



hankisonair.com

 **Hankison**TM

Optimise your
compressed air system



Efficient Heated Blower Desiccant Dryers

Discover the NEW Hankison HZP Dryers

Introducing the new range of Heated Blower Desiccant Dryers, designed to satisfy the needs of applications that require a negative PDP while using 0 purge air and optimizing the total cost of ownership. Our new HZP compressed air dryers deliver **pressure dew point down to -40°C and are capable of handling flows from 500 m³/h up to 14900 m³/h.**

By combining the proven benefits of desiccant drying with modern design and our unique design solutions, Hankison provides an extremely compact and reliable system to dry and clean compressed air efficiently.

ZERO PURGE AIR



ISO Class 2

Pressure dew point air for critical applications.



Superior Reliability

Proven electronic control performance indicators, extruded aluminium with anodisation and epoxy painting, and NEMA 3 / IP54 Protection (also suitable for outdoor installation) make desiccant dryers durable and high-strength.



Low Total Cost of Investment

Reduced cost of ownership achieved by energy-saving features (EMS) and point of use design to treat only the required air, conservative pressure drop 0.2 bar g, and purge reduction on compressed air demand (on/off-load).



User Friendly

A 7" touchscreen display, able to give a clear vision of the dryer status, featuring advanced real-time charts, operating hours and maintenance intervals.



Easy Maintenance

Modular dryers feature an optimised design for simplified maintenance and preventative maintenance alerts.

Applications

Hankison's HZP dryers are a perfect choice for wide range of industries and applications where negative PDP is required. Thanks to their unique design features the HZP dryers help reduce the cost of compressed air within your business while adhering to **stringent requirements of ISO 2 applications in the manufacturing, packaging, textile, food & beverage, and transport industries, and more.**

The HZP dryers are especially recommended for use in the following industries:



Automotive



Food & Beverage



Pharmaceutical



Chemical



Oil & Gas

Furthermore, the HZP dryers deliver reliable performance across specific applications that require pressure dew points down to -40°C, such as:

High Quality Air Applications	Air Quality Recommended Standards	
	[ISO Class]	[Pressure Dew Point]
Air bearings	3	-20°C
Instrument Air	3	-20°C
Sand blasting	3	-20°C
Air gauging	2	-40°C
Spray painting	2	-40°C
Chemical Process - Oxydation, Ammonia Production	2	-40°C
Conveying, powder products	2	-40°C
Fluidics, sensors	2	-40°C
Food & beverages, direct air contact	2	-40°C



Easy
Maintenance



User
Friendly



Low Total Cost
of Investment



Superior
Reliability



ISO Class
2

HZP Dryers specifications

Model Name	Capacity		Connection	Weight	Dimensions [mm]			Suggested pre-filter		Suggested post-filter	
	m ³ /h	m ³ /min	size	kg	Depth	Width	Height	Connections (in/out) inches	Model	Connections (in/out) inches	Model
HZP500	500	9	2"	670	995	1.336	1.755	1.5" BSPT	F11 B-HF	G 1.5"	DF12-HTA
HZP900	900	16	2"	958	1.096	1.477	2.186	2.5" BSPT	F13 B-HF	DN 80	HF 6-52 HTA
HZP1100	1.100	18	3"	1.258	1.398	1.718	2.188	2.5" BSPT	F14 B-HF	DN 80	HF 6-52 HTA
HZP1400	1.400	25	3"	1.451	1.398	1.718	2.188	2.5" BSPT	F15 B-HF	DN 80	HF 6-56 HTA
HZP1800	1.800	31	3"	1.710	1.484	2.080	2.016	3" BSPT	F16 B-HF	DN 80	HF 6-56 HTA
HZP2200	2.220	37	3"	1.857	1.484	2.080	2.016	3" BSPT	F17 B-HF	DN 80	HF 6-56 HTA
HZP2600	2.600	45	3"	2.504	1.860	2.622	2.357	3" BSPT	F17 B-HF	DN 80	HF 6-56 HTA
HZP3200	3.200	53	DN100 PN16	2.775	1.750	2.622	2.357	DN100	HF5-60	DN100	HF 6-60 HTA
HZP3900	3.900	65	DN100 PN16	3.138	1.660	2.622	2.357	DN100	HF5-64	DN100	HF 6-64 HTA
HZP4500	4.500	75	DN150 PN16	4.077	1.949	3.054	2.541	DN150	HF5-68-1	DN150	HF 6-68-1 HTA
HZP5300	5.300	89	DN150 PN16	4.417	1.949	3.054	2.541	DN150	HF5-68-1	DN150	HF 6-68-1 HTA
HZP7000	7.000	119	DN150 PN16	5.524	2.120	3.407	2.350	DN150	HF5-72	DN150	HF 6-72 HTA
HZP9300	9.300	155	DN150 PN16	6.072	2.312	3.779	2.462	DN150	HF5-76	DN150	HF 6-76 HTA
HZP10600	10.600	178	DN150 PN16	7.264	2.355	4.112	2.770	DN150	HF5-76	DN150	HF 6-76 HTA
HZP14900	14.900	249	DN200 PN16	9.035	2.498	4.464	2.884	DN250	HF5-80-1	DN 250	HF 6-80-1 HTA

