

Hankison™

Unlock your compressed air system potential



Energy Efficient
Refrigerated Air Dryers
HDI 12-23000 and HDI-E 54-5400

R513A Refrigerant

Compressed Air Technology Innovation

hankisonair.com

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Discover the new Hankison dryers range



Introducing Hankison's Direct Expansion Refrigerated Air Dryers, a new addition to our product line that embodies the principles of reliability and efficiency. These dryers are designed to provide consistent high performance and optimum efficiency for a wide range of industrial compressed air applications. Our dryers offer a range of solutions for drying utilizing modern cooling technology. They are available in a broad range of models, with air flow rates ranging from **12 m³/h to 23.000 m³/h (at 3°C).** All models from this range feature the **ISO Class 4** and use the environmentally-friendly **R513A refrigerant.**

Browse the brochure to how learn they can help you bring your operations and profits to a new level.

Energy-efficient

Reliable

Flexible

Compact

ISO Class 4

R513A Refrigerant

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Applications

Providing a small footprint with complete, affordable solutions, the new Hankison HDI series of Direct Expansion Refrigerated Air Dryers are suitable for a wide range of applications where dry, clean compressed air is needed.

The HDI dryers are especially recommended for use in chemical, pharmaceutical, petrochemical and electronics sectors' compressed air applications but will be a great choice for other sectors as well!

Request a quote today and our experienced sales representatives will help you choose the best solution for your needs.





Chemicals **Pharmaceuticals** **Electronics**

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Technology that makes a difference

Our dryers are characterized by their well-recognized energy efficiency, which helps to reduce running costs, thanks to the patented heat exchanger technology. The HDI dryers are available in air- and water-cooled versions.

They feature a high-quality heat exchanger with low pressure loss, and an Anti-freeze mode that prevents icing. They are easy to install, operate, and maintain, with a compact design and a multi-function control panel. Request a quote today to start you journey towards obtaining a dryer system that will bring your operations to a new level of efficiency.

Features are your benefits

Air- or Water- Cooled Condensation

Sea Water versions are optional from 600 m³/h.

Victaulic Connections (optional)

For quick and easy connection of pipework

Reliable Design

Scroll compressors with corrosion resistant materials. They feature fewer moving parts, are fully-instrumented and monitored for reliability, and are protected by IP42 rated electrical enclosures.

Reduced Footprint

30% smaller than previous model.



Innovative Control Panel

With all the main functions you would expect to control and monitor the unit:

- Anti freeze mode – shuts dryer off to avoid icing
- Alarm display: Dew Point, high/low temperature, High ambient temperature
- Remote ON/OFF (optional)
- Alarm history
- Condensate drain management

New Heat Exchangers

Designed and developed in our laboratories to deliver the highest levels of performance with the lowest pressure drop. The adoption of the new Hankison heat exchanger has enabled the removal of the inlet and outlet headers.

Innovative No-loss Drain

With sensor installed directly in the moisture separator and control logic managed by the main Control Panel.

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HDI 12-25



R513A Refrigerant

ISO Class 4

HDI 42-260
and HDI-E 54-240



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HDI 300-480
and HDI-E 300-480



R513A
Refrigerant

ISO
Class 4

HDI 600-950
and HDI-E 600-950



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HDI 1300-2600
and HDI-E 1300-2600



R513A
Refrigerant

ISO
Class 4

HDI 3200-4800
and HDI-E 3200-4800



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HDI 5400-6000
and HDI-E 5400



R513A
Refrigerant

ISO
Class 4

HDI 8800-23000



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Technical data - HDI air cooled models

