EQUIPMENT

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Building the Future!

Hertz is committed to developing the technology of compressors with a continued focus on performance and energy efficiency with our motto “Building the future”.

It’s an endless journey, and whatever the conditions, Hertz will accompany you throughout this journey. We build the future together with an approach that encourages collaboration and creative problem-solving.

As Hertz, we understand all your needs for high-quality compressed air and offer products and services that will provide maximum added value to you and your processes with our quality standards and advanced engineering approach with our productive and dynamic teammates.

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ABOUT US

Hertz Kompressoren is the premium export brand of Dalgakiran, one of the leading air compressor producers in the world which has developed a truly international compressed air sales & service network worldwide.

Hertz Kompressoren was founded in Germany in 2005. Today, we use our more than 55 years of design and manufacturing experience to provide you the ideal air solutions for your business.

Building the Future!

With our visionary orientation, we continuously develop our products and services under the guidelines of efficiency and sustainability. We are continuously working on more efficient and robust compressors that provide the specific requirements of each industry in order to contribute to sustainability by reducing the energy consumption of the facilities.

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COMPRESSED AIR DRYERS

HRD - Refrigerated Type Air Dryers 06

HRD HPN - Refrigerated Type High Pressure Air Dryers 08

HRD H - Refrigerated Type High Temperature Compressed Air Dryers 10

HRC - Refrigerated Type Cycling (Thermal Mass) Air Dryers 12

HMD - Modular Adsorption Compressed Air Dryers 14

HMD VP - Vacuum Purge Modular Adsorption Compressed Air Dryers 16

HDA - Heatless Adsorption Compressed Air Dryers 18

HBP - Blower Purge Adsorption Compressed Air Dryers 20

HBS - Medical Air Dryers 22

HTD - Turbo Air Dryers 24

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EMERGENCY STOP
FESTO
FESTO

They cool the compressed air passing through them and keep that air dry down to the dew point of +3°C. Inlet and outlet filters integrated into the dryer (up to the HRD 210 model) reduce the particle level by 0.01 microns and the oil particle level by 0.01 mg/m³.

Key Features

- Very low pressure losses
- Design suitable for tropical climates
- R-134a/513a Refrigerant
- Operates at 60°C inlet temperature and 50°C ambient temperature
- Compact design
- Minimum footprint
- Digital controller for energy savings
- High efficiency
- Ease of access
- Separate electrical and cooling sections

Model	Capacity*		Connection Size	Voltage**	Refrigerant	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Included Filter and Type	Dimensions (mm)			Weight
	m³/min	cfm				bar	ºC	ºC		Length	Width	Height	kg
HRD 10	0,35	12	G ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 55 MX+MY	423	393	567	32
HRD 20	0,58	20	G ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 55 MX+MY	423	393	567	32
HRD 30	0,83	29	G ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 55 MX+MY	423	393	567	32
HRD 35	1,05	37	G ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 75 MX+MY	423	393	567	35
HRD 40	1,45	51	G ¾"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 155 MX+MY	473	453	832	51
HRD 50	2,17	77	G ¾"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 155 MX+MY	473	453	832	53
HRD 60	2,83	100	G ¾"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 155 MX+MY	473	453	832	55
HRD 70	3,30	117	G 1 ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 405 MX+MY	553	503	874	78
HRD 80	4,7	166	G 1 ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 405 MX+MY	553	503	874	83
HRD 90	5,9	208	G 1 ½"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 405 MX+MY	553	503	874	86
HRD 100	7,8	275	G 2"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 805 MX+MY	678	648	1157	160
HRD 110	9,8	346	G 2"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 805 MX+MY	678	648	1157	165
HRD 120	13,8	487	G 2"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 1205 MX+MY	948	728	1370	220
HRD 130	18,3	646	G 2"	230V/1/50 Hz	R134a-513a	16	50	60	HGKON 1205 MX+MY	948	728	1370	230
HRD 140	21,8	770	G 3"	400V/3/50Hz	R513a	16	50	60	HGKON-1805 MX+MY	948	798	1460	270
HRD 150	27,1	957	G 3"	400V/3/50Hz	R513a	16	50	60	HGKON-1805 MX+MY	948	798	1460	285
HRD 160	36,7	1296	G 3"	400V/3/50Hz	R513a	16	50	60	HGKON-2775 MX+MY	1163	778	1725	392
HRD 170	43,7	1543	G 3"	400V/3/50Hz	R513a	16	50	60	HGKON-2775 MX+MY	1163	778	1725	410
HRD 180	52,4	1850	DN100	400V/3/50Hz	R513a	16	50	60	HGKON-5850 MX+MY	1397	847	1770	492
HRD 190	61,6	2175	DN100	400V/3/50Hz	R513a	16	50	60	HGKON-5850 MX+MY	1397	847	1770	520
HRD 200	80,0	2825	DN100	400V/3/50Hz	R513a	16	50	60	HGKON-5850 MX+MY	1467	1077	1930	696
HRD 210	92,0	3249	DN100	400V/3/50Hz	R513a	16	50	60	HGKON-5850 MX+MY	1467	1077	1930	718
HRD 220	109,7	3874	DN150	400V/3/50Hz	R513a	16	50	60	Not Included	2188	1062	1925	900
HRD 230	123,9	4375	DN150	400V/3/50Hz	R513a	16	50	60	Not Included	2188	1062	1925	925
HRD 240	141,6	5001	DN150	400V/3/50Hz	R513a	16	50	60	Not Included	2247	1200	2044	975
HRD 250	165,2	5834	DN200	400V/3/50Hz	R513a	16	50	60	Not Included	2247	1200	2044	1100
HRD 260	196,7	6946	DN200	400V/3/50Hz	R513a	16	50	60	Not Included	2550	1550	2100	1400

- Hertz reserves its rights to change the specifications without any prior notice.
* Capacity is given at atmospheric Pressure at 20 ºC (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneurop 6611- Class 4-7 bar -35 ºC inlet - 25 ºC ambient.
** Consult sales representative for optional voltages

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

HRD Dryer Sizing Example;

If a compressor delivers 20 m³/min at 6 bar, the dryer inlet temperature is 40ºC and the ambient temperature is 30ºC, please choose your dryer as follows;

Dryer Capacity = 20 / 0.94 / 0.92 / 0.98 = 23,6 m³/min

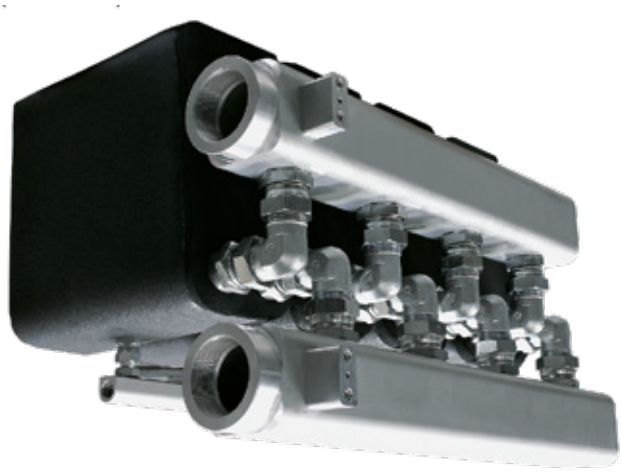
The correct dryer model for this application is HRD 150.

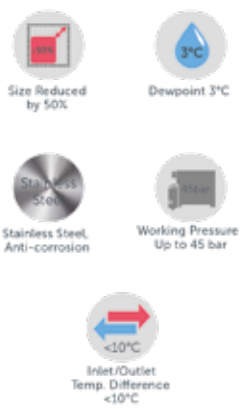
CORRECTION FACTORS FOR HRD AIR DRYERS								
Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,7	-	-
Pressure Bar	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25

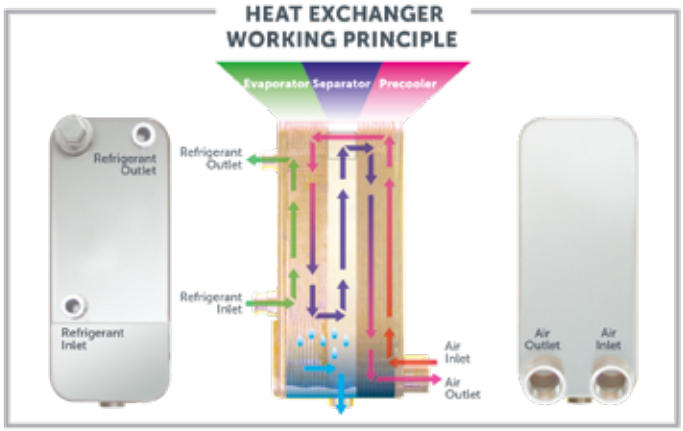
They ensure 100% contact between the air and refrigerant circuits. They offer excellent cooling by combining high efficiency with advanced performance.

Key Features

- Latest technology 3-in-1 design
- Low pressure difference
- Compact design with 3-in-1 heat exchanger
- Meets every capacity and power requirement
- Stainless steel, brazed, plated heat exchanger
- Size reduction and excellent heat transfer
- Corrosion prevention
- Safety test against leakages







Model	Capacity*		Voltage	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Dimensions (mm)			Weight
	m³/min	cfm		bar	ºC	ºC	Length	Width	Height	kg
HRD 50 HPN	0,83	29	230V/1/50 Hz	45	45	50	454	361	553	36
HRD 90 HPN	1,50	53	230V/1/50 Hz	45	45	50	454	361	553	38
HRD 150 HPN	2,50	88	230V/1/50 Hz	45	45	50	453	401	623	45
HRD 220 HPN	3,67	130	230V/1/50 Hz	45	45	50	453	401	623	45
HRD 300 HPN	5,00	177	230V/1/50 Hz	45	45	50	505	451	761	70
HRD 400 HPN	6,67	236	230V/1/50 Hz	45	45	50	505	451	761	72
HRD 500 HPN	8,33	294	230V/1/50 Hz	45	45	50	505	451	812	78
HRD 575 HPN	9,58	338	230V/1/50 Hz	45	45	50	505	451	812	80
HRD 775 HPN	12,9	456	230V/1/50 Hz	45	45	50	675	501	984	115
HRD 910 HPN	15,2	537	230V/1/50 Hz	45	45	50	675	501	984	120
HRD 1000 HPN	16,7	590	230V/1/50 Hz	45	45	50	947	727	1170	218
HRD 1160 HPN	19,4	685	230V/1/50 Hz	45	45	50	947	727	1170	220
HRD 1500 HPN	25,0	883	230V/1/50 Hz	45	45	50	947	727	1170	225
HRD 1600 HPN	26,7	943	400V/3/50Hz	45	45	50	947	797	1460	263
HRD 1800 HPN	30,0	1059	400V/3/50Hz	45	45	50	947	797	1460	265
HRD 2200 HPN	36,7	1296	400V/3/50Hz	45	45	50	1162	797	1495	352
HRD 2500 HPN	41,7	1473	400V/3/50Hz	45	45	50	1162	797	1495	353
HRD 2700 HPN	45,0	1589	400V/3/50Hz	45	45	50	1162	797	1495	355
HRD 3000 HPN	50,0	1766	400V/3/50Hz	45	45	50	1162	797	1495	422
HRD 3300 HPN	55,0	1942	400V/3/50Hz	45	45	50	1162	797	1495	423
HRD 3600 HPN	60,0	2119	400V/3/50Hz	45	45	50	1162	797	1495	425

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* Nominal flow is calculated at the following conditions: Inlet Pressure: 40 bar, Inlet Temperature: 35°C Ambient Temperature 25°C for other conditions please refer to the correction factor table.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

HRD HPN Dryer Sizing Example;
If a compressor delivers 20 m³/min at 35 bar, the dryer inlet temperature is 40ºC and the ambient temperature is 30ºC, please choose your dryer as follows;

Dryer Capacity = 20 / 0,96 / 0,82 / 0,63 = 40,3 m³/min

The correct dryer model for this application is HRD 2500 HPN.

CORRECTION FACTORS FOR HRD HPN SERIES									
Pressure (bar)	20	25	30	35	40	45	-	-	-
F1	0,84	0,91	0,93	0,96	1	1,02	-	-	-
Ambient Temperature (ºC)	-	-	-	-	25	30	35	40	45
F2	-	-	-	-	1	0,93	0,87	0,82	0,79
Inlet Temperature (ºC)	-	-	-	-	35	40	45	50	-
F3	-	-	-	-	1	0,85	0,72	0,63	-

High temperature air dryers are fitted with an aftercooler to lower the inlet temperature of the compressed air. This ensures effective dew-point management.

Key Features

- High operating inlet temperature
- Integrated condenser
- Independent air-cooled aftercooler
- Moisture separator
- Automatic drain
- Environmentally friendly R134a refrigerant
- Increased compressor life span
- Operate in high ambient temperatures
- Excellent insulation
- Easy to assemble and maintain

Model	Max. Pressure		Capacity		Connection Size	Voltage (V/ph/Hz)	Dimensions (mm)			Weight	Controller	Refrigerant Type
	bar	psi	m^3/min	cfm			Length	Width	Height	kg		
HRD H 31	16	232	0,52	18	G ½"	230/ 1 /50	445	445	955	62	DigiPro	R134a
HRD H 52	16	232	0,87	31	G ½"	230/ 1 /50	445	445	955	62	DigiPro	R134a
HRD H 75	16	232	1,25	44	G ½"	230/ 1 /50	445	445	955	63	DigiPro	R134a
HRD H 106	16	232	1,77	62	G ¾"	230/ 1 /50	445	445	955	64	DigiPro	R134a
HRD H 160	16	232	2,67	94	G ¾"	230/ 1 /50	625	510	910	88	DigiPro	R134a
HRD H 212	16	232	3,53	125	G ¾"	230/ 1 /50	625	510	910	97	DigiPro	R134a

CORRECTION FACTORS FOR HRD H SERIES												
Pressure (bar)	4	5	6	7	8	8,5	10	11	12	13	14	16
F1	0,70	0,75	0,80	0,83	0,86	0,90	0,93	0,96	1	1,1	1,12	1,15
Ambient Temperature °C	24	29	35	38	40	46	49	-	-	-	-	-
F2	1,10	1,07	1,03	1,00	0,96	0,82	0,55	-	-	-	-	-
Inlet Temperature °C	32	38	65	82	93	98	104	-	-	-	-	-
F3	1,30	1,27	1,06	1,00	0,85	0,78	0,75	-	-	-	-	-

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2 / F3

These types of dryers consume energy dependent on air flow. The dryer's cooling system cools the water-glycol mixture down to 1°C and holds this mixture in a stainless steel container. A small pump circulates the water-glycol mixture to cool the compressed air. The cooling system's compressor turns off when the mixture reaches the required temperature resulting in considerable energy savings.

