

BLAUAIR CFP

CEILING MOUNTED HEAT RECOVERY UNITS



FEATURES

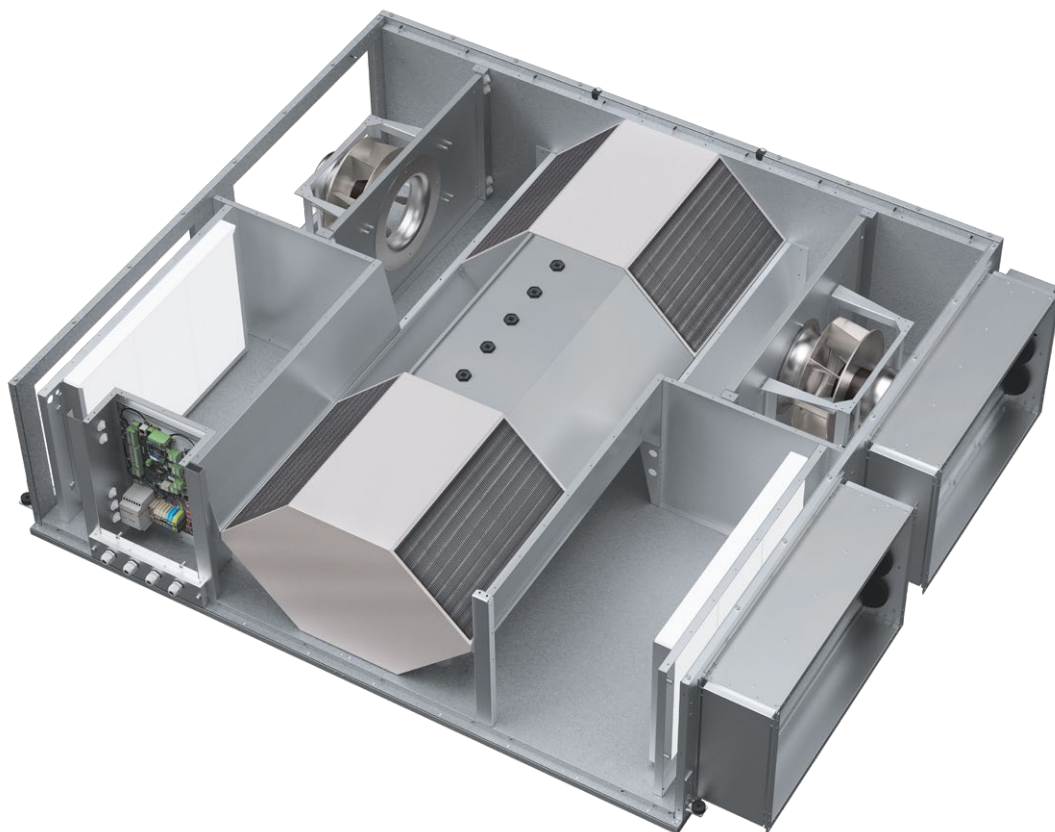
High-efficient EC fans, backward-curved, external rotor. Integrated plug-and-play controls.

Automatic bypass. ECO-Design'18 compliant. Polystyrene plate heat exchanger. Panel filters ePM1 70% (ISO 16890)-F7 (EN779). Removable service doors.

Web interface, MODBUS, outputs for optional electric/water heater or water/freon cooler..

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

Operation by RH/CO₂/temperature/constant pressure/timer schedule.



Casing

- Double skin
- Frameless
- 40 mm mineral wool 90 kg/m³ 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, TB4

Heat exchanger

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

Bypass and dampers

Automatic bypass damper with a **Belimo actuator** provides active frost protection, free-heating and free-cooling functions. Optionally integrated automatic external dampers with Belimo drives.

BELIMO

Filters

Panel filters ePM1 70% (ISO 16890)-F7 (EN779) on both supply and exhaust.

