

Dantherm[®]
CLIMATE SOLUTIONS



PRODUCT GUIDE

DHC 33-55-77

COMMERCIAL DEHUMIDIFIERS FOR STORAGE, PRESERVATION, INDUSTRY,
DRYING ROOMS, ARCHIVES AND GALLERIES

DANTHERMGROUP

DHC 33-55-77



DHC 55

The Dantherm DHC 33-55-77 are wall-mounted dehumidifiers that stand out for their high-performance and high-capacity. The DHC wide range of units offers great dehumidification capacities and low energy consumption per liter extracted.

The DHC range's advanced control system allows you to adjust the humidity levels to your desired level. DHC features enable operation in temperatures as low as 3°C. Designed for commercial and industrial spaces.



- Great dehumidification capacities
- Low Specific Energy Consumption (SEC)
- Low sound pressure levels
- Wider range of units (incl. size: **77**)
- Modbus RS485 RTU communication
- Wireless remote control of setpoints and visibility of room conditions
- Optional remote combi RH/T sensor w/10m cable
- External fan(s) operating on an independent secondary RH setpoint
- USB-A port for data logging and software update
- Continuous, Auto, or Sensing fan operational mode
- Various accessories for specific project customizability

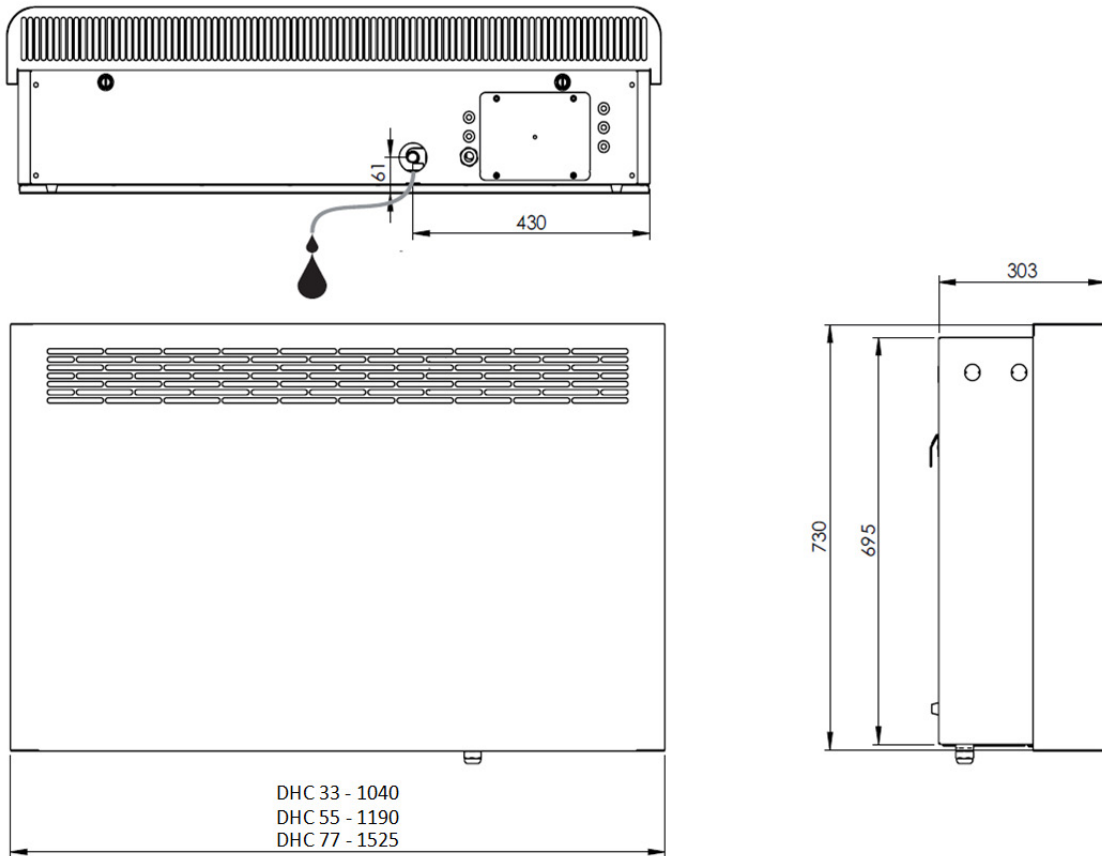


DHC 55

DHC 33-55-77



Dimensions (mm)



