Dantherm®
CLIMATE SOLUTIONS

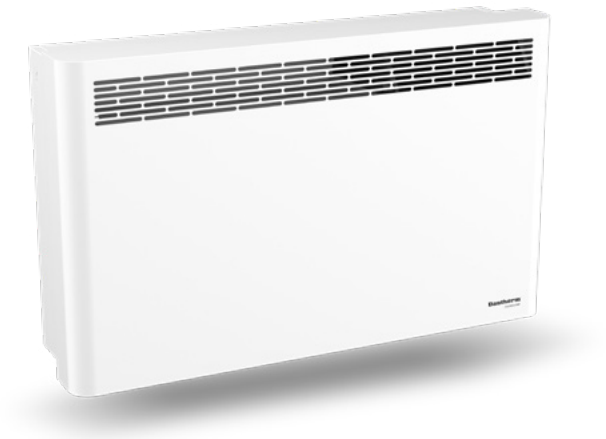
PRODUCT GUIDE

DHP 33-55-77 AND TTW SERIES

DEHUMIDIFIERS FOR IN-ROOM OR THROUGH-THE-WALL INSTALLATION
IN PRIVATE, WELLNESS CENTRES AND MORE

DANTHERMGROUP

DHP 33-55-77

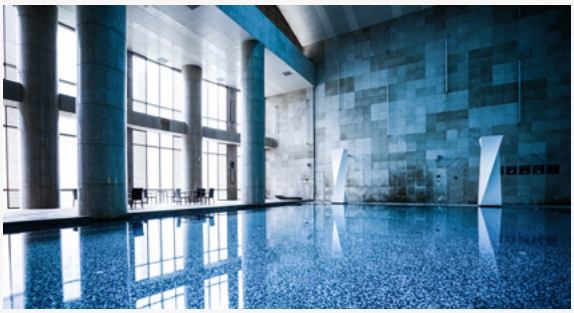


DHP 55

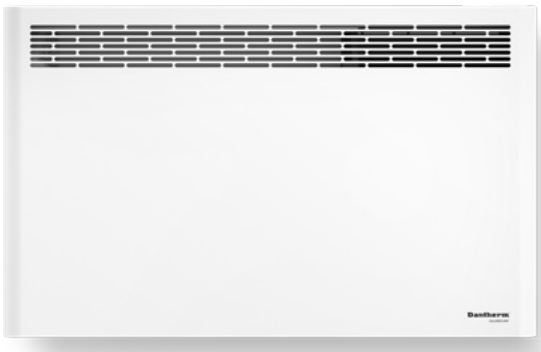
The DHP 33-55-77 are wall-mounted pool dehumidifiers that stand out for their high-performance and high-capacity. They offer great dehumidification capacities and a low energy consumption per liter extracted (SEC). The minimal energy consumption reduces your energy bills while also lowering your CO_2 footprint.

The DHP dehumidifiers have been fitted with an advanced and optimised control system that allows you to adjust the humidity levels to your desired level very accurately. All models operate effortlessly in temperatures as low as 10°C.

The range has been designed for use in both private and spa environments of varying sizes.