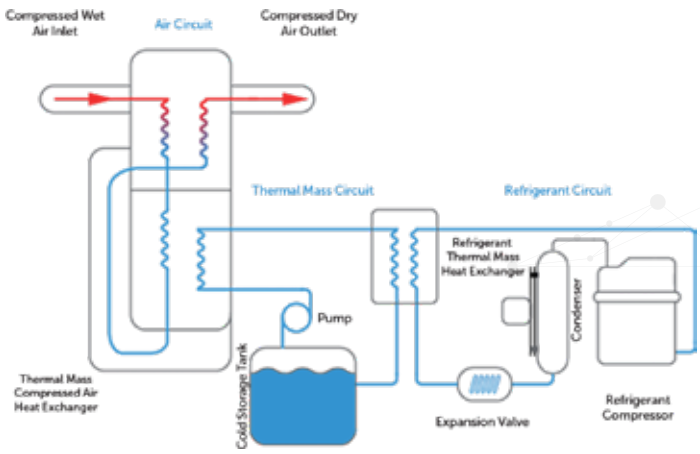
Advantages

- Energy savings wiht capacity control
- 3°C dew point
- Very low pressure drop
- Suitable for tropical conditions
- Environmentally friendly R513a refrigerant
- Large condenser
- Operates at 60°C inlet temperature and in 50°C ambient temperature
- Stainless steel components
- High efficiency

Model	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage (V/ph/Hz)	Dimensions (mm)			Weight	Controller	Refrigerant Type
	bar	psi	m³/min	cfm				Length	Width	Height	kg		
HRC 210	16	232	3,5	124	G 1 1/2"	HGKON405 MX+MY	230 / 1 / 50	777	747	1378	101	DigiPro	R513a
HRC 305	16	232	5,08	1800	G 1 1/2"	HGKON405 MX+MY	230 / 1 / 50	777	747	1378	112	DigiPro	R513a
HRC 375	16	232	6,25	221	G 1 1/2"	HGKON405 MX+MY	230 / 1 / 50	777	747	1378	122	DigiPro	R513a
HRC 495	16	232	8,25	291	G 2"	HGKON805 MX+MY	230 / 1 / 50	855	725	1505	178	DigiPro	R513a
HRC 623	16	232	10,4	366	G 2"	HGKON1205 MX+MY	230 / 1 / 50	855	725	1505	184	DigiPro	R513a
HRC 930	16	232	15,5	547	G 2"	HGKON1205 MX+MY	230 / 1 / 50	830	730	1765	242	DigiPro	R513a
HRC 1200	16	232	20,0	706	G 2"	HGKON1205 MX+MY	400 / 3 /50	830	730	1765	253	ESD-3	R513a
HRC 1388	16	232	23,1	817	G 3"	HGKON-1805 MX+MY	400 / 3 /50	1150	800	1740	295	ESD-3	R513a
HRC 1800	16	232	30,0	1059	G 3"	HGKON-1805 MX+MY	400 / 3 /50	1150	800	1740	310	ESD-3	R513a
HRC 2500	16	232	41,7	1471	G 3"	HGKON-1805 MX+MY	400 / 3 /50	1315	880	1790	411	ESD-3	R513a
HRC 2775	16	232	46,3	1633	G 3"	HGKON-2275 MX+MY	400 / 3 /50	1315	880	1790	443	ESD-3	R513a
HRC 3330	16	232	55,5	1960	DN100	HGKON-5850 MX+MY	400 / 3 /50	1400	850	1840	537	ESD-3	R513a
HRC 3915	16	232	65,3	2304	DN100	HGKON-5850 MX+MY	400 / 3 /50	1400	850	1840	557	ESD-3	R513a
HRC 5085	16	232	84,8	2993	DN100	HGKON-5850 MX+MY	400 / 3 /50	1620	1080	1995	737	ESD-3	R513a
HRC 5850	16	232	97,5	3443	DN100	HGKON-5850 MX+MY	400 / 3 /50	1620	1080	1995	760	ESD-3	R513a
HRC 6975	16	232	116,3	4105	DN150	-	400 / 3 /50	2190	1065	2025	941	ESD-3	R513a
HRC 7875	16	232	131,3	4634	DN150	-	400 / 3 /50	2190	1065	2025	963	ESD-3	R513a
HRC 9000	16	232	150	5297	DN150	-	400 / 3 /50	2900	1200	2120	1025	ESD-3	R513a
HRC 10500	16	232	175	6179	DN200	-	400 / 3 /50	2900	1200	2120	1162	ESD-3	R513a
HRC 12500	16	232	208,3	7356	DN200	-	400 / 3 /50	2550	1550	2170	1480	ESD-3	R513a

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2 / F3

CORRECTION FACTORS FOR HRC SERIES								
Pressure (bar)	4	6	7	8	10	12	14	16
F1	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,70	-	-
Inlet Temperature °C	30	35	40	45	50	60	-	-
F3	1,29	1	0,92	0,78	0,65	0,45	-	-



HMD model chemical dryers use a modular design for a lightweight, compact body. Having half the size and weight of traditional twin-tower chemical dryers, they provide users with the advantage of flexible installation. This is one of the chemical air dryer models with the lowest pressure drop in the world with its highly engineered inlet valve and discharge manifold design.

Advantages

- Low footprint, lightweight, compact design
- Corrosion-resistant aluminium structure
- Problem-free and reliable electronic control
- Can be mounted on the floor, bench, or wall
- Suitable layout for any workplace
- Easy to install and maintain
- High efficiency and flexibility
- Energy efficient
- Dew point from -40°C to -70°C (optional)

Model	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage	Dimensions (mm)			Weight	Controller
	bar	psi	m³/min	cfm			(V/ph/Hz)	Length	Width	Height	kg	
HMD 3	16	232	0,08	3	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	336	320	558	17	Crouzet Millenium 3
HMD 5	16	232	0,17	6	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	320	320	633	19	Crouzet Millenium 3
HMD 10	16	232	0,33	12	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	320	320	908	27	Crouzet Millenium 3
HMD 15	16	232	0,42	15	G 1/2"	HGON35 MX+MY+MP	230/1/50-60	350	370	808	31	Crouzet Millenium 3
HMD 20	16	232	0,58	21	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1108	42	Crouzet Millenium 3
HMD 25	16	232	0,75	26	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1258	48	Crouzet Millenium 3
HMD 30	16	232	0,83	29	G 1/2"	HGON55 MX+MY+MP	230/1/50-60	350	370	1508	54	Crouzet Millenium 3
HMD 40	16	232	1,17	41	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1250	71	Crouzet Millenium 3
HMD 50	16	232	1,42	50	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1400	78	Crouzet Millenium 3
HMD 60	16	232	1,67	59	G 1 1/2"	HGON100 MX+MY+MP	230/1/50-60	495	410	1750	92	Crouzet Millenium 3
HMD 75	16	232	2,17	77	G 1 1/2"	HGON150 MX+MY+MP	230/1/50-60	622	430	1300	120	Crouzet Millenium 3
HMD 100	16	232	2,83	100	G 1 1/2"	HGON225 MX+MY+MP	230/1/50-60	622	430	1450	133	Crouzet Millenium 3
HMD 120	16	232	3,33	118	G 1 1/2"	HGON225 MX+MY+MP	230/1/50-60	622	430	1750	152	Crouzet Millenium 3
HMD 180	16	232	5,00	177	G 1 1/2"	HGON400 MX+MY+MP	230/1/50-60	734	410	1499	186	Crouzet Millenium 3
HMD 240	16	232	6,67	235	G 1 1/2"	HGON500 MX+MY+MP	230/1/50-60	889	410	1497	235	Crouzet Millenium 3
HMD 340	16	232	9,6	340	2"	HGON600 MX+MY+MP	230/1/50-60	994	400	1654	400	Crouzet Millenium 3
HMD 400	16	232	11,3	400	2"	HGON800 MX+MY+MP	230/1/50-60	1335	400	1554	600	Crouzet Millenium 3
HMD 500	16	232	14,2	500	2"	HGON1000 MX+MY+MP	230/1/50-60	1505	400	1654	700	Crouzet Millenium 3
HMD 590	16	232	16,7	590	2"	HGON1000 MX+MY+MP	230/1/50-60	1675	400	1754	850	Crouzet Millenium 3
HMD 735	16	232	20,8	735	3"	HGON1550 MX+MY+MP	230/1/50-60	1675	400	2054	950	Crouzet Millenium 3
HMD 890	16	232	25,0	890	3"	HGON1550 MX+MY+MP	230/1/50-60	1845	400	2054	1050	Crouzet Millenium 3
HMD 1060	16	232	30,0	1060	3"	HGON2000 MX+MY+MP	230/1/50-60	2015	400	2054	1200	Crouzet Millenium 3

CORRECTION FACTORS FOR HMD SERIES

Pressure (bar)	4,5	5	6	7	8	9	10	11	12	13	14	15
F1	0,69	0,75	0.88	1	1,12	1,25	1,37	1,50	1,62	1,74	1,87	1,99
Inlet Temperature (°C)	20	25	30	35	40	45	50	-	-	-	-	-
F2	1	1	1	1	0,80	0,73	0,59		-	-	-	-

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2

HMD Dryer Sizing Example;
If a compressor delivers 2,0 m³/min at 10 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 2,0 / 1,37 / 0,80 = 1,82 m³/min

The correct dryer model for this application is HMD 75.

PRE FILTER (X)
Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)
Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)
Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)
Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

HMD-VP

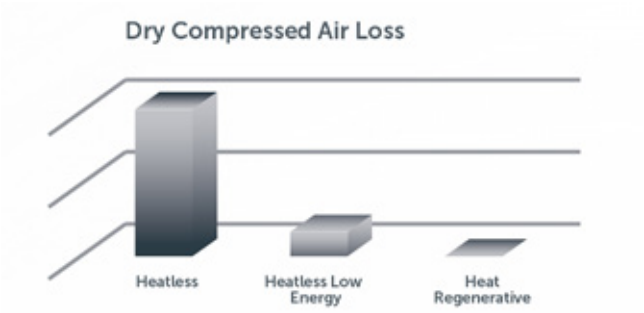
VACUUM PURGE MODULAR ADSORPTION COMPRESSED AIR DRYERS

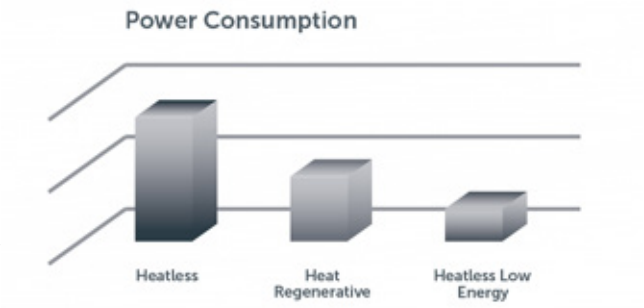
1,67-20,83 M^3/MIN

The HMD-VP Series modular, vacuum purge heatless desiccant air dryers remove water vapour from the compressed air, stop corrosion, and prevent the growth of micro-organisms when supplying the clean air crucial for production. HMD-VP Series air dryers efficiently and reliably supply the system with high-quality dry air with a dew point of -40 °C or optionally a dew point of -70 °C. This extends the machinery's life span, keeps maintenance costs to a minimum, and results in safe and healthy production. The new vacuum purge technology minimises air loss during regeneration and optimises production levels.

Areas of Use

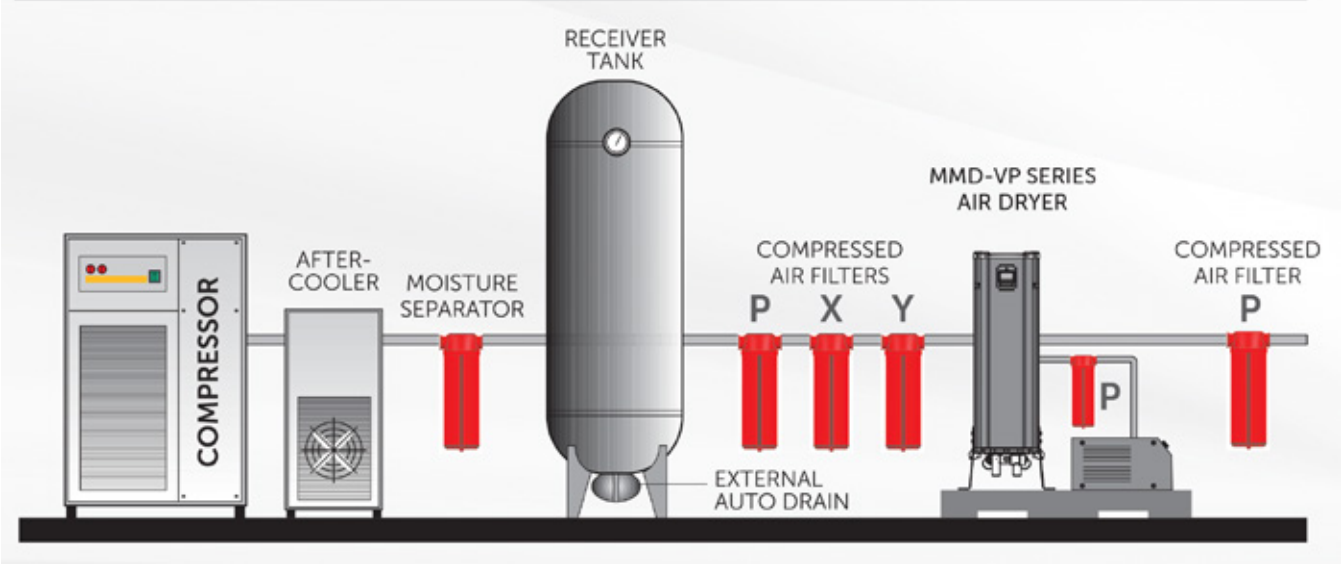
- Food and Beverage
- Pharmaceutical
- Automotive
- Electronic
- All industries requiring a dew point of -40°C or optional -70°C.





Model	Capacity	Vacuum Pump	Filter Set	Connection Size	Voltage	Max. Working Pressure
	m³/min	kW			V	bar
HMD-VP-60	1,67	1,1	GON 100 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-75	2,17	1,1	GON 150 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-100	2,83	1,3	GON 225 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-120	3,33	2,2	GON 225 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-180	5	2,2	GON 400 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-240	6,67	3	GON 500 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-340	9,58	4	GON 600 MX+MY+MP	G 1 1/2"	400/3/50	16
HMD-VP-400	11,33	4	GON 800 MX+MY+MP	G 2"	400/3/50	16
HMD-VP-500	14,17	5,5	GON 1000 MX+MY+MP	G 2"	400/3/50	16
HMD-VP-590	16,67	5,5	GON 1000 MX+MY+MP	G 2"	400/3/50	16
HMD-VP-740	20,83	7,5	GON 1550 MX+MY+MP	G 3"	400/3/50	16

AIR LINE DESIGN



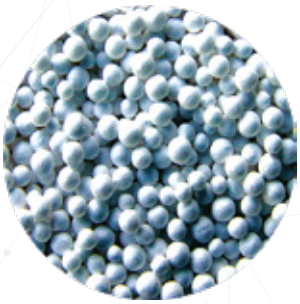
Correct Model = (Compressor Capacity)/[(F1) . (F2)]			
Inlet Temperature (°C)	F1	Pressure (bar)	F2
20	1	4,5	0,69
25	1	5	0,75
30	1	6	0,88
35	1	7	1
40	0,8	8	1,12
45	0,73	9	1,25
50	0,59	10	1,25
–	–	11	1,5
–	–	12	1,62
–	–	13	1,74
–	–	14	1,87
–	–	15	1,99
–	–	16	2,11

Designed to supply clean and very dry air for critical applications. They have a constant dew point of -40°C (-70°C optional).

