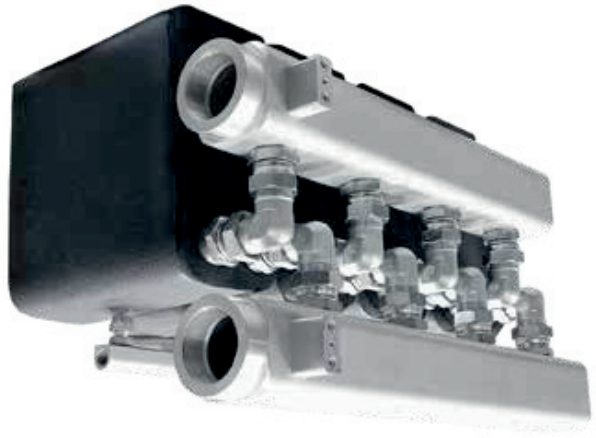
MK HP HIGH PRESSURE SERIES

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 bar

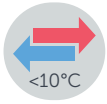
Mikropor High Pressure Dryers have stainless steel brazed plate heat exchangers.

Size Reduced by 50%

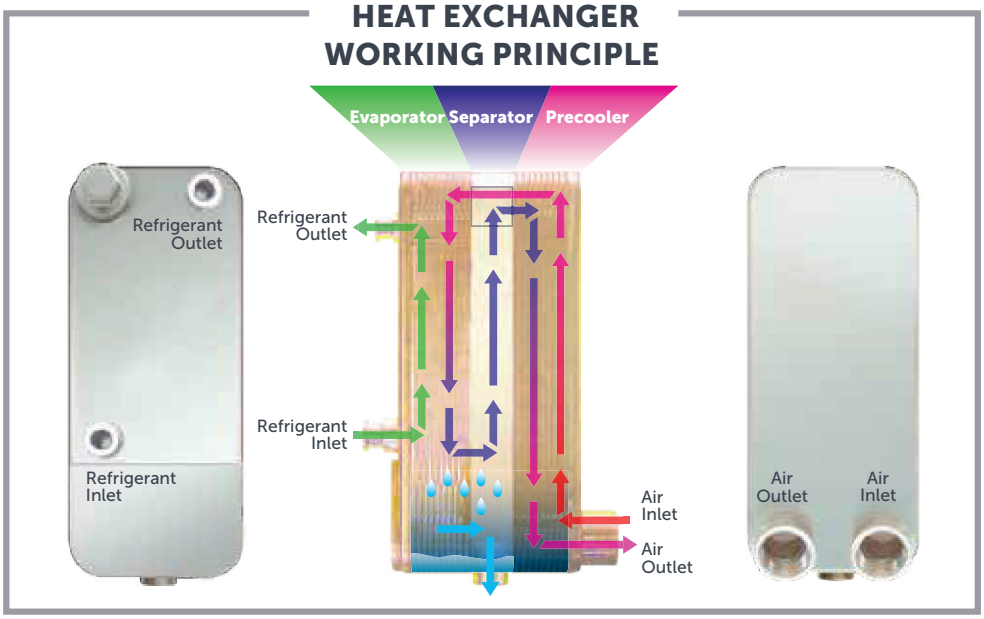
Dewpoint 3°C

Stainless Steel, Anti-corrosion

Working Pressure Up to 45 bar



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 HIGH PRESSURE SERIES

The Separator Efficiency

- Double centrifugation due to the bottom fin
- Reserved direction for the compressed air
- Gravity effect to the condensed water
- Special anti-return system
- Separator integrated to the system

Frigorific Circuit

- Two valve regulation system (thermal and by-pass), allowing to fill properly the exchanger and giving a max. temperature to the exchanger
- High quality security test of potential leakage
- Use of hermetic compressor as standard
- High quality, long lasting components
- Quick start and reaction time

Scroll Compressor

- Better coefficient of power
- Less energy consumption
- Higher resistance to liquid shocks

MK HP HIGH PRESSURE SERIES

Technical Specifications

Model	Flow * (m^3/h)	Voltage	Inlet - Outlet Connection Size	Max. Working Pressure (bar)	Max. Ambient Temp. (°C)	Max. Inlet Temp. (°C)	Width (mm)	Lenght (mm)	Height (mm)	Weight (kg)
MK HP 50	50	230V / 1 / 50 Hz	3/4"	45	45	50	361	454	553	36
MK HP 90	90	230V / 1 / 50 Hz	3/4"	45	45	50	361	454	553	37
MK HP 150	150	230V / 1 / 50 Hz	3/4"	45	45	50	401	453	623	40
MK HP 220	220	230V / 1 / 50 Hz	3/4"	45	45	50	401	453	623	41
MK HP 300	300	230V / 1 / 50 Hz	1 1/4"	45	45	50	451	505	761	43
MK HP 400	400	230V / 1 / 50 Hz	1 1/4"	45	45	50	451	505	761	45
MK HP 500	500	230V / 1 / 50 Hz	1 1/4"	45	45	50	451	505	812	65
MK HP 575	575	230V / 1 / 50 Hz	1 1/4"	45	45	50	451	505	812	66
MK HP 775	775	230V / 1 / 50 Hz	1 1/4"	45	45	50	501	675	984	67
MK HP 910	910	230V / 1 / 50 Hz	1 1/4"	45	45	50	501	675	984	68
MK HP 1000	1000	230V / 1 / 50 Hz	2"	45	45	50	727	947	1170	225
MK HP 1160	1160	230V / 1 / 50 Hz	2"	45	45	50	727	947	1170	230
MK HP 1500	1500	230V / 1 / 50 Hz	2"	45	45	50	727	947	1170	235
MK HP 1600	1600	400V / 3 / 50 Hz	2"	45	45	50	797	947	1460	430
MK HP 1800	1800	400V / 3 / 50 Hz	2"	45	45	50	797	947	1460	445
MK HP 2200	2200	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	465
MK HP 2500	2500	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	475
MK HP 2700	2700	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	490
MK HP 3000	3000	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	515
MK HP 3300	3300	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	540
MK HP 3600	3600	400V / 3 / 50 Hz	2 1/2"	45	45	50	797	1162	1495	555

Refrigerant: R134a

* Nominal flow is calculated at the following conditions: Inlet pressure: 40 bar, Inlet Temperature: 35°C Ambinet Temp. 25°C For other conditions please refer to the correction factor table.

Correction Factor for MK HP High Pressure Series

Pressure (bar)	F1	Inlet Temp. (°C)	F2	Ambient Temp. (°C)	F3
20	0.84	-	-	-	-
25	0.91	-	-	-	-
30	0.93	-	-	-	-
35	0.96	-	-	-	-
40	1	35	1	25	1
45	1.02	40	0.85	30	0.93
-	-	45	0.72	35	0.87
-	-	50	0.63	40	0.82
-	-	-	-	45	0.79

For maximum flow rate, multiply model flow rate show in the table below by the correction factor corresponding to the working pressure.

Maximum Pressure (45 bar)
Nominal Working Pressure (40 bar)