



Air Conditioning
DC Duct Cooler

At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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Air Conditioning

DC Duct Cooler



The DC duct cooler is designed for domestic and light commercial ventilation systems, providing efficient cooling of supply air during summer operation. Its compact and robust construction ensures reliable performance while maintaining low pressure losses within the duct system.

The casing is manufactured from galvanized steel and insulated with high-quality rubber matting for effective thermal and acoustic insulation. Inside the unit, a multi-row aluminium heat exchanger together with an integrated aluminium condensate tray guarantees high heat transfer efficiency and safe condensate management.

The DC model is designed for easy installation and maintenance. The heat exchanger can be accessed and removed effortlessly, and the mounting orientation can be adapted to suit left or right installation requirements. The water coil and connection pipes are made of copper, while the heat exchanger fins are aluminium, ensuring long service life and high corrosion resistance.

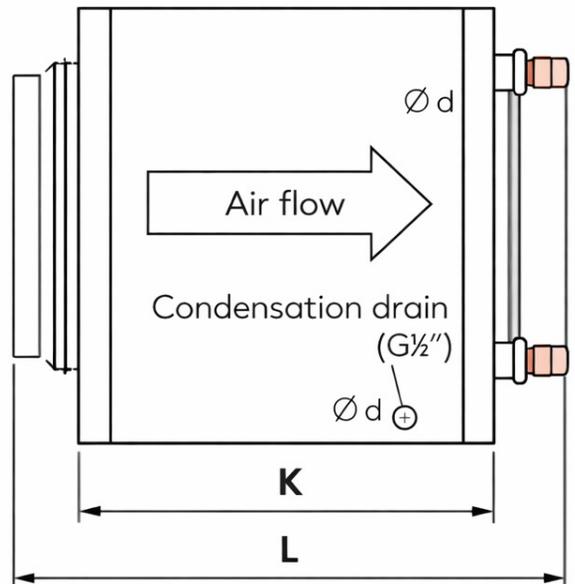
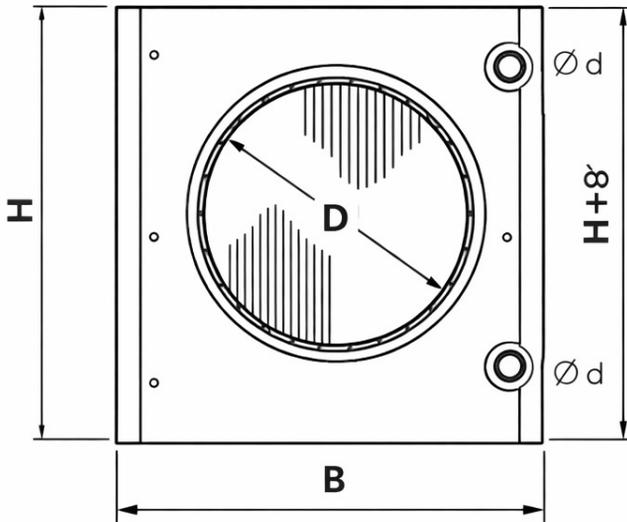
Standard M18x1 mm exchanger connections allow the use of common hydraulic fittings, while optional ½" female thread twist-on fittings provide additional flexibility. Connection pipe diameters are optimized according to the unit size to minimize pressure drops in the hydraulic circuit.

The unit is equipped with spigot duct connections with EPDM rubber seals and can be mounted either on support feet or suspended from the ceiling using special hangers.

With its durable construction, compact dimensions and efficient heat exchange performance, the DC model offers an ideal solution for cooling supply air in modern ventilation systems.

Dimensions

DC



Model	H (mm)	B (mm)	D (mm)	d (mm)	K (mm)	L (mm)	Weight (kg)	Coil inside volume (l)
DC 160	255	326	160	10	280	360	6	0.4
DC 200	330	411	200	22	280	360	9	0.7
DC 250	405	486	250	22	280	360	11	1.1
DC 315	504	560	315	22	280	360	15	1.61

*** OTHER SIZES AND MODELS AVAILABLE ON REQUEST ***

Technical Specifications

DC



Quick Selection

Model	Function	Maximum cooling power (kW)
DC 160	SECONDARY	1,851
DC 200	SECONDARY	3,173
DC 250	Preliminary	1,851
DC 315	Preliminary	3,173