They come with inlet and outlet line filters to keep the air flow clean and to protect the chemical mixture inside the tanks.

Advantages

- Uninterrupted and perfect operation
- -40°C (-70°C optional) pressurized dew point
- Optional dew point monitoring and control
- 16 and 40 bar working pressure options
- Constant dew point
- Easy-to-use control panel
- Touchscreen interface
- User friendly
- Different language options



Model	Max. Pressure		Capacity		Connection Size	Filters	Voltage	Dimensions (mm)			Weight	Controller
	bar	psi	m³/min	cfm			V/ph/Hz	Length	Width	Height	kg	
HDA 130	10	145	2,17	77	G 1"	HGON150 MX+MY+MP	230/1/50-60	814	600	1312	160	Crouzet Millenium 3
HDA 185	10	145	3,08	109	G 1"	HGON225 MX+MY+MP	230/1/50-60	806	600	1566	180	Crouzet Millenium 3
HDA 250	10	145	4,17	147	G 1"	HGON300 MX+MY+MP	230/1/50-60	772	760	1580	200	Crouzet Millenium 3
HDA 300	10	145	5,00	177	G 1 1/2"	HGON300 MX+MY+MP	230/1/50-60	900	690	1558	250	Crouzet Millenium 3
HDA 360	10	145	6,00	212	G 1 1/2"	HGON400 MX+MY+MP	230/1/50-60	900	690	1558	250	Crouzet Millenium 3
HDA 440	10	145	7,33	259	G 1 1/2"	HGON500 MX+MY+MP	230/1/50-60	900	698	1759	340	Crouzet Millenium 3
HDA 575	10	145	9,58	338	G 1 1/2"	HGON600 MX+MY+MP	230/1/50-60	900	680	1991	500	Crouzet Millenium 3
HDA 680	10	145	11,3	400	G 2"	HGON800 MX+MY+MP	230/1/50-60	960	680	2216	535	Crouzet Millenium 3
HDA 850	10	145	14,2	500	G 2"	HGON1000 MX+MY+MP	230/1/50-60	1016	857	2277	750	Crouzet Millenium 3
HDA 1000	10	145	16,7	589	G 2"	HGON1200 MX+MY+MP	230/1/50-60	1075	1010	2386	755	Crouzet Millenium 3
HDA 1250	10	145	20,8	736	DN80	HGON1550 MX+MY+MP	230/1/50-60	1294	1100	2413	1000	Crouzet Millenium 3
HDA 1500	10	145	25,0	883	DN80	HGON1550 MX+MY+MP	230/1/50-60	1300	1010	2547	1050	Crouzet Millenium 3
HDA 1800	10	145	30,0	1059	DN80	HGON2000 MX+MY+MP	230/1/50-60	1513	1110	2479	1215	Crouzet Millenium 3
HDA 2200	10	145	36,7	1295	DN80	HGON2700 MX+MY+MP	230/1/50-60	1460	1110	2793	1550	Crouzet Millenium 3
HDA 2700	10	145	45,0	1589	DN80	HGON2700 MX+MY+MP	230/1/50-60	1533	1252	2831	1890	Crouzet Millenium 3
HDA 3200	10	145	53,3	1883	DN100	HGO3400 MX+MY+MP	230/1/50-60	1653	1212	3054	2240	Crouzet Millenium 3
HDA 3600	10	145	60,0	2119	DN100	HGO4500 MX+MY+MP	230/1/50-60	1653	1210	3268	2330	Crouzet Millenium 3
HDA 4400	10	145	73,3	2590	DN100	HGO4500 MX+MY+MP	230/1/50-60	1905	1535	2910	3000	Crouzet Millenium 3
HDA 5000	10	145	83,3	2943	DN150	HGO5400 MX+MY+MP	230/1/50-60	1843	1714	3382	3180	Crouzet Millenium 3
HDA 6300	10	145	105,0	3708	DN150	HF6500 MX+MY+MP	230/1/50-60	2114	1693	3328	3450	Crouzet Millenium 3
HDA 7200	10	145	120,0	4238	DN150	HF8500 MX+MY+MP	230/1/50-60	2518	1795	3047	3600	Crouzet Millenium 3
HDA 8800	10	145	146,7	5179	DN150	HF8500 MX+MY+MP	230/1/50-60	2518	1795	3341	3850	Crouzet Millenium 3
HDA 10800	10	145	180,0	6357	DN200	HF11000 MX+MY+MP	230/1/50-60	2583	1875	3747	4200	Crouzet Millenium 3

CORRECTION FACTORS FOR HDA DRYERS							
Pressure (bar)	4.5	5	6	7	8	9	10
	0,69	0,75	0,88	1	1,12	1,25	1,37
Inlet Temp. °C	20	25	30	35	40	45	50
	1	1	1	1	0,80	0,73	0,59

HDA Dryer Sizing Example;
If a compressor delivers 10 m³/min at 6 bar, the dryer inlet temperatur e is 40 °C. please choose your dryer as follows;

Dryer Capacity = 10 / 0,88 / 0,80 = 14,2 m³/min

The correct dryer model for this application is HDA 850.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal

They use a blower to draw in the ambient air and pass it through a heater. The heated air is sent in the opposite direction to the drying flow. This removes the moisture from the chemical substance pores. The advanced control system continuously monitors dew point and adjusts the temperature. This results in energy savings. The heater is insulated for high energy efficiency.

Advantages

- Dew point monitoring and control
- Computer control
- Status, alarm, and pressure display
- Remote start and stop
- Low-pressure alarm
- High-pressure switches and alarms
- Externally heated or heat-free operation
- Reliable electronic control units
- User friendly and different language options

Model	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage	Dimensions (mm)			Controller
	bar	psi	m³/min	cfm			V/ph/Hz	Length	Width	Height	
HBP 850	10	145	14,2	500	G 2"	HGON1000 MX+MY+MP(H)	400 / 3 / 50	1296	1180	2299	Schneider
HBP 1000	10	145	16,7	589	G 2"	HGON1000 MX+MY+MP(H)	400 / 3 / 50	1200	1310	2415	Schneider
HBP 1250	10	145	20,8	736	DN80	HGON1550 MX+MY+MP(H)	400 / 3 / 50	1610	1270	2468	Schneider
HBP 1500	10	145	25	883	DN80	HGON1550 MX+MY+MP(H)	400 / 3 / 50	1610	1270	2563	Schneider
HBP 1800	10	145	30	1059	DN80	HGON2000 MX+MY+MP(H)	400 / 3 / 50	1563	1515	2479	Schneider
HBP 2200	10	145	36,7	1295	DN80	HGON2700 MX+MY+MP(H)	400 / 3 / 50	1563	1455	2789	Schneider
HBP 2700	10	145	45	1589	DN80	HGON2700 MX+MY+MP(H)	400 / 3 / 50	1615	1514	2836	Schneider
HBP 3200	10	145	53,3	1883	DN100	HGO3400 MX+MY+MP(H)	400 / 3 / 50	1710	1660	3054	Schneider
HBP 3600	10	145	60	2119	DN100	HGO4500 MX+MY+MP(H)	400 / 3 / 50	1710	1660	3268	Schneider
HBP 4400	10	145	73,3	2590	DN100	HGO4500 MX+MY+MP(H)	400 / 3 / 50	1975	2492	2910	Schneider
HBP 5000	10	145	83,3	2943	DN 150	HGO5400 MX+MY+MP(H)	400 / 3 / 50	2045	2560	3382	Schneider
HBP 6300	10	145	105	3708	DN150	HF6500 MX+MY+MP(H)	400 / 3 / 50	2090	2963	3328	Schneider
HBP 7200	10	145	120	4238	DN150	HF8500 MX+MY+MP(H)	400 / 3 / 50	2020	3363	3047	Schneider
HBP 8800	10	145	146,7	5179	DN150	HF8500 MX+MY+MP(H)	400 / 3 / 50	2020	3363	3341	Schneider
HBP 10800	10	145	180	6357	DN200	HF11000 MX+MY+MP(H)	400 / 3 / 50	2492	3481	3765	Schneider
HBP 12000	10	145	200	7063	DN200	HF11000 MX+MY+MP(H)	400 / 3 / 50	*	*	*	Schneider
HBP 16000	10	145	267	9429	DN200	HF14000 MX+MY+MP(H)	400 / 3 / 50	2770	5114	4445	Schneider

Dew point monitoring and control are standard.
* Please contact the sales consultant.

CORRECTION FACTORS FOR HBP AIR DRYERS							
Bar	4.5	5	6	7	8	9	10
	0,69	0,75	0,88	1	1,12	1,25	1,37
Inlet Temp. °C	20	25	30	35	40	45	-
	1	1	1	1	0,80	0,73	-

HBP Dryer Sizing Example;

If a compressor delivers 35 m³/min at 6 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 35 / 0,88 / 0,80 = 49,7 m³/min

The correct dryer model for this application is HBP 3200.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003mg/m³ oil removal

Our medical air dryers will provide the clean, dry air necessary to keep your breathing air treatment processes safe. It is designed to be used as an addition to your plant air source by converting compressed air to breathable air for those individuals working in and around a hazardous process. Hertz breathing air purifiers are provided to destroy harmful substances in the air in accordance with applicable standards.

Contaminants	CSA Z180.1	European Pharmacopoeia	OHSA Grade D
Water	Pressure dew point of 5°C below lowest system temp.	67 ppm (-45°C atmospheric dew point)	-
Oil/Lubricant	<1 mg/m³	0,1 mg/m³	5 mg/m³
Carbon Dioxide (CO_2)	<500 ppm	<500 ppm	<1000 ppm
Carbon Monoxide (CO)	<5 ppm	<5 ppm	<10 ppm
Nitrogen Oxides ($NO+NO_2$)	-	<2 ppm	-
Sulphur Dioxide (SO_2)	-	<1 ppm	-
Oxygen (O_2)	-	21±1	-
Taste and Odor	-	Free	-

Model	Capacity		Max. Pressure	Connection Size	Replacement Filter Kit Model	Voltage	
	m³/min	cfm	bar				
HBS 5	0,17	5	16	G 1/2"	G100-HELM	230/1/50-60	MODULAR
HBS 10	0,33	10	16	G 1/2"	G100-HELM	230/1/50-60	
HBS 15	0,42	15	16	G 1/2"	G100-HELM	230/1/50-60	
HBS 20	0,58	20	16	G 1/2"	G100-HELM	230/1/50-60	
HBS 25	0,75	25	16	G 1/2"	G150-HELM	230/1/50-60	
HBS 30	0,83	30	16	G 1/2"	G200-HELM	230/1/50-60	
HBS 40	1,17	40	16	G 1 1/2"	G250-HELM	230/1/50-60	
HBS 50	1,42	50	16	G 1 1/2"	G300-HELM	230/1/50-60	
HBS 60	1,67	60	16	G 1 1/2"	G500-HELM	230/1/50-60	
HBS 75	2,17	75	16	G 1 1/2"	G600-HELM	230/1/50-60	
HBS 100	2,83	100	16	G 1 1/2"	G851-HELM	230/1/50-60	
HBS 120	3,33	120	16	G 1 1/2"	G1210-HELM	230/1/50-60	
HBS 180	5,00	180	16	G 1 1/2"	HELM 300	230/1/50-60	
HBS 240	6,67	240	16	G 1 1/2"	HELM 300	230/1/50-60	
HBS 250	7,33	250	16	G 1 1/2"	HELM 300	230/1/50-60	TWIN TOWER
HBS 300	9,60	300	16	G 1 1/2"	HELM 600	230/1/50-60	
HBS 400	11,3	400	16	G 2''	HELM 600	230/1/50-60	
HBS 500	14,2	500	16	G 2''	HELM 600	230/1/50-60	
HBS 600	16,7	600	16	G 2''	HELM 600	230/1/50-60	
HBS 700	20,8	700	16	DN80	HELM 800	230/1/50-60	
HBS 800	25,0	800	16	DN80	HELM 1200	230/1/50-60	
HBS 1000	28,3	1000	16	DN80	HELM 1200	230/1/50-60	
HBS 1250	36,7	1250	16	DN80	HELM 1600	230/1/50-60	

The new compact design of turbo dryers, which can dry compressed air at high capacities, gathers all the components of the drying system under a single canopy. With HTD Series, compressed air with capacities of 10000 Nm³/h - 30000 Nm³/h can be dried up to 3°C dew point. In addition, thanks to thermal mass technology, it dries the air with low energy consumption even in systems where compressed air consumption is not constant.