*Adaptors may be needed to connect the dryer with the filters



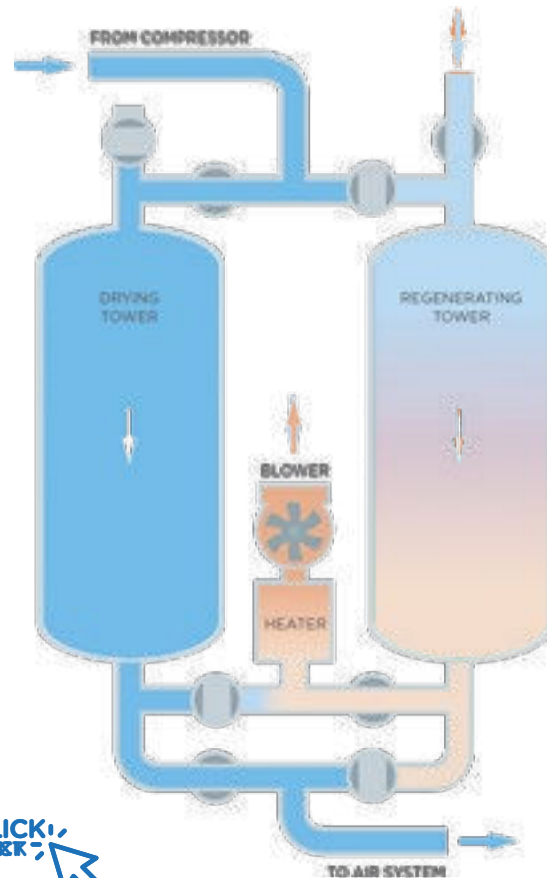
Technology overview

How it works.

STEP 1:

Regeneration

While the first of the two towers is in the drying cycle, the second tower is in the regeneration cycle. The regeneration cycle is the process of heating the desiccant material to remove any moisture that has been absorbed. The regeneration cycle is achieved by passing air through the tower, which is heated by a heater. The air is then exhausted through a silencing muffler to reduce noise. The regeneration cycle is completed when the desiccant material has reached the target temperature. The regeneration cycle is then reversed, and the first tower is in the drying cycle and the second tower is in the regeneration cycle.



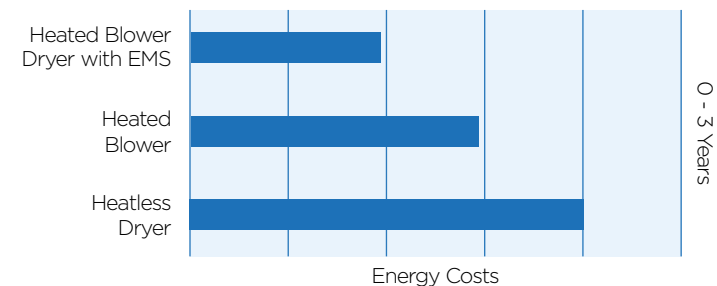
“The Hankison advantage”

Our new dryers are equipped with our unique **Energy Management System** (EMS) that maximises energy efficiency while maintaining a constant dew point. By using a humidity sensor to continuously monitor the dew point, EMS minimises the amount of compressed air used in regeneration, and optimises heater and blower operation to use only as much energy as necessary to secure required operating characteristics.