Model Name	Air Flow			Air Connections	Refrigerant	Power Supply	Condensate Drain	Absorbed Nominal Power	Max Pressure	Max Inlet	Max Ambient	Dimensions (mm)			Weight
Air Cooled	3°C m³/h	5°C m³/h	7°C m³/h	BSPP		V/ph/Hz		kW	barg	°C	°C	W	D	H	kg
HDI 12	12	13	14	3/8"	R513A	230/1/50	Timer-controlled	0,06	16	60	50	305	360	408	19
HDI 25	25	27	30	3/8"	R513A	230/1/50	No Loss	0,12	16	60	50	305	360	408	19
HDI 42	42	46	50	1/2"	R513A	230/1/50	No Loss	0,14	16	60	50	390	432	441	26
HDI 54	54	59	64	1/2"	R513A	230/1/50	No Loss	0,13	16	60	50	390	432	441	28
HDI 72	72	78	85	1/2"	R513A	230/1/50	No Loss	0,17	16	60	50	390	432	441	28
HDI 108	108	118	127	3/4"	R513A	230/1/50	No Loss	0,41	16	60	50	420	516	551	36
HDI 144	144	157	170	3/4"	R513A	230/1/50	No Loss	0,5	16	60	50	420	516	551	42
HDI 180	180	196	212	3/4"	R513A	230/1/50	No Loss	0,5	16	60	50	420	516	551	44
HDI 225	225	245	266	1"	R513A	230/1/50	No Loss	0,7	16	60	50	500	595	980	48
HDI 260	260	283	307	1"	R513A	230/1/50	No Loss	0,81	16	60	50	500	595	980	49
HDI 300	300	327	354	1-1/2"	R513A	230/1/50	No Loss	0,61	16	60	50	500	718	980	79
HDI 360	360	392	425	1-1/2"	R513A	230/1/50	No Loss	0,74	16	60	50	500	718	980	79
HDI 480	480	523	566	1-1/2"	R513A	230/1/50	No Loss	0,81	16	60	50	500	718	980	85

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Technical data - HDI air cooled models

Model Name	Air Flow			Air Connections	Refrigerant	Power Supply	Condensate Drain	Absorbed Nominal Power	Max Pressure	Max Inlet	Max Ambient	Dimensions (mm)			Weight
Air Cooled	3°C m³/h	5°C m³/h	7°C m³/h	BSPP		V/ph/Hz		kW	barg	°C	°C	W	D	H	kg
HDI 600	600	654	708	2"	R513A	230/1/50	No Loss	1,01	16	60	50	720	750	1360	134
HDI 780	780	850	920	2"	R513A	400/3/50	No Loss	1,67	16	60	50	720	750	1360	164
HDI 950	950	1036	1121	2"	R513A	400/3/50	No Loss	2,03	13	60	50	720	750	1360	168
HDI 1300	1300	1417	1534	3"	R513A	400/3/50	No Loss	2,23	14	60	46	806	1012	1539	234
HDI 1500	1500	1635	1770	3"	R513A	400/3/50	No Loss	2,58	14	60	46	806	1012	1539	234
HD1 1800	1800	1962	2124	3"	R513A	400/3/50	No Loss	3,1	14	60	46	806	1012	1539	234
HDI 2250	2250	2453	2655	3"	R513A	400/3/50	No Loss	3,65	14	60	46	806	1012	1539	290
HDI 2600	2600	2834	3068	3"	R513A	400/3/50	No Loss	4,22	14	60	46	806	1012	1539	290
HDI 3200	3200	3488	3776	DN150 PN16	R513A	400/3/50	No Loss	6,38	14	60	46	880	1819	1796	417
HDI 4200	4200	4578	4956	DN150 PN16	R513A	400/3/50	No Loss	5,96	14	60	46	880	1819	1796	465
HDI 4800	4800	5232	5664	DN150 PN16	R513A	400/3/50	No Loss	6,81	14	60	46	880	1819	1796	465
HDI 5400	5400	5886	6372	DN150 PN16	R513A	400/3/50	No Loss	9,81	13	60	46	1510	1500	1555	780
HDI 6000	6000	6540	7080	DN150 PN16	R513A	400/3/50	No Loss	10,9	13	60	46	1510	1500	1555	780
HDI 8800	8800	9592	10384	DN200 PN16	R513A	400/3/50	No Loss	13,2	13	60	46	2270	1590	1570	1128
HDI 9600	9600	10464	11328	DN200 PN16	R513A	400/3/50	No Loss	13,56	13	60	46	2270	1590	1570	1128
HDI 11500	11500	12535	13570	DN200 PN16	R513A	400/3/50	No Loss	16,24	13	60	46	2270	1590	1570	1205
HDI 17600	17600	19184	20768	2 x DN200 PN16	R513A	400/3/50	No Loss	26,4	13	60	46	4600	1590	1570	2116
HDI 19200	19200	20928	22656	2 x DN200 PN16	R513A	400/3/50	No Loss	27,12	13	60	46	4600	1590	1570	2256
HDI 23000	23000	25070	27140	2 x DN200 PN16	R513A	400/3/50	No Loss	32,48	13	60	46	4600	1590	1570	2410