Technical data

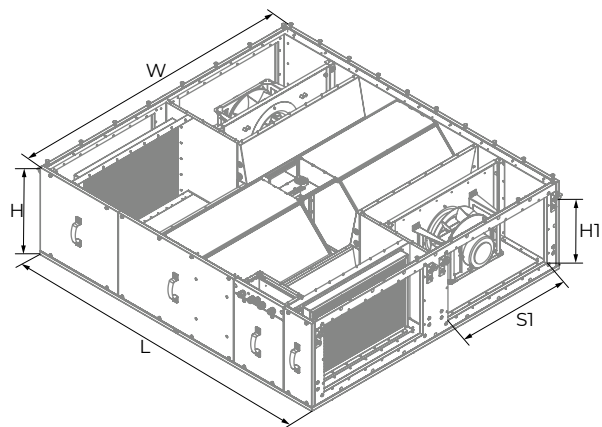
	CFP 500	CFP 700	CFP 1200
Phase/voltage [50–60 Hz/VAC]	1~200/240		
Power/current [kW/A]	2×0.17/2.6	2×0.17/2.6	2×0.53/4.8
Fan speed [min ⁻¹]	3400	4120	2470
Permanent ambient temperature [°C]	-35...+50		
Motor protection	IP54		
Insulation class (motor)	F		
Filter class exhaust/supply standard (optional)	ePM1 70%/ePM1 70% (ISO 16890)-F7 (EN779)		
Weight (net, without packing) [kg]	82	85	120
Sound pressure level at 3 m to environment [dBA]	26	30	26
Transported air temperature [°C]	-25...+40		

	CFP 1500	CFP 2500
Phase/voltage [50–60 Hz/VAC]	1~200/240	
Power/current [kW/A]	2×0.53/4.8	2×0.7/6.2
Fan speed [min ⁻¹]	2430	2100
Permanent ambient temperature [°C]	-35...+50	
Motor protection	IP54	
Insulation class (motor)	F	
Filter class exhaust/supply standard (optional)	ePM1 70%/ePM1 70% (ISO 16890)-F7 (EN779)	
Weight (net, without packing) [kg]	270	290
Sound pressure level at 3 m to environment [dBA]	26	33
Transported air temperature [°C]	-25...+40	

	CFP 3500	CFP 5000	CFP 6000
Phase/voltage [50–60 Hz/VAC]	3~380/480		
Power/current [kW/A]	2×1.1/3.52	2×1.32/4.2	2×2.55/7.8
Fan speed [min ⁻¹]	1800	1300	1500
Permanent ambient temperature [°C]	-35...+50		
Motor protection	IP54		
Insulation class (motor)	F		
Filter class exhaust/supply standard (optional)	ePM1 70%/ePM1 70% (ISO 16890)-F7 (EN779)		
Weight (net, without packing) [kg]	320	685	685
Sound pressure level at 3 m to environment [dBA]	35	26	28
Transported air temperature [°C]	-25...+40		

Dimensions [mm]

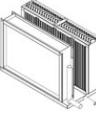
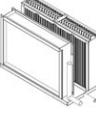
	L	W	H	H1	S1
CFP 500	1500	1100	295	250	–
CFP 700	1500	1100	295	250	–
CFP 1200	1800	1440	380	300	500
CFP 1500	1646	1500	480	350	600
CFP 2500	1646	1500	480	350	600
CFP 3500	1880	1500	630	350	600
CFP 5000	2900	1900	1000	500	800
CFP 6000	2900	1900	1000	500	800



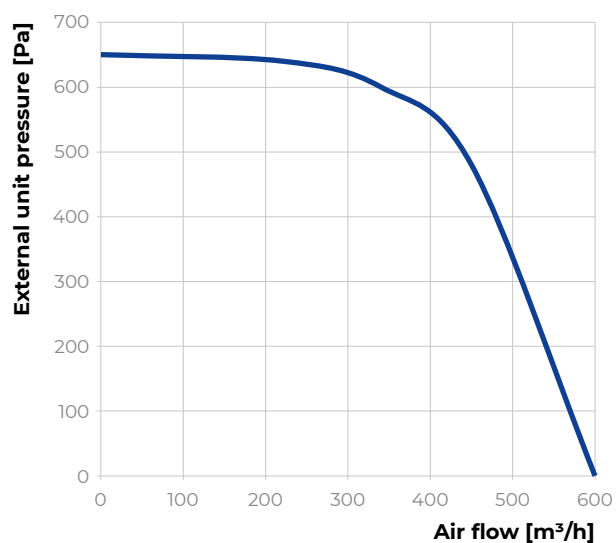
Connectors and adapters dimensions [mm]

	Flexible connection	Damper	Adapter
CFP 500 / CFP 700	Ø 250	Ø 250	Ø 250 / 500×250
CFP 1200	Ø 315	Ø 315	Ø 315 / 500×300
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 dimensions (L [mm])