Key Features

- 7” touch screen (HTD 25000 - 30000), 4.3” touch screen (HTD 10000 - 20000)
- Standard MODBUS RS485 communication
- High strength aluminium heat exchanger
- High efficiency scroll (HTD 10000 - 20000) and screw (25000 - 30000) refrigerant gas compressor
- Constant dew point thanks to thermal mass technology
- Stainless steel thermal mass-cooler evaporator and thermal mass circulation pump
- Speed controlled (EC) fan motor
- Zero-loss evacuation
- 10 barg maximum operating pressure
- Water cooled condenser

Model	Pressure		Capacity		Connection	Voltage (V/ph/Hz)	Dimensions (mm)			Cooling Type	Refrigerant Type
	bar	psi	m³/min	cfm			Length	Width	Height		
HTD 10000	10	145	167	5885	DN 200	400V / 3ph / 50Hz	1290	3040	2345	Air Cooled	R410a
HTD 12500	10	145	208	7357	DN 200	400V / 3ph / 50Hz	1575	3440	2345	Air Cooled	R410a
HTD 15000	10	145	250	8828	DN 250	400V / 3ph / 50Hz	1575	3440	2460	Air Cooled	R410a
HTD 20000	10	145	333	11771	DN 300	400V / 3ph / 50Hz	1580	3440	2490	Air Cooled	R410a
HTD 25000	10	145	417	14714	DN 300	400V / 3ph / 50Hz	3727	2387	2483	Air Cooled	R407c
HTD 30000	10	145	500	17657	DN 350	400V / 3ph / 50Hz	3727	2387	2483	Air Cooled	R407c
HTD 10000 W	10	145	167	5885	DN 200	400V / 3ph / 50Hz	1360	2340	2465	Water Cooled	R410a
HTD 12500 W	10	145	208	7357	DN 200	400V / 3ph / 50Hz	1575	3440	2345	Water Cooled	R410a
HTD 15000 W	10	145	250	8828	DN 250	400V / 3ph / 50Hz	1575	3440	2460	Water Cooled	R410a
HTD 20000 W	10	145	333	11771	DN 300	400V / 3ph / 50Hz	1580	3440	2485	Water Cooled	R410a
HTD 25000 W	10	145	417	14714	DN 300	400V / 3ph / 50Hz	3292	2067	2481	Water Cooled	R407c
HTD 30000 W	10	145	500	17657	DN 350	400V / 3ph / 50Hz	3292	2067	2511	Water Cooled	R407c

CORRECTION FACTOR FOR HTD SERIES								
Pressure (bar)	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	-	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,76	0,7	-
Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-

Validation Formula: Dryer Capacity = Compressor Air Delivery Capacity / F1 / F2 / F3

Nominal Operating Pressure	7 barg
Max. Operating Pressure	10 barg
Minimum Operating Pressure	4 barg
Nominal Inlet Temperature	35°C
Max. Inlet Temperature	60°C
Minimum Inlet Temperature	5°C
Nominal Ambient Temperature	25°C
Max. Ambient Temperature	50°C
Minimum Ambient Temperature	5°C

FILTRATION, SEPARATION AND AIR RECEIVER

HGON - Compressed Airline Filters 28

HHGO - High Pressure Airline Filters 30

HG MSS - Medical Sterile Filters 31

HF - Flanged Compressed Air Filters 32

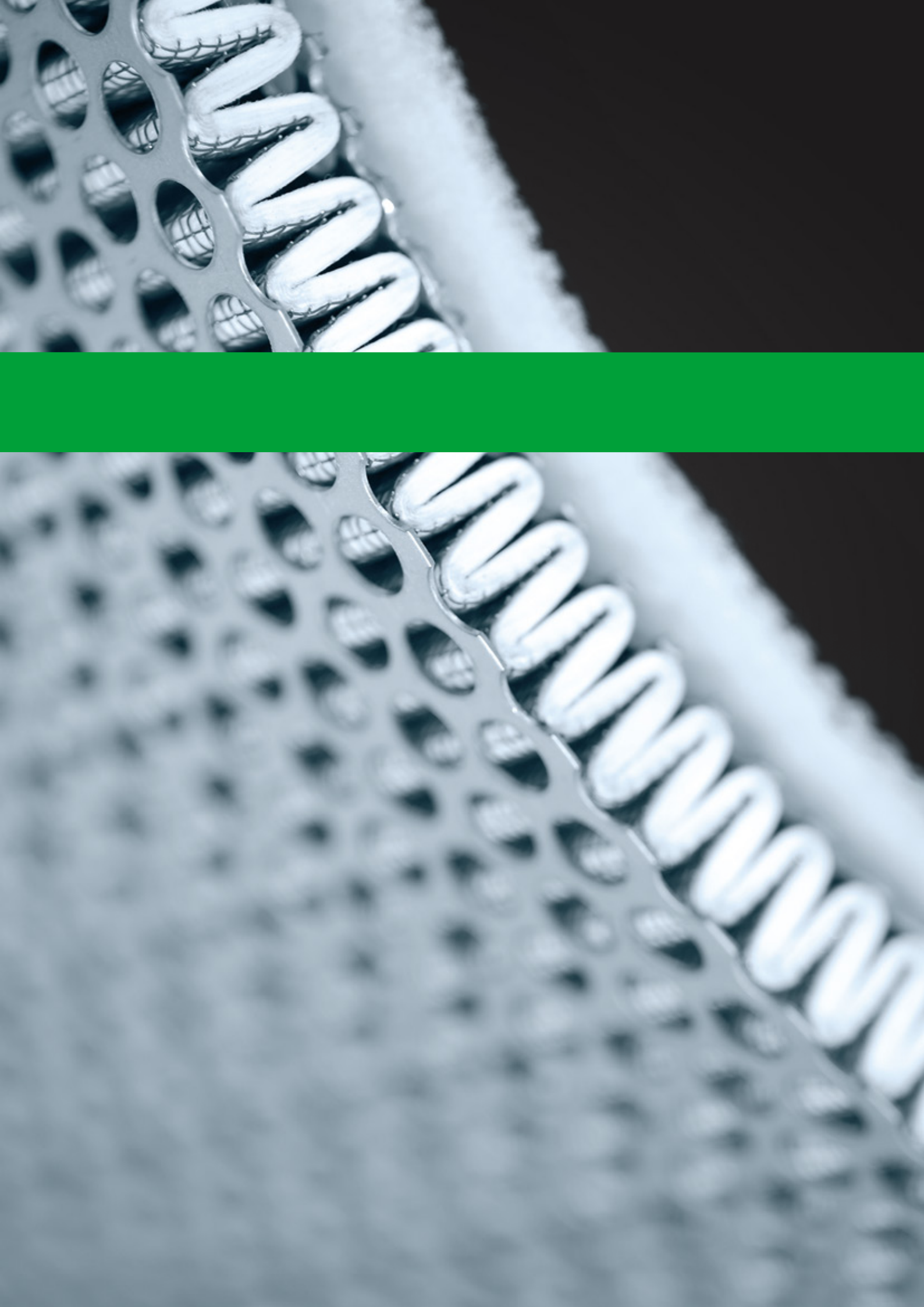
UP - Ultra Particulate Compressed Air Filters 34

HG WS - Water Separators 36

HF WS - Flanged Water Separators 37

HELM-C - Carbolescers 38

HAR - Air Receivers 40



Hertz's HGON Series of Industrial Air Filters offer its compressed air users high-efficiency filtration with low pressure losses. Having more port sizes, it delivers a reliable performance, minimising air contamination in compressed air systems. The innovative "Zero Clearance" design allows users to assemble and replace the filter and other components in any compressed air unit easily. Constructed of aluminium, the HGON series is built to last, meets PED and ISO 8573 standards, and is extremely economical.

Advantages

- Air flow from 35 m³/h to 5400 m³/h
- NPT/BSP pipe sizes range from ¼" to 4" inclusive
- Pore-free aluminium construction
- Options:
- "Standard Drain" with a ½" connector or
- "Drain-free" with a ½" connector and adaptor.
- Neatly designed connection clips and wall apparatus
- ISO 8573-compliant production
- Zero clearance
- Anodised
- Locking System Indicator

Model	Flow Rate		Max. Working Pressure	Connection Size	Element Model	Housing Dimensions (mm)				
	m³/min	cfm	bar			A	B	C	D	E
HGON-35	0,58	20	20	G 1/4"	MON35	90	36,5	214	192	19
HGON-55	0,92	32	20	G 3/8"	MON55	90	36,5	251,5	230	19
HGON-70	1,17	41	20	G 1/4"	MON70	128	45	273	249,5	32
HGON-100	1,67	59	20	G 1/2"	MON100	128	45	302,5	279	32
HGON-125	2,08	73	20	G 3/4"	MON125	128	45	343	319,5	32
HGON-150	2,50	88	20	G 3/4"	MON150	140	45	369	334,5	31
HGON-225	3,75	132	20	G 1"	MON225	140	45	398	364,5	31
HGON-300	5,00	177	20	G 1"	MON300	140	45	474	432	31
HGON-400	6,67	235	20	G 1 1/2"	MON400	140	45	564	522	31
HGON-500	8,33	295	20	G 1 1/2"	MON500	151	45	511	464,5	25
HGON-600	10,00	353	20	G 2"	MON600	151	45	626	579,5	25
HGON-800	13,33	471	20	G 2"	MON800	151	45	696	649,5	25
HGON-1000	16,67	588	20	G 2 1/2"	MON1000	151	45	851	804,5	25
HGON-1200	20,00	706	20	G 2 1/2"	MON1200	151	45	976	929,5	25
HGON-1550	25,83	912	20	G 3"	MON1550	240	45	707	659,5	25
HGON-2000	33,33	1177	20	G 3"	MON2000	240	45	862	814,5	25
HGON-2700	45	1589	20	G 3"	MON2700	240	45	987	939,5	25
HGO 3400	57	2013	16	DN 100	MO3400	360	45	871	810	30
HGO 4500	75	2649	16	DN 100	MO4500	360	45	926	865	30
HGO 5400	90	3178	16	DN 100	MO5400	360	45	1070	1009	30

Head Clamping

Head clamping connects filters in series without the need for more pipes and uses connection clamps to join multiple filters together. Wall-mounting apparatus lets you fix the filters to the walls with ease.

Drainage Pipes

Drainage pipes support the flow of moisture.

Correction Factor

Multiply the model flow rate shown in the table below by the correction factor corresponding to the working pressure to calculate the maximum flow rate of the filter model.

Operating Pressure (barg)	3	5	7	9	11	13	15	16	18	20
Correction Factor	0,71	0,87	1	1,12	1,22	1,32	1,44	1,5	1,57	1,63

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003mg/m³ oil removal

HHGO

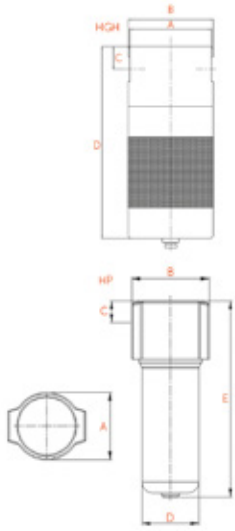
HIGH PRESSURE AIRLINE FILTERS

1,70-50,0 M³/MIN

This model filters are produced in a weldless structure to withstand high pressures. High-pressure test guarantee safe and efficient operation.

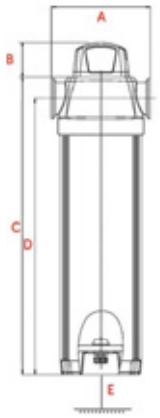
Advantages

- Durable and compact
- Safe and efficient operation
- High performance
- Strong and reliable design
- Excellent high-pressure applications
- Product performance warranty
- Carbon steel filters designed for 350 bar (optional)
- Sufficient wall thickness
- High-pressure tested
- Anodised interior and exterior surfaces



Model	Max. Pressure		Capacity		Connection Size	Element Model	Dimensions (mm)			
	bar	psi	m³/min	cfm			A	B	C	D
HHGO 100	50	725	1,7	59	G 1/4"	M25	113,4	115,4	25,75	155
HHGO 300	50	725	5,0	177	G 1/2"	M50	113,4	115,4	25,75	158,5
HHGO 600	50	725	10,0	353	G 3/4"	M100	109,4	115,4	32,25	207
HHGO 850	50	725	14,2	500	G 1"	M150	133	138	37,35	250
HHGO 1200	50	725	20,0	706	G 1"	M200	133	138	37,35	314
HHGO 1600	50	725	26,7	942	G 1 1/2"	M250	128	138	44,4	368
HHGO 2500	50	725	41,7	1471	G 2"	M2500	145	158	51,5	393
HHGO 3000	50	725	50,0	1766	G 2 1/2"	M3000	160	178	57,6	386

CORRECTION FACTORS FOR HHGO SERIES								
Working Pressure (barg)	15	20	25	30	35	40	45	50
Correction Factor	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0



Advantages

- Specially designed for medical compressed air plants
- Partical removal down to 0.01 micron
- Suitable for steam sterilisation in an autoclave

Model	Max. Pressure		Capacity		Connection Size	Dimensions (mm)				
	bar	psi	m³/min	cfm		A	B	C	D	E
HG 20 MSS	16	232	0,33	12	G 1/4"	72	19	193	100	22
HG 25 MSS	16	232	0,42	15	G 1/4"	72	19	193	100	22
HG 40 MSS	16	232	0,67	24	G 3/8"	96	20	237	110	22
HG 50 MSS	16	232	0,83	30	G 3/8"	96	20	237	110	22
HG 100 MSS	16	232	1,67	59	G 1/2"	96	20	237	150	22
HG 150 MSS	16	232	2,5	88	G 3/4"	117	34	375	190	56
HG 200 MSS	16	232	3,33	118	G 3/4"	117	34	375	250	56
HG 250 MSS	16	232	4,17	147	G 1"	117	34	465	300	56
HG 300 MSS	16	232	5,00	177	G 1 1/4"	117	34	465	350	56
HG 500 MSS	16	232	8,33	294	G 1 1/4"	117	34	530	380	56
HG 600 MSS	16	232	10	353	G 1 1/2"	117	34	530	425	56
HG 851 MSS	16	232	14,2	501	G 2"	170	64	722	480	56
HG 1210 MSS	16	232	20,2	712	G 2"	170	64	722	550	56
HG 1520 MSS	16	232	25,3	895	G 2 1/2"	235	72	760	430	56
HG 1820 MSS	16	232	30,3	1071	G 3"	235	72	760	550	56
HG 2220 MSS	16	232	37	1307	G 3"	235	72	760	600	56

They filter unwanted substances in the compressed air before they go to the system.

Advantages

- Simple design to replacement to internal element
- Two external float drains for excellent drainage
- CE and ASME tank options
- Low pressure drop
- Durable epoxy powder coating and rust-preventing anodised interior surface coating
- Strong welds
- Long service life

Model	Capacity		Connection Size	Drain Port Size	Maximum working Pressure	Element Model	Number of Elements	Housing Dimensions (mm)				
	m³/min	cfm			bar			A	B	C	D	E
HF 3600	60	2119	DN100	G ½"	14	M1200	3	450	1317	277	767	650
HF 4800	80	2825	DN100	G ½"	14	M1200	4	530	1344	279	769	650
HF 7200	120	4238	DN150	G ½"	14	M1200	6	580	1425	331	769	650
HF 9600	160	5650	DN150	G ½"	14	M1200	8	650	1439	333	798	650
HF 12000	200	7063	DN200	G ½"	14	M1200	10	750	1504	345	825	650
HF 16800	280	9888	DN200	G ½"	14	M1200	14	800	1545	383	833	650
HF 19200	320	11301	DN250	G ½"	14	M1200	16	850	1583	417	862	650
HF 20400	340	12007	DN300	G ½"	14	M1200	17	850	1680	447	887	650
HF 27600	460	16245	DN350	G ½"	14	M1200	23	850	1778	487	917	650
HF 33600	560	19776	DN350	G ½"	14	M1200	28	850	1778	487	917	650

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0,01	0,01
Max. Oil carryover at 21°C (mg/m³)	5	0,5	0,01	0,003
Max. working Temperature (°C)	80	80	80	25
Max.working Pressure	16	16	16	16
Initial Pressure loss (mbar)	40	80	100	80
Pressure loss for element change (mbar)	700	700	700	700
Element colour code	WHITE	WHITE	WHITE	METAL SS

CORRECTION FACTORS FOR HF COMPRESSED AIR FILTER									
Operating Pressure (barg)	1	3	5	7	9	11	13	15	16
PSIG	15	44	73	100	131	160	189	218	247
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,57

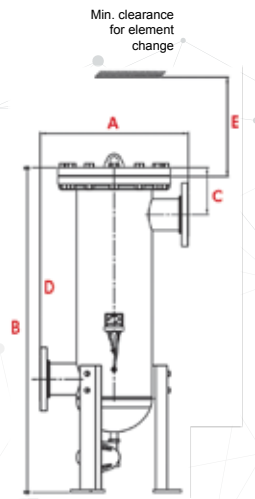
HF Compressed Air Filter Sizing Example;

If a compressor delivers 140 m³/min at 11 bar please choose your Filter model as follow:

140 m³/min / 1,22=114,8 m³/min your model is HF 7200.