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Technical data - HDI water cooled models

Model Name	Air Flow			Air Connections	Refrigerant	Power Supply	Condensate Drain	Absorbed Nominal Power	Max Pressure	Max Inlet	Max Ambient	Dimensions (mm)			Weight
Water Cooled	3°C m³/h	5°C m³/h	7°C m³/h	BSPP		V/ph/Hz		kW	barg	°C	°C	W	D	H	kg
HDI600W	600	654	708	2"	R513A	230/1/50	No Loss	0,96	16	60	46	752	750	1273	143
HDI780W	780	850	920	2"	R513A	400/3/50	No Loss	1,55	13	60	46	752	750	1273	168
HDI950W	950	1036	1121	2"	R513A	400/3/50	No Loss	1,89	13	60	46	752	750	1273	168
HDI1300W	1300	1417	1534	3"	R513A	400/3/50	No Loss	2,04	14	60	46	806	1012	1422	265
HDI1500W	1500	1635	1770	3"	R513A	400/3/50	No Loss	2,36	14	60	46	806	1012	1422	265
HDI1800W	1800	1962	2124	3"	R513A	400/3/50	No Loss	2,83	14	60	46	806	1012	1422	265
HDI2250W	2250	2453	2655	3"	R513A	400/3/50	No Loss	3,375	14	60	46	806	1012	1422	375
HDI2600W	2600	2834	3068	3"	R513A	400/3/50	No Loss	3,9	14	60	46	806	1012	1422	375
HDI3200W	3200	3488	3776	DN150 PN16	R513A	400/3/50	No Loss	5,7	14	60	46	880	1819	1796	460
HDI4200W	4200	4578	4956	DN150 PN16	R513A	400/3/50	No Loss	5,38	14	60	46	880	1819	1796	486
HDI4800W	4800	5232	5664	DN150 PN16	R513A	400/3/50	No Loss	6,15	14	60	46	880	1819	1796	486
HDI5400W	5400	5886	6372	DN150 PN16	R513A	400/3/50	No Loss	8,98	13	60	46	1510	1500	1437	740
HDI6000W	6000	6540	7080	DN150 PN16	R513A	400/3/50	No Loss	9,973	13	60	46	1510	1500	1437	740
HDI8800W	8800	9592	10384	DN200 PN16	R513A	400/3/50	No Loss	12,14	13	60	46	2270	1590	1440	1010
HDI9600W	9600	10464	11328	DN200 PN16	R513A	400/3/50	No Loss	12,43	13	60	46	2270	1590	1440	1060
HDI11500W	11500	12535	13570	DN200 PN16	R513A	400/3/50	No Loss	14,9	13	60	46	2270	1590	1440	1117
HDI17600W	17600	19184	20768	2 x DN200 PN16	R513A	400/3/50	No Loss	24,28	13	60	46	4600	1590	1570	2020
HDI19200W	19200	20928	22656	2 x DN200 PN16	R513A	400/3/50	No Loss	24,86	13	60	46	4600	1590	1570	2120
HDI23000W	23000	25070	27140	2 x DN200 PN16	R513A	400/3/50	No Loss	29,8	13	60	46	4600	1590	1570	2234

60Hz versions available for all HDI models.