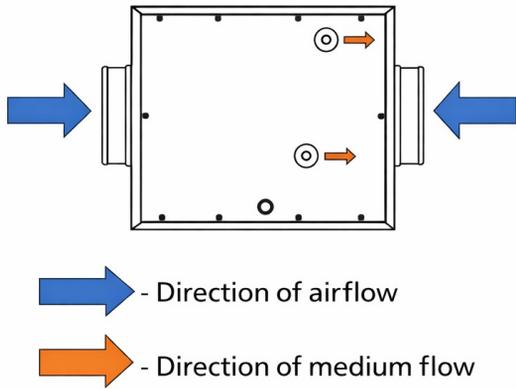
Operating parameters

- the maximum air temperature flowing through the heater: 60°C (instantaneous),
- ambient air temperature: +5 °C to +40 °C,
- maximum ambient air humidity: 90%,
- maximum operating pressure of the medium: 1.0 MPa (10bar),
- maximum temperature of the medium: 80°C,
- exchanger type: six-row

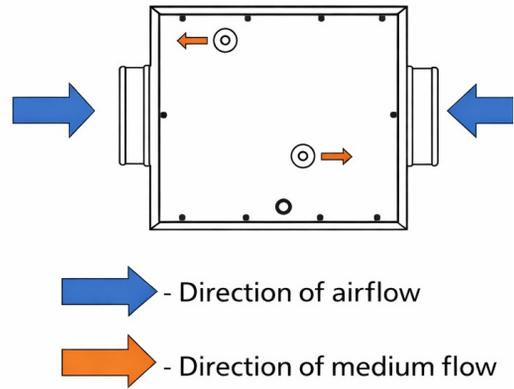
Technical Specifications

DC

right-hand version



left-hand version



Operating Parameters

Type	Air flow rate (m ³ /h)	Total power (kW)	Inlet air temperature (°C)	Relative humidity inlet (%)	Outlet air temperature (°C)	Outlet relative humidity (%)	Medium inlet temperature (°C)	Medium outlet temperature (°C)
DC 160 / DC 200	50	0,264	25	50	12	95	6	12
DC 160 / DC 200	100	0,529	25	50	12	95	6	12
DC 160 / DC 200	150	0,793	25	50	12	95	6	12
DC 160 / DC 200	200	1,058	25	50	12	95	6	12
DC 160 / DC 200	250	1,322	25	50	12	95	6	12
DC 160 / DC 200	300	1,586	25	50	12	95	6	12
DC 160 / DC 200	350	1,851	25	50	12	95	6	12

Cooling medium flow rate 0,261 m³/h. Cooling medium flow velocity 0,3 m/s. Cooling medium flow resistance 6,111 kPa

DC 250 / DC 315	50	0,264	25	50	12	95	6	12
DC 250 / DC 300	100	0,529	25	50	12	95	6	12
DC 250 / DC 300	150	0,793	25	50	12	95	6	12
DC 250 / DC 300	200	1,058	25	50	12	95	6	12
DC 250 / DC 300	250	1,322	25	50	12	95	6	12
DC 250 / DC 300	300	1,586	25	50	12	95	6	12
DC 250 / DC 300	350	1,851	25	50	12	95	6	12
DC 250 / DC 300	400	2,115	25	50	12	95	6	12
DC 250 / DC 300	450	2,38	25	50	12	95	6	12
DC 250 / DC 300	500	2,644	25	50	12	95	6	12
DC 250 / DC 300	550	2,909	25	50	12	95	6	12
DC 250 / DC 300	600	3,173	25	50	12	95	6	12