NOTES

1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
4) Flow rates are based on a 7 bar operating Pressure, for flows at other. Pressures use correction factor given above.
5) All filters are suitable for use with mineral and synthetic oils.
6) Other standards for flanged connections are available.
7) Direction of air flow, inside to out, through filter element



High Efficiency, Long Equipment Life

Hertz Kompressoren compressed air filters are developed to offer maximum performance and reliability in industrial applications. It is user friendly with low pressure loss, high filtration efficiency and different connection options.

In sensitive applications **such as laser cutting**, dust and particles accumulated in optical components reduce the performance of the machines and cause malfunctions. Hertz Kompressoren filters prevent these accumulations, prolong equipment life and reduce maintenance costs.

Thanks to **deep pleating technology,** the enlarged filter surface provides higher dirt holding capacity. Equipped with special filter material, this system ensures clean, dry and safe air.

Offering Class 1 particle filtration according to the ISO 8573 standard, **ultra-particulate filters** improve final product quality and protect worker health in critical processes such as laser cutting.

Advantages

- Class 1 air quality in accordance with ISO 8573
- Low maintenance costs, long service life
- High dirt-holding capacity
- Energy-efficient operation
- Maximum protection in critical applications

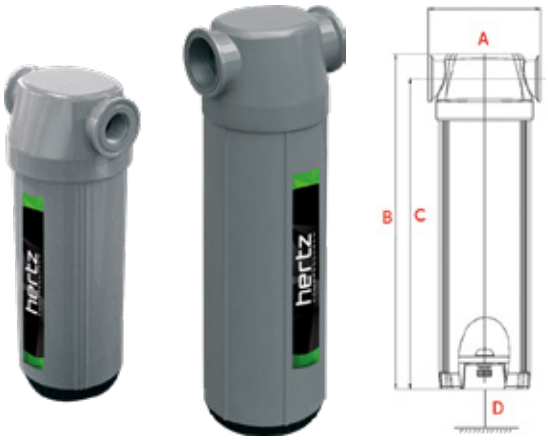
Model	Max. Operating Pressure		Recommended Flow Rate @7 barg		Inlet-Outlet Size
	bar	psi	m³/h	cfm	
UP-20	20	290	20	11,8	1/4" , 1/2"
UP-40	20	290	40	14,7	1/4" , 3/8" , 1/2"
UP-25	20	290	25	23,5	1/4" , 3/8" , 1/2"
UP-50	20	290	50	29,4	1/4" , 3/8" , 1/2"
UP-100	20	290	100	58,9	3/8" , 1/2"
UP-150	20	290	150	88,3	1/2" , 3/4" , 1"
UP-200	20	290	200	117	3/4" , 1"
UP-250	20	290	250	147	3/4" , 1"
UP-300	20	290	300	177	1" , 1 1/4" , 1 1/2"
UP-500	20	290	500	294	1 1/4" , 1 1/2"
UP-600	20	290	600	353	1 1/4" , 1 1/2"
UP-851	20	290	851	501	1 1/4" , 1 1/2" , 2"
UP-1210	20	290	1210	712	2"
UP-1520	20	290	1520	895	2 1/2" , 3"
UP-1820	20	290	1820	1071	3"
UP-2220	20	290	2220	1307	3"
UP-2620	20	290	2620	1542	3"

Model	Max. Operating Pressure		Recommended Flow Rate @7 barg		Inlet-Outlet Size
	bar	psi	m³/h	cfm	
UP-H-100	50	725	71	41,8	1/2''
UP-H-300	50	725	212	125	1/2''
UP-H-600	50	725	425	250	3/4''
UP-H-850	50	725	595	350	1''
UP-H-1200	50	725	850	500	1''
UP-H-1600	50	725	1600	942	1 1/2''
UP-H-2500	50	725	2500	1471	2''
UP-H-3000	50	725	2500	1471	2 1/2''

Hertz water separators are designed to remove liquid water and some particulates in compressed air at the compressor outlet. Their unique centrifugal effect separates heavier-than-air matter and the low pressure drop makes them energy-efficient.

Advantages

Hertz's HG WS water separators have 1/4" - 3" pipes for flow rates of 2200 m³/h. Line filters should be used to remove unwanted substances left in the compressed air after the extremely efficient water separators.



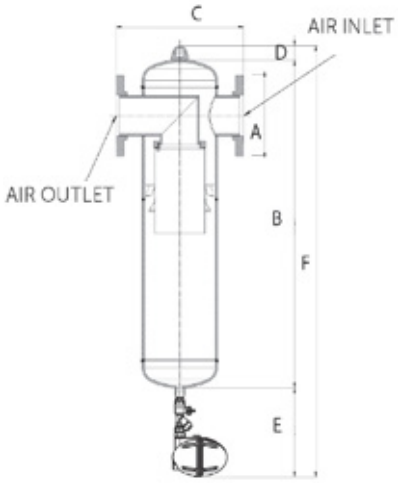
Model	Max. Pressure		Capacity		Connection Size	Dimensions (mm)			
	bar	psi	m³/min	cfm		A	B	C	D
HG 25 WS	16	232	0,4	15	G 1/4"	103	257,5	236	160
HG 100 WS	16	232	1,7	59	G 1/2"	103	257,5	236	210
HG 200 WS	16	232	3,3	118	G 3/4"	123	304	277	285
HG 300 WS	16	232	5,0	177	G 1"	123	304	277	380
HG 600 WS	16	232	10,0	353	G1 1/2"	123	320	285	470
HG 1200 WS	16	232	20,0	706	G 2"	160	484	443	560
HG 2200 WS	16	232	36,7	1295	G 3"	193	546	490	610

CORRECTION FACTORS FOR HG WS COMPRESSED AIR FILTER SERIES										
Operating Pressure (barg)	1	3	5	7	9	11	13	15	16	20
PSIG	15	44	73	100	131	160	189	218	232	290
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,57	1,63

Hertz water separators are designed to remove liquid water and some particulates in compressed air at the compressor outlet. Their unique centrifugal effect separates heavier-than-air matter and the low pressure drop makes them energy-efficient.

Advantages

HF WS models have 3" - 8" pipes for flow rates up to 14.000 m³/h. Line filters should be used to remove unwanted substances left in the compressed air after the extremely efficient water separators.



Model	Max. Pressure		Capacity		Connection Size	Dimensions (mm)					
	bar	psi	m³/min	cfm		A	B	C	D	E	F
HF 2500 WS	14	203	41,6	1471	DN80	200	934	450	75	280	1289
HF 3200 WS	14	203	53,3	1883	DN100	220	964	450	75	280	1319
HF 4300 WS	14	203	71,6	2531	DN100	220	928	530	75	280	1283
HF 6500 WS	14	203	108,3	3826	DN150	285	1092	580	75	280	1447
HF 8500 WS	14	203	141,6	5003	DN150	285	1091	650	75	280	1446
HF 11000 WS	14	203	183,3	6474	DN200	340	1168	750	75	280	1523
HF 14000 WS	14	203	233,3	8240	DN200	340	1201	800	75	280	1556

CORRECTION FACTORS FOR HF WS SERIES							
Operating Pressure (barg)	1	3	5	7	9	11	13
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32

Oil in aerosol form and oil mist lower the quality of the compressed air and can damage pneumatic equipment. The patented Carbolescer can eliminate both the aerosol and mist forms of oil.
It consists of a pleated separator layer, a carbon layer, and a particulate layer. The pleated separator layer removes the aerosol form of oil. When oily compressed air enters the unit, the oil droplets coalesce and run down the filter medium. The collected liquid oil is automatically drained off. The pleated separator filters out oil contaminants as small as 0.01 microns. In addition to the pleated separator, the activated carbon layer adsorbs oil mist. The oil mist is physically retained by the activated carbon granules and as a result, the oil content can be reduced to 0.003 ppm. The final particulate filter layer actively removes carbon dust and maintains the quality of the compressed air.

Advantages

- Very low pressure drops
- Remaining oil aerosol content no more than 0.003 ppm
- Equal air distribution
- Long service life
- User-friendly replacement procedure
- Oil indicator

MAX. OPERATING PRESSURE (16 BAR)								
OPERATING PRESSURE (BAR)	1	3	5	7	9	11	13	14
CORRECTION FACTOR	0,5	0,71	0,87	1	1,12	1,22	1,32	1,38

MAX. OPERATING PRESSURE (40 BAR)																	
OPERATING PRESSURE (BAR)	4,5	5	6	7	8	9	10	11	12	13	14	15	16	25	30	35	40
CORRECTION FACTOR	0,69	0,75	0,88	1	1,12	1,25	1,37	1,5	1,62	1,74	1,87	1,99	2,11	2,52	3	3,52	4

Model	Max. Remaining Oil Aerosol Content @ 21°C	Recommended Capacity @ 7 barg	Max. Operating Pressure	Connection Size Inlet-Outlet	Length	Height
	ppm	Nm³/h	barg		mm	mm
HELM-C G100-16	0,003	35	16	G 1/2"	102	302
HELM-C G150-16	0,003	45	16	G 1/2"	123	352
HELM-C G200-16	0,003	50	16	G 1"	123	412
HELM-C G250-16	0,003	70	16	G 1"	123	454
HELM-C G300-16	0,003	85	16	G 1 1/2"	123	507
HELM-C G500-16	0,003	100	16	G 1 1/2"	123	537
HELM-C G600-16	0,003	130	16	G 1 1/2"	123	583
HELM-C G850-16	0,003	170	16	G 1 1/2"	160	668
HELM-C G1210-16	0,003	200	16	G 2"	160	740
HELM-C F150-14	0,003	255	14	DN 50	500	1065
HELM-C F300-14	0,003	510	14	DN 50	500	1165
HELM-C F600-14	0,003	1020	14	DN 50	500	1523
HELM-C F800-14	0,003	1360	14	DN 80	500	1743
HELM-C F1200-14	0,003	2040	14	DN 80	600	1606
HELM-C F1600-14	0,003	2720	14	DN 80	600	1747
HELM-C F2100-14	0,003	3570	14	DN 100	700	1651
HELM-C F2750-14	0,003	4675	14	DN 100	700	1798
HELM-C F4200-14	0,003	7140	14	DN 150	800	1750
HELM-C F6000-14	0,003	10200	14	DN 150	800	1997
HELM-C F8000-14	0,003	13600	14	DN 200	850	2095
HELM-C F10000-14	0,003	17000	14	DN 250	1000	2208
HELM-C F12000-14	0,003	20400	14	DN 300	1000	2775

Model	Max. Remaining Oil Aerosol Content @ 21°C	Recommended Capacity @ 7 barg	Max. Operating Pressure	Connection Size Inlet-Outlet	Length	Height
	ppm	Nm³/h	barg		mm	mm
HELM-C G15-50	0,003	85	50	DN 15	120	200
HELM-C G25-50	0,003	170	50	DN 25	140	360
HELM-C G50-50	0,003	340	50	DN 50	140	360
HELM-C G75-50	0,003	510	50	DN 75	140	360
HELM-C G100-50	0,003	680	50	DN 100	180	380
HELM-C G125-50	0,003	850	50	DN 125	180	380
HELM-C F150-40	0,003	1020	40	DN 50	500	1065
HELM-C F300-40	0,003	2040	40	DN 50	500	1165
HELM-C F600-40	0,003	4080	40	DN 50	500	1523
HELM-C F800-40	0,003	5440	40	DN 80	500	1743
HELM-C F1200-40	0,003	8160	40	DN 80	600	1606
HELM-C F1600-40	0,003	10880	40	DN 80	600	1747
HELM-C F2100-40	0,003	14280	40	DN 100	700	1651
HELM-C F2750-40	0,003	18700	40	DN 100	700	1798
HELM-C F4200-40	0,003	28560	40	DN 150	800	1750
HELM-C F6000-40	0,003	40800	40	DN 150	800	1997
HELM-C F8000-40	0,003	54400	40	DN 200	850	2095
HELM-C F10000-40	0,003	68000	40	DN 250	1000	2208
HELM-C F12000-40	0,003	81600	40	DN 300	1000	2775

Air tanks are used for storage in compressed air systems. They prevent pressure fluctuations in the system and eliminate inefficiencies especially in fix speed compressor applications.

