements which the modern work environment and machine operators place on them.

The oil-free EnviroAire range from 15 – 355 kW provides high quality and energy efficient compressed air for use in a wide range of applications. The totally oil-free design eliminates the issue of contaminated air, reducing the risk and associated cost of product spoilage and rework.

A modern production system and process demands increasing levels of air quality. Our complete **Air Treatment Range** ensures the highest product quality and efficient operation.

Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect** air management system is essential.

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For additional information please contact Gardner Denver or your local representative.

Specifications subject to change without notice.

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