ZEKS
COMPRESSED AIR SOLUTIONS®

HSH Series
2000-3000 SCFM

HeatSink™

Cycling Refrigerated
Compressed Air Dryers



- *Energy-Saving Cycling Operation*
- *Next Generation Design*
- *Environmentally-Friendly R454B Refrigerant*

With

R454B

Refrigerant

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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.



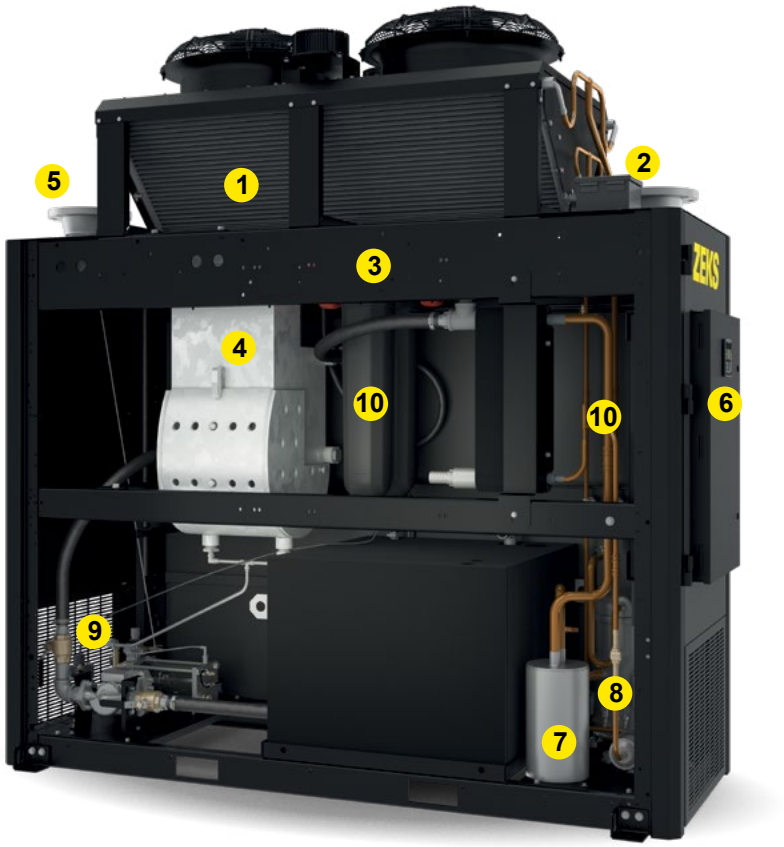
Next Generation Design Incorporates the Latest in Refrigeration and Heat Transfer Technology, Delivering:

- **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 Pre-Filter, Precooler/ Reheater, Chiller 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 Ethernet & Modbus communications for seamless integration with plant networks.



7. **Scroll Compressor –** Provides quiet, balanced, reliable operation.
8. **R454B Refrigerant –** Features zero ODP and low GDP. Minimal refrigerant charge enhances reliability and sustainability.
9. **Pneumatic No Air Loss Drain –** Energy saving no air loss drain provides proven, reliable operation. Drains include a Liquid Level Sensor that communicates fault condition to the Digital Performance Controller.
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
- **Ethernet Connectivity –** Efficient, reliable data transfer
- **Scroll Compressor** – No maintenance; Long service life
- **R454B Refrigerant** – Highly efficient; Small charge volume; Environmentally friendly
- **Efficient Refrigeration Condenser** – Top-Mounted Micro-Channel
- **No Air-Loss Drains** – Unique dual design enhances reliability
- **Filterstop/Strainer Drain Connection** – Protects drain from debris; Cleanable
- **Compact Design** – Minimizes installation and shipping costs
- **Full Enclosure** – Durable powder-coat finish for long life

Optional Features

- **Water-Cooled Condenser** – For water cooled refrigeration systems, a high efficiency, compact tube in tube condenser is provided.
- **NEMA 4 Electrical Protection Class** – Provides protection against splashing and hose-directed water.

Technical Specifications

Model	Capacity SCFM*	# of Modules	Overall Dimensions** W IN.	D IN.	H IN.	Shipping Weight** LBS.	In/Out Air Connect Size	Operating kW*** AC	Operating kW*** WC	Refrigerant Type	Max Working Pressure	Voltage
2000HSH	2000	1	33.9	90.4	95.8	3398	6” FLG	9.6	6.7	R454B	200 PSIG	460/3/60
2400HSH	2400	1	33.9	90.4	95.8	3419	6” FLG	12.3	7.6	R454B	200 PSIG	460/3/60
3000HSH	3000	1	33.9	90.4	95.8	3560	6” FLG	15.3	10.1	R454B	200 PSIG	460/3/60

* Performance based on ISO 7183, table 2, option A2. (100 psig inlet air pressure; 100°F inlet air temperature; 100°F ambient air temperature; 100% Relative Humidity).

** Overall dimensions & shipping weights are for air cooled models. Consult engineering datasheets for water cooled data.

*** Average kilowatts per hour of dryer operation at full rated capacity. AC = Air-Cooled; WC = Water-Cooled. NEMA 1 electrical, standard.

ZEKS NC Series compressed air dryers are not designed, intended or approved for breathing air applications.

MEMBER OF CAGI Compressed Air & Gas Institute

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