



MK-HP-US SERIES COMPRESSED AIR DRYERS



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.mikroporamerica.com

MK-HP-US 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.

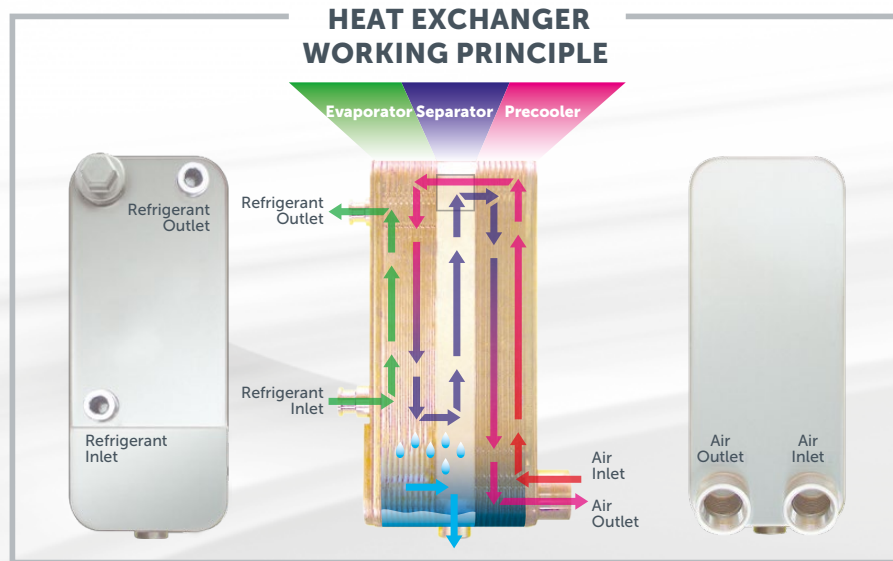
The state-of-the-art 3-in-1 design features very low differential pressure delivering significant energy savings. The 3-in-1 Heat-Exchanger is compact and allows the dryer to be smaller and reduces the space required for the dryer. Mikropor offers a variety of 3-in-1 dryers equipped with the 3-in-1 Heat-Exchanger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



**580
psi**



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



Mikropor MK-HP-US 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-US heat exchangers supply size reduction, anti corrosion and great heat transfer.

Industries Served Include

- Food and Beverage
- Bottle Blowing
- PET
- Metal Fabrication



MK-HP-US SERIES HIGH PRESSURE

Technical Specifications

Model	Capacity (cfm)	Voltage	Controller	Pressure Drop (psi)	Connection Size	Length (inch)	Width (inch)	Height (inch)	Weight (lbs)
MK-HP-US-25	25	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	3/4" NPT	18	14	22	79
MK-HP-US-40	40	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	3/4" NPT	18	14	22	82
MK-HP-US-70	70	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	3/4" NPT	18	16	25	88
MK-HP-US-100	100	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	3/4" NPT	18	16	25	90
MK-HP-US-140	140	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	20	18	30	95
MK-HP-US-190	190	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	20	18	30	99
MK-HP-US-235	235	115V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	20	18	32	143
MK-HP-US-270	270	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	20	18	32	146
MK-HP-US-350	350	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	27	20	39	148
MK-HP-US-425	425	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	1 1/4" NPT	27	20	39	150
MK-HP-US-470	470	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	2" Flange ANSI Class 600	37	29	46	496
MK-HP-US-550	550	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	2" Flange ANSI Class 600	37	29	46	507
MK-HP-US-700	700	230V / 1 Ph / 60 Hz	Digi-Pro	< 3.6	2" Flange ANSI Class 600	37	29	46	518
MK-HP-US-750	750	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2" Flange ANSI Class 600	37	31	57	948
MK-HP-US-850	850	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2" Flange ANSI Class 600	37	31	57	981
MK-HP-US-1000	1000	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1025
MK-HP-US-1200	1200	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1047
MK-HP-US-1300	1300	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1080
MK-HP-US-1400	1400	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1135
MK-HP-US-1500	1500	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1190
MK-HP-US-1700	1700	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	2 1/2" Flange ANSI Class 600	46	31	59	1224
MK-HP-US-2350	2350	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	3" Flange ANSI Class 600	67	39	59	1400
MK-HP-US-2800	2800	460V / 3 Ph / 60 Hz	Digi-Pro	< 3.6	4" Flange ANSI Class 600	62	39	59	1600

Nominal Working Pressure	580 psig	Nominal Inlet Temperature	100 °F	Nominal Ambient Temperature	75 °F	Refrigerant	R134a
Maximum Working Pressure	650 psig	Maximum Inlet Temperature	120 °F	Maximum Ambient Temperature	100 °F		
Minimum Working Pressure	100 psig	Minimum Inlet Temperature	39 °F	Minimum Ambient Temperature	39 °F		

Correction Factors

Inlet Temperature (°F)	80	85	90	95	100	110	120	
Factor F1	1.25	1.20	1.14	1.08	1.00	0.75	0.60	
Ambient Temperature (°F)	60	70	80	90	100	110	115	
Factor F2	1.12	1.10	1.08	1.06	1.00	0.90	0.80	
Pressure (psig)	185	215	290	360	435	505	580	650
Factor F3	0.34	0.4	0.5	0.6	0.75	0.85	1	1.1

Example of capacity calculation for MK-US-HP-700 at 110 °F inlet temperature (F1) 100 °F ambient temperature (F2) and 290 psig pressure (F3): Model Capacity x F1 x F2 x F3 = Air Flow
Capacity 700 scfm x 0.75 x 1 x 0.5 = 263 SCFM.

MK-HP-US SERIES COMPRESSED AIR DRYERS



Mikropor America Inc.

4921 Ohio Street, Michigan City, IN 46360

☎ 219 878 1550 ✉ support@mikroporamerica.com

📷 🌐 📺 mikropor

www.mikroporamerica.com