

# BLAUAIR CFH

**FLOOR MOUNTED  
HEAT RECOVERY  
UNITS**



## CFH

800 / 1200 / 1500 / 2500 /  
3500 / 5000 / 6000

## FEATURES

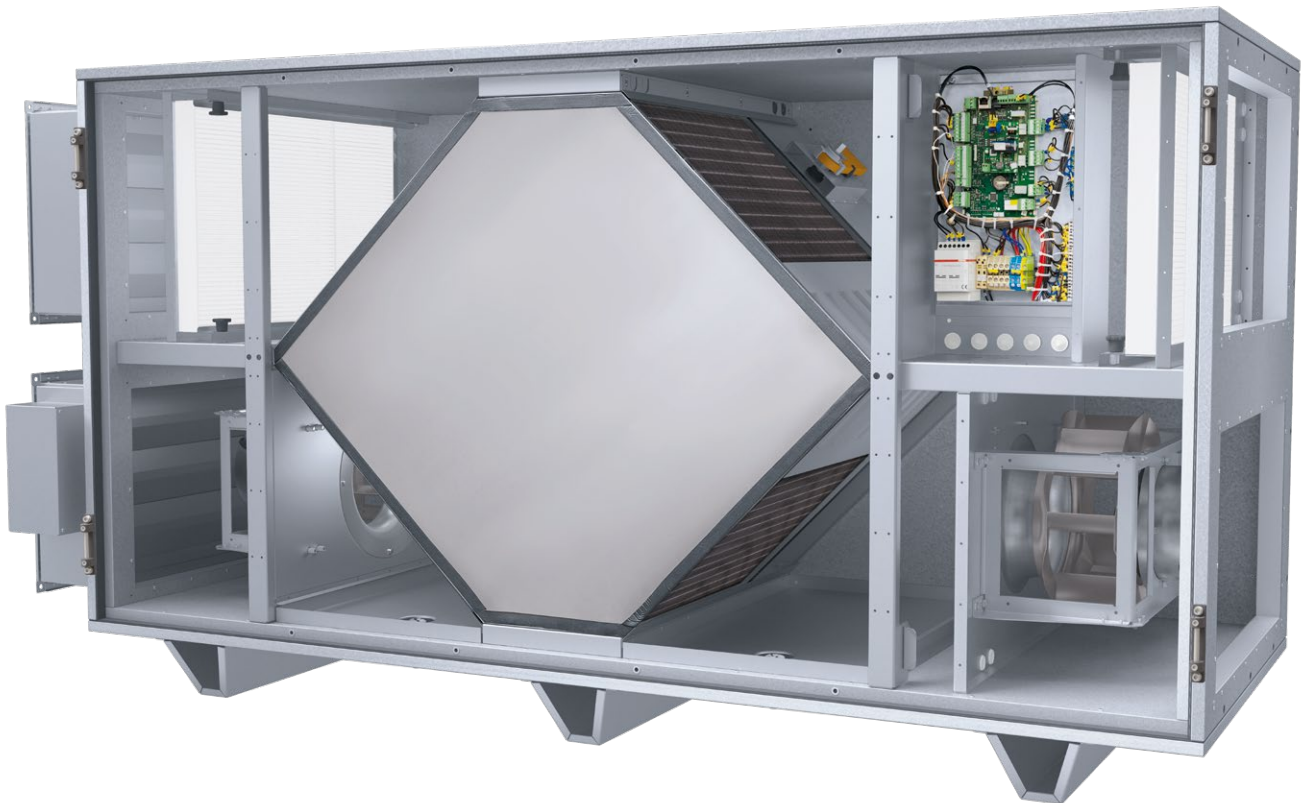
High-efficient EC fans, back ward-curved, external rotor. Integrated plug-and-play controls.

Automatic full-size bypass. ECO-Design'18 compliant. Polystyrene plate heat exchanger. Panel filters ePM1 55%. Hinged service doors.

Optional outdoor installation with outdoor mounting kit. Web interface, MODBUS, outputs for optional DX or Hydronic cooling / heating.

Complete set of accessories: silencers, economizers, VAV, CAV, etc.

Operation by RH/CO<sub>2</sub>/temperature/constant pressure/timer schedule.



## Casing

- Double skin
- Frameless
- 40 mm mineral wool 90 kg/m<sup>3</sup> for CFH 800-6000 and with frame 50 mm for CFH 9000
- 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**<sup>®</sup>

## Filters

Panel F7 class filters on both supply and exhaust.

## Technical parameters

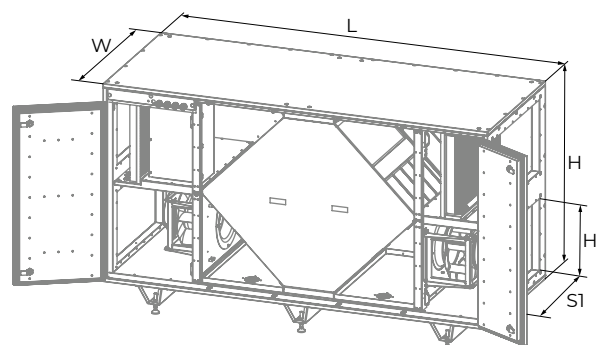
| Rated air flow [m <sup>3</sup> /h]           |                                | 800                                      | 1200       | 1500       |
|--|--------------------------------|--|------------|------------|
| EC fans                                      | Phase/voltage [50/60 Hz/VAC]   | 1~200-240                                |            |            |
|  | Power/current [kW/A]           | 2×0.27/2.5                               | 2×0.61/5.3 | 2×0.61/5.3 |
|  | Fan speed [min <sup>-1</sup> ] | 2800                                     | 3000       | 3000       |
|  | Perm. amb. temp. [°C]          | -35...+50                                |            |            |
|  | Motor protection               | IP54                                     |            |            |
|  | Insulation class               | F  |            |            |
| Filter exhaust/supply                        |                                | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) |            |            |
| Weight (net, without packing) [kg]           |                                | 230                                      | 230        | 295        |
| Housing protection class                     |                                | IP34                                     |            |            |
| Sound pressure lvl @ 3m to environment [dBA] |                                | 34                                       | 35         | 37         |
| Transported air temperature [°C]             |                                | -25...+40                                |            |            |