Furthermore, we equipped our new HZP dryers with other energy-saving features such as:

- Solid state soft starters that limit inrush current to ensure a smooth start and longer blower motor life
- **Design features such as** valve selection, tower size and filter design **meant to ensure** low pressure drop
- The heater and blower are controlled by the outlet regeneration temperature that shuts off to save electrical power once desiccant has been thoroughly regenerated
- Precise heater control ensured by solid state relays provide reduced heating times and extended heater life

A heated blower dryer with EMS can save you over €20,000 in just 3 years!



These calculations are approximations based on the following assumptions: Standard Heatless model 3200 m³/hr, 15% purge air, Heated model HZP3200, 55 m³/min, 1800 CFM, 400 kW Compressor Motor, 0.07 per kW/hr 80 hours per week, and 40 weeks per year.



Request a quote

Heated Blower Desiccant Dryer Features



BACK

NEXT



1. Microprocessor Controller

Controls valve switching to correctly direct air flow and operation of blowers and heaters. Protects the dryer via continuously monitoring operating parameters. Modbus TCP/IP interface is available. Modbus RTU is optional available.

2. Environmental Protection 9. High Performance Valves

IP54 rating provides protection against dust and moisture contamination (IP65 option for wash down applications). High performance butterfly valves with self-energised sealing provide quick response and long life.

3. Motor Protection/Soft Starter

Motor protection allows easy access.

Reduces inrush current and stress on the mechanical system.

10. Desiccant Towers

4. Power Supply

Desiccant towers rated for continuous 10 bar g operation. The digital controller turns the towers on/off at 50 Hz (alternation) or regulation (optional).

- heat insulation

5. Centrifugal Blower

AD 2009 certification

High performance centrifugal blower enables the use of ambient air for regeneration,

11. Silencing Exhaust

Minimising compressed air loss.

Reduce the exhausted air noise level to ensure a worker-friendly environment.

6. High Performance Heater

There is an optional silencer Kit <80Db available.

Heats the air used for regeneration to increase the efficiency

12. Quality control documents

Or moisture removal

Many kinds of quality control documents are available

7. Desiccant 13. Filtration

Reliable high strength non-acidic desiccant provides maximum performance and is easily stored and handled moisture removal. Pre-filtration: Threated Filters NGF Grade HF or Flanged Filters HF Grade 5 are used.

8. Humidity Sensor

After filtration high temperature, treated filters NGF grade HF or high temperature flanged filters NGF HF grade 5 are used. The sensor part of the moisture package allows continuous monitoring of the dew point.



Aftermarket Solutions

Proper maintenance of your compressed air-drying equipment can prevent high costs and lost time due to down time of your installation. Regular maintenance is required not only to minimize the risk of compressed air system breakdowns, but to extend the lifetime of your machines.

Yearly maintenance improves dryers' and compressors efficiency and helps to identify issues in advance that may cause the compressor or dryer to consume more energy than necessary.

For all our dryers, we have genuine Hankison spare parts and Maintenance Kits are available on stock. The kits are meeting the required frequency for maintenance, 1-year, or 5-years. For our desiccant dryers we can deliver molecular sieve and activated alumina in different sizes from stock, like our Premium HQ-A4, which is our 4mm premium quality activated alumina.

Refrigerant Dryers



- 1 year service kits
- Main components

Desiccant Dryers



- 1 year service kits
- 5 year service kits
- Main components
- Desiccant test kit

Filters



- Elements
- Accessories

Service Centres

Beside our large distribution, service network in Europe, Hankison has a state of the art Service and Repair Centre in the Netherlands located in Etten-Leur with highly educated engineers and technicians. In this Service Centre we can calibrate our customers' dewpoint sensors and analyse all type of desiccants in our laboratory.

For further details, information and support, please visit our website www.hankisonair.com or contact your local Hankison distributor.

**Service and Repair Centre
Etten-Leur, The Netherlands.**



**Request
a quote**

Compressed Air Technology Innovation

Hankison is a global leader in the manufacture of efficient dehydration, filtration, and air purification solutions. Thanks to our range of technologically advanced products delivering clean, dry air, you can reduce your operational costs and enhance your compressed air equipment longevity, and end product quality. Visit our website, discover our extensive portfolio of products and request a quote today.



 **Hankison**TM

Konrad-Zuse-Straße 25, 47445 Moers, Germany

Tel.: +49 2841 8190

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