ZEKS
COMPRESSED AIR SOLUTIONS®

HSH Series: 300-400 SCFM
HSG Series: 500-800 SCFM

HeatSink

TRUE-CYCLING REFRIGERATED COMPRESSED AIR DRYERS

Common manufacturing practices, process machinery fluctuations and variable ambient conditions can significantly reduce the load on a compressed air dryer. ZEKS HeatSink™ dryers are designed to take advantage of these factors to lower the cost of drying compressed air. HeatSink dryers use a refrigeration system to cool a thermal mass, which in turn cools the compressed air that flows through the dryer. Cooling causes moisture and contaminants to condense, thereby drying the compressed air. As a result, the refrigeration system automatically cycles off during periods of low demand while the dryer continues to dry the air stream. This True-Cycling™ operation typically consuming far less energy than dryers that operate continuously.

Integrated Filtration – Complete Air Treatment Solution

ZEKS brings yet another patented innovation to compressed air dryers with our unique, integrated prefilter and afterfilter design. Users can easily access the dryer's filter elements from the side of the unit without removing panels or disturbing pipework. And since the filters are integral to the dryer, installation costs are reduced.

Independently Verified Performance

Through participation in the Compressed Air and Gas Institute (CAGI) Performance Verification Program, actual performance and energy consumption of 50-1000 scfm ZEKS HeatSink dryers have been independently validated against CAGI Data Sheets. Visit www.zeks.com to view ZEKS refrigerated dryer Data Sheets.

Performance Tested and Rated in Accordance with ISO 1217 5-200 HP
CAGI Rotary Compressor Performance Verification Program
CAGI Compressed Air & Gas Institute
Program administered by Intertek Testing Services

Uses
R-513A
Refrigerant

www.zeks.com

HeatSink

TRUE-CYCLING REFRIGERATED COMPRESSED AIR DRYERS

Standard Features

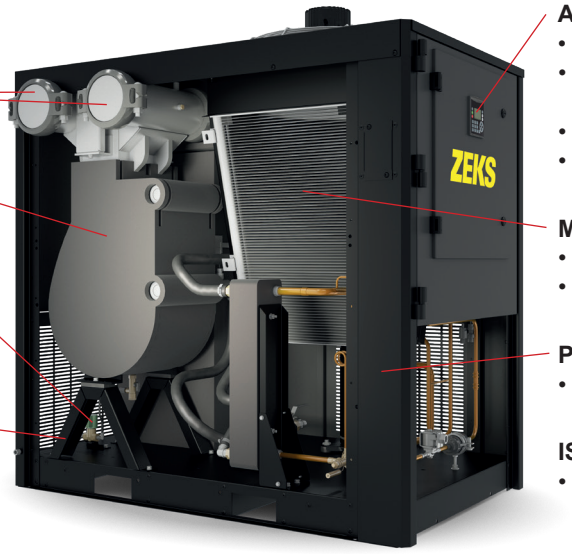
Integrated Filtration
- Complete air treatment solution

Multi-Layer Heat Exchanger
- Integrated precooler / reheater reduces energy consumption
- Low pressure drop

Timed Solenoid Condensate Drain
- Efficient condensate removal

Galvanized Internal Structure
- Corrosion-resistant

Tested to the Latest Standards
- Listed to UL 60335-1 & 60335 2-40



Advanced Digital Controller
- Refrigerant pressure display
- Filter element replacement notification
- Maintenance reminders
- Ethernet connectivity

Microchannel Condenser
- Minimizes refrigerant charge
- Increased efficiency

Powder Coated Enclosure
- Industrial grade protection

ISO 8573-1 Class 4 PDP
- Designed & tested at 38°F

✓ R513A Refrigerant combine maximum efficiency with low Global Warming Potential (GWP)
✓ Minimum refrigeration charge enhances sustainability
✓ Electronically Commutated (EC) Fan motors modulate fan speed to achieve optimal efficiency

Optional Features

- NEMA 4 – Liquid tight construction for falling and hose-directed water
- DPC Plus – Enhanced controller provides inlet / outlet temperature and pressure readings
- No-Air Loss Drain - Conserves compressed air energy – factory installed, internally mounted

ZEKS Models	Capacity SCFM*	Overall Dimensions W IN.	D IN.	H (AC) IN.	H (WC) IN.	Ship WT. AC LBS.	WC LBS.	In/Out Air Connect Size	Drain Connect	Operating kW** AC	WC	Refrige. Type	Max Working Pressures	Voltages
300HSH	300	34.0	49.2	55.6	48.1	875	815	2" MNPT	1/4" FNPT	2.40	1.50	R-513A	200 PSIG	460/3/60
400HSH	400	34.0	49.2	55.6	48.1	895	840	2" MNPT	1/4" FNPT	3.00	1.90	R-513A	200 PSIG	460/3/60
500HSG	500	41.4	57.5	59.8	53.4	1341	1299	3" MNPT	1/4" FNPT	2.70	2.20	R-513A	200 PSIG	460/3/60
600HSG	600	41.4	57.5	59.8	53.4	1366	1325	3" MNPT	1/4" FNPT	2.90	2.60	R-513A	200 PSIG	460/3/60
700HSG	700	41.4	57.5	59.8	53.4	1391	1349	3" MNPT	1/4" FNPT	4.40	3.60	R-513A	200 PSIG	460/3/60
800HSG	800	41.4	57.5	59.8	53.4	1416	1376	3" MNPT	1/4" FNPT	4.80	4.00	R-513A	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)
** Average kilowatts per hour of dryer operation at full rated capacity. NEMA 1 electrical, standard

MEMBER OF CAGI Compressed Air & Gas Institute

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

Specifications, illustrative materials and descriptions contained herein were as accurate as known at the time this publication was approved for printing. The company reserves the right to change specifications, discontinue models, equipment or design without notice and without incurring obligation. The information set out in this brochure is for preliminary information only and is not intended to constitute any representation or warranty by ZEKS to potential customers or to form the basis of a contract with any customer.

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