



# Heat-Of-Compression Air Dryer





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 utilized in the air-drying process to provide moisture-free air while consuming virtually no energy.

## Reliability

Ingersoll Rand 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 highperformance two-way valves, providing years of troublefree operation.
- **Unique Design:** Unique design of the HOC dryer with its stripping and cooling cycles, enables it to achieve year-round dew points below  $-40^{\circ}\text{C}$ .
- **Smart PLC based control system:** Equipped with PLC based control system that maintains performance and monitors the health of unit, so downtime can be minimized.
- **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

Heat-of-compression dryers are the most cost-effective means to protect air lines, tools and expensive instrumentation.

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

## Consistent Dew Point

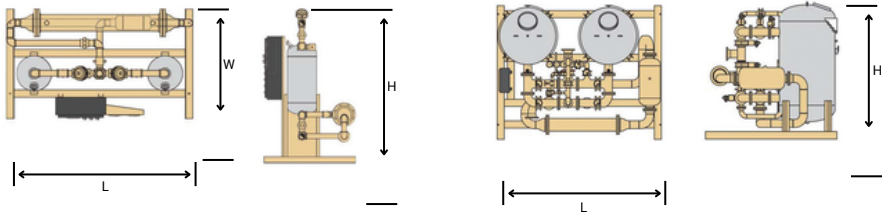
The HC-Series can constantly provide  $-40^{\circ}\text{C}$  or lower dew points, at a fraction of the cost associated with other regenerative type dryers

## 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.

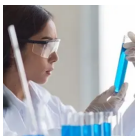


## Technical Specifications



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

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



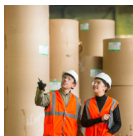
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