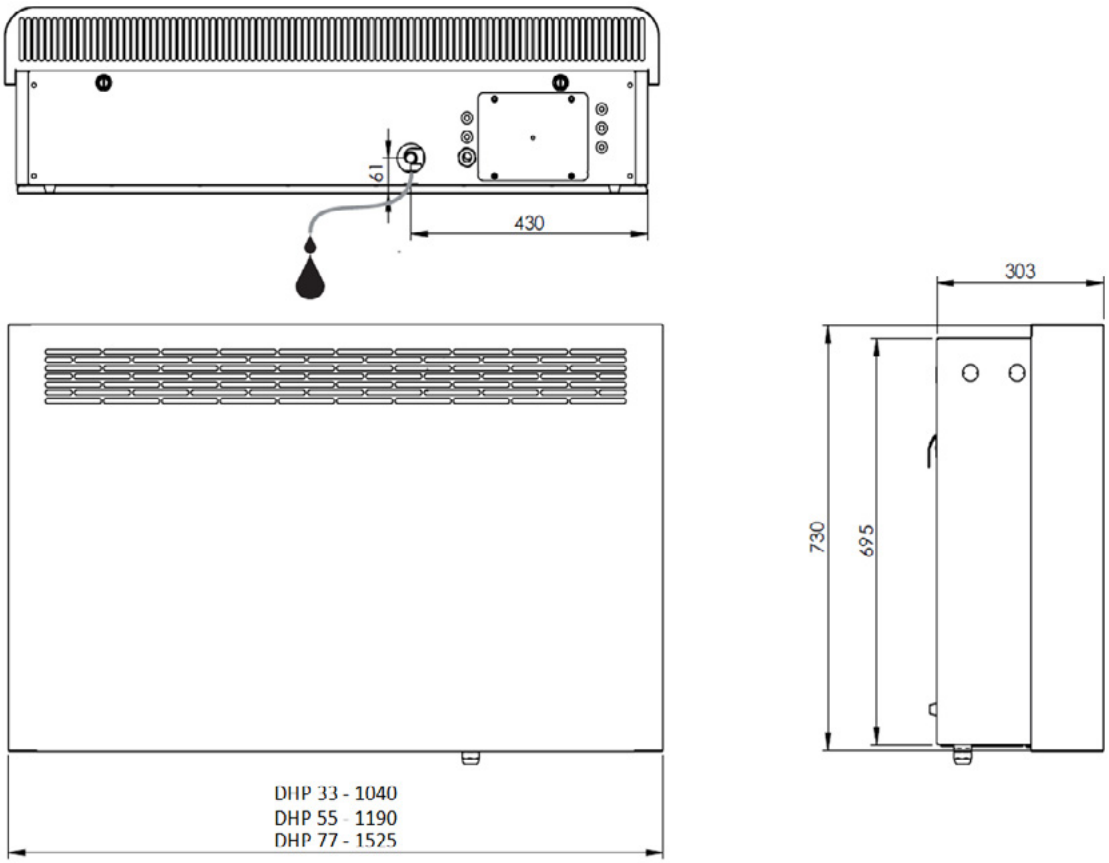
- Great dehumidification capacities
- Low Specific Energy Consumption (SEC)
- Low sound pressure levels
- Wider range of units (incl. size: 77)
- Modbus RS485 RTU communication
- Wireless remote control of setpoints and visibility of room conditions
- Optional remote combi RH/T sensor w/10m cable
- External 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 customisability



DHP 55

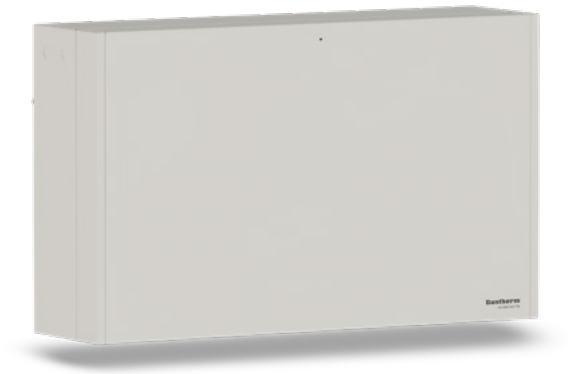
DHP 33-55-77

Dimensions (mm)



Specifications	Units	DHP 33	DHP 55	DHP 77
Operating temperature range	°C	10-36	10-36	10-36
Operating humidity range	%	40-100	40-100	40-100
Dehumidification @ 30°C/60% RH	l/24h	38	63	78
SEC @ 30°C/60% RH	kWh/l	0.44	0.49	0.41
Air flow	m^3/h	400	680	900
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Power consumption @ 30°C/60% RH	kW	0.70	1.30	1.33
Power consumption max.	kW	0.9	1.5	1.8
Heat recovered @ 30°C/60% RH	kW	2.2	3.4	4.8
Sound pressure level @ 1m	dB(A)	46	47	50
Colour		RAL 9016	RAL 9016	RAL 9016
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

DHP 33-55-77 TTW



DHP 55 TTW

The DHP 33-55-77 TTW are wall-mounted pool dehumidifiers for through-the-wall installation in adjacent rooms. The dehumidifiers stand out for their high-performance and high-capacity. They offer great dehumidification capacities and a low energy consumption per liter extracted (SEC). The minimal energy consumption reduces your energy bills while also lowering your CO_2 footprint.