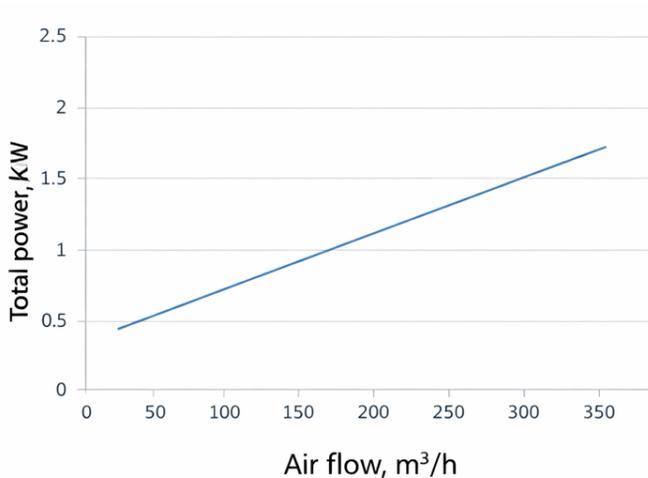
Cooling medium flow rate 0.437 m³/h. Cooling medium flow velocity 0.403 m/s. Cooling medium flow resistance 10.579 kPa

Performance

DC

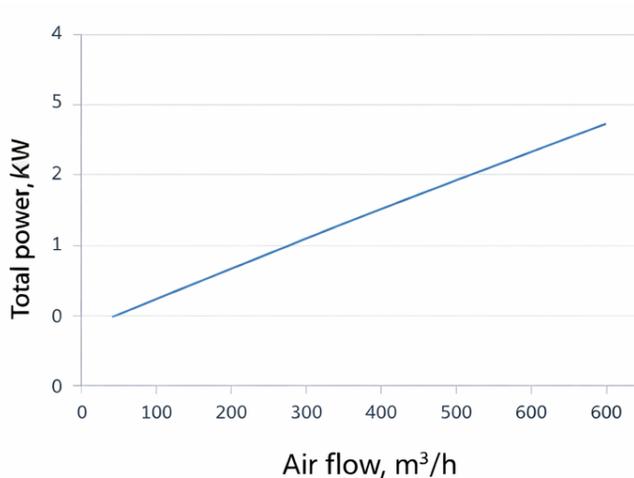
Cooling power

DC 160 / DC 200



— Total cooling power (

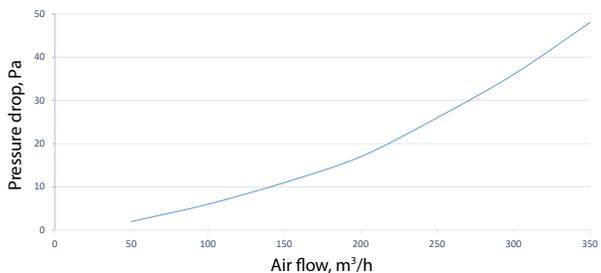
DC 250 / DC 315



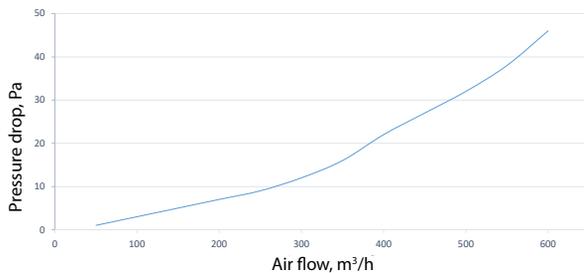
— Total cooling power (

Pressure drop

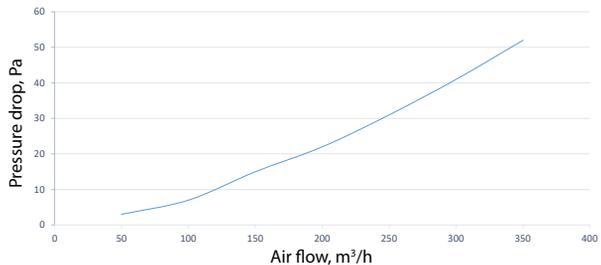
DC 160



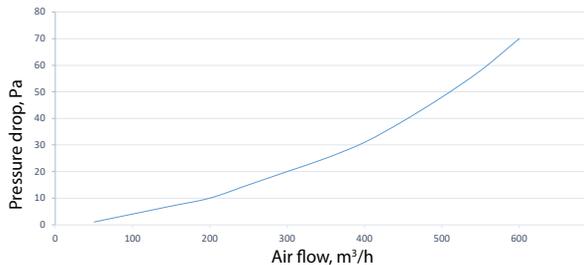
DC 200



DC 250



DC 315



Accessories

IOTA

Drift Eliminator

DE



Drain Pan

DP



Filtrrs

C70



Control

TR24/230-SR





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SCAN ME