

DML

Dehumidifier portable

Dehumidifying capacity 5,8 l/24h ÷ 19,9 l/24h



- New R290 natural refrigerant gas.
- Compact, manoeuvrable and silent.
- Modern design to blend with all furnishing styles.
- Removes up to 19,9 litres of humidity in 24 hours.
- Function for drying clothes quickly.



DESCRIPTION

The portable dehumidifiers of the DML range are ideal for dehumidifying domestic rooms, cellars, bathrooms and places where clothes are hung out to dry, reducing the humidity to optimum levels to avoid any risk of physical discomfort and damage to the building due to the formation of mould.

They fit in with any type of furnishings thanks to their compact, elegant design, and even have wheels so they can easily be moved from one room to another and installed where needed (plug & play).

Equipped with a specific tray for collecting the humidity removed from the room during operation.

The on-board control panel with led display and indicator lights, allows you to set the required temperature set-point easily and accurately.

FEATURES

Operation

The dehumidifier takes in the excess humidity via the recovery grille and releases humidity-free air, thereby ensuring a healthier, more comfortable environment.

In addition, its functions enable easy control of the humidity level, keeping it constant over time.

Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



- On-board control panel with led display and indicator lights.
- Visual display of the humidity setting and that read in the room.
- Relative humidity setting between 80% and 35%.
- Particularly quiet operation.
- Regenerable air filter easy to remove and clean.
- Alarm signal for filter cleaning.
- Alarm signal for condensate discharge tray full or badly positioned.
- Possibility to continuously drain off the condensate without using the tray supplied.
- Self-diagnosis function.
- Auto switch-off function: the unit stops operating when the condensate discharge tray is full or badly positioned, or when it has reached the defined work set-point.
- Auto-restart function.

DML 200

- New R290 natural refrigerant gas.
- On-board control panel with led display and indicator lights.
- Visual display of the humidity setting and that read in the room.
- Relative humidity setting between 80% and 35%.
- Particularly quiet operation.
- Regenerable air filter easy to remove and clean.
- Alarm signal for filter cleaning.
- Alarm signal for condensate discharge tray full or badly positioned.
- Possibility to continuously drain off the condensate without using the tray supplied.
- Self-diagnosis function.
- Auto switch-off function: the unit stops operating when the condensate discharge tray is full or badly positioned, or when it has reached the defined work set-point.
- Auto-restart function.
- Anti-freeze function.
- 3-speed fan, to meet every possible need.
- Timer for programming switch-off and switch-on.

DML 100 - 120

- New R290 natural refrigerant gas.

ACCESSORIES AS STANDARD

DML100-120

— Wheels

— Cable fastener clamp

DML200

— Condensate discharge coupling

PERFORMANCE SPECIFICATIONS

		DML100	DML120	DML200
Nominal performance (1)				
Dehumidifying capacity	l/24h	10,1	12,0	19,9
Input power	W	210	210	340
Input current	A	1,3	1,3	1,6
Nominal performance (Standard EN 810) (2)				
Dehumidifying capacity	l/24h	5,8	6,7	12,0
Electric data				
Rated power input (3)	W	250	250	390
Rated current input (3)	A	1,5	1,5	2,6
Hourly energy consumption	kWh/60min	0,2	0,2	0,3
Compressor				
Type	type	Reciprocating		Rotary
Refrigerant	type	R290		
Refrigerant charge	g	50	60	80
Potential global heating	GWP		3	
Equivalent CO ₂	t	0,15	0,18	0,24
Fan				
Type	type	Axial		
Air flow rate				
Nominal	m³/h	90	90	-
Maximum	m³/h	-	-	140
Average	m³/h	-	-	130
Minimum	m³/h	-	-	120
Sound power				
Nominal	dB(A)	53,0	53,0	-
Maximum	dB(A)	-	-	52,0
Average	dB(A)	-	-	51,0
Minimum	dB(A)	-	-	49,0
Sound pressure (4)				
Nominal	dB(A)	41,0	41,0	-
Maximum	dB(A)	-	-	42,0
Average	dB(A)	-	-	41,0
Minimum	dB(A)	-	-	39,0
Condensate drainage basin				
Capacity	l	1,5	1,5	3,2
Power supply cable				
Type of power supply cable	Type	Schuko		
Power supply				
Power supply		220-240V ~ 50Hz		

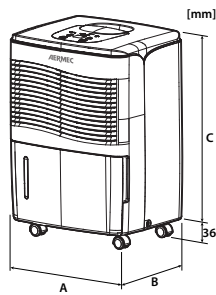
(1) Indoor air temperature 30°C D.B. / 27°C W.B.