Advantages

- They allow the system to respond quickly to high and sudden consumption
- A key component of compressed air systems
- Storage function
- Reduces system pressure fluctuations
- Increases efficiency
- Galvanized and stainless steel options
- Energy saving
- Highly durable with a long service life

Model	Volume	Pressure	Configuration	Dimensions (mm)		Connection Inlet / Outlet
	L	bar		Diameter	Height	
HAR 100	100	10	VERTICAL	324	1564	G 1"
		15	VERTICAL	324	1564	G 1"
HAR 200	200	10	VERTICAL	450	1618	G 1"
		15	VERTICAL	450	1618	G 1"
HAR 300	300	10	VERTICAL	450	1918	G ¾"
		15	VERTICAL	450	1918	G ¾"
		40	VERTICAL	450	2012	G 1"
HAR 500	500	10	VERTICAL	642	1980	G 1"
		15	VERTICAL	642	1970	G 1"
		40	VERTICAL	642	2083	G 1 ¼"
HAR 900	900	10	VERTICAL	800	2120	G 1 ½"
HAR 1000	1000	10	VERTICAL	850	2120	G 1 ½"
		15	VERTICAL	850	2120	G 1 ½"
		40	VERTICAL	850	2120	G 1 ½"
HAR 1800	1800	10	VERTICAL	1150	2150	G 2"
		15	VERTICAL	1150	2150	G 2"
HAR 2000	2000	10	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1150	2240	G 2"
HAR 3000	3000	10	VERTICAL	1400	2370	G 2 ½"
		15	VERTICAL	1400	2370	G 2 ½"
HAR 4000	4000	10	VERTICAL	1400	3120	G 3"
		15	VERTICAL	1400	3120	G 3"
HAR 5000	5000	10	VERTICAL	1400	3870	G 3"
		15	VERTICAL	1400	3870	G 3"
HAR 6000	6000	10	VERTICAL	1500	3930	G 3"
		15	VERTICAL	1500	3930	G 3"
HAR 8000	8000	10	VERTICAL	1750	4040	DN100
		15	VERTICAL	1750	4040	DN100
HAR 10000	10000	10	VERTICAL	1900	4100	DN100
		15	VERTICAL	1900	4100	DN100

NITROGEN AND OXYGEN GENERATORS

HNG MOD - Modular Nitrogen Generators 44

HNG - Nitrogen Generators 46

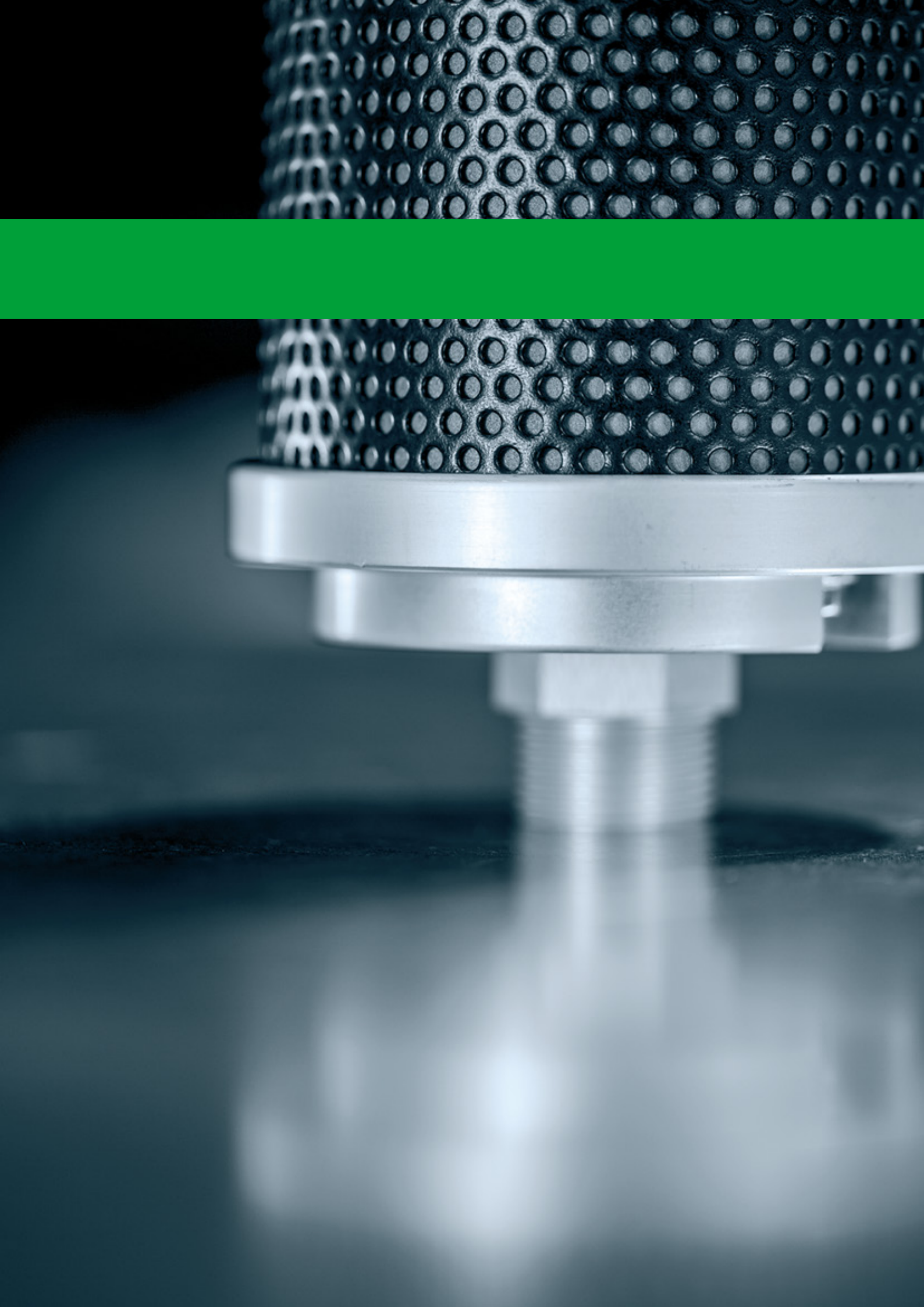
HNIT - Nitrogen Generators 48

HDX - Nitrogen Purifier Systems 50

HCX - Nitrogen Purifier 52

HOX - Oxygen Generators 54

HO2 - Oxygen Generators 56



Nitrogen is separated from oxygen and enriched with the Carbon Molecular Sieve (CMS) adsorbent used in Hertz Pressure Swing Adsorption (PSA) type Nitrogen generators. Carbon Molecular Sieve (CMS) allows nitrogen to pass through the line by adsorbing oxygen and water vapor molecules under a certain pressure.
Hertz nitrogen generator has a compact structure through multiple modules filled with Carbon Molecular Sieve.

Clean and dry air is directed to the modules in a sequential manner for the adsorption process.
The Carbon Molecular Sieve (CMS) in the modules adsorbs oxygen and water vapor molecules and keeps them in its pores, allowing nitrogen molecules to pass through. Thus, nitrogen gas is produced (purity levels can be between 95-99.999% depending on the areas of use and customer expectations).

Advantages

- Compact design, full automated operation
- Replaces manifold usage
- New design silencer that operates at lower noise levels during pressurization and purge
- High performance
- The purity and capacity of nitrogen gas is designed to meet customer requirements (Nitrogen Purity 95%~99.999% is available)
- Durable piston valves for long-life operation
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption
- High-sensitive sensor technologies
- Effective integrated filtration

Standard

- Nitrogen Modules
- Silencer
- Mini PLC
- Manometers
- Pressure Transmitter
- ECO Mod
- T Filter
- Piston Valves
- Valve Control Regulator

Optional

- Dew Point Sensor Kit
- Flowmeter Kit
- Oxygen Analyzer Kit
- 3-Way By-Pass Valve Kit
- HMI Color Touch Screen PLC
- Buffer Tank
- Oil Indicator

Model	Free Nitrogen Delivery @ following purity level (Nm³/h)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,995%	99,999%
HNG MOD 20	3	2,7	2,3	2	1,4	1,2	1,1	0,5	0,4	0,3
HNG MOD 40	4,9	4,4	3,8	3,2	2,9	1,9	1,8	0,8	0,8	0,5
HNG MOD 70	9	8,1	6,9	5,9	5	3,6	3,3	1,5	1,4	0,9
HNG MOD 123	15	13,4	11,6	9,8	8,6	5,9	5,5	2,6	2,4	1,5
HNG MOD 210	25,9	23,1	19,9	16,9	14,9	10,2	9,4	4,4	4,2	2,6
HNG MOD 285	34,5	30,9	26,6	22,6	19,9	13,6	12,6	5,9	5,6	3,5
HNG MOD 340	42,3	37,8	32,6	27,6	24,4	16,7	15,4	7,2	6,8	4,3
HNG MOD 555	67,3	60,2	51,8	44	38,8	26,5	24,5	11,5	10,8	6,8
HNG MOD 735	89	79,6	68,5	58,2	51,4	35,1	32,4	15,2	14,4	9
HNG MOD 990	120,3	107,6	92,6	78,6	69,5	47,4	43,8	20,6	19,4	12,2
HNG MOD 1130	137,8	123,3	106,1	90,1	79,6	54,3	50,2	23,6	22,2	14
HNG MOD 1260	153	136,9	117,8	100	88,4	60,3	55,7	26,2	24,7	15,5
HNG MOD 1650	200,3	179,2	154,2	130,9	115,7	78,9	72,9	34,3	32,3	20,3

Ambient Temperature (ºC)	Correction Factor (Kt)
5	0,85
10	1
15	1
20	1
25	1
30	0,91
35	0,82
40	0,74
45	0,60

Inlet Pressure (Barg)	Correction Factor (Kp)
5	0,68
5,5	0,73
6	0,79
6,5	0,88
7	0,90
7,5	1
8	1,04
8,5	1,08
9	1,15
9,5	1,18
10	1,2

Purity (%)	Air / Nitrogen Ratio
95	1,6
97	1,6
98	1,7
99	2,1
99,5	2,4
99,9	2,8
99,95	2,9
99,99	4,8
99,995	5,8
99,999	7,4

Correction Formula: Nitrogen Delivery = Air Delivery Capacity of the Compressors / Air-Nitrogen Ratio / Kt / Kp

Nitrogen is separated from oxygen and enriched with the Carbon Molecular Sieve (CMS) adsorbent used in Hertz Pressure Swing Adsorption (PSA) type Nitrogen generators. Carbon Molecular Sieve (CMS) allows nitrogen to pass through the line by adsorbing oxygen and water vapor molecules under a certain pressure.
Nitrogen Generator produces nitrogen gas through two adsorption tanks filled with Carbon Molecular Sieve (CMS).

Clean and dry air is directed to one of the tanks in a sequential manner for the adsorption process. The Carbon Molecular Sieve (CMS) in the tank adsorbs oxygen and water vapor molecules and keeps them in its pores, allowing nitrogen molecules to pass through. Thus, nitrogen gas is produced (Purity levels can be between 95-99.999% depending on the areas of use and customer expectations).

Advantages

- Compact design, full automated operations
- Replaces manifold usage
- Touch Screen PLC for controlling the complete system
- New design silencer that operates at lower noise levels during pressurization and purge
- Durable piston valves for long-life operation
- The purity and capacity of nitrogen gas is designed to meet customer requirements
  (Nitrogen Purity 95%~99.999% is available)
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption

Standard

- Nitrogen Tanks
- Silencer
- Mini PLC
- Tank Manometers
- Pressure Transmitter
- T Filter
- Piston Valves
- Valve Control Regulator

Optional

- Dew Point Sensor Kit
- Flowmeter Kit
- Oxygen Analyzer Kit
- 3-Way By-Pass Valve Kit
- HMI Color Touch Screen PLC
- Buffer Tank
- Oil Indicator

Model	Free Nitrogen Delivery @ following purity level (Nm³/h)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,995%	99,999%
HNG 140	32,1	26,7	24,6	16,9	13,7	10,6	9,7	5,2	4,1	3,1
HNG 185	42,8	35,7	32,8	22,5	18,3	14,1	12,9	7,0	5,4	4,1
HNG 225	52,4	43,7	40,2	27,6	22,5	17,3	15,8	8,5	6,7	5,0
HNG 360	83,4	69,5	63,9	43,8	35,7	27,5	25,1	13,6	10,6	8,0
HNG 475	110,4	92,0	84,6	58,0	47,3	36,4	33,2	18,0	14,0	10,6
HNG 640	149,2	124,4	114,3	78,4	63,9	49,2	44,9	24,3	19,0	14,3
HNG 700	170,9	142,4	130,9	89,8	73,2	56,4	51,4	27,8	21,7	16,4
HNG 810	189,8	158,2	145,4	99,7	81,3	62,6	57,1	30,9	24,1	18,2
HNG 1065	248,4	207,1	190,3	130,5	106,4	82,0	74,7	40,5	31,6	23,8
HNG 1300	303,8	253,3	232,8	159,7	130,1	100,3	91,4	49,5	38,6	29,2
HNG 1580	369,4	307,9	283,0	194,1	158,2	121,9	111,2	60,2	46,9	35,5
HNG 1750	407,5	339,7	312,1	214,1	174,5	134,5	122,6	66,4	51,8	39,1
HNG 1940	451,5	376,4	345,9	237,3	193,4	149,0	135,9	73,6	57,4	43,3
HNG 2610	610,5	508,9	467,7	320,8	261,5	201,5	183,7	99,5	77,6	58,6
HNG 3050	711,9	593,5	545,4	374,2	304,9	234,9	214,4	116,0	90,5	68,4
HNG 3660	853,4	711,5	653,8	448,5	365,5	281,6	256,8	139,1	108,5	81,9
HNG 4500	1052,7	877,6	806,4	553,2	450,9	347,4	316,8	171,5	133,8	101,1
HNG 5290	1233,7	1028,5	945,1	648,4	528,4	407,1	371,3	201,0	156,8	118,4
HNG 6100	1422,6	1186	1089,8	747,7	609,3	469,5	428,1	231,8	180,8	136,6
HNG 7340	1712,5	1427,7	1311,9	900	733,5	565,2	515,4	279,0	217,7	164,5
HNG 9060	2113,8	1762,2	1619,4	1111	905,4	697,6	636,2	344,4	268,6	202,9
HNG 10780	2514,7	2096,4	1926,5	1321,7	1077,1	829,9	756,8	409,7	319,6	241,4
HNG 12100	2824,6	2354,6	2163,7	1484,4	1209,7	932,1	850	460,2	359,0	271,1
HNG 14780	3449,7	2875,9	2643,3	1813	1477,5	1138,5	1038,2	562,1	438,4	331,2

Ambient Temperature (ºC)	Correction Factor (Kt)
5	0,85
10	1
15	1
20	1
25	1
30	0,91
35	0,82
40	0,74
45	0,60

Inlet Pressure (Barg)	Correction Factor (Kp)
5	0,68
5,5	0,73
6	0,79
6,5	0,88
7	0,90
7,5	1
8	1,04
8,5	1,08
9	1,15

Purity (%)	Air / Nitrogen Ratio
95	1,4
97	1,6
98	1,6
99	2,1
99,5	2,4
99,9	2,8
99,95	2,9
99,99	4,6
99,995	5,8
99,999	7,2

Correction Formula: Nitrogen Delivery = Air Delivery Capacity of the Compressors / Air-Nitrogen Ratio / Kt / Kp

Thanks to the PSA technology utilized by Hertz nitrogen generators, you can produce nitrogen gas with up to 99.999% purity within the capacity range of 0.5-5000 Nm³/h.

These generators produce nitrogen from the compressed air available. The compressed air is cleaned by pre-filtration which eliminates impurities, such as humidity, oil vapours, particles and hydrocarbons.

The filrated compressed air is directed to two CMS filled columns. While the compressed air is passing through the generator, the oxygen and carbon dioxide molecules are removed and the pressure dew point is lowered. The generated nitrogen gas is clean, dry and of high purity so that it can be used for a wide variety of applications.

The parameters such as compressed air temperature, pressure, nitrogen purity and nitrogen pressure are all monitored continuously. Hertz nitrogen generators guarantee sustainable and high efficiency production.

