

Box Fan Coil

A COMPREHENSIVE SOLUTION



Two Sizes: Box Mono 598x598 and Box Double 1198x598

- Box Fan Coil for Cooling and/or Heating
- Optimized Sizing Ensures Ideal Conditions
- Compatible with Condensing, Dry Cooling, District Cooling, and Geothermal Systems



Flexible System

Box fan coils are engineered to meet the space and performance requirements of public areas. They are compatible with both 2-pipe and 4-pipe systems, as well as water and brine circuits.

Each unit is custom-sized using the Option selection software, ensuring optimal coil size, routing, and airflow for every system. Thanks to individualized sizing and routing, these fan coils are ideal for use in condensing, dry cooling, district cooling, and geothermal systems.

All units are custom-configured per order and undergo automated testing to ensure performance and quality.

The Box series includes two sizes designed for modular ceiling installations: 598x598 mm and 1198x598 mm. For applications without a suspended ceiling, an optional external casing is available.

- The InLine grille ensures draft-free and quiet cooling. The Coanda effect is achieved even at low airflow rates, significantly reducing energy consumption and noise levels. The grille allows for multiple air discharge direction variations.
- Box fan coils can be equipped with a fresh air connection.
- The InLine grille integrates seamlessly with standard modular ceilings, creating a modern and refined appearance.
- The InLine grille is available in RAL colors. The standard color is RAL 9003.
- Complete Box fan coil models are available in MagiCloud and MagiCAD.

Easy to Install and Maintain

Comprehensive configuration significantly reduces on-site workload. Each unit and its automation are individually tailored.

Device configurations can be replicated later, or individual components can be replaced without affecting the system, ensuring a long and trouble-free lifespan.

As an additional service, units can be labeled with room identifiers, streamlining large-scale project execution and ensuring correct placement on-site.

Electrical

Power Supply

230 V / 50 Hz / 1 Ph

Box Mono 20-80 (EH) [Fan]: 40 / 0.33 [W / A]

Box Double 100-160 (EH) [Fans]: 74 / 0.66 [W / A]

Accessories

Control Valve (Cooling/Heating)

CVPT/HVPT: Continuously adjustable pressure-independent 2-way control valve

CV2/HV2: 2-way valve

CV3/HV3: 3-way valve

Valve Actuator (Cooling/Heating)

AC10/AH10: 0-10 V actuator control

AC24/AH24: 24 V actuator control

Condensate Drainage

DS: Condensate pump, lift height 1 m, DoubleSafe dual-redundant condensate monitoring system

KP0: Gravity drainage

KH: Gravity drainage with alarm

HI: High version (elevated free drainage, 170 mm)

Power Supply

P15: 2.0 m power cable with plug

P30: 3.0 m power cable with plug

Filter

VS: ViralSafe filter

Fresh Air Connection

R3: Top-side connection (4 possible installation directions, one from each side, installation depth +40 mm)

R1: Right-hand connection (special connection for limited ceiling depth)

R2: Left-hand connection (special connection for limited ceiling depth)

Box Enclosure

EXT: External enclosure in RAL 9010

EXT: External enclosure in custom color

Custom Colors

Special grille color (standard grille color is RAL 9003)

Automation

Vari Pro [Modbus RTU]

Controller

T8C: VariPro WiFi controller with 10 m cable and quick connectors ⁽¹⁾

T8: VariPro WiFi controller ⁽¹⁾

[BL: Black, WH: White]

T0: Building automation control

⁽¹⁾ WiFi connectivity, remote management, and monitoring via mobile app.

Digital Output [1x]

DO2: Circulation pump control for cooling operation

DO3: Circulation pump control for heating operation

DO6: Radiator heating control for one actuator (on/off, 24V PWM)

DO9: Heater Kit – Radiator heating control for 2-5 actuators

(on/off, 24V PWM, includes actuator power supply: six actuator connectors, max total actuator current 1A)

Analog Input [1x]

AI1: Occupancy detection (e.g., key card)

AI2: Cooling stop command

AI3: Heating stop command

AI5: Global stop (Heating/Cooling)

AI6: Generic measurement [mV]

AI7: Humidity measurement [RH%]

AI8: CO₂ measurement [ppm]

AI9: Temperature measurement [°C]

AI10: Condensate alarm (stops cooling)

AI11: Window switch input (stops cooling)

Vari [Analog Voltage Control]

Controller

T7: HLS-44 controller

T5: VariTec 300 controller (no heating control)

T0: Without controller; Building automation control (0-10 V or 24V)

Technical Specifications

7°C / 12°C , 25°C RH 50 %	Total capacity (kW)	Sensible capacity (kW)	Sound level 10 m ² Sabine Lp(A) (dB (A))	Liquid flow (dm ³ /s)	Air volume (dm ³ /s)
Box Mono	0,88 - 4,95	0,72 - 3,51	23 - 53	0,042 - 0,236	63 - 199
Box Double	2,57 - 8,81	1,85 - 6,25	23 - 56	0,123 - 0,421	100 - 346
10°C / 18°C , 25°C RH 50 %	Total capacity (kW)	Sensible capacity (kW)	Sound level 10 m ² Sabine Lp(A) (dB (A))	Liquid flow (dm ³ /s)	Air volume (dm ³ /s)
Box Mono	0,44 - 2,85	0,44 - 2,48	23 - 53	0,013 - 0,085	63 - 199
Box Double	1,56 - 5,43	1,37 - 4,71	23 - 56	0,046 - 0,162	100 - 346
7°C / 12°C , 27°C RH 50 %	Total capacity (kW)	Sensible capacity (kW)	Sound level 10 m ² Sabine Lp(A) (dB (A))	Liquid flow (dm ³ /s)	Air volume (dm ³ /s)
Box Mono	1,15 - 6,16	0,83 - 3,96	23 - 53	0,055 - 0,294	63 - 199
Box Double	3,16 - 10,97	2,05 - 7,04	23 - 56	0,151 - 0,524	100 - 346
60°C / 40°C , 18°C RH 40 %	Total capacity (kW)	Sensible capacity (kW)	Sound level 10 m ² Sabine Lp(A) (dB (A))	Liquid flow (dm ³ /s)	Air volume (dm ³ /s)
Box Mono	1,5 - 7,92	1,5 - 7,92	23 - 53	0,018 - 0,096	63 - 199
Box Double	4,01 - 14,07	4,01 - 14,07	23 - 56	0,049 - 0,171	100 - 346

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