

MOK SERIES REFRIGERATED AIR DRYER

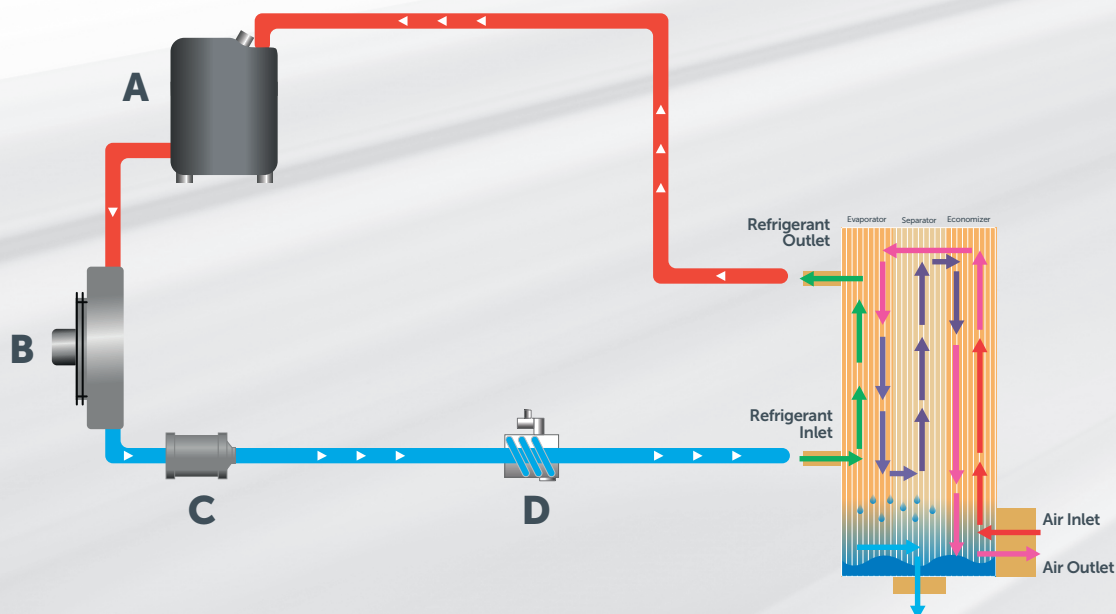
MOK Series air dryers are designed to answer Private Label Customer's market needs and improve their competitiveness. High quality compressed air can be produced only by high quality compressed air dryers. MOK Series Refrigerated Compressed Air Dryers provides quality-oriented dried compressed air.



How The Dryer Works

MOK Series dryers use standard refrigeration cycle to separate the water from compressed air.

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



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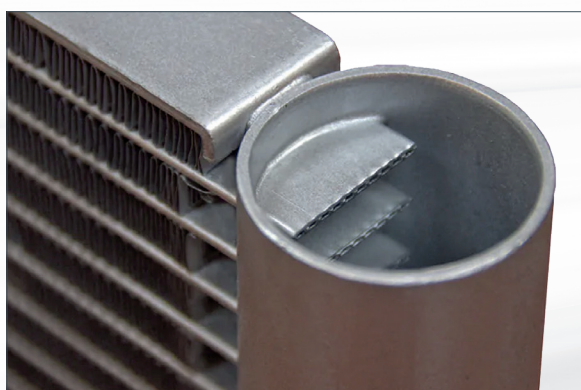
MOK Series Advantages

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)
- Aluminium Plate Exchanger Technology design (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 Debris Filter
- Private Label Colour Options
- Hot Gas Bypass Valve (MOK 225-1000)

Microchannel Condenser

New condenser technology in industry has better efficiency and high performance.

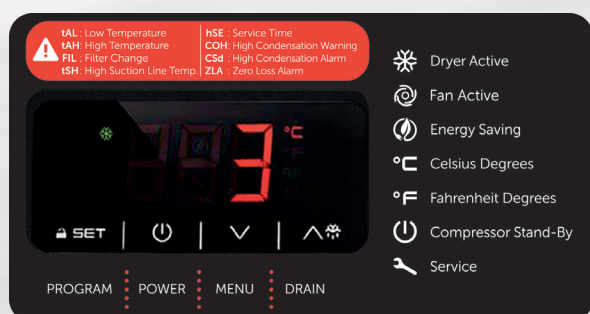


Electronic Zero-Loss Drain

Optional Zero-Loss drain alternative



Digital Controller (Digi-Pro)



