Box

A complete, ready-made solution

With a condensate pump or gravity drainage

MagiCloud by Progman

Adaptable system

Box fan coil units are designed to meet performance and space requirements set by lobbies and other similar public spaces. The units are compatible with 2- and 4-pipe systems and water and liquid circuits.
Each device is dimensioned separately with the Option program, ensuring that optimal coil sizes, routes and air volumes are selected for the system. All units are individually configured and tested with an automated testing system.

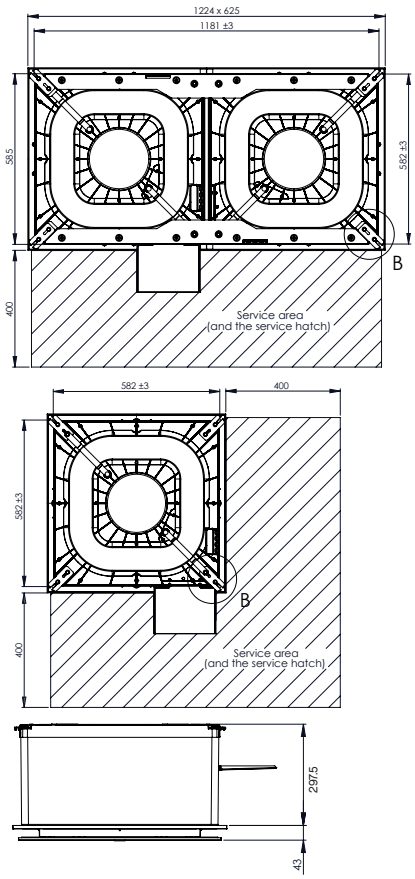
The Box device is available in two sizes designed for mounting on a modular ceiling: 600x600 mm and 600x1,200 mm. For spaces without a false ceiling, the device can be equipped with a protective cover.

- The coil unit's EC grille guarantees silent and draught-free cooling operations. The Coanda effect takes place even with low air volumes, resulting in significant reductions in energy consumption and sound levels. The grille enables the use of different airflow directions.
- Box fan coil units can be equipped with a fresh air supply connection
- All the Box fan coil units are available in MagiCloud and MagiCAD

Easy to install, easy to maintain

Thanks to the comprehensive configuration, less work is required on the worksite. The units and their automation systems are always tailored for the application. Unit configurations can be replicated and unit components can be replaced without it affecting the system as a whole. These properties ensure a long and carefree service life for the unit.
As an additional service, the units can be marked with position codes to make it easier to position the machines in correct places and to speed up the progress of large-scale projects.

