

MOK SERIES REFRIGERATED AIR DRYER



MOK Series Direct Expansion Refrigerated Dryers With Dual Filtration. Capacity Range 10 m³/h to 1000 m³/h (6 cfm to 586 cfm).

ULTRA COMPACT, ECOLOGICAL AND SIMPLE TO INSTALL

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MOK SERIES REFRIGERATED AIR DRYER

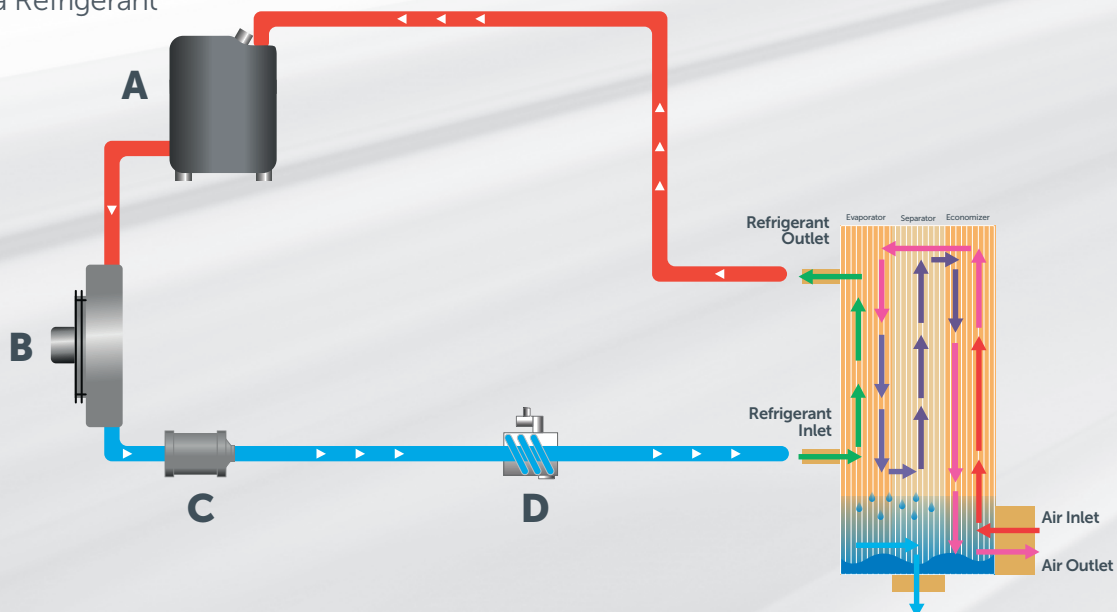
MOK Series air dryers are designed to offer all users of compressed air a reliable and efficient system that is compact, easy to install and with low ownership costs. The system arrives complete with two high efficiency filters that combine to ensure a continuous supply of dry and clean air, suitable for thousands of modern industrial applications.



How The Dryer Works

MOK Series dryers use a standard refrigeration cycle to separate naturally occurring water from compressed air.

- Refrigerant Compressor
- Air Condenser (Optional - Water Condenser)
- Expansion Valve
- Aluminum Exchanger
- R513a Refrigerant



MOK SERIES REFRIGERATED AIR DRYER

MOK Series Advantages

Special Components;

- "Piston" Compressor (MOK 10-130)
- "Scroll" Compressor (MOK 160-1000)
- "Microchannel" Condenser
- Temperature-Driven Fan
- High Temperature Critical Alarm
- Digital Controller (Digi-Pro)
- 3-in-1 Exchanger (Air-Air / Air-Gas / Water Separator)
- Exclusive Aluminium Plate Exchanger Technology (MOK 10-130)
- Aluminium "Bar-Plate" Exchanger (MOK 160-1000)
- Hermetic System (Closed to Atmosphere)
- Special Filter Kits for Filter Installation (MOK 10-130)
- Time-Driven Drain (Optional - Electronic "Zero-Loss" Drain)
- Condenser Filter
- Hot Gas Bypass Valve (MOK 225-1000)

Microchannel Condenser

New condenser technology provides better efficiency and high performance.



Electronic Zero-Loss Drain

Optional Zero-Loss drain alternative



Digital Controller (Digi-Pro)



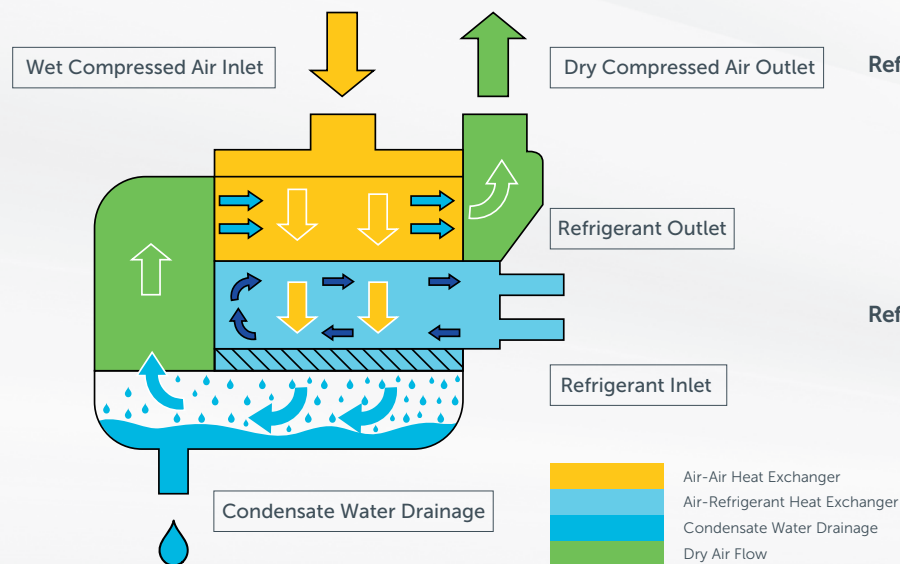
Hermetic System

The refrigeration element comprises a completely sealed system featuring only welded connections, that means a much lower risk of leaks.