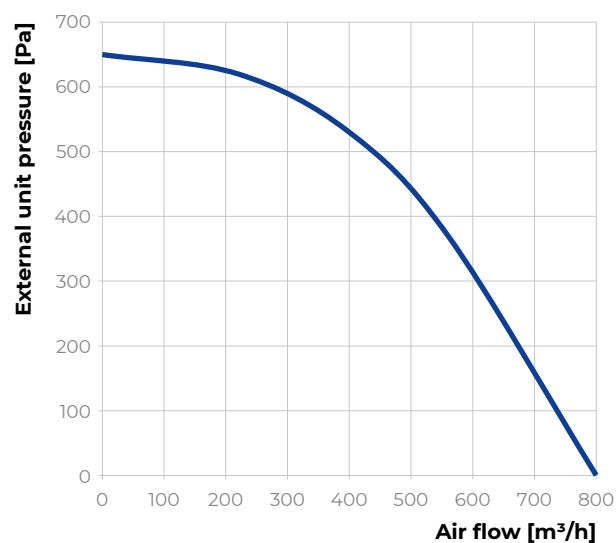
		CFP 500	CFP 700	CFP 1200	CFP 1500	CFP 2500	CFP 3500	CFP 5000	CFP 6000
Water heater HW-2		350	350	200	360	360	360	350	350
Water cooler CW-3		425	425	425	505	505	505	505	505
Electric heater HE		306	306	200	220	220	220	505	505
DX cooler CDX-3		425	425	425	505	505	505	505	505

CFP 500



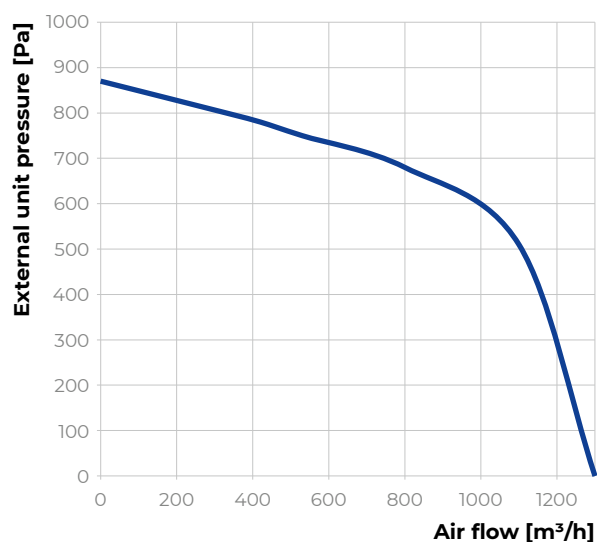
Additional pressure CFP 500	
Water heater [Pa]	55
Water cooler [Pa]	31
Electric heater [Pa]	30
DX cooler [Pa]	31

CFP 700



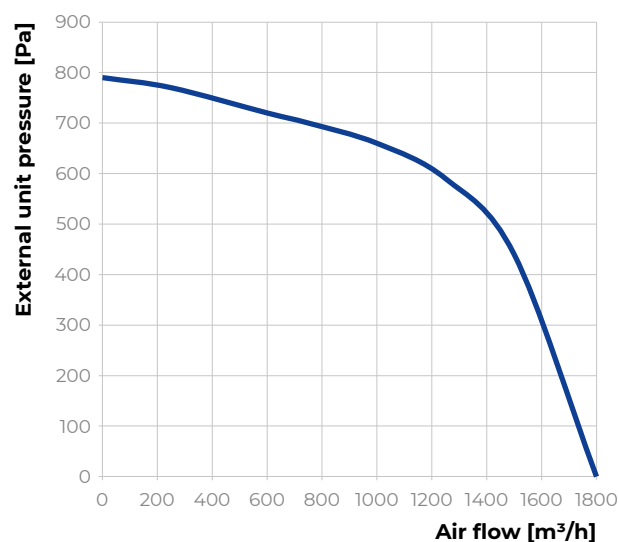
Additional pressure CFP 700	
Water heater [Pa]	55
Water cooler [Pa]	48
Electric heater [Pa]	30
DX cooler [Pa]	48

CFP 1200

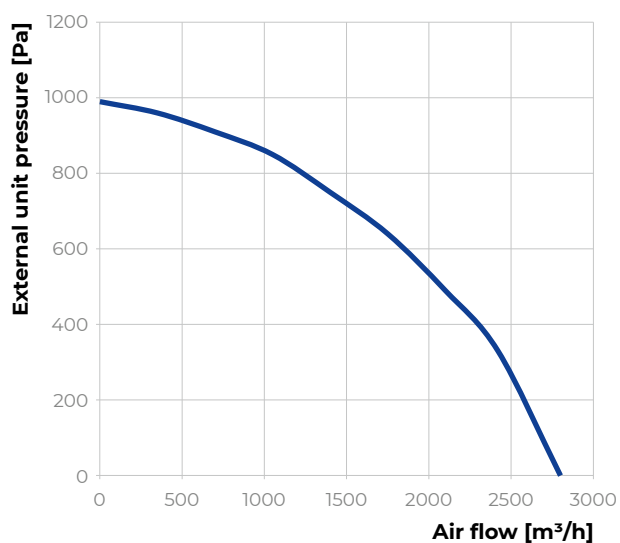


Additional pressure CFP 1200	
Water heater [Pa]	55
Water cooler [Pa]	100
Electric heater [Pa]	30
DX cooler [Pa]	100