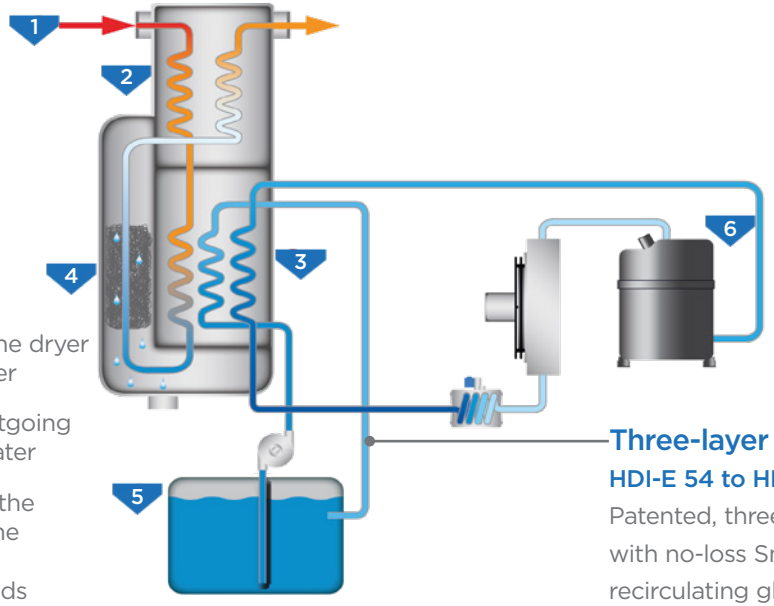
* All data based on: ISO 7183: Based on the intake volume of the compressor at +20ºC and 1 bar (g), operating pressure 7 bar (g), inlet temperature +35ºC, ambient or cooling water temperature at +25ºC, pressure dew point +3ºC. Technical data and specifications are subject change without prior notice.

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Save more energy with HDI-E models

The **HDI-E versions** feature even higher energy-saving capability. The integration of new patented two- and three-layer heat exchangers paired with continuous glycol circulation provided by a dedicated pump allows the refrigerant compressor to remain dormant during low demand periods. The cycling HDI-E refrigerated air dryers are also available as air- and water-cooled versions.