Dimensions



Technical data

7°C/12°C, 25°C/50%	Total capacity (kW)	Sensible capacity (kW)	Sound level (dB(A), 10 m²)*	Liquid flow rate (l/h)	Air volume (m^3/h)
20	0.9–1.5	0.7–1.2	23–44	151–256	126–533
40	1.4–2.9	1.0–2.1	21–44	241–500	126–533
60	1.6–4.5	1.1–3.2	21–53	274–778	126–749
80	1.7–5.0	1.2–3.5	21–53	284–850	126–749
100	2.5–6.6	1.8–4.8	23–56	436–1,138	256–1,238
120	2.8–8.1	2.0–5.8	23–56	486–1,393	256–1,238
160	2.9–8.8	2.1–6.8	23–56	500–1,516	256–1,238
10°C/18°C, 25°C/50%	**Total capacity (kW)**	**Sensible capacity (kW)**	**Sound level (dB(A), 10 m²)***	**Liquid flow rate (l/h)**	**Air volume (m^3/h)**
Size 20	0.4–0.7	0.4–0.7	23–44	47–76	126–533
Size 40	0.9–1.7	0.8–1.5	21–44	94–184	126–533
Size 60	1.0–2.7	0.9–2.4	21–53	108–292	126–749
Size 80	1.1–3.0	0.9–2.6	21–53	115–328	126–749
Size 100	1.6–3.9	1.4–3.4	23–56	166–418	256–1,238
Size 120	1.8–4.9	1.6–4.3	23–56	194–529	256–1,238
Size 160	1.9–5.4	1.6–4.7	23–56	205–583	256–1,238
7°C/12°C, 27°C/50%	**Total capacity (kW)**	**Sensible capacity (kW)**	**Sound level (dB(A), 10 m²)***	**Liquid flow rate (l/h)**	**Air volume (m^3/h)**
Size 20	1.2–2.0	0.8–1.4	23–44	198–338	126–533
Size 40	1.8–3.7	1.1–2.4	21–44	302–626	126–533
Size 60	2.0–5.7	1.3–3.6	21–53	338–972	126–749
Size 80	2.0–6.2	1.3–4.0	21–53	349–1,058	126–749
Size 100	3.1–8.1	2.0–5.2	23–56	533–1,390	256–1,238
Size 120	3.5–10.1	2.2–6.5	23–56	598–1,739	256–1,238
Size 160	3.6–11.0	2.3–7.0	23–56	616–1,886	256–1,238
60°C/40°C, 18°C/40%	**Total capacity (kW)**	**Sensible capacity (kW)**	**Sound level (dB(A), 10 m²)***	**Liquid flow rate (l/h)**	**Air volume (m^3/h)**
Size 20	1.5–2.7	1.5–2.7	23–44	65–119	126–533
Size 40	2.2–4.8	2.2–4.8	21–44	94–209	126–533
Size 60	2.5–7.7	2.5–7.7	21–53	108–335	126–749
Size 80	2.6–8.3	2.6–8.3	21–53	115–364	126–749
Size 100	3.7–11.1	3.7–11.1	23–56	162–482	256–1,238
Size 120	4.4–13.6	4.4–13.6	23–56	194–594	256–1,238
Size 160	4.7–14.7	4.7–14.7	23–56	202–641	256–1,238

More detalied measurements at Option selection program

***Sabine**

Electronics

Supply 230-50-1 [V - Hz - Ph]
Box 20-80 (EH) [fan] 40 / 0.33 [W / A]
Box 100-160 (EH) [Fans] 74 / 0.66 [W / A]
KP 11 / 0.09 [W / A]

Accessories

Control valve (cooling/heating)
CVPT/HVPT: Pressure-independent 2-way control valve
CV2/HV2: Two-way valve
CV3/HV3: Three-way valve
Valve actuator (cooling/heating)
AC10/AH10: 0–10 V Actuator control
AC24/AH24: 24 V Actuator control
Removal of condensate
KP: Condensate pump lifting height 1.0 m
KP0: Without pump/with gravity drainage
HI High version (an increased slope of 170 mm)
Power supply
P15: 2 m cable with a plug
P30: 3 m cable with a plug
Fresh air supply connection
R3: Connection on the sides on top
(on all four sides, mounting depth >40 mm)
R1: Right-handed connection
(special mounting for ceilings with limited depth)
R2: Left-handed connection
(special mounting for ceilings with limited depth)
Box protective cover:
EXT: External protective cover in RAL 9010
EXT: External protective cover in a special colour
Special colours: Grille's special colour

Automation

Vari Pro [Modbus RTU]
Controller
T8C: VariPro controller with a 10 m cable and quick connector
T8: VariPro controller [BL: Black, WH: White]
T0: Control via the BMS
Digital outlet (1 pcs.)
DO2: Control of the circulation water pump in cooling
DO3: Control of the circulation water pump in heating
DO6: Control of radiator heating for a single actuator
(on/off, 24V PWM)
'DO9: Heater Kit - Control of radiator heating for 2 to 5 actuators (on/off 24V PWM) [Corresponds to the DO6 feature, which includes the delivery of an actuator power source: six actuator connectors (the total energy consumption by the actuators is max. 1A)]'
Analogue input (1 pcs.)
AI1: Presence (e.g. key card)
AI2: Cooling off
AI3: Heating off
AI5: All functions off (heating/cooling)
AI6: Generic measurement [mV]
AI7: Humidity measurement [RH%]
AI8: CO2 measurement [ppm]
AI9: Temperature measurement [°C]
AI10: Condensate alarm, switches cooling off
AI11: Window switch, switches cooling off

Vari [Analogue voltage control]
Controller
T7: HLS-44 controller
T5: VariTec 300 controller (no heating control)
T0: No controller; Control via the BMS (0-10 V or 24V)