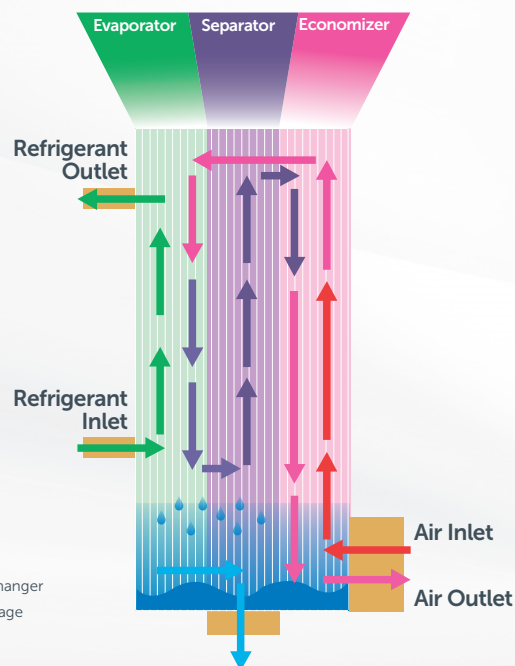


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3-in-1 Air Exchanger



*MOK 160-1000 Exchanger/Bar-Plate



*MOK 10-130 Exchanger/Bar-Plate

Onboard Filters

MOK 10-130 models include 2 oil removing filters Grade 1 micron and 0.01 micron) and easy installation manifolds.



Much Lower Global Warming Impact

Refrigerant	GWP
R404a	3922
R407c	1744
R134a	1430
R513a	631



- Low GWP (Global Warming Potential) value.
- Zero ODP (Ozone Depletion Potential) value.
- Non-flammable
- Thermodynamic properties are suitable for harsh environment conditions.

MOK SERIES REFRIGERATED AIR DRYER

Model	Capacity (m³/h)	C.F.M.	Unit Air Connection Size	Filter Connection Size**	Filter Types	Element Types	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	
MOK 10	10	6	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	258	307	501	25	With Manifold
MOK 20	20	12	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	258	307	501	25	
MOK 30	30	18	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	258	307	501	25	
MOK 50	50	29	G 3/4"	G1/2"	GO-71 MX&MY	MO-71 MX&MY	333	338	531	35	
MOK 70	70	41	G 3/4"	G1/2"	GO-71 MX&MY	MO-71 MX&MY	333	338	531	35	
MOK 100	100	59	G 3/4"	G3/4"	GO-131 MX&MY	MO-131 MX&MY	333	338	531	35	
MOK 130	130	77	G 3/4"	G3/4"	GO-131 MX&MY	MO-131 MX&MY	333	338	531	35	
MOK 160	160	94	G 1"	N/A	GON-225 MX&MY	MON-225 MX&MY	405	389	588	45	With Loose Filters
MOK 190	190	112	G 1"	N/A	GON-225 MX&MY	MON-225 MX&MY	405	389	588	45	
MOK 225	225	133	G 1 1/2"	N/A	GON-300 MX&MY	MON-300 MX&MY	454	531	881	92	
MOK 305	305	180	G 1 1/2"	N/A	GON-300 MX&MY	MON-300 MX&MY	454	531	881	92	
MOK 450	430	265	G 1 1/2"	N/A	GON-500 MX&MY	MON-500 MX&MY	454	531	881	105	
MOK 550	553	324	G 1 1/2"	N/A	GON-600 MX&MY	MON-600 MX&MY	454	531	793	105	
MOK 650	700	383	G2"	N/A	GON-800 MX&MY	MON-800 MX&MY	544	612	831	120	
MOK 870	860	512	G2"	N/A	GON-1000 MX&MY	MON-1000 MX&MY	544	660	931	120	
MOK-1000	1000	589	G2"	N/A	GON-1000 MX&MY	MON-1000 MX&MY	544	660	931	120	

*Pressure drops according to the referred capacity values.

**Filter kit included and the filter inlet/outlet dimensions

***All models 230V / 50Hz / 1 Phase

Nominal Working Pressure	7 barg
Maximum Working Pressure (MOK 10-130)	14 barg
Maximum Working Pressure (MOK 160-1000)	16 barg
Minimum Working Pressure	4 barg
Nominal Inlet Temperature	35 °C
Maximum Inlet Temperature	60 °C
Minimum Inlet Temperature	5 °C
Nominal Ambient Temperature	25 °C
Maximum Ambient Temperature	50 °C
Minimum Ambient Temperature	5 °C
Refrigerant	R513a

Correction Factors

Correction Factors (°C)	F1	Ambient Temperature (°C)	F2	Pressure (barg)	F3
30	1.29	20	1.05	4	0.80
35	1	25	1	6	0.94
40	0.92	30	0.98	7	1
45	0.78	35	0.93	8	1.04
50	0.65	40	0.84	10	1.11
60	0.45	45	0.76	12	1.16
-	-	50	0.7	14	1.22
-	-	-	-	16	1.25

Dryer Selection Example

If an air compressor delivers 30 m³/h @6 barg, the dryer inlet temperature 40 °C and ambient temperature is 30 °C, please choose your dryer model as follows:
 $30 / 0.94 / 0.92 / 0.98 = 40 \text{ m}^3/\text{h}$
 MOK-50 should be chosen for this application.



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