

The MD range of Dehumidifiers

Power Portables from SPC

A range of powerful Dehumidifiers offering unsurpassed performance, maximum reliability and true portability.

MD160
&
MD200



MD100

Up to
200 litres
a day moisture
removal
27°C 60% ASHRAE

Advancing the science of
Dehumidifiers using Heat Pipe Technology

SPC

Benefits of Dehumidification

ENSURING GOOD CONTROL OF HUMIDITY LEVELS HAS BENEFITS IN:

Indoor Air Quality

High humidity is implicated in Sick Building Syndrome.

Bio-Activity - Germs, Mould and Mildew

Humidity is absorbed or condenses on building surfaces and provides a growing medium for bio-agents.

Product Quality

High humidity encourages food spoiling and can affect the life and finish of many products.

Personal Comfort

Moderate levels of humidity permit the body's cooling mechanisms to work better, and there is a greater tolerance of temperature variations.

Conservation

Controlled humidity can prevent damage to books and art work.

Equipment Efficiency

High humidity soaks up latent capacity in refrigeration equipment.

Heat Pipe Technology - Cut Costs By using our experience of Heat Pipe technology which is incorporated in the Dehumidification units, we are able to provide increased performance with savings in energy costs.

A New Approach

SPC MD Dehumidifiers are *different* and *better* than equivalent standard portable dehumidifiers:

- The SPC range of Dehumidifiers has at its heart a patented Heat Pipe loop which outperforms standard technology by squeezing out more moisture per kW of input power.
- In addition, SPC units are built to provide years of quiet, trouble-free operation.

The dehumidifier is based around a closed refrigeration system comprising evaporator coil, condenser coil, expansion valve and compressor. It uses heat pipes to increase the cooling efficiency, allowing more moisture to be removed than conventional dehumidifiers. A two speed fan is used to draw air in through a filter and across the evaporator and discharge it through the condenser. Moisture is removed from the entering humid air at the evaporator coil, collected in a drain pan, removed by gravity drainage or pumped away by the integral condensate pump.

PORTABLE

Where do I need Dehumidification?

Wherever air can stagnate and moisture collect in an enclosed area.

Typical applications are:

- Hotels
- Warehousing
- Hospitals
- Offices
- Factories
- Restaurants
- Indoor Pools
- Plant Rooms

Wherever you have a problem: perhaps from change of use, or where humidity wasn't considered at the outset.

Even buildings which are air-conditioned can have humidity problems.

MD160 & MD200



MD100

NOMINAL SPECIFICATION

MODEL	MD100	MD160	MD200
Dehumidification capacity at 27°C 60% RH (ASHRAE) Ltrs/day	100	160	200
Air Delivery FID (cfm) (Ltrs/sec)	530 250	1280 600	1280 600
Nominal running current at 27°C 60% RH	11	13	16
	NB- Running current varies with air conditions. If the MD160 is to be used above 27°C 60% RH, ie, a wet bulb temperature of 21°C it must be hard wired to a 20 Amp supply.		
Size H x W x D (mm)	920 x 690 x 770	1234 x 690 x 770	1234 x 690 x 770
Weight (kg)	150	169	173
Mounting	Wheels and Skids		
Compressor	HBP Reciprocating /scroll		
Refrigerant	R22		
Condense removal	Integral condense pump and facility for gravity drainage		
Filtration	Low maintenance washable EU 1/2 filter		
Manual controls	On/Off. Two speed fan control Humidistat range settings: 30% - 65% Fan only/Humidistat controlled dehumidification.		
Safety Features	High pressure - auto reset. Low pressure - auto reset. Condense pump failure/blockage - auto reset.		

POWERFUL DEHUMIDIFIERS - Offering unsurpassed performance

PERFORMANCE CURVES FOR THE MD RANGE OF DEHUMIDIFIERS

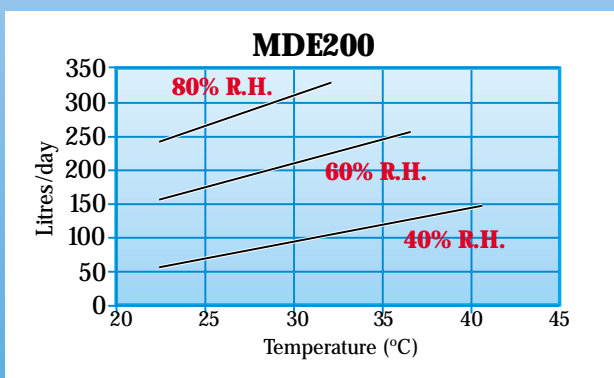
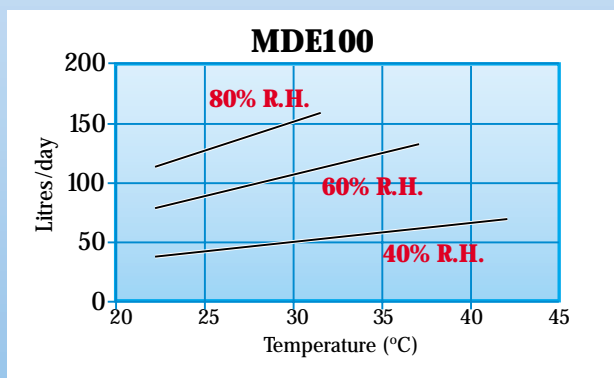
Performance

The MD range of Dehumidifiers are designed to operate from 12°C / 60% RH to 40°C / 50% RH.

Minimum operating conditions correspond to a wet bulb temperature of 15°C).

Performance is dependant upon both dry bulb temperature and relative humidity.

The nominal moisture removal rates for a range of operating conditions are shown below.



CONTROL PANEL FOR THE MD RANGE OF DEHUMIDIFIERS



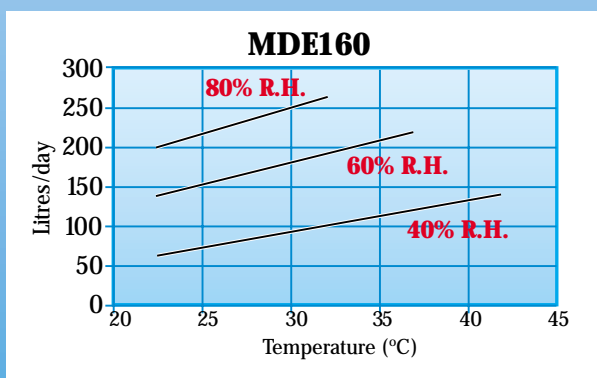
On/off switch

Power on indicator

Two speed fan switch

High condense level indicator

Fan only/
dehumidification switch



SPC Ltd. reserve the right to improve or amend specifications without prior notice.

SPC

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S & P COIL PRODUCTS LIMITED, SPC HOUSE · EVINGTON VALLEY ROAD · LEICESTER · LE5 5LU · ENGLAND
Telephone: + 44 (0)116 249 0044 Fax: + 44 (0)116 249 0033 Email: spc@spcoils.co.uk www.spcoils.co.uk