



MK-HP SERIES COMPRESSED AIR DRYERS

Manufacturing Forward





Mikropor began its journey in 1987 with a passion to create “Tomorrow’s Technology” and has become one of the leading manufacturers of atmospheric air filtration solutions and compressed air treatment systems for a variety of industries.

By closely following the latest developments in technology, Mikropor’s “Best in Class” products and solutions are appreciated by customers in more than 100 countries.

The company’s sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to technology. Mikropor is an environmentally conscious company that values people, while developing products that extend the needs and expectations of customers.

With this mission, Mikropor continues to become one of the most recognized brands in the world by expanding its global penetration in the field of technological filtration and contributes to a healthier planet.

www.mikropor.com

MK-HP SERIES HIGH PRESSURE

This design achieves a hyper-efficient 100% contact between the air and refrigerant circuits, delivering state-of-the-art performance and great cooling efficiency.

The state-of-the-art 3-in-1 design features very low differential pressure delivering significant energy savings. The 3-in-1 Heat-Exchanger is compact and allows the dryer to be smaller and reduces the space required for the dryer. Mikropor offers a variety of 3-in-1 dryers equipped with the 3-in-1 Heat-Exchanger to meet a full range of capacity and power requirements.



**40
barg**



Mikropor High Pressure Dryers have stainless steel brazed plate heat exchangers.



Size Reduced
by 50%



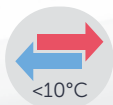
Dewpoint 3°C



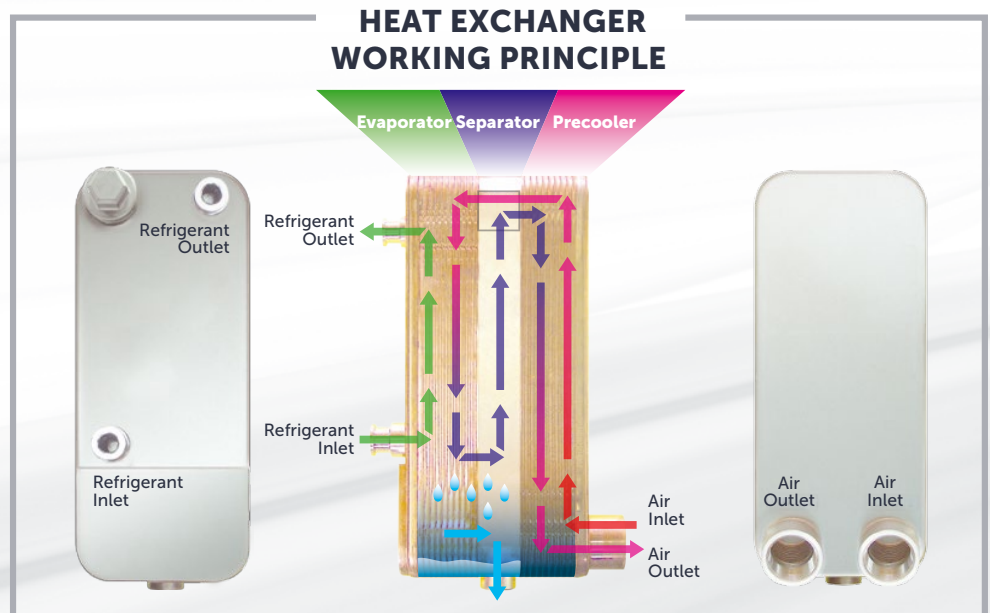
Stainless Steel,
Anti-corrosion



Working Pressure
Up to 45 barg



Inlet/Outlet
Temp. Difference
<10°C



Mikropor MK-HP range High Pressure Air Dryer Series have state of the art stainless steel brazed plate heat exchanger. It is designed for high pressure air dryers. The heat exchanger has the following sections in one module;

- Air/Air heat exchanger (Economizer)
- Air/Refrigerant heat exchanger (Evaporator)
- Water separator

With reliable stainless steel and optimized efficiency design, Mikropor MK-HP heat exchangers supply size reduction, anti corrosion and great heat transfer.

MK-HP SERIES HIGH PRESSURE

Technical Specifications

Model	Capacity (m ³ /h)	Power Supply (V / Ph / Hz)	Connection Size	Dimensions (mm)		
				Width	Length	Height
MK-HP-50	50	230 / 1 / 50	3/4"	454	361	553
MK-HP-90	90	230 / 1 / 50	3/4"	454	361	553
MK-HP-150	150	230 / 1 / 50	3/4"	453	401	623
MK-HP-220	220	230 / 1 / 50	3/4"	453	401	623
MK-HP-300	300	230 / 1 / 50	1 1/4"	505	451	762
MK-HP-400	400	230 / 1 / 50	1 1/4"	505	451	762
MK-HP-500	500	230 / 1 / 50	1 1/4"	505	451	812
MK-HP-575	575	230 / 1 / 50	1 1/4"	505	451	812
MK-HP-775	775	230 / 1 / 50	1 1/4"	675	501	1044
MK-HP-910	910	230 / 1 / 50	1 1/4"	675	501	984
MK-HP-1000	1000	230 / 1 / 50	DN50 PN63	947	727	1169
MK-HP-1160	1160	230 / 1 / 50	DN50 PN63	947	727	1169
MK-HP-1500	1500	230 / 1 / 50	DN50 PN63	947	727	1169
MK-HP-1600	1600	400 / 3 / 50	DN50 PN63	947	797	1459
MK-HP-1800	1800	400 / 3 / 50	DN50 PN63	947	797	1459
MK-HP-2200	2200	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-2500	2500	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-2700	2700	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-3000	3000	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-3300	3300	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-3600	3600	400 / 3 / 50	DN65 PN63	1162	797	1495
MK-HP-5000	5000	400 / 3 / 50	DN80 PN63	997	1697	1493
MK-HP-6000	6000	400 / 3 / 50	DN100 PN63	1076	1645	1645

Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction as per ISO 7183 standard

Correction Factor for MK-HP Series

Inlet Temp. (°C)	F1	Ambient Temp. (°C)	F2	Pressure (barg)	F3
-	-	-	-	7	0.20
-	-	-	-	10	0.28
-	-	-	-	13	0.34
-	-	-	-	15	0.40
-	-	-	-	20	0.50
-	-	-	-	25	0.60
-	-	-	-	30	0.75
-	-	-	-	35	0.85
35	1.00	25	1.00	40	1.00
40	0.85	30	0.93	45	1.10
45	0.72	35	0.87	-	-
50	0.63	40	0.82	-	-
-	-	45	0.79	-	-

Nominal Working Pressure	40 barg
Maximum Working Pressure	45 barg
Minimum Working Pressure	7 barg
Nominal Inlet Temperature	35°C
Maximum Inlet Temperature	50°C
Minimum Inlet Temperature	5°C
Nominal Ambient Temperature	25°C
Maximum Ambient Temperature	45°C
Minimum Ambient Temperature	5°C
Refrigerant	R513a

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