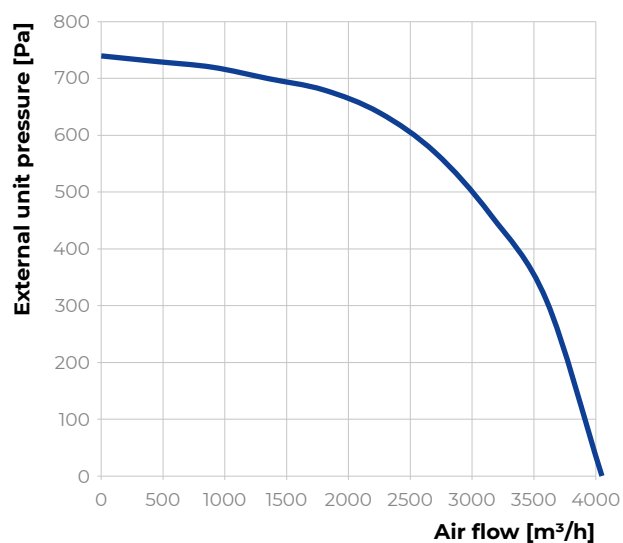
CFP 1500



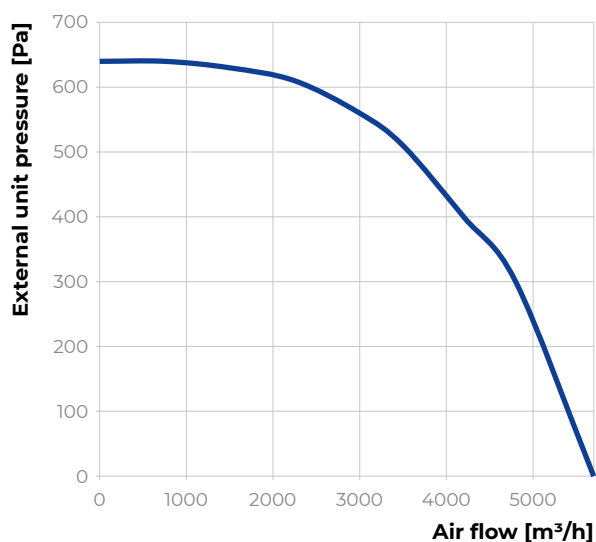
Additional pressure CFP 1500	
Water heater [Pa]	55
Water cooler [Pa]	82
Electric heater [Pa]	30
DX cooler [Pa]	82

CFP 2500

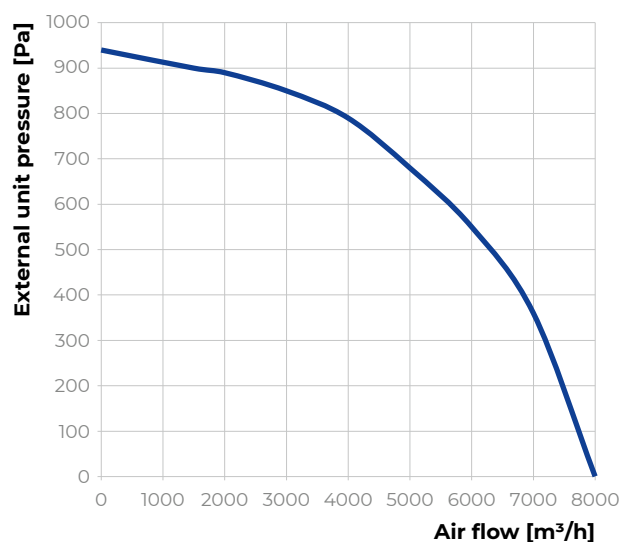
Additional pressure	CFP 2500
Water heater [Pa]	60
Water cooler [Pa]	204
Electric heater [Pa]	30
DX cooler [Pa]	204

CFP 3500

Additional pressure	CFP 3500
Water heater [Pa]	90
Water cooler [Pa]	286
Electric heater [Pa]	30
DX cooler [Pa]	286

CFP 5000

Additional pressure	CFP 5000
Water heater [Pa]	55
Water cooler [Pa]	223
Electric heater [Pa]	35
DX cooler [Pa]	223

CFP 6000

Additional pressure	CFP 6000
Water heater [Pa]	90
Water cooler [Pa]	285
Electric heater [Pa]	50
DX cooler [Pa]	285