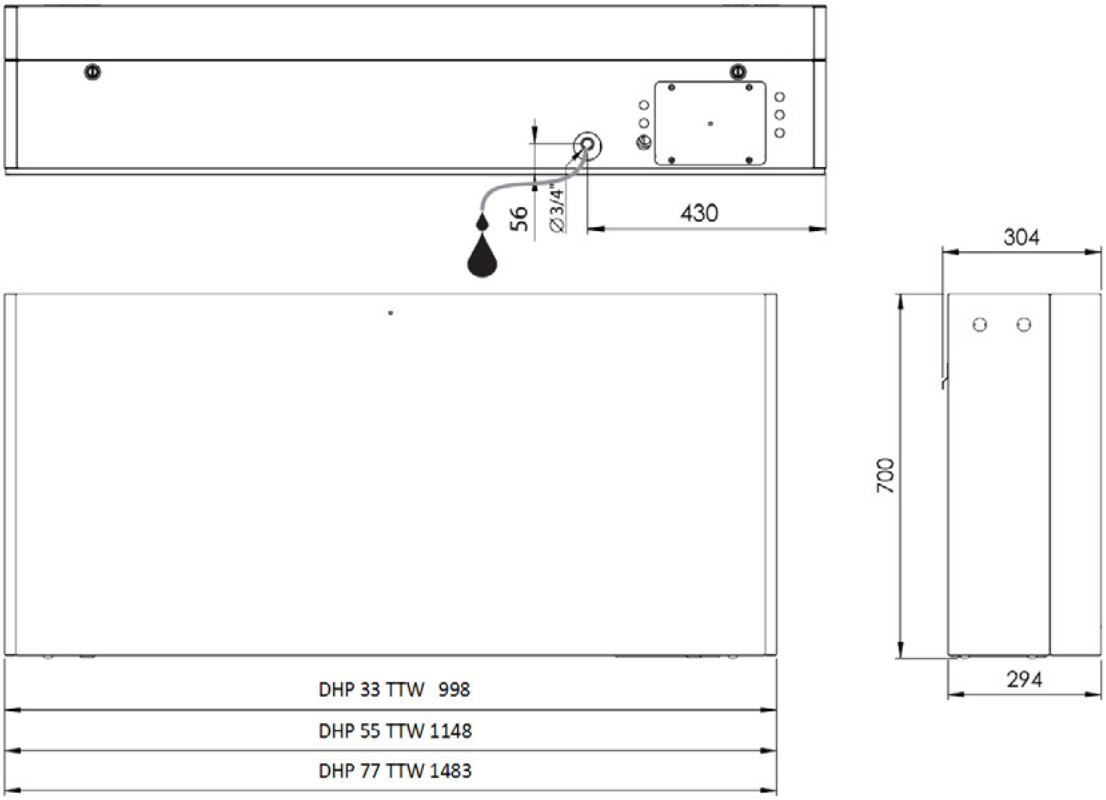
The DHP dehumidifiers have been fitted with an advanced and optimised control system that allows you to adjust the humidity levels to your desired level very accurately. All models operate effortlessly in temperatures as low as 10°C.

The range has been designed for use in both private and spa environments of varying sizes.

- 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 customisability
- For through-the-wall installation in adjacent rooms

DHP 33-55-77 TTW

Dimensions (mm)

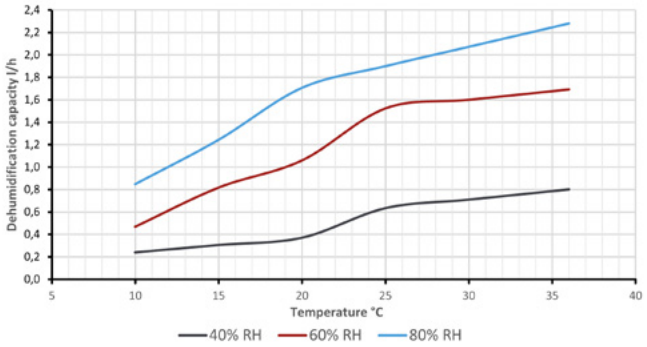


Specifications	Units	DHP 33 TTW	DHP 55 TTW	DHP 77 TTW
Operating temperature range	°C	10-36	10-36	10-36
Operating humidity range	%	40-100	40-100	40-100
Dehumidification @ 30°C/60% RH	l/24h	35	57	81
SEC @ 20°C/60% RH	kWh/l	0.47	0.48	0.43
Air flow	m^3/h	400	680	900
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Power consumption @ 20°C/60% RH	kW	0.69	1.04	1.24
Power consumption max.	kW	0.9	1.5	1.8
Heat recovered @ 20°C/60% RH	kW	2.0	3.0	4.2
Sound pressure level @ 1m	dB(A)	43	44	47
Colour		RAL 7035	RAL 7035	RAL 7035
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	998 x 304 x 700	1148 x 304 x 700	1483 x 304 x 700
Weight	kg	57.5	66.0	77.5

