



Ozen Desiccant Air Drying Systems



OMD Series Modular Desiccant Air Dryers

ozen®
KOMPRESÖR

OMD (5-400 m³/h)

OMD series desiccant dryers' light, modular design provides flexibility of installation. OMD series dryers can easily satisfy special needs and they make installation and assembly simple since they only weigh half of standard dryers with tanks. The series, with its plug-and play design, esthetic appearance and innovative build, is suitable for use wherever high quality compressed air is needed.

The series, with a portfolio of products ranging from 0.08 m³/min to 6.66 m³/min, is an all-in-one package with a dew-point between -40 °C and -94 °C; all you need is air inlet and outlet connections. Its highly engineered inlet valve and outlet manifold design guarantee the lowest pressure drop in the industry.

- Quick installation and maintenance
- Esthetic appearance with compact, lightweight design
- Protection against corrosion by aluminum body
- Floor, wall or countertop installation options
- Reliable electronic control panel



OMD Series Modular Desiccant Air Dryers

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PLC Monitor

- Instant work process monitoring with user friendly indicators
- Command by remote control
- Remote signal capability

Technical Specifications

MODEL	Capacity		Filter Set	Connection Size	Voltage V / Hz	Dew Point (°C)	Dimensions (mm)	Total Weight (kg)
	m³/min	m³/h						
OMD 3	0.08	5	GK020 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x310x560	15
OMD 5	0.16	10	GK020 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x310x640	17
OMD 10	0.33	20	GK020 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x310x910	23
OMD 15	0.41	25	GK025 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x370x800	25
OMD 20	0.58	35	GK050 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x370x1100	35
OMD 25	0.75	45	GK050 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x370x1250	41
OMD 30	0.83	50	GK050 MX-MY-MP	1/2"	230V / 50-60 Hz	-40	320x370x1500	46
OMD 40	1.16	70	GK0100 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	430x430x1250	71
OMD 50	1.41	85	GK0100 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	430x430x1400	78
OMD 60	1.66	100	GK0100 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	430x430x1750	92
OMD 75	2.16	130	GK0150 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	570x430x1300	117
OMD 100	2.83	170	GK0150 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	570x430x1450	130
OMD 120	3.33	200	GK0150 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	570x430x1750	152
OMD 180	5.00	300	GK0200 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	710x430x1500	185
OMD 240	6.66	400	GK0250 MX-MY-MP	1 1/2"	230V / 50-60 Hz	-40	850x430x1500	236

Correction Factors													
(Bar g)	4,5	5	6	7	8	9	10	11	12	13	14	15	16
Factor (F1)	0,69	0,75	0,88	1	1,12	1,25	1,37	1,5	1,62	1,74	1,87	1,99	2,11
Inlet Temperature (°C)	20	25	30	35	40	45	50	-	-	-	-	-	-
Factor F2	1	1	1	1	0,8	0,73	0,59	-	-	-	-	-	-

- To find the most suitable model with high efficiency, multiply the flow rate in the table above by the correction factor corresponding to the working pressure.

- Dew Point: -40 °C
- Normal Inlet Temperature: 35 °C
- Normal Working Pressure: 7 bar
- Max. Inlet Temperature: 50 °C
- Max. Working Pressure: 16 bar
- Max. Ambient Temperature: 50 °C

OCD Series Heatless Desiccant Air Dryers

OCD Series



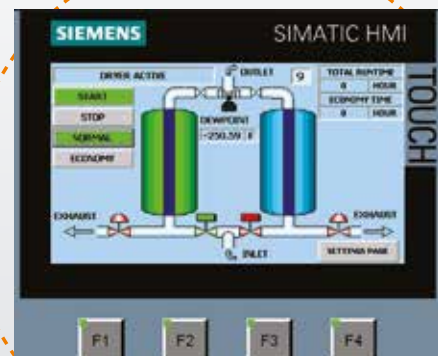
- This is a double-tank system.
- The first tank, which has high hygroscopic impact resistance and a large surface area, separates the moisture from the compressed air.
- The second tank simultaneously performs the drying process with regeneration. The tank with the saturated desiccant is dried with the help of super dry air at atmospheric pressure.
- The rate at which mufflers expel air can be adjusted according to the desired dew-point.
- No heater is used during this process. The pressure between the tanks is equalized to prevent desiccant wear.
- The air movements in the tanks are in reverse directions.

OCD series heatless desiccant dryers are designed to provide high-quality, dry, compressed air for critical applications such as the oil-gas, food-beverage and pharmaceutical industries.