(2) Indoor air temperature 27°C b.s./21°C b.u. (Tested according to EN 810)

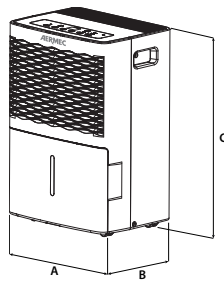
(3) Tested according to EN 60335.

(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

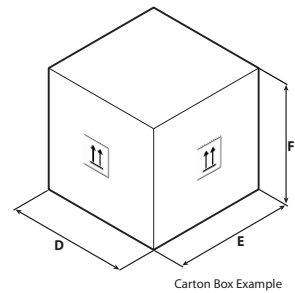
DIMENSIONS AND WEIGHTS



DML100-120



DML200



Carton Box Example

		DML100	DML120	DML200
Dimensions and weights				
A	mm	310	310	340
B	mm	243	243	250
C	mm	400	400	495
D	mm	345	345	421
E	mm	286	286	303
F	mm	437	437	525
Net weight	kg	12	12	13
Weight for transport	kg	13	13	15

Aermec reserves the right to make any modifications deemed necessary.
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responsibility or liability for errors or omissions.

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DMH_DMV

Dehumidifiers

Cooling Capacity 2,5kW ÷ 6,2kW

Heating Capacity 2,8kW ÷ 6,2kW



DMH220 / DMH220C
DMH360 / DMH360C



DMV220

- Better performance compared to traditional dehumidifiers
- Reduced consumption
- Prevents condensation on the floor surface

Dehumidifiers are refrigerant cycle machines combined with radiant air-conditioning systems, from which they draw a certain water flow rate to increase the dehumidification efficiency and reduce electricity consumption.

The cooling systems employ chilled water at temperatures between 15°C and 20°C, which is enough to take the rooms to the desired temperature, but not suitable for dehumidification. To lower the latter, you would need water at 7°C, resulting in a reduction in the performance of the water chiller compared to when the water is produced at 15-20°C.

Water-cooled refrigerant cycle dehumidifiers are used to keep the air humidity at optimal values (55-65%) in rooms, with the following benefits compared to other systems:

- They employ the chilled water available in the radiant panel system;
- They are used to process the air without modifying its temperature and, therefore, without affecting the operation of the radiant panels and their adjustment system.

STRUCTURE: The galvanised sheet metal panels, lined on the inside with a soundproofing polyethylene covering.

FILTERING SECTION: Synthetic filtering baffle th. 12 mm made with a galvanised sheet metal frame, efficiency class G3, can be removed from the front.

COOLING CIRCUIT: consisting of a R134a alternative refrigerant compressor, freon filter, expansion capillary, evaporator and condenser with copper pipes and continuous louvered fin louvers, with hydrophilic treatment and aluminium frame (for "-C" cooling versions, water-freon condenser).

HYDRAULIC CIRCUIT: with pre-treatment and post-cooling coils featuring with copper pipes and continuous louvered fin louvers, with hydrophilic treatment and aluminium frame; for "-C" cooling versions, plate water condenser (no post-cooling); stainless steel condensate drip tray extended to the whole treatment.

FAN: double intake centrifugal fan with blades facing forwards, with multi-speed motor directly coupled; 3 different electrical connections available (H/M/L) for the functioning speed; the manufacturer's default setting is medium (M) speed.

ELECTRIC CONTROL BOARD: it includes the recessed electronic board to adjust and control the built-in control panel with a keyboard and LCD display.

