

Marse MDD – Two-Tower Dryers (DES series)

Two-Tower Dehumidifying Dryers | Dew point: -50°C | Stainless steel hopper | PID control



MDD dryer



MDD dryer

Product description

The Marse MDD series is a two-tower, regenerative moisture adsorption dryer that dries hygroscopic thermoplastics (PA, PC, PET, PBT, ABS, etc.) down to a constant dew point of -50°C. The two silica gel adsorbent towers work and regenerate alternately, so drying air with a -50°C dew point is continuously available. PID microprocessor control, insulated stainless steel hopper, compressed air failure protection.

Technical specifications – MDD series

Parameter	MDD 1-10	MDD 1-20	MDD 20	MDD 30	MDD 35	MDD 40	MDD 50	MDD 60	MDD 70
Process temp.	70–130°C	70–130°C	70–150°C	70–150°C	70–150°C	70–150°C	70–150°C	70–150°C	70–150°C
Reserve temp.	70–180°C	70–180°C	70–190°C	70–190°C	70–190°C	70–190°C	70–190°C	70–190°C	70–190°C
Dew point	-40°C	-40°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C
Air flow	60 m³/h	80 m³/h	80 m³/h	120 m³/h	160 m³/h	180 m³/h	250 m³/h	400 m³/h	500 m³/h
Static pressure	120 mbar	120 mbar	120 mbar	140 mbar	220 mbar	240 mbar	240 mbar	220 mbar	250 mbar
Blower power	0,2 kW	0,55 kW	0,55 kW	0,85 kW	1,5 kW	2,2 kW	3 kW	5,5 kW	5,5 kW
Heating power (MT)	2,8 kW	2,8 kW	3,0 kW	4,8 kW	4,8 kW	7,2 kW	9,6 kW	12 kW	15 kW
Heating power (HT)	2,8 kW	2,8 kW	4,8 kW	6,0 kW	6,0 kW	9,6 kW	12 kW	15 kW	18 kW
Consumption at 80°C	1,2 kW	1,5 kW	2 kW	2,6 kW	3 kW	4,2 kW	6,5 kW	9 kW	10 kW
Power supply	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Hopper min. (dm³)	15	50	50	150	250	300	600	800	1000

Hopper max. (dm³)	50	150	200	250	400	600	1000	1500	1500
Dimensions (mm)	780×280×630	780×280×630	490×690×1040	490×690×1040	490×690×1040	900×900×1800	900×900×1800	900×900×1800	900×900×1800
Weight (approx.)	55 kg	70 kg	90 kg	100 kg	125 kg	230 kg	250 kg	290 kg	320 kg

MT = normal process temperature (70–130°C) | HT = high process temperature (70–150°C) | Price: individual quotation required – please contact CIS.

Exclusive distributor: Cyber in Systems Kft. | www.cyberin.hu | info@cyberin.hu

Marse MDS / MES – Compressed Air Dryers

Compressed Air Dehumidifying Dryers | MDS Dew Point -50°C | MES Dew Point -25°C | MD 2-G / MD 4-G Dew Point -40°C



MDS/MES –

compressed air dryers



MD 2-G / MD 4-G – compact compressed air

Product description – MDS/MES/MD series

The MDS series uses revolutionary membrane technology to deliver a constant -50°C dew point from compressed air of any quality, with a zeolite-free, anti-stress system. The MES series works down to a -25°C dew point, also using compressed air. The compact MD 2-G and MD 4-G models provide a -40°C dew point. Standard features of all three series include a stainless steel hopper, insulation, a sliding-door discharge opening and over-temperature protection.

Technical specifications – MDS / MES series

Parameter	MDS 2-G	MDS 4-G	MDS 6	MDS 10	MDS 20	MDS 30	MDS 50
Dew point	-40°C	-40°C	-50°C	-50°C	-50°C	-50°C	-50°C
Air flow (m³/h)	2–6	2–6	2–6	3–12	6–18	6–18	6–18
Heating capacity	0,4 kW	0,4 kW	0,6 kW	0,6 kW	0,6 kW	0,8 kW	0,8 kW
Max. process temp.	180°C	180°C	180°C	180°C	180°C	180°C	180°C
Consumption at 80°C	0.01–0.06	0.01–0.06	0.02–0.10	0.06–0.20	0.06–0.20	0.11–0.27	0.11–0.27
Hopper (dm³)	2	4	6	10	20	30	50
Weight (approx.)	10 kg	12 kg	10 kg	15 kg	18 kg	20 kg	25 kg

Technical specifications – MD 2-G and MD 4-G (compact)

Parameter	MD 2-G	MD 4-G
Dew point	-40°C	-40°C
Hopper (dm³)	2	4
Power supply	230V/1f/50-60Hz	230V/1f/50-60Hz
Max. process temperature	180°C	180°C
Drying air source	Compressed air	Compressed air
Stainless steel hopper	Yes (standard)	Yes (standard)
Insulation	Yes	Yes
Sliding-door discharge	Yes	Yes
Over-temperature protection	Yes	Yes
Low air pressure indication	Yes	Yes

Series comparison

Dryer type	Technology	Dew point	Power supply	Typical use
MDD (DES)	Two-tower regenerative adsorption	-50°C	400V/3f	PA, PC, PET, PBT – high capacity
MDS	Membrane, compressed air	-50°C	230V/1f	PA, PC, PET – compact, no stand required
MES	Membrane, compressed air	-25°C	230V/1f	PA, ABS – lower moisture sensitivity
MD 2-G/4-G	Compact compressed air	-40°C	230V/1f	Small hopper, compact – for placing beside the injection moulding machine

Quotation: There is no price list for the dryers – an individual quotation is required in every case. To select the right model, the following information is needed: material type, required drying capacity (kg/h), hopper size requirement and installation conditions. Please contact CIS!

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