ZEKS
COMPRESSED AIR SOLUTIONS®

HSG Series
1,800-3,000 SCFM

HeatSink™

Cycling Refrigerated
Compressed Air Dryers

- *Energy-Saving Cycling Operation*
- *Next Generation Design*
- *Environmentally-Friendly*

www.zeks.com

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Compressed air contains moisture and other contaminants that must be removed to avoid damage to pneumatic valves, tools and instruments. Failure to remove these impurities can compromise critical manufacturing and finishing processes and cause product waste and production downtime.

When installed in a typical facility where fluctuations in compressed air usage, variations in shift duration or periods of low ambient temperature are common, a HeatSink™ Cycling Refrigerated Dryer saves money during periods of low demand.

Next Generation Design Incorporates The Latest In Refrigeration And Heat Transfer Technology, Delivering:

- **Energy Efficiency** – Use of the latest refrigeration technology and proprietary exchanger design saves energy while reducing energy costs.
- **Low Pressure Drop** – Highly engineered flow path results in very low pressure drop, enabling compressed air equipment to run more efficiently.
- **High Quality Compressed Air** – Internal .1 micron filtration removes harmful particulate from the compressed air stream.
- **Enhanced Reliability** – Efficient scroll compressors provide enhanced reliability over conventional reciprocating refrigeration compressors.
- **Sustainability** – Low GWP refrigerant, low power consumption per CFM and very low refrigeration charge allow users to achieve their sustainability goals without sacrificing air quality.
- **Minimized Footprint** – Internal filtration, combined with a high cfm-to-sq. ft. ratio means more drying in less space than competitive dryers.

Requires Less Valuable Floorspace!
For example: our new 3,000 SCFM dryer occupies half the floorspace of our previous 3,250 SCFM dryer.

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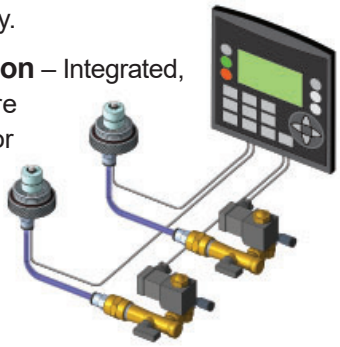
Next Generation Design

1. **Micro-Channel Air-Cooled Condensers** – Micro-channel design allows increased heat rejection in a smaller condenser, increasing dryer efficiency.
2. **External Electric Service Connection** – Dedicated junction box simplifies installation.
3. **Optimized Air Circuit** – Oversized Precooler/ Reheater reduces air temperature entering chiller, saving energy.
4. **Multi-Layer Heat Exchanger** – Proprietary Integrated Precooler/Reheater, Chiller, Evaporator and Moisture Separator designed for maximum efficiency.
5. **Consistent Dew Point** – dryer components are sized to enable consistent dew point at full or partial moisture loading in all industrial environments.
6. **Digital Performance Controller** – Micro-PLC provides access to and coordination of all dryer functions and provides connectivity to facility communication platforms.

7. **Scroll Compressor** – Provides quiet, balanced, reliable operation.
8. **R-410A Refrigerant** – Features zero ODP and low GDP. Minimal refrigerant charge enhances reliability and sustainability.
9. **Multi-Drain Configuration** – Integrated, dual no-air-loss drains are connected to dryer PLC for precision operation while providing redundancy for condensate removal.



10. **Integrated Filtration** – Dual-element filter filters particles down to .1 micron.

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Standard Features

- **Multi-Layer Heat Exchanger** - All-aluminum; Integrated functionality includes Precooler/Reheater; Low pressure drop
- **Advanced Digital Controller** - Automatic dryer control; Drain setting; Performance and fault display
- **Scroll Compressor** - No maintenance; Long service life
- **R410A Refrigerant** - Highly efficient; Small charge volume; Environmentally friendly
- **Efficient Refrigeration Condenser** - Top-Mounted Micro -Channel
- **Air Isolation Valves** - Convenient separation of dryer from compressed air system
- **No Air-Loss Drains** - Unique dual design enhances reliability
- **Filterstop/Strainer Drain Connection** - Protects drain from debris; Cleanable
- **Compact Weight** - Minimizes installation and shipping costs
- **Single Point Electrical Connection** - Simplifies service connection
- **Full Enclosure** - Durable powder-coat finish for long life

Optional Features

- **Water-Cooled Condenser** - Display of pressure and temperature - field installed
- **NEMA 4 Electrical Protection Class** - For operation in hazardous environments

Technical Specifications

Model	Capacity SCFM*	Pressure Drop PSIG	Dimensions** W IN.	D IN.	H IN.	SHIP WT. LBS.	IN/OUT Air Conn. FLG	Drain Conn. FNPT	Refrig. Comp. HP Air-Cool	Water-Cool	Operating KW*** Air-Cool	Water-Cool	MAX. REFRIG. TYPE	MAXIMUM WORKING PRESSURE	VOLTAGE
1800HSG	1,800	3.6	34	91.5	93	3,006	6" FLG	1/4"	10.8	9.7	5.1	6.6	R410A	200 PSIG	460/3/60
2400HSG	2,400	3.6	34	91.5	93	3,156	6" FLG	1/4"	14.3	12.7	13.0	8.3	R410A	200 PSIG	460/3/60
3000HSG	3,000	3.6	34	91.5	93	3,259	6" FLG	1/4"	15.9	15.9	14.7	10.2	R410A	200 PSIG	460/3/60

* Performance based on ISO 7183, Table 2, Option A2. (100 psig inlet air pressure; 100ºF inlet air temperature; 100ºF ambient air temperature)

** Overall Dimensions shown.

*** Average kilowatts per hour of dryer operation at full rated capacity.

NEMA 1 Electrical Protection Class is standard

MEMBER OF CAGI Compressed Air & Gas Institute

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ZEKS HeatSink™ compressed air dryers are not designed, intended or approved for breathing air applications.