Heatless desiccant dryers that provide a constant dew point of -40°C (-70°C optional) ensure flawless operation thanks to the reliable electronic controller on board. Equipped with special valves and high quality desiccant, this series boasts the lowest pressure drop in the industry.

PLC Control Unit

- Dew point indicator
- User-friendly touch screen
- Real time monitoring of both the cycle and the valves
- 10 language options



OCD Series Heatless Desiccant Air Dryers

OCD Series



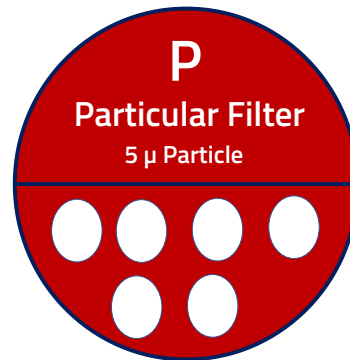
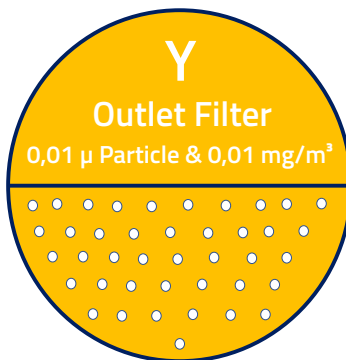
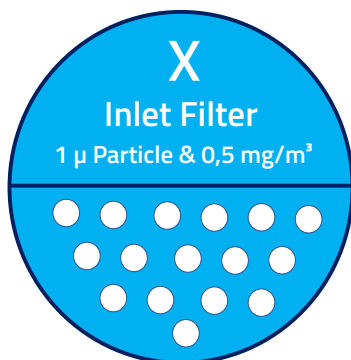
Active Alumina

- Fixed dew point with a special mix of desiccants.
- Active alumina or molecular sieve and silica gel, as chosen according to the application.

Technical Specifications

MODEL	Capacity		Filter Set	Connection Size	Pressure Drop (mbar)	Dew Point °C	Max. Inlet Temperature °C	Dimensions (mm)	Weight (kg)
	m³/min	m³/h							
OCD 130	2,17	130	GK0150 MX-MY-MP	1"	130	-40	45	757x450x1315	110
OCD 185	3,09	185	GK0200 MX-MY-MP	1"	130	-40	45	760x450x1567	130
OCD 250	4,17	250	GK0250 MX-MY-MP	1"	130	-40	45	650x760x1589	160
OCD 300	5,00	300	GK0300 MX-MY-MP	1 1/2"	130	-40	45	742x900x1615	215
OCD 360	6,00	360	GK0500 MX-MY-MP	1 1/2"	130	-40	45	742x900x1615	215
OCD 440	7,34	440	GK0500 MX-MY-MP	1 1/2"	130	-40	45	650x900x1792	340
OCD 575	9,60	575	GK0600 MX-MY-MP	1 1/2"	130	-40	45	650x900x1990	450
OCD 680	11,34	680	GK0851 MX-MY-MP	2"	130	-40	45	750x1000x2164	535
OCD 850	14,17	850	GK0851 MX-MY-MP	2"	130	-40	45	800x1050x2303	700
OCD 1000	16,67	1000	GK01210 MX-MY-MP	2"	130	-40	45	860x1120x2397	785
OCD 1250	20,84	1250	GK01820 MX-MY-MP	DN80	130	-40	45	1010x1300x2310	980
OCD 1500	25,00	1500	GK01820 MX-MY-MP	DN80	130	-40	45	1010x1300x2547	1210
OCD 1800	30,00	1800	GK01820 MX-MY-MP	DN80	130	-40	45	1010x1392x2415	1250
OCD 2200	36,67	2200	GK02200 MX-MY-MP	DN80	130	-40	45	1110x1490x2482	1525
OCD 2700	45,00	2700	GK02700 MX-MY-MP	DN80	130	-40	45	1210x1949x2245	1870
OCD 3200	53,34	3200	F3600 MX-MY-MP	DN100	130	-40	45	1210x1920x2460	2215
OCD 3600	60,00	3600	F4800 MX-MY-MP	DN100	130	-40	45	1210x1830x2596	2300
OCD 4400	73,34	4400	F4800 MX-MY-MP	DN100	130	-40	45	1210x1920x2486	2800
OCD 5000	83,34	5000	F7200 MX-MY-MP	DN125	130	-40	45	1350x1920x2960	3180
OCD 6300	105,00	6300	F7200 MX-MY-MP	DN150	130	-40	45	1650x2500x2760	4000
OCD 7200	120,00	7200	F9600 MX-MY-MP	DN150	130	-40	45	1650x2500x2924	4570
OCD 8800	146,67	8800	F9600 MX-MY-MP	DN150	130	-40	45	1650x2500x3200	5585
OCD 10800	180,00	10800	F12000 MX-MY-MP	DN200	130	-40	45	1720x2500x2720	6855