Hermetic System

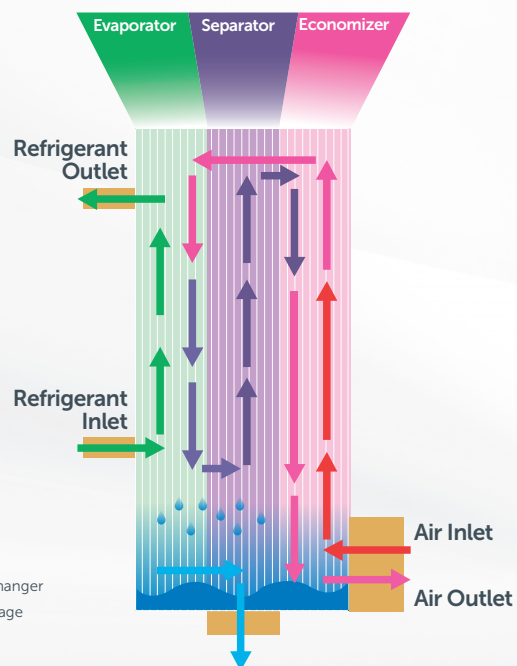
Refrigeration side is complete closed system to atmosphere by welding connections only.

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3-in-1 Air Exchanger



*MOK 160-1000 Exchanger/Bar-Plate



*MOK 10-130 Exchanger/Bar-Plate

Filter Kits

MOK 10-130 models integrated filter kits connect via manifold.



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 (Nm ³ /h)	Voltage	Unit Air Connection Size	Filter Connection Size**	Filter Types	Element Types	Pressure Drop* (mbar)	Length (mm)	Width (mm)	Height (mm)
MOK 10	10	230V / 1 Ph / 50Hz	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	40	258	307	501
MOK 20	20	230V / 1 Ph / 50Hz	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	140	258	307	501
MOK 30	30	230V / 1 Ph / 50Hz	G 3/4"	G1/2"	GO-40 MX&MY	MO-40 MX&MY	280	258	307	501
MOK 50	50	230V / 1 Ph / 50Hz	G 3/4"	G1/2"	GO-71 MX&MY	MO-71 MX&MY	210	333	338	531
MOK 70	70	230V / 1 Ph / 50Hz	G 3/4"	G1/2"	GO-71 MX&MY	MO-71 MX&MY	190	333	338	531
MOK 100	100	230V / 1 Ph / 50Hz	G 3/4"	G3/4"	GO-131 MX&MY	MO-131 MX&MY	210	333	338	531
MOK 130	130	230V / 1 Ph / 50Hz	G 3/4"	G3/4"	GO-131 MX&MY	MO-131 MX&MY	250	333	338	531
MOK-160	160	230V / 1 Ph / 50Hz	G1"	N/A	GON-225 MX&MY	MON-225 MX&MY	200	405	389	588
MOK-190	190	230V / 1 Ph / 50Hz	G1"	N/A	GON-225 MX&MY	MON-225 MX&MY	280	405	389	588
MOK-225	225	230V / 1 Ph / 50Hz	G1 1/2"	N/A	GON-300 MX&MY	MON-300 MX&MY	210	454	531	881
MOK-305	305	230V / 1 Ph / 50Hz	G1 1/2"	N/A	GON-300 MX&MY	MON-300 MX&MY	400	454	531	881
MOK-450	430	230V / 1 Ph / 50Hz	G1 1/2"	N/A	GON-500 MX&MY	MON-500 MX&MY	360	454	531	881
MOK-550	553	230V / 1 Ph / 50Hz	G1 1/2"	N/A	GON-600 MX&MY	MON-600 MX&MY	400	454	531	793
MOK-650	700	230V / 1 Ph / 50Hz	G2"	N/A	GON-800 MX&MY	MON-800 MX&MY	230	544	612	831
MOK-870	860	230V / 1 Ph / 50Hz	G2"	N/A	GON-1000 MX&MY	MON-1000 MX&MY	360	544	660	931
MOK-1000	1000	230V / 1 Ph / 50Hz	G2"	N/A	GON-1000 MX&MY	MON-1000 MX&MY	390	544	660	931

*Pressure drops according to the referred capacity values.

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

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.