AIRsupply

# BLAUAIR CFP

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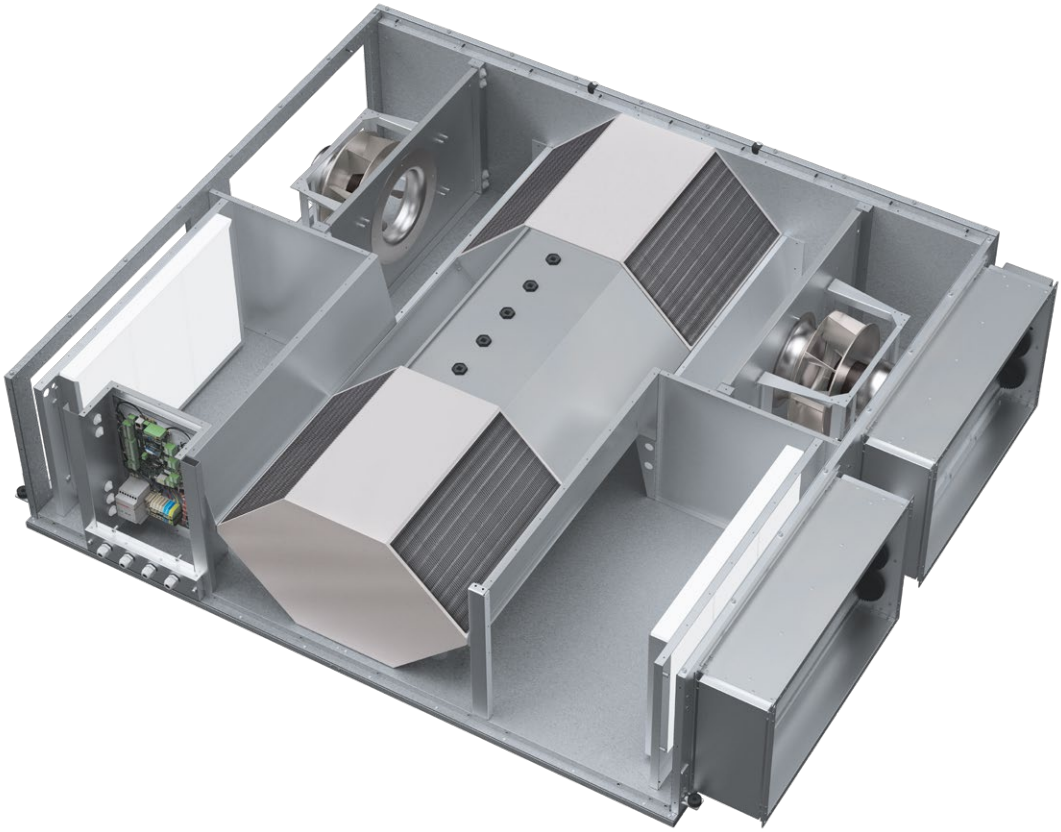
**CEILING MOUNTED HEAT RECOVERY UNITS**

## CFP

500 / 700 / 1200 / 1500 / 2500 / 3500 / 5000 / 6000

## FEATURES

- High-efficient EC fans, backward-curved, external rotor. Integrated plug-and-play controls.
- Automatic full-size bypass. ECO-Design'18 compliant. Polystyrene plate heat exchanger. Panel filters ePM1 55%. Removable service doors.
- Optional outdoor installation with outdoor mounting kit for CFP 5000-6000.
- Web interface, MODBUS, outputs for optional DX or Hydronic cooling/ heating.
- Complete set of accessories: silencers, economizers, VAV, CAV, etc.
- Operation by RH/$CO_2$/temperature/ constant pressure/timer schedule.



## Casing

- Double skin
- Frameless
- 40 mm mineral wool 90 kg/m$^3$ for CFP 500-3500 and with frame 50 mm for CFP 5000-6000
- Outer skin: zinc-aluminum
- Inner skin: zinc-aluminum
- EN1886 class: D1, T3, TB3

## Heat exchanger

High-efficient counterflow heat exchanger made of profiled aluminum plates, packed with elastic heat-resistant sealant. Stainless steel drain pan on both supply and exhaust sides.

## Bypass and dampers

Automatic 100 % heat exchanger bypass damper with a **Belimo actuator** provides active frost protection, free-heating and free-cooling functions. Integrated automatic external dampers with Belimo drives.

BELIMO

## Filters

Panel F7 class filters on both supply and exhaust.

