IMP KLIMA
AN ORANGE CLIMATE COMPANY

TECHNICAL CATALOGUE

We care about healthy air

Compact Air Handling Units CompAir CF / RW

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OC IMP Klima Compact Air Handling Units

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We simplify construction

At OC IMP Klima we are driven by a strong desire to continuously generate improvements and to simplify construction. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability. We want to simplify everything – from designing, ordering, delivery, goal achievement and installation to the entire way of doing business with us. By simplifying in every stage of the construction process, we also contribute to energy-efficiency.

Premium class plug&play air handling units

The upgraded OC IMP Klima compact air handling units range was developed to ensure perfect indoor climate for different types of smaller non-residential premises, such as offices, restaurants, hotels and shops.

Impressive technical features paired with ultimate user experience

The new CompAir range boasts significantly improved housing characteristics, premium-class components, more flexible installation in limited spaces and an optimized price-performance ratio. A new cloud-based control system allows simple interconnection with other HVAC elements and user friendly setting of the desired parameters via PC or smartphone.

EUROVENT CERTIFIED PERFORMANCE
AHU Range Name: KLIMAIR2
N° 08.12.410
www.eurovent-certification.com

Advanced selection software

An advanced software selection tool AirCalc++, available in multiple languages, makes it easy to determine the optimum unit for individual premises.
Besides calculations, the program also allows to create drawings, which can be exported to AutoCad, detailed project descriptions and a thermodynamic process Mollier h x diagram.

Convincing technical performance and top class components

Housing	TopAir	TopAir Plus
Thermal transmittance	T2	T2
Thermal bridge factor	TB4	TB2
Casing strength	D1	D1
Air leakage	L1	L1
Panel thickness	50 mm	50 mm

One of the most distinctive features of the new compact AHU range is a high quality housing with 50 mm panels, insulated with mineral wool, and convincing technical characteristics. For higher resistance the panels are powder-coated as standard. Optionally they are also available in Aluzinc.
The implementation of EC fans results in higher energy efficiency, while low air velocities lead to better performance.
Another important competitive advantage are the multiple coils options, including electrical pre-heaters, electrical or water heaters, water cooling coils or DX coils.

Certified quality and impressive energy efficiency

CompAir air handling units are Eurovent certified within the existing Klimair2 range and fulfill the requirements of ErP 2016/ErP 2018 according Ecodesign Directive (2009/125/EC).
Due to a high heat recuperation level of up to 90% (Compair CF) / up to 85% (CompAir RW), the energy consumption for the ventilation of buildings is minimized.

User friendly control system

Our plug&play air handling units are equipped with an advanced integrated control system. A new cloud based platform allows flawless communication to achieve the best system performance.
Integration on automation level without any need for Scada-based support.
Immense flexibility regarding user functions and price level due 3 different user levels: Basic, Standard and Advanced
All units are fully wired and pre-tested at the factory.

Immense flexibility in limited spaces

The new compact range features three different types of connections placement, so that the units also can be fitted in very limited spaces:

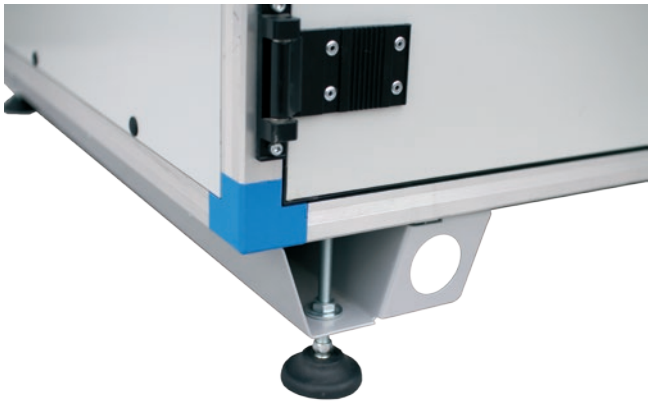
- Horizontal connections (H) - 4 side connections.
- Half-vertical connections (HV) – 2 side and 2 top connections.
- Vertical connections (V) - 4 top connections.

Connections can be circular (with OC IMP Klima Safe double rubber seal) or rectangular (fix or flexible).
For even greater flexibility, all basic units are available in monoblock or splitted version.

Large accessory range

With our customers' needs in mind, we have decided to offer a broad range of standard accessories, such as:

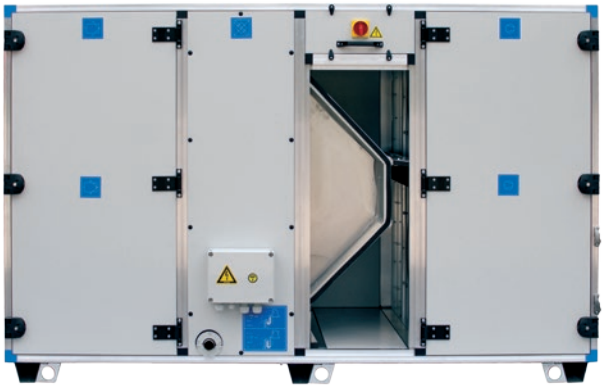
- Valves
- Drive valves
- Roofs
- Hoods
- Duct silencers
- Duct coils
- Feet
- Anti-vibration pads



Compact Air Handling Units - Overview

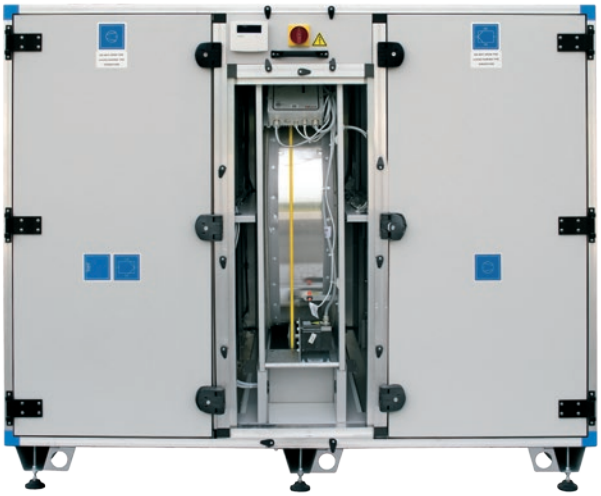
CompAir CF with counterflow heat exchanger

- 7 sizes, covering air flows from 350 up to 10 700 m³/h.
- Highly efficient counterflow heat exchanger with by-pass function.
- Available as monoblock or splitted version.
- Indoor or outdoor version.
- Horizontal, half-vertical or vertical connections.
- Plug&play unit with integrated control system.