Advantages

- Stainless steel pipes and process valves
- Zirconia oxygen sensor
- Outlet pressure sensor
- Visual & Audio alarm for low purity
- Visual & Audio alarm for low pressure
- Visual alarm for periodical maintenance
- Automatic start/stop
- Outlet nitrogen regulator
- Outlet nitrogen needle valve
- Advanced energy saving kit
- Siemens S/ 1200 PLC

Model	Free Nitrogen Delivery @ Folowing Purity Level (Nm³/h)								
	95,00%	97,00%	98,00%	99,00%	99,50%	99,90%	99,99%	99,995%	99,999%
HNIT 25	6,2	5,4	4,8	3,9	3,1	2,2	1,5	1,1	0,9
HNIT 50	12	9,9	9	7	5,8	4	2,2	1,9	1,5
HNIT 80	19	15	13,5	10,5	9,5	6	3,3	2,7	2,2
HNIT 100	27	21	19	15	12,5	8,5	4,5	3,5	2,9
HNIT 150	34	30	27,5	22	18	12	8,5	6,4	4,7
HNIT 250	55	45	39,5	31	27,5	19	12	10	7,5
HNIT 400	90	66	59,5	52	46	31,5	20	17	11
HNIT 500	112	90	82	70	58	45	29,5	24,5	19
HNIT 700	148	122	103	84	75	55,5	38	29	24,5
HNIT 1000	219	178	154	118	102	76	48	40,5	31
HNIT 1200	266	219	194	150	130	97	63	54	44,5
HNIT 1700	381	320	290	220	183	139	85	74	63
HNIT 2000	446	372	325	255	222	164	105	91	72
HNIT 3000	638	530	464	371	326	241	151	124	99
HNIT 4000	920	760	660	515	440	328	207	178	140
HNIT 5500	1170	955	840	650	599	427	263	208	172
HNIT 6500	1380	1140	990	755	655	485	299	242	197
HNIT 7500	1600	1325	1160	880	750	565	347	289	229
HNIT 8500	1830	1515	1325	1000	850	625	388	325	250
HNIT 10000	2150	1790	1550	1200	1000	740	445	360	282
HNIT 12500	2400	2125	1790	1380	1200	845	535	405	313

CMS Temperature (°C) - Correction Factor (Kt)									
Temperature °C	10	15	20	25	30	35	40	45	50
Correction Factor	1	1	1	1	0,94	0,86	0,81	0,77	0,72

Inlet Pressure (Barg) - Correction Factor (Kp)									
Pressure (bar[g])	6	6,5	7	7,5	8	8,5	9	9,5	10
Correction Factor	0,9	0,95	1	1,02	1,05	1,09	1,12	1,14	1,15

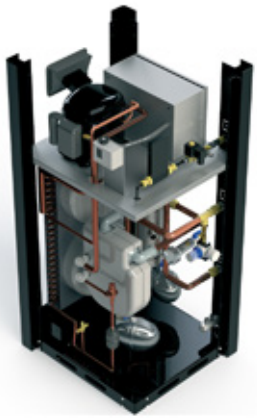
Purity (%) – Air / Nitrogen Ratio									
Purity (%)	95	97	98	99	99,5	99,9	99,99	99,995	99,999
Air/Nitrogen Ratio	1,9	2,1	2,3	2,6	2,9	3,28	4,61	5,11	6,59

Pressure Drop (Air Inlet - Generator Outlet)						
Purity (%)	95	97	98	99	99,5	99,9 - 99,999
Pressure (bar[g])	1,5	1,5	1,25	1,25	1	1

Hertz's brand new HDX Nitrogen Treatment System offers an extremely economic means of increasing the required nitrogen purity beyond 99.9% to 99.999%.
The HDX Series uses a specially designed catalyst with a large surface area to increase nitrogen purity. The oxygen left on the catalyst surface after the reaction is reduced to no more than 10 ppm.
HDX Nitrogen Treatment Devices when used in conjunction with Nitrogen Generator System use small amounts of hydrogen to prevent compressed air loss and deliver very pure nitrogen. This system delivers very pure nitrogen while keeping power consumption to a minimum.

Advantages

- Short payback period
- Small footprint
- Long-lasting efficiency (> 10 years)
- Best quality high-performance solutions
- Investing in a lower capacity HDX system instead of a higher capacity HNG system for the same purity of nitrogen reduces costs and saves on energy
- Up to 99.999% nitrogen purity with minimum space and energy requirements
- Low energy consumption
- Low CO_2 emissions
- Heavy-duty build designed for hard conditions and industrial use
- High-quality and durable components
- System produces minimum 99.999% pure nitrogen with a very low air/nitrogen ratio (3.0 instead of 8.4).
- Compact design, fully automated system
- 24/7 nitrogen production at the desired purity
- High energy savings
- Low-cost and special production
- Minimum maintenance costs



Working Principle

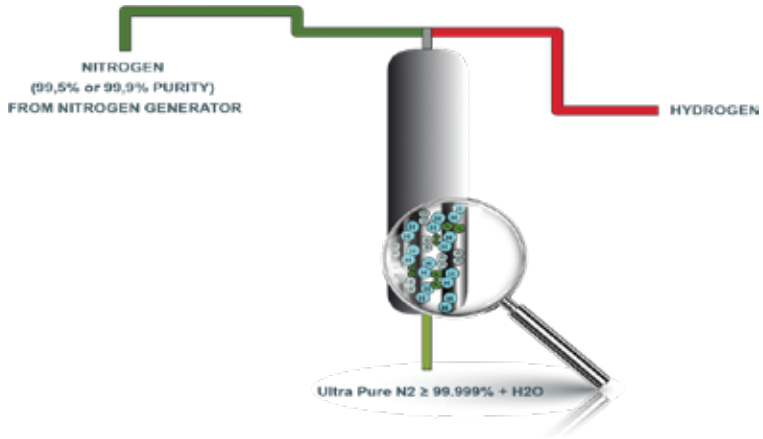
Compared with existing applications, Hertz's compact designed Nitrogen Treatment System can take nitrogen produced at 99.9% purity and convert it to 99.999% pure nitrogen while delivering considerable energy savings in nitrogen production costs.

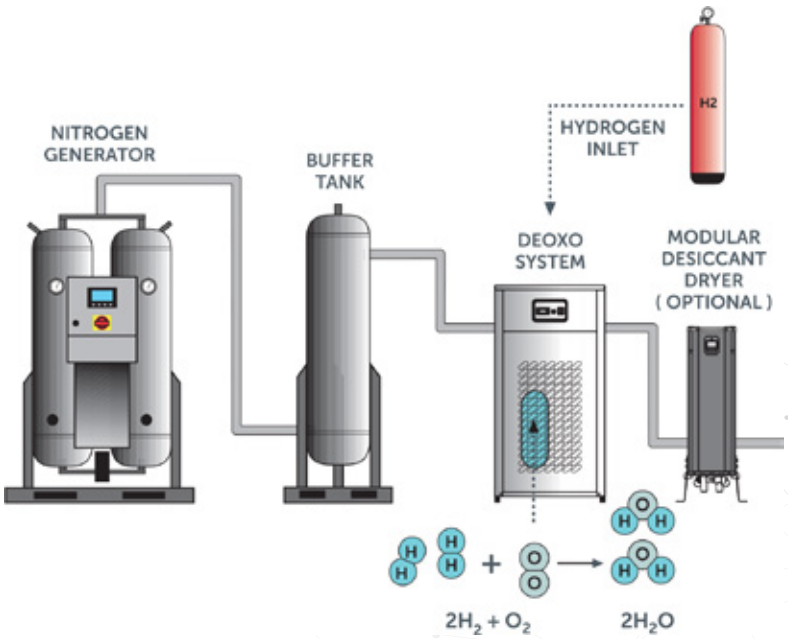
The system uses a catalytic reaction to remove the oxygen left over from the HNG generator from the PSA Nitrogen Generator outlet by utilizing the reaction between the residual oxygen and hydrogen to produce 99.999% pure nitrogen. The only by-product of this catalytic reaction is water.

The low cost of the hydrogen needed for the reaction results in considerable long-term savings.
In fact, this newly developed nitrogen purifier lets you produce extremely pure nitrogen using lower capacity air compressors and equipment.

As the reaction increases the temperature of the nitrogen, the HDX Nitrogen Purifying System is integrated into a High-Temperature Air Dryer, combining two products in a single unit for a complete solution.

Model	N_2 Flow at 99.999% Purity (m^3/h)
HDX 10	1
HDX 20	2
HDX 35	3,5
HDX 60	6
HDX 95	10,4
HDX 120	13,9
HDX 150	17
HDX 250	27,1
HDX 330	35,8
HDX 450	48,4
HDX 510	55,5
HDX 570	61,6
HDX 730	80,6
HDX 910	98,6
HDX 1110	119,9
HDX 1230	132,3
HDX 1370	146,6
HDX 1820	198,2
HDX 2050	231,1
HDX 2550	277,1
HDX 2950	341,8
HDX 3540	400,5
HDX 4160	461,9
HDX 5560	556
HDX 6050	686,3
HDX 7500	816,4
HDX 9170	917
HDX 11200	1120





Most PSA Nitrogen Generator users require the highest levels of nitrogen purity by the most cost-effective means possible.
Hertz HCX Nitrogen Purifier System offers an extremely economic way to increase nitrogen purity levels beyond 99.9% all the way up to 99.9999% purity.
HCX is the true add-on technology for Nitrogen Generation applications requiring 1-5 ppm ultra high purity.
HCX can easily be integrated with already existing Nitrogen Generator System (free from brand) resulting in high purity nitrogen gas at minimum costs.

Advantages

- Easily integration with any brand of nitrogen generator
- Power savings up to 50%
- Reduced compressed air consumption
- More effective pay-back time compared to the HCX-free system
- Class 6.0 quality highest purity nitrogen
- Auto purity control system
- Easy maintenance - compact design
- Minimized installation area
- Cost-effective through low operating costs

How it works?

The nitrogen gas obtained from a nitrogen generator is enriched with a minimum amount of hydrogen before it passes into the catalyst. The hydrogen reacts with the residual oxygen of the nitrogen, the chemical reaction being water vapor and heat, which are removed by filtration & drying.

Thanks to our innovative HCX system you can produce ultra-pure nitrogen with smaller air compressors.

Properties

- Fast start-up time
- Inlet and outlet N_2 purity control
- Inlet and outlet N_2 pressure sensors
- N_2 inlet flow (m^3/h) and N_2 total volume (m^3) monitoring
- N_2 outlet dew point (°C)
- H_2 Inlet flow (l/h) and H^2 total volume (liters)
- HCX reactor temperature sensor (°C)
- HCX reactor with auto-heater & insulation
- Working hours counter
- Remote control and monitoring
- Industry 4.0

Model	Nitrogen Purity (%)	Capacity (Nm^3/min)	Power Consumption (kW/h)	Voltage	Noise Level dB(A)
HCX 20	99,9999	0,41	20	230/1/50	55-85
HCX 40	99,9999	0,66	28	230/1/50	55-85
HCX 60	99,9999	0,83	35	230/1/50	55-85
HCX 80	99,9999	1,33	51	230/1/50	55-85
HCX 100	99,9999	1,58	60	230/1/50	55-85
HCX 150	99,9999	2,33	90	230/1/50	55-85

Hertz Kompressoren Oxygen Generators utilize Pressure Swing Adsorption (PSA) technology to separate nitrogen, water vapor, and hydrocarbons from ambient air using advanced zeolite molecular sieves, delivering oxygen with high purity. In the dual-bed system, one bed captures unwanted gases while the other undergoes regeneration, enabling uninterrupted and continuous oxygen production. The produced oxygen is stored in dedicated buffer tanks and supplied to the user with up to 95% purity, ensuring reliability and consistency. Thanks to specially engineered high-performance zeolite granules, the system offers both efficient operation and a durable oxygen generation solution.

Advantages

- On-demand oxygen production at 90–95% purity with high capacity
- Quick start-up capability
- Quiet operation with extremely low outlet noise levels
- Long service life thanks to special zeolite granules
- Low maintenance cost

Standard

- Oxygen Tanks
- Silencer
- Mini PLC
- Pressure Transmitter
- Particle Filter*
- Tank Manometers
- ECO Mode
- Valve Control Regulator
- Piston Valves

*Replace filter elements periodically, and get normal service for the compressor.

Optional

- Carbolescer
- Touch Screen PLC
- Oil Indicator
- Flowmeter
- Dew Point Sensor
- Oxygen Analyzer

Oxygen Production Steps with PSA Technology

- **Pressurization:** By compressing air into the tank, the desired oxygen pressure is achieved.
- Adsorption: Zeolite molecular sieves allow oxygen to pass through under high pressure while retaining nitrogen and other gases.
- **Regeneration:** By reducing the tank pressure, the saturated zeolite molecules are released and made ready for reuse.
- **Pressure Equalization:** After the regeneration cycle, the valve is opened to equalize the pressure between the two tanks, minimizing energy loss.

Model	Air Demand @ Following Purity Level						Free Oxygen Delivery @ Following Purity Level					
	90%		93%		95%		90%		93%		95%	
	m³/h	cfm	m³/h	cfm	m³/h	cfm	m³/h	cfm	m³/h	cfm	m³/h	cfm
HOX-25	2,79	1,64	2,73	1,61	2,76	1,62	0,25	0,15	0,23	0,14	0,21	0,12
HOX-40	4,66	2,74	4,54	2,67	4,61	2,71	0,42	0,47	0,38	0,22	0,35	0,21
HOX-70	8,38	4,93	8,18	4,82	8,29	4,88	0,76	0,45	0,68	0,4	0,64	0,38
HOX-120	14,29	8,41	13,94	8,21	14,13	8,32	1,3	0,77	1,16	0,68	1,09	0,64
HOX-140	17,15	10,1	16,73	9,85	16,95	9,98	1,56	0,92	1,39	0,82	1,3	0,77
HOX-175	21,44	12,62	20,91	12,31	21,19	12,47	1,95	1,15	1,74	1,02	1,63	0,96
HOX-240	28,58	16,81	27,88	16,4	28,26	16,62	2,6	1,53	2,32	1,36	2,17	1,28
HOX-380	46,1	27,13	44,97	26,45	45,57	26,83	4,19	2,46	3,75	2,21	3,51	2,07
HOX-530	64,20	37,78	62,63	36,87	63,47	37,37	5,84	3,44	5,22	3,07	4,88	2,87
HOX-660	80,67	47,46	78,69	46,3	79,75	46,95	7,33	4,32	6,56	3,86	6,13	3,61
HOX-800	98,78	58,13	96,36	56,69	97,65	57,45	8,98	5,29	8,03	4,73	7,51	4,42
HOX-970	118,5	69,7	115,6	68,1	117,2	69	10,8	6,34	9,64	5,67	9,01	5,3
HOX-1210	148,2	87,3	144,5	85,1	146,5	86,2	13,5	7,93	12,04	7,09	11,27	6,63
HOX-1900	233	137	227,3	133,7	230,3	135,6	21,18	12,46	18,94	11,15	17,72	10,43
HOX-2310	283,3	166,6	276,3	162,7	280	164,8	25,75	15,16	23,03	13,56	21,54	12,68
HOX-2850	346,2	203,8	337,8	198,8	342,3	201,5	31,48	18,52	28,15	16,57	26,33	15,49
HOX-3810	468,1	275,6	456,7	268,9	462,8	272,3	42,56	25,04	38,06	22,4	35,6	20,95
HOX-4440	545,9	321,2	532,6	313,3	539,7	317,7	49,63	29,22	44,38	26,11	41,52	24,45
HOX-5350	654,4	385,4	638,4	375,7	647	380,9	59,5	35,03	53,2	31,31	49,77	29,28
HOX-6570	807,2	475,1	787,5	463,3	798,1	469,7	73,38	43,23	65,62	38,62	61,39	36,14
HOX-7700	946	556,8	922,9	543,2	935,3	550,4	86	50,62	76,91	45,28	71,95	42,34
HOX-9050	1109	652,7	1082	636,9	1097	645,4	100,8	59,3	90,19	53,07	84,37	49,66
HOX-13200	1621	953,9	1581	930,9	1603	942,7	147,3	86,8	131,8	77,5	123,3	72,5
HOX-15700	1928	1135	1881	1107	1906	1122	175,3	103,2	156,8	92,2	146,7	86,4
HOX-17700	2166	1275	2113	1244	2141	1260	196,9	115,9	176,1	103,6	164,7	97
HOX-21600	2646	1558	2581	1518	2616	1540	240,5	141,5	215,1	126,6	201,2	118,4

Inlet Temperature (°C)	10	15	20	25	30	35	40	45	-
F1	1	1	1	1	0,91	0,82	0,74	0,6	-
Inlet Pressure (bar)	6	6,5	7	7,5	8	8,5	9	9,5	10
F2	1	1	1	1	1,05	1,11	1,17	1,25	1,33

Correction Factor

To determine the oxygen generator model in the reference conditions, divide the oxygen flow rate to the related factors value.