1. Compressed air enters the dryer through the heat exchanger

2. Air is cooled by cold outgoing air in the pre-cooler/re-heater

3. Circulating glycol cools the compressed air allowing the refrigerant compressor to turn-off during low demands

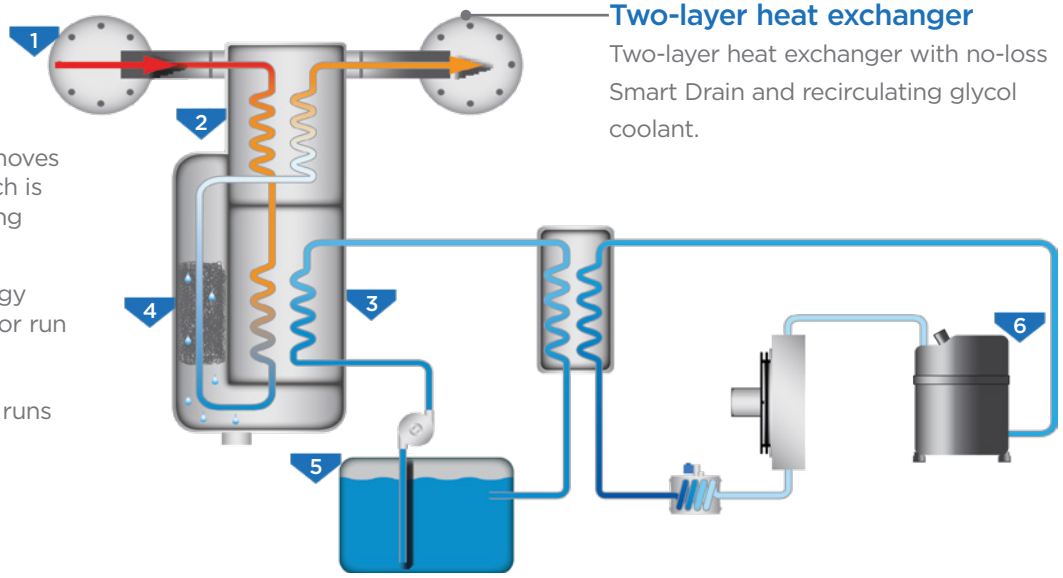
Three-layer heat exchanger

HDI-E 54 to HDI-E 950

Patented, three-layer heat exchanger with no-loss Smart Drain and recirculating glycol coolant

Two-layer heat exchanger

Two-layer heat exchanger with no-loss Smart Drain and recirculating glycol coolant.



4. Stainless steel mesh removes the condensed liquid, which is purged from the dryer using no-loss Smart Drain

5. Thermal mass cold energy storage reduces compressor run time saving energy

6. Refrigerant compressor runs only as needed

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Technical data - HDI-E air cooled models

Model Name	Air Flow			Air Connections	Refrigerant	Power Supply	Condensate Drain	Absorbed Nominal Power	Max Pressure	Max Inlet	Max Ambient	Dimensions (mm)			Weight
Air Cooled	3°C m³/h	5°C m³/h	7°C m³/h	BSPP		V/ph/Hz		kW	barg	°C	°C	W	D	H	kg
HDI54E	54	58,86	63,72	1/2"	R513A	230/1/50	No Loss	0,24	16	60	50	386	500	651	37
HDI72E	72	78,48	84,96	1/2"	R513A	230/1/50	No Loss	0,32	16	60	50	386	500	651	41
HDI108E	108	117,72	127,44	3/4"	R513A	230/1/50	No Loss	0,45	16	60	50	386	500	651	46
HDI144E	144	156,96	169,92	3/4"	R513A	230/1/50	No Loss	0,51	16	60	50	386	500	651	49
HDI180E	180	196,2	212,4	1"	R513A	230/1/50	No Loss	0,54	16	60	50	423	567	771	67
HDI240E	240	261,6	283,2	1"	R513A	230/1/50	No Loss	0,846	16	60	50	423	567	771	69
HDI300E	300	327	354	1-1/2"	R513A	230/1/50	No Loss	0,65	16	60	50	500	718	980	104
HDI360E	360	392,4	424,8	1-1/2"	R513A	230/1/50	No Loss	0,78	16	60	50	500	718	980	107
HDI480E	480	523,2	566,4	1-1/2"	R513A	230/1/50	No Loss	0,84	16	60	50	500	718	980	119
HDI600E	600	654	708	2"	R513A	230/1/50	No Loss	1,05	16	60	50	779	720	1360	186
HDI780E	780	850,2	920,4	2"	R513A	400/3/50	No Loss	1,62	13	60	50	779	720	1360	227
HDI950E	950	1035,5	1121	2"	R513A	400/3/50	No Loss	2,08	13	60	50	779	720	1360	237
HDI1300E	1300	1417	1534	3"	R513A	400/3/50	No Loss	2,32	14	60	46	806	1012	1539	394
HDI1500E	1500	1635	1770	3"	R513A	400/3/50	No Loss	2,68	14	60	46	806	1012	1539	394
HDI1800E	1800	1962	2124	3"	R513A	400/3/50	No Loss	3,22	14	60	46	806	1012	1539	394
HDI2250E	2250	2452,5	2655	3"	R513A	400/3/50	No Loss	3,74	14	60	46	806	1012	1539	399
HDI2600E	2600	2834	3068	3"	R513A	400/3/50	No Loss	4,32	14	60	46	806	1012	1539	399
HDI3200E	3200	3488	3776	DN150 PN16	R513A	400/3/50	No Loss	6,68	14	60	46	880	1819	1796	810
HDI4200E	4200	4578	4956	DN150 PN16	R513A	400/3/50	No Loss	6,8	14	60	46	880	1819	1796	840
HDI4800E	4800	5232	5664	DN150 PN16	R513A	400/3/50	No Loss	7,18	14	60	46	880	1819	1796	840
HDI5400E	5400	5886	6372	DN150 PN16	R513A	400/3/50	No Loss	11,12	13	60	46	1510	1500	1555	1020