Filter Efficiency Rating



	X Inlet Filter	Y Outlet Filter	P Particular Filter
Efficiency Rating	1 micron particle removal and 0.5 mg/m³ oil removal	0.01 micron particle removal and 0.1 mg/m³ oil removal	5 micron particle removal (Removes desiccant particles after the dryer)

Correction Factors							
Pressure Factor F1	0.69	0.75	0.88	1	1.12	1.25	1.37
Air Inlet Temperature (°C)	20	25	30	35	40	45	50
Air Inlet Factor F2	1	1	1	1	0.8	0.75	0.59

All desiccant dryers are designed according to Pneurop conditions as per ISO7183.

OCD-H Series Heated Desiccant Air Dryers

OCD-H Series



In the OCD-H series heated desiccant dryers, the regeneration of the dehumidifier can be achieved without loss of compressed air by means of centrifugal blower motor and high efficiency heater. The completely automatic drying system uses blower to pull ambient air and pass it through the heater.

- This is a double-tank system.
- The first tank, which has high hygroscopic impact resistance and a large surface area, separates the moisture from the compressed air.
- The second tank simultaneously performs the drying process with regeneration. The tank with the saturated desiccant is dried with the help of super dry air at atmospheric pressure.
- The hot air stream flows opposite to drying flow direction.
- The advanced control system monitors the dew point and adjusts the heating/regeneration accordingly thereby providing valuable energy savings.

Features

- Dew point indicator
- Remote control
- Computer control
- Status display
- Alarm and pressure indicator
- Low pressure alarm
- Minimum pressure check valve
- High pressure switches and warning
- Heated and heatless option

MODEL	Capacity		Filter Set	Connection Size	Pressure Drop (mbar)	Dew Point (°C)	Max. Inlet Temperature (°C)	Power (kW)
	m³/min	m³/h						
OCD-H 850	14.2	850	GK0851 MX-MY-MP(H)	2"	-130	-70	50	6,5
OCD-H 1000	16.6	1.000	GK01210 MX-MY-MP(H)	2"	-130	-70	50	7,5
OCD-H 1250	20.8	1.250	GK01820 MX-MY-MP(H)	DN 80	-130	-70	50	8
OCD-H 1500	25	1.500	GK01820 MX-MY-MP(H)	DN 80	-130	-70	50	10
OCD-H 1800	30	1.800	GK01820 MX-MY-MP(H)	DN 80	-130	-70	50	12
OCD-H 2200	36.6	2.200	GK02200 MX-MY-MP(H)	DN 80	-130	-70	50	17
OCD-H 2700	45	2.700	GK02700 MX-MY-MP(H)	DN 80	-130	-70	50	19
OCD-H 3200	53.3	3.200	F3600 MX-MY-MP(H)	DN 100	-130	-70	50	20
OCD-H 3600	60	3.600	F4800 MX-MY-MP(H)	DN 100	-130	-70	50	26
OCD-H4400	73.3	4.400	F4800 MX-MY-MP(H)	DN 100	-130	-70	50	28
OCD-H 5000	83.3	5.000	F7200 MX-MY-MP(H)	DN 125	-130	-70	50	33
OCD-H 6300	105	6.300	F7200 MX-MY-MP(H)	DN 150	-130	-70	50	35
OCD-H 7200	120	7.200	F9600 MX-MY-MP(H)	DN 150	-130	-70	50	40
OCD-H 8800	146.6	8.800	F9600 MX-MY-MP(H)	DN 150	-130	-70	50	56
OCD-H 10800	180	10.800	F12000 MX-MY-MP(H)	DN 200	-130	-70	50	75

- Capacities are specified according to ISO 1217 Annex C with reference to 1 bar inlet pressure and 20 °C ambient temperature.

- Dew point: -40°C
- Normal inlet temperature: 35°C
- Normal working pressure: 7 bar

- Max. inlet temperature: 45°C
- Max. working pressure: 10 bar
- Max. ambient temperature: 40°C

Correction Factors							
(barg)	4.5	5	6	7	8	9	10
Pressure Factor F1	0.69	0.75	0.88	1	1.12	1.25	1.37
Air Inlet Temperature (°C)	20	25	30	35	40	45	50
Air Inlet Factor F2	1	1	1	1	0.8	0.73	0.59