# Technical parameters

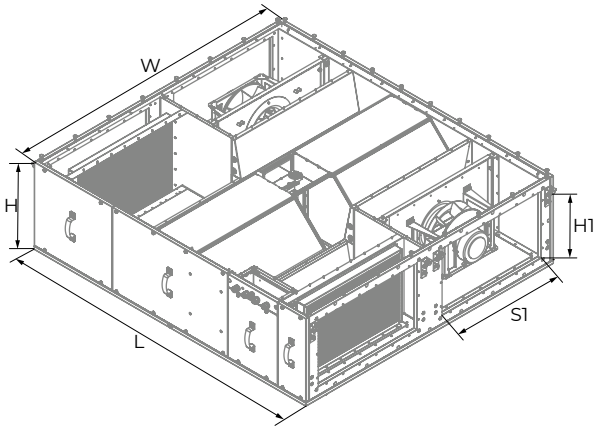
| Rated air flow [m³/h] | | 500 | 700 | 1000 |
|---|---|---|---|---|
| EC fans | Phase/voltage [50/60 Hz/VAC] | 1~200-240 | | |
| | Power/current [kW/A] | 2×0.083/0.75 | 2×0.169/1.75 | 2×0.23/2.3 |
| | Fan speed [min⁻¹] | 3200 | 4120 | 3200 |
| | Perm. amb. temp [°C] | -35...+50 | | |
| | Motor protection | IP54 | | |
| | Insulation class | F | | |
| | Transported air temperature [°C] | -25...+40 | | |
| Filter exhaust/supply | | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) | | |
| Weight (net, without packing) [kg] | | 82 | 85 | 120 |
| Housing protection class | | IP34 | | |
| Sound pressure lvl @ 3m to environment [dBA] | | 32 | 33 | 35 |

| Rated air flow [m³/h] | | 1500 | 2500 | 3500 |
|---|---|---|---|---|
| EC fans | Phase/voltage [50/60 Hz/VAC] | 1~200/277 | 1~200/277 | 3~380/480 |
| | Power/current [kW/A] | 2×0.46/3.0 | 2×0.74/3.75 | 2×1.14/1.8 |
| | Fan speed [min⁻¹] | 2848 | 2640 | 2400 |
| | Perm. amb. temp [°C] | -35...+50 | | |
| | Motor protection | IP54 | | |
| | Insulation class | F | | |
| | Transported air temperature [°C] | -25...+40 | | |
| Filter exhaust/supply | | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) | | |
| Weight (net, without packing) [kg] | | 270 | 290 | 320 |
| Housing protection class | | IP34 | | |
| Sound pressure lvl @ 3m to environment [dBA] | | 32 | 34 | 35 |

| Rated air flow [m³/h] | | 5000 | 6000 |
|---|---|---|---|
| EC fans | Phase/voltage [50/60 Hz/VAC] | 3~380/480 | 3~380/480 |
| | Power/current [kW/A] | 2×1.32/4.25 | 2×2.65/8.5 |
| | Fan speed [min⁻¹] | 1350 | 1700 |
| | Perm. amb. temp [°C] | -35...+50 | |
| | Motor protection | IP54 | |
| | Insulation class | F | |
| | Transported air temperature [°C] | -25...+40 | |
| Filter exhaust/supply | | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) | |
| Weight (net, without packing) [kg] | | 685 | 685 |
| Housing protection class | | IP34 | |
| Sound pressure lvl @ 3m to environment [dBA] | | 34 | 35 |

## Overall dimensions [mm]

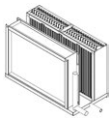
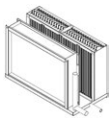
| | L | W | H | H1 | S1 |
|---|---|---|---|---|---|
| **CFP 500** | 1500 | 1080 | 360 | 250 | – |
| **CFP 700** | 1500 | 1080 | 360 | 250 | – |
| **CFP 1000** | 1800 | 1440 | 380 | 250 | 500 |
| **CFP 1500** | 1646 | 1500 | 480 | 350 | 600 |
| **CFP 2500** | 1646 | 1500 | 480 | 350 | 600 |
| **CFP 3500** | 1880 | 1500 | 630 | 350 | 600 |
| **CFP 5000** | 2900 | 1900 | 1000 | 500 | 800 |
| **CFP 6000** | 2900 | 1900 | 1000 | 500 | 800 |




## Connectors and adapters

| | Size [mm] | | |
|---|---|---|---|
| | Flexible connection | Damper | Adapter |
| **CFP 500/CFP 700** | Ø 250 | Ø 250 | Ø 250/400×200 |
| **CFP 1000** | Ø 315 | Ø 315 | Ø 315/500×250 |
| **CFP 1500/CFP 2500** | 600×350 | 600×350 | 600×350/Ø 315 |
| **CFP 3500** | 600×350 | 600×350 | 600×350/Ø 315 |
| **CFP 5000/CFP 6000** | 800×500 | 800×500 | – |

## Additional coil sections for CFP 500-6000

| | | | | 500 | 700 | 1000 | 1500 | 2500 | 3500 | 5000 | 6000 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Water heater** | | **HW-2** | **L [mm]** | 350 | 350 | 350 | 360 | 360 | 360 | 350 | 350 |
| **Water cooler** |  | **CW-3** | **L [mm]** | 425 | 425 | 540 | 505 | 505 | 505 | 505 | 505 |
| **Electric heater** | | **HE** | **L [mm]** | 306 | 306 | 306 | 220 | 220 | 220 | 505 | 505 |
| **DX cooler** |  | **CDX-3** | **L [mm]** | 425 | 425 | 540 | 505 | 505 | 505 | 505 | 505 |

*AIRsupply forbeholder sig ret til ændringer. Alle oplysninger, der står i denne brochure, kan ændres uden forudgående varsel.*