ACCESSORIES

DMUM: ambient humidistat. Wall installation

DMWB: outer casing for vertical model. Vertical installation

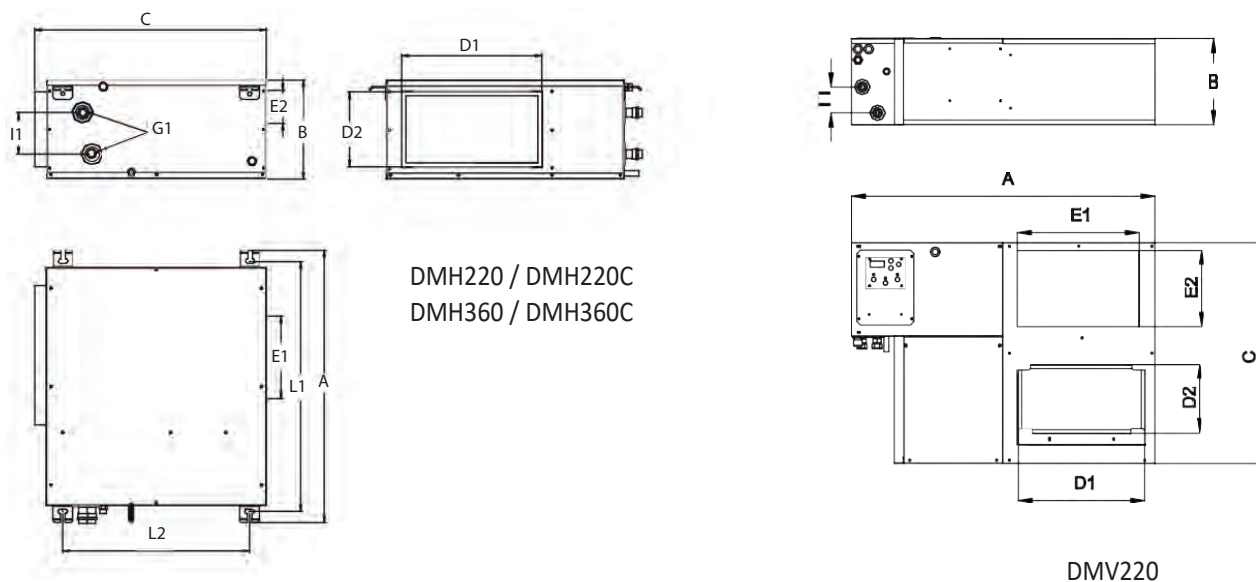
DMFP: front panel for outer casing. Vertical installation

TECHNICAL DATA

MODEL		DMH 220	DMH 220C	DMH 360	DMH 360C	DMV 220
Condensed humidity	l/24h	22	22	36	36	22
Power at the evaporator	W	1020	1020	1480	1480	1020
Power dissipated with water	W	870	1820	1540	2680	870
Nominal water flow rate	m3/h	0,34	0,39	0,46	0,55	0,34
Water pressure drop	kPa	3	3	10	10	3
Available sensitive power	W	--	840	--	1340	--
Electric power supply	V/ph/Hz	230/1/50				
Total input power	W	350	350	580	580	350
Input current	A	2,0	2,0	3,2	3,2	2,0
FAN						
Type	double intake centrifugal					
Available fan speeds	H / M / L					
Nominal fan setting		M	M	M	M	M
Air flow rate	m ³ /h	220	220	360	360	220
Useful static pressure	Pa	20	20	20	20	0
COMPRESSOR						
Type	Reciprocating compressor					
Refrigerant	Tipo / GWP	R134a / 1430kgCO ₂ eq				
Load amount	g	340	340	400	400	340
OPERATING LIMITS						
Intake air temperature	°C	15 ÷ 32				
Water inlet temperature (dehumidifying mode)	°C	10 ÷ 21				
SOUND LEVEL						
Sound pressure level at 1 m	dB(A)	42	42	47	47	39

The performance refers to the nominal air flow rate under the following conditions:
Ambient air: 26°C BS, UR 65%; Water inlet temperature 15°C.

DIMENSIONS



MODEL	DIMENSIONS [mm]											[kg]
	A	B	C	D1	D2	E1	E2	I1	L1	L2	G1	
DMH220 / DMH220C	693	250	623	337	172	210	77	115	635	370	1/2" F	35
DMH360 / DMH360C	793	270	623	437	192	250	95	115	735	370	1/2" F	40
DMV220	850	240	615	337	172	350	215	75 (*)	--	--	1/2" F	40

(*) pre-shearing for hydraulic and electrical connections on the side, rear and bottom panel

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