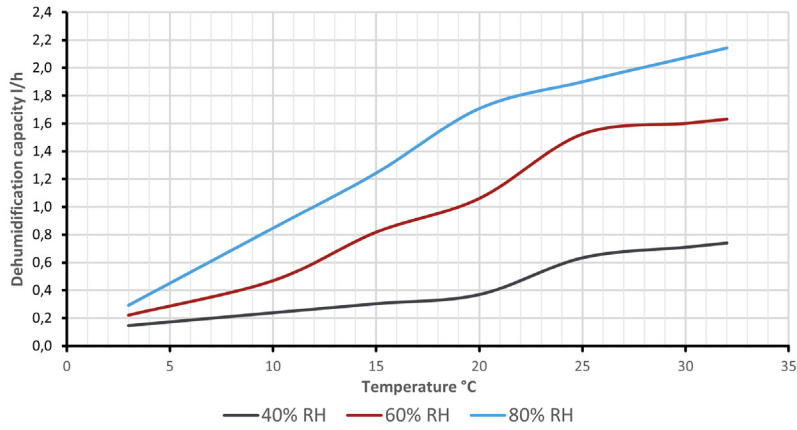
Specifications	Units	DHC 33	DHC 55	DHC 77
Operating temperature range	°C	3-32	3-32	3-32
Operating humidity range	%	40-100	40-100	40-100
Dehumidification @ 20°C/60% RH	l/24h	25	40	43
SEC @ 20°C/60% RH	kWh/l	0.57	0.61	0.45
Air flow	m ³ /h	400	680	900
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Power consumption @ 20°C/60% RH	kW	0.60	1.01	0.80
Power consumption max.	kW	0.9	1.5	1.8
Heat recovered @ 20°C/60% RH	kW	1.5	2.2	3.5
Sound pressure level @ 1m	dB(A)	46	47	50
R407C gas weight/CO ₂ equivalent	kg/t	0.7/1.24	0.9/1.60	1.2/2.13
Product size (w x d x h)	mm	1040 x 317 x 730	1190 x 317 x 730	1525 x 317 x 730
Weight	kg	58.0	66.5	77.0

DHC 33-55-77



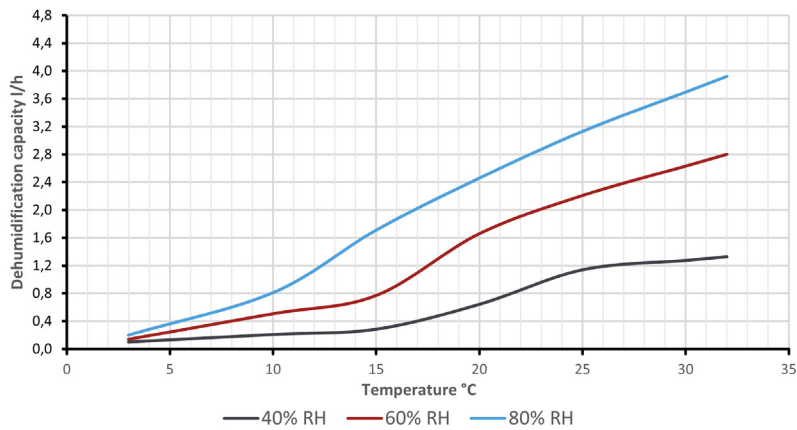
Performance data

DHC 33



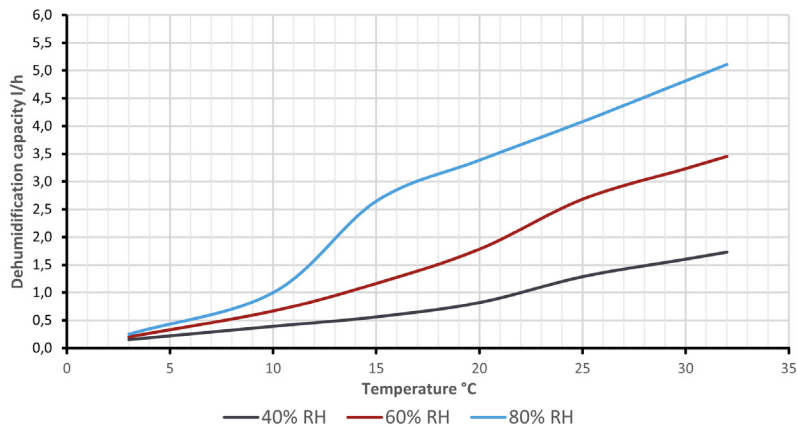
Specific energy consumption (SEC):
0.57 kWh/l at 20°C & 60% RH

DHC 55



Specific energy consumption (SEC):
0.61 kWh/l at 20°C & 60% RH








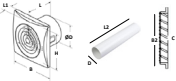
DHC 77



Specific energy consumption (SEC):
0.45 kWh/l at 20°C & 60% RH

Optional accessories

Each unit comes with a wall-mounting installation bracket ready for easy installation of the new dehumidifier.
For added configuration of a given dehumidifier, please see the table below.

Illustration	Accessory	Description	Code
	Remote controller, DRC	Wireless remote controller for simple monitoring of room conditions and/or adjustability of setpoints. Frequency: 868MHz Range: up to 50m (depending on signal blockage from wall material, etc.) Reading and adjusting RH, temperature, alarms, and service information	112450
	External RH/T sensor	Remote combi sensor for relative humidity and temperature with a 10m wired connection.	051710
	Floor mounting kit, 2 pcs.	Two brackets for installation under the dehumidifier for floor mounting purposes. Colour: RAL 7010	30102148
	Water heating coil	Compact water heating coil for easy mounting on top of the condenser. The kit comprises of the water heater, flexible hoses, fittings, gaskets, and a relay. Capacities*: • 2.6 kW • 4.2 kW • 6.2 kW (*depending on dehumidifier size and in-/outlet temperatures. Here 80/60°C)	094333 094334 094335
	DN 10 control valve and actuator for water heating coils	Valve and 230 V actuator and for ON/OFF, with unit nuts Ø12mm	094340
	Electrical heating coils	Resistance heaters including relays and wires. Capacities*: • 2.0 kW • 3.5 kW • 5.0 kW (*depending on unit size)	094336 094337 094338
	Exhaust fan, low air flow	The exhaust fan can be used in combination with the DHC to either increase dehumidification capacity and/or ensuring negative pressure between the out- and inside. Low air flow: Power supply: 230 V/50 Hz Power consumption: 7.5W Air volume: 97m ³ /h Sound level: 25dB(A) Diameter: 100mm	094339
	Exhaust fan, high air flow	High air flow: Power supply: 230 V/50 Hz Power consumption: 17W Air volume: 185m ³ /h Sound level: 32dB(A) Diameter: 125mm	094341

DENMARK

Dantherm Denmark A/S
DK-7800 Skive
+45 96 14 37 00
sales.dk@danthermgroup.com

GERMANY

Trotec GmbH
52525 Heinsberg
+49 2452 962-0
vertrieb.de@danthermgroup.com

FRANCE

Dantherm Group SAS
69694 Vénissieux Cedex
+33 4 78 47 11 11

67850 Herrlisheim
+33 3 90 29 48 18
sales.fr@danthermgroup.com

SPAIN

Dantherm Group SP SAU
28108 Alcobendas, Madrid
+34 91 661 45 00

46980 Paterna, Valencia
+34 961 524 866
sales.es@danthermgroup.com

UNITED KINGDOM

Dantherm Group Ltd
Maldon CM9 4XD
+44 (0)1621 856611
sales.uk@danthermgroup.com

ITALY

Dantherm Group S.p.A.
37010 Pastrengo (VR)
+39 045 6770533
sales.it@danthermgroup.com

POLAND

Dantherm Group Sp. z o.o.
62-023 Gądki
+48 61 65 44 000
sales.pl@danthermgroup.com

NORWAY

Dantherm Group AS
3138 Skallestad
+47 33 35 16 00
sales.no@danthermgroup.com

SWEDEN

Dantherm Group AB
602 13 Norrköping
+46 (0)11 19 30 40
sales.se@danthermgroup.com

SWITZERLAND

Dantherm Group AG
CH-5405 Baden Dättwil
+41 43 500 00 50
sales.ch@danthermgroup.com

Sales contact:

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