

AIR DEHUMIDIFICATION UNITS “MD” RANGE

The new series of air dehumidification systems consists of 8 models ranging from 280 up to 3600 m³/h., used in many industrial processes to prevent moisture on the mould surface due to low chilled water temperatures.

They provide the optimal working conditions for improving productivity, reducing production waste.

Main Applications:

- fast moulding cycles for closures
- preforms
- thin wall containers, pails, etc.
- blow moulding
- further applications of fast moulding

The air dehumidification process enables the machine performing quick moulding cycles independently from ambient conditions thus reducing wear and maintenance of moulds.

The dehumidification system is based on solid adsorbing dessicants, using a rotor made of active metal silicates. This kind of hygroscopic materials has extremely high capacity of absorbing moisture from the air.

MD units have been developed to provide good performances and to achieve high energy saving, which represents one of the main advantages of these air dehumidifiers.



MD



TECHNICAL DATA

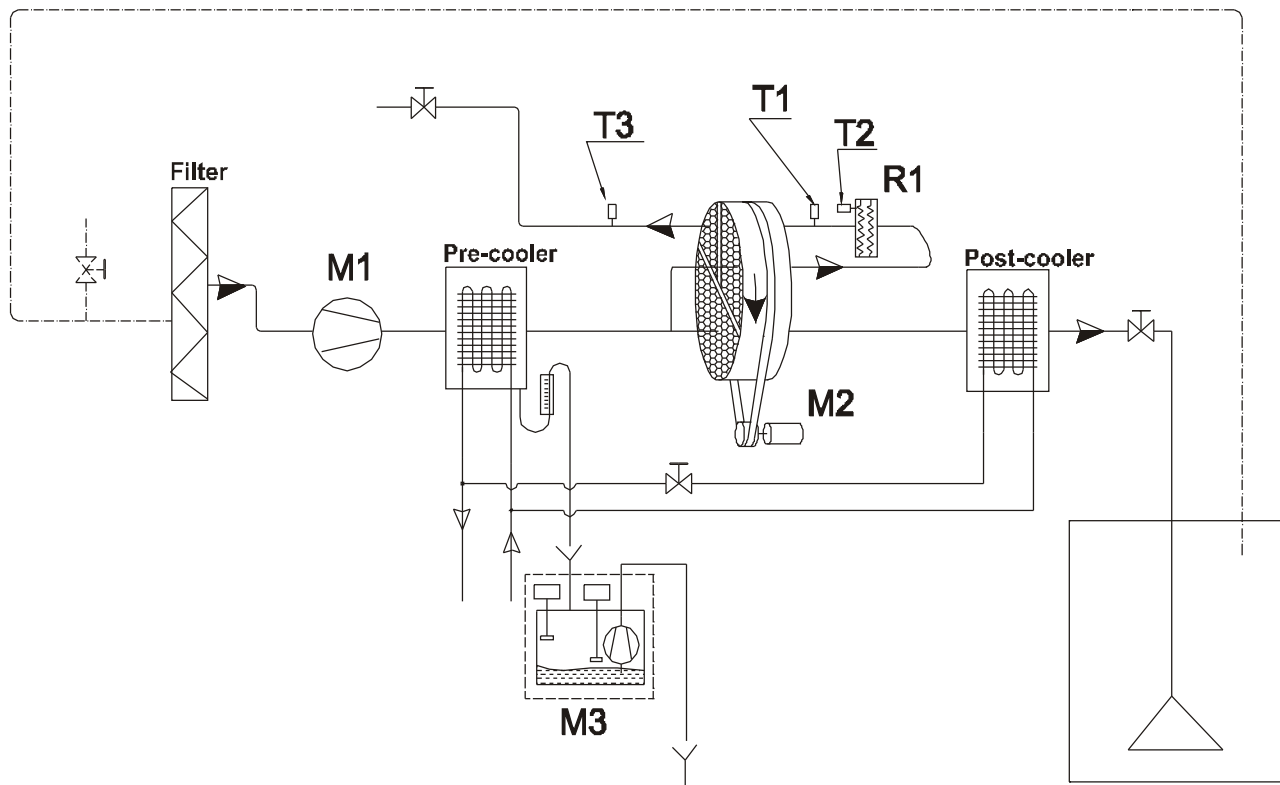


MODELS		MD10	MD 12	MD 20	MD 22	MD 30	MD 32	MD 40
PROCESS AIR FLOW	m ³ /h	280	400	650	950	1400	1900	2800
INLET AIR TEMPERATURE	°C	< 35	< 35	< 35	< 35	< 35	< 35	< 35
INLET RELATIVE HUMIDITY	r.h. %	85	85	85	85	85	85	85
OUTLET DEW POINT	°C	-8	-10	-10	-10	-10	-10	-10
OUTLET TEMPERATURE WITHOUT POST COOLER	°C	38	45	27	38	36	44	36
OUTLET TEMPERATURE WITH POST COOLER	°C	<23	<23	<23	<23	<23	<23	<23
AIR PRESSURE HEAD	Pa	450	450	450	450	450	450	450
TOTAL POWER	kW	3.05	5.03	7.03	7.06	18.03	23.05	34.05.00
WATER TEMPERATURE	°C	8	8	8	8	8	8	8
MAX. COOLING WATER FLOW	l/min.	64	64	135	135	310	310	610
WATER PRESSURE DROP	bar	2.05	2.05	2.05	2.05	2.05	2.05	2.05

NECESSARY COOLING CAPACITY WITH POST COOLING

NORTH/CENTRAL EUROPE CLIMATE	kCal/h	5000	5000	10500	10500	23000	23000	46000
SOUTH EUROPE CLIMATE	kCal/h	7500	7500	15000	15000	34000	34000	67500
EQUATORIAL CLIMATE	kCal/h	11500	11500	24000	24000	55000	55000	109000
AIR OUTLET / INLET DIAMETER	mm	160	160	160	160	250	250	300
DIMENSIONS: Weight	mm	800	800	800	800	1200	1200	1200
Depth	mm	850	850	850	850	1200	1200	1200
Height	mm	1150	1150	1600	1600	1900	1900	1900

Power supply 400V/3 ph /50 Hz



M1	PROCESS FAN	T1	REGENERATION THERMOSTAT
M2	GEARBOX FOR DESSICANT ROTOR	T2	HEATER SAFETY THERMOSTAT
M3	DISCHARGE PUMP	T3	REGENERATION OVERHEATING THERMOSTAT
R1	REGENERATION HEATER		