Correct Model= (Oxygen Flow Rate) / (F1) / (F2)

Thanks to the PSA technology utilized by Hertz Oxygen Generators, you can produce oxygen gas with up to 95 % purity within the capacity range of 0.5-2000 Nm³/h.

These generators produce oxygen from the compressed air available. The compressed air is cleaned by pre-filtration which eliminates impurities, such as humidity, oil vapours, particles and hydrocarbons.

The filtrated compressed air is directed to ozolite filled columns. While the compressed air is passing through the generator, the nitrogen and carbon dioxide molecules are removed and the pressure dew point is lowered. The generated oxygen gas is clean, dry and of high purity so that it can be used for a wide variety of applications.

The parameters such as compressed air temperature, pressure, oxygen purity and oxygen pressure are all monitored continuously. Hertz oxygen generators guarantee sustainable and high efficiency production.

Pneumatic valves that ensure regular flow of air and oxygen during the process are manufactured from AISI 316L noncorrosive material. Owing to its long operation life, it provides problem free production for long years. Moreover, 316L stainless steel valves no need for maintenances.

Advantages

- Consistently high purity guaranteed
- Low compressed air consumption and maintenance costs
- Ease of use and maintenance
- Siemens S/1200 PLC
- Instant monitoring and recording of parameters such as purity, pressure, flow rate on the screen
- Visual and audio alarms for various parameters
- Remote control
- Fully automatic operation

Model	Free Oxygen Delivery @ Folowing Purity Level					
	90%		93%		95%	
	m³/h	cfm	m³/h	cfm	m³/h	cfm
HO2 10	0,8	0,47	0,7	0,41	0,6	0,35
HO2 20	1,4	0,82	1,2	0,71	1	0,59
HO2 30	2,6	1,53	2,4	1,41	2,1	1,24
HO2 40	3,8	2,24	3,5	2,06	3,2	1,88
HO2 60	5,6	3,3	5,1	3	4,5	2,65
HO2 100	9,8	5,77	8,5	5	8	4,71
HO2 120	12,5	7,36	11,5	6,77	10	5,89
HO2 150	15	8,83	13,5	7,94	12,3	7,24
HO2 200	20	11,77	17	10	16	9,42
HO2 300	30	17,66	26,9	15,83	25	14,71
HO2 400	42	24,72	38	22,36	35	20,6
HO2 600	60	35,31	55	32,37	50	29,43
HO2 800	80	47,08	73,5	43,25	67	39,43
HO2 1000	105	61,79	95	55,91	90	52,97
HO2 1400	140	82,39	125	73,56	110	64,74
HO2 1500	155	91,22	140	82,39	128	75,33
HO2 2000	195	114,76	176	103,58	160	94,16
HO2 2500	245	144,18	225	132,41	205	120,64
HO2 3000	295	173,61	265	155,95	245	144,18
HO2 4000	390	229,52	355	208,92	325	191,26

CMS CORRECTION FACTORS									
Temperature °C	10	15	20	25	30	35	40	45	50
Correction Factor	1	1	1	1	0,94	0,86	0,81	0,77	0,72

AIR INLET FACTORS				
Pressure (bar[g])	6	6,5	7	7,5
Correction Factor	0,9	0,95	1	1

AIR FACTORS			
Purity (%)	90	93	95
Air/Oxygen Ratio	11,5	12	12

PRESSURE DROP (AİR INLET - GENERATOR OUTLET)			
Purity (%)	90	93	95
Pressure (bar[g])	1,5	1,5	2

CHILLER AND COOLING TOWER

HCH - Process Water Chiller 60

HCT - Water Cooling Tower 62

Process water chillers meet the needs of many applications by cooling the process liquid, with maximum quality and cleanliness, even under harsh operating conditions. Manufactured to the highest quality and safety standards, the new HCH Series chillers are reliable, compact and robust, suitable for a wide range of industrial applications. In addition to easy operation, HCH Series chillers provide accurate control of water temperature.

Key Features

- Closed circuit
- Refrigerant control management
- EC fan motor, fan speed control
- Microchannel aluminium condenser
- Hermetic scroll compressor
- Thermostatic expansion valve
- R410a (R454b Optional) refrigerant
- High and low pressure gauge
- Process water pressure gauge
- Stainless steel water pump and brazed plate heat exchanger
- Storage tank
- Low ambient temperature option
- High corrosive environments option
- Heater for storage tank option

Advantages of Closed Circuit

- Highly accurate water temperature control regardless of external conditions
- Maintain consistent operating conditions by responding immediately to sudden changes
- Continuous use of the same water
- Reduced maintenance and downtime costs
- High ambient temperature operating conditions

Water Circuit - Main Components

- **Expansion Tank:** An expansion tank is used on the water storage tank so that the pressure does not increase.
- **Integrated Cold Storage Tank:** The cold water storage tank is heat insulated and made of carbon steel material.
- **Integrated Water Pump - 3 bar:** The high capacity centrifugal pump has a stainless steel housing.
- **Large Water Storage Tank:** The heat exchanger is located just behind the water outlet to limit temperature fluctuations during sudden load changes. The large dimensions of the tank ensure constant water temperatures.

Model	Nominal Cooling Capacity		Fan Airflow* (m^3/min)	Pump Pressure* (bar)	Pump Input Power* (kW)	Voltage (V/ph/Hz)	Dimensions (mm)			Refrigerant Type
	kW	kcal/h					Length	Width	Height	
HCH 7	6,5	5615	40	3,19	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 9	8,5	7326	40	3,29	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 15	15	12898	77	3,6	0,75	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 20	19,6	16810	77	3,56	1,1	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 29	29	24936	133	3,19	1,1	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
HCH 34	33,8	29063	133	3,66	1,5	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
HCH 41	40,5	34824	150	3,45	1,5	400V / 3 Ph / 50 Hz	1469	887	1618	R410A or R454B
HCH 50	49,8	42820	247	3,14	1,5	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
HCH 65	64,5	55460	247	3,49	2,2	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
HCH 80	80,2	68960	333	3,21	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
HCH 92	92,1	79192	333	3,02	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
HCH 100	99,6	85641	383	3,4	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 114	114,3	98280	400	3,07	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 129	129	110920	533	3,28	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 145	144,7	124420	533	3,06	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 160	160,4	137919	600	2,92	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 186	186,2	160103	717	3,35	5,5	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 212	212	182287	800	3,05	5,5	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B

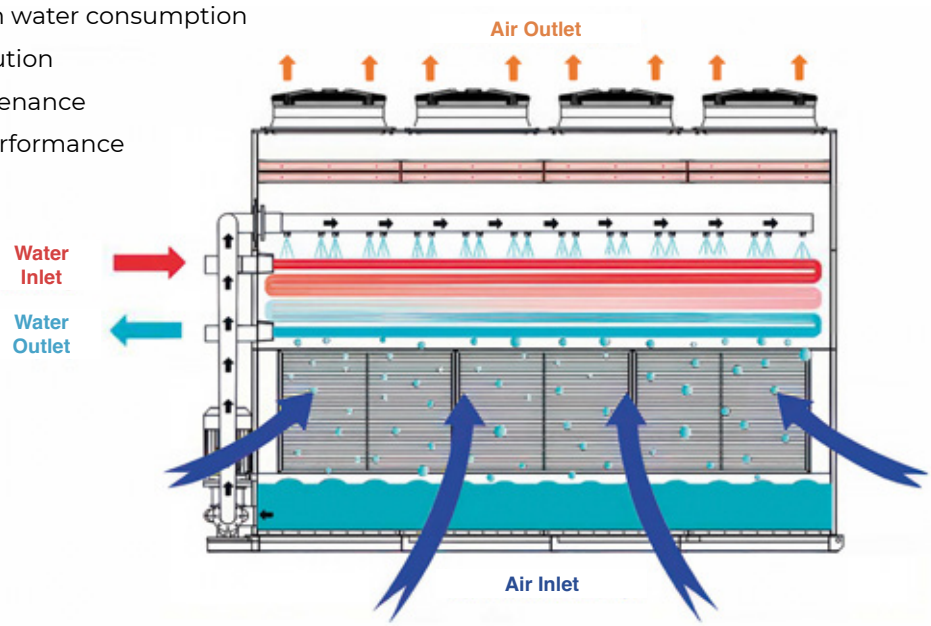
*Evaporator water inlet/outlet temperature 20/15°C, external air temperature 25°C

What is closed circuit water cooling tower?

In the closed circuit, process water and spray water circulate in separate circuits. While the hot process water cools down in the coil, energy is discharged by evaporation of the spray water in the outer circuit. Thus, water consumption is reduced and corrosion risk is minimised.

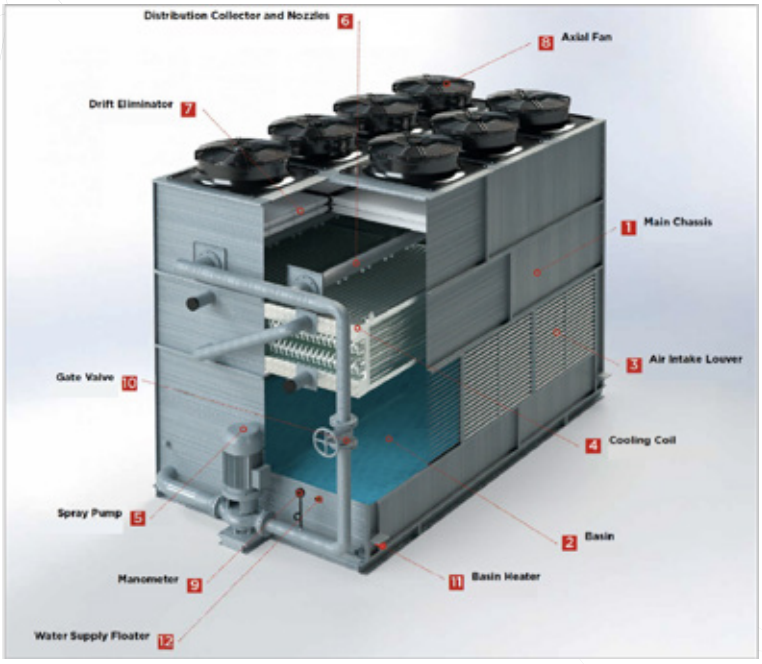
Key Features

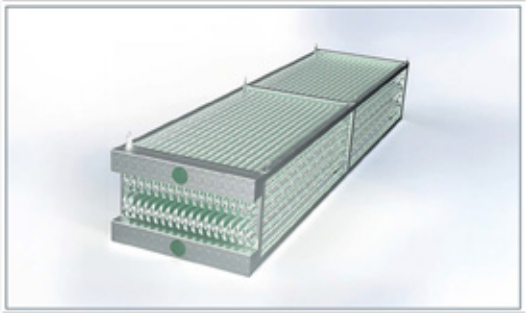
- Circulation of process water and spray water in separate circuits with closed circuit design
- Disposal of the thermal load to the atmosphere by evaporation of the spray water, high cooling efficiency
- Optimised airflow with axial fans
- Design focussed on minimum water consumption
- Low risk of corrosion and pollution
- Ease of installation and maintenance
- Uninterrupted and reliable performance in industrial plants

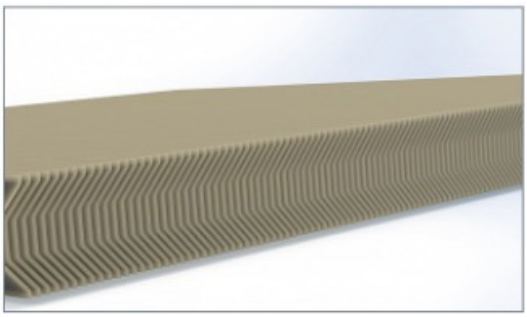


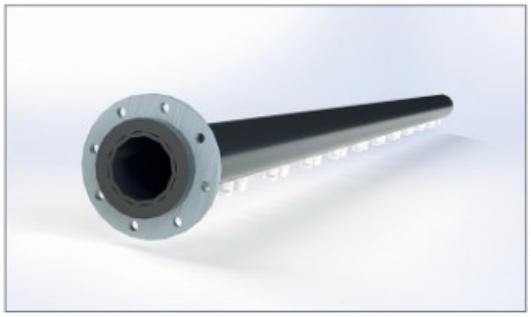
Advantages

- Low energy consumption, high operating efficiency
- Eco-friendly design, low carbon footprint
- Low maintenance and service costs
- Minimised water loss thanks to highly efficient drip traps
- Operation in different capacities and conditions with steel and copper coil options
- Clean water circulation with closed circuit water system









Main Components

- **High strength main chasis:** Long lasting and durable with its robust structure.
- **Galvanised sheet metal basin:** Facilitates water accumulation and allows the spray pump to absorb water easily.
- **Cooling coil:** Effectively cools the process water with its high heat transfer capacity.
- **Spray pump, distributor collector and nozzles:** Provides efficient cooling by spraying water homogeneously and evenly on the coil.
- **Drift eliminator:** Minimises water loss and is an important part of environmentally friendly design.
- **Axial fan:** Provides optimised air flow, operates silently and energy efficient.
- **Manometer and gate valve:** Facilitates control and adjustment of the system.
- **Basin heater:** Provides protection against freezing and improves system performance.
- **Water supply floater:** Provides the optimum water level continuously and automatically.

Building the Future!

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