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Technical data - HDI-E water cooled models

Model Name	Air Flow			Air Connections	Refrigerant	Power Supply	Condensate Drain	Absorbed Nominal Power	Max Pressure	Max Inlet	Max Ambient	Dimensions (mm)			Weight
Water Cooled	3°C m³/h	5°C m³/h	7°C m³/h	BSPP		V/ph/Hz		kW	barg	°C	°C	W	D	H	kg
HDI1300E-W	1300	1417	1534	3"	R513A	400/3/50	No Loss	2,55	14	60	46	806	1012	1422	394
HDI1500E-W	1500	1635	1770	3"	R513A	400/3/50	No Loss	2,95	14	60	46	806	1012	1422	394
HDI1800E-W	1800	1962	2124	3"	R513A	400/3/50	No Loss	3,54	14	60	46	806	1012	1422	394
HDI2250E-W	2250	2452,5	2655	3"	R513A	400/3/50	No Loss	4,12	14	60	46	806	1012	1422	428
HDI2600E-W	2600	2834	3068	3"	R513A	400/3/50	No Loss	4,75	14	60	46	806	1012	1422	428
HDI3200E-W	3200	3488	3776	DN150 PN16	R513A	400/3/50	No Loss	6,07	14	60	46	880	1819	1671	830
HDI4200E-W	4200	4578	4956	DN150 PN16	R513A	400/3/50	No Loss	6,52	14	60	46	880	1819	1671	860
HDI4800E-W	4800	5232	5664	DN150 PN16	R513A	400/3/50	No Loss	6,52	14	60	46	880	1819	1671	860
HDI5400E-W	5400	5886	6372	DN150	R513A	400/3/50	No Loss	12,24	13	60	45	1510	1500	1438	1020

60Hz versions available for all HDI-E models.

* All data based on: ISO 7183: Based on the intake volume of the compressor at +20ºC and 1 bar (g), operating pressure 7 bar (g), inlet temperature +35ºC, ambient or cooling water temperature at +25ºC, pressure dew point +3ºC. Technical data and specifications are subject change without prior notice.

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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

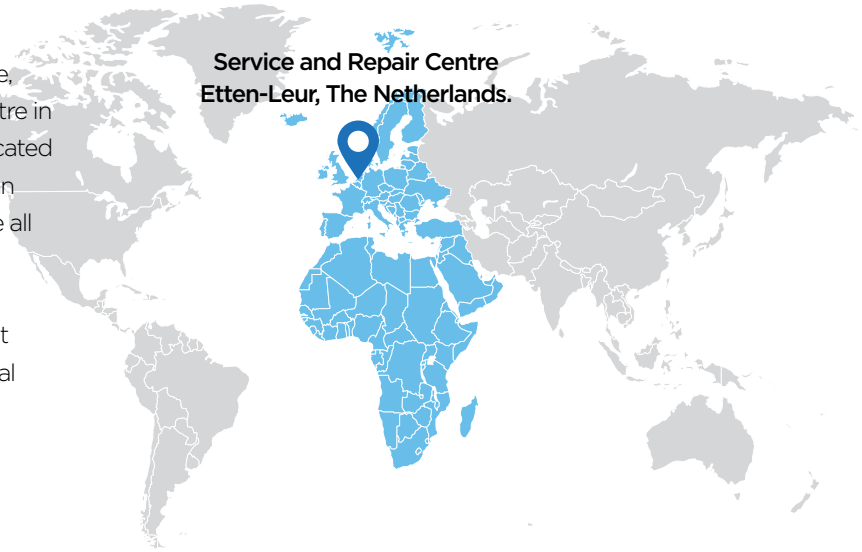


- Elements
- Accessories

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.



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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™

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