| Rated air flow [m <sup>3</sup> /h]           |                                | 2500                                     | 3500       | 5000        |
|--|--------------------------------|--|------------|-------------|
| EC fans                                      | Phase/voltage [50/60 Hz/VAC]   | 1~200/277                                | 3~380/480  | 3~380/480   |
|  | Power/current [kW/A]           | 2×0.835/6.9                              | 2×1.15/3.6 | 2×1.33/4.25 |
|  | Fan speed [min <sup>-1</sup> ] | 3000                                     | 2400       | 1350        |
|  | Perm. amb. temp. [°C]          | -35...+50                                |            |             |
|  | Motor protection               | IP54                                     |            |             |
|  | Insulation class               | F  |            |             |
| Filter exhaust/supply                        |                                | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) |            |             |
| Weight (net, without packing) [kg]           |                                | 295                                      | 420        | 628         |
| Housing protection class                     |                                | IP34                                     |            |             |
| Sound pressure lvl @ 3m to environment [dBA] |                                | 37                                       | 35         | 32          |
| Transported air temperature [°C]             |                                | -25...+40                                |            |             |

| Rated air flow [m <sup>3</sup> /h]           |                                | 6000                                     | 9000       |
|--|--------------------------------|--|------------|
| EC fans                                      | Phase/voltage [50/60 Hz/VAC]   | 3~380/480                                | 3~380/480  |
|  | Power/current [kW/A]           | 2×2.65/8.5                               | 2×2.65/8.5 |
|  | Fan speed [min <sup>-1</sup> ] | 1700                                     | 1700       |
|  | Perm. amb. temp. [°C]          | -35...+50                                |            |
|  | Motor protection               | IP54                                     |            |
|  | Insulation class               | F  |            |
| Filter exhaust/supply                        |                                | ePM1 55%/ePM1 55% (ISO 16890)-F7 (EN779) |            |
| Weight (net, without packing) [kg]           |                                | 628                                      | 1400       |
| Housing protection class                     |                                | IP34                                     |            |
| Sound pressure lvl @ 3m to environment [dBA] |                                | 32                                       | 32         |
| Transported air temperature [°C]             |                                | -25...+40                                |            |

## Overall dimensions [mm]


|                 | L    | W    | H    | H1    | S1   |
|-----------------|------|------|------|-------|------|
| <b>CFH 800</b>  | 1800 | 540  | 960  | Ø 315 | –    |
| <b>CFH 1200</b> | 1880 | 540  | 960  | Ø 315 | –    |
| <b>CFH 1500</b> | 1880 | 750  | 960  | 350   | 600  |
| <b>CFH 2500</b> | 1880 | 750  | 960  | 350   | 600  |
| <b>CFH 3500</b> | 2200 | 890  | 1290 | 400   | 700  |
| <b>CFH 5000</b> | 2300 | 1390 | 1420 | 500   | 1000 |
| <b>CFH 6000</b> | 2300 | 1390 | 1420 | 500   | 1000 |
| <b>CFH 9000</b> | 2990 | 2310 | 1710 | 600   | 1200 |



## Connectors and adapters

|                          | Size [mm]           |          |               |
|--------------------------|---------------------|----------|---------------|
|                          | Flexible connection | Damper   | Adapter       |
| <b>CFH 800/CFH 1200</b>  | Ø 315               | Ø 315    | Ø 315/500×300 |
| <b>CFH 1500/CFH 2500</b> | 600×350             | 600×350  | 600×350/Ø 315 |
| <b>CFH 3500</b>          | 700×400             | 700×400  | 700×400/Ø 400 |
| <b>CFH 5000/CFH 6000</b> | 1000×500            | 1000×500 | –             |
| <b>CFH 9000</b>          | 1200×600            | 1200×600 | –             |

## Additional coil sections for CFH 800-9000

|                        |   |              |               | 800 | 1200 | 1500 | 2500 | 3500 | 5000 | 6000 | 9000 |
|------------------------|---|--------------|---------------|-----|------|------|------|------|------|------|------|
| <b>Water heater</b>    |  | <b>HW-2</b>  | <b>L [mm]</b> | 360 | 360  | 360  | 360  | 360  | 360  | 360  | 360  |
| <b>Water cooler</b>    |  | <b>CW-3</b>  | <b>L [mm]</b> | 505 | 505  | 505  | 505  | 505  | 505  | 505  | 505  |
| <b>Electric heater</b> |  | <b>HE</b>    | <b>L [mm]</b> | 306 | 306  | 220  | 220  | 220  | 360  | 360  | 505  |
| <b>DX cooler</b>       |  | <b>CDX-3</b> | <b>L [mm]</b> | 505 | 505  | 505  | 505  | 505  | 505  | 505  | 505  |