DHP 33-55-77 | DHP 33-55-77 TTW

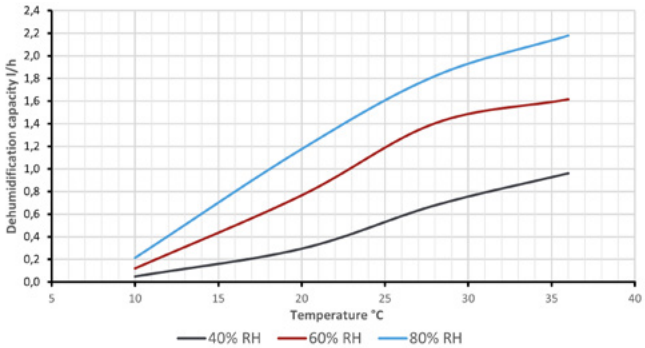
Performance data

DHP 33



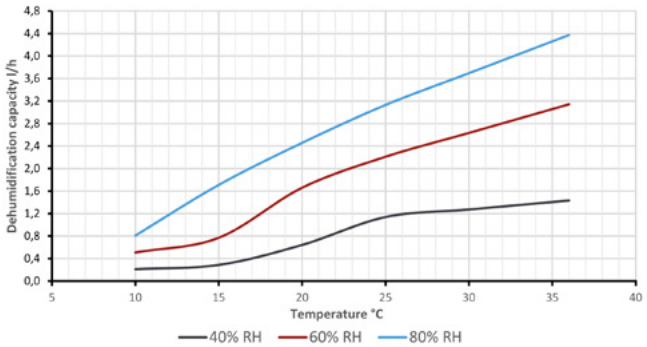
Specific energy consumption (SEC):
0.47 kWh/l at 30°C & 60% RH

DHP 33 TTW



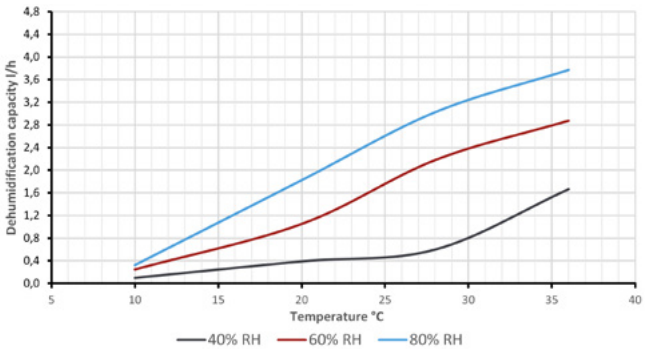
Specific energy consumption (SEC):
0.47 kWh/l at 30°C & 60% RH

DHP 55



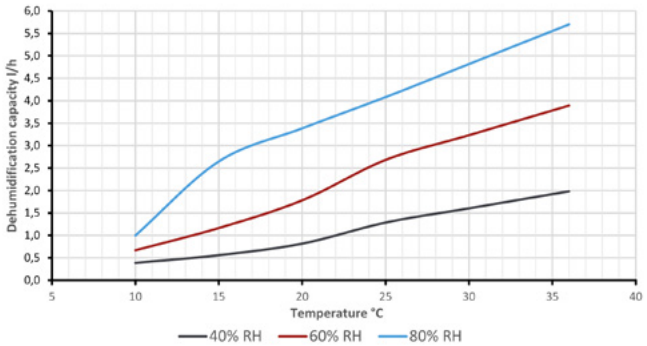
Specific energy consumption (SEC):
0.48 kWh/l at 30°C & 60% RH

DHP 55 TTW



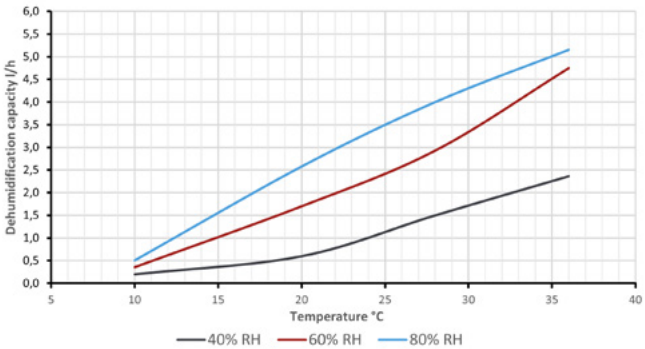
Specific energy consumption (SEC):
0.48 kWh/l at 30°C & 60% RH

DHP 77



Specific energy consumption (SEC):
0.43 kWh/l at 30°C & 60% RH

DHP 77 TTW

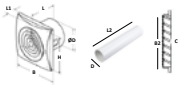


Specific energy consumption (SEC):
0.43 kWh/l at 30°C & 60% RH

DHP 33-55-77 | DHP 33-55-77 TTW

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
	Through-wall duct kit	Through-wall duct kit with filter, extension kit and aluminium grill. Comprises inlet and outlet section, grills, inlet filter and extension. For walls between 70 and 366mm thickness.	094243
	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: 97m³/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: 185m³/h Sound level: 32dB(A) Diameter: 125mm	094341

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CLIMATE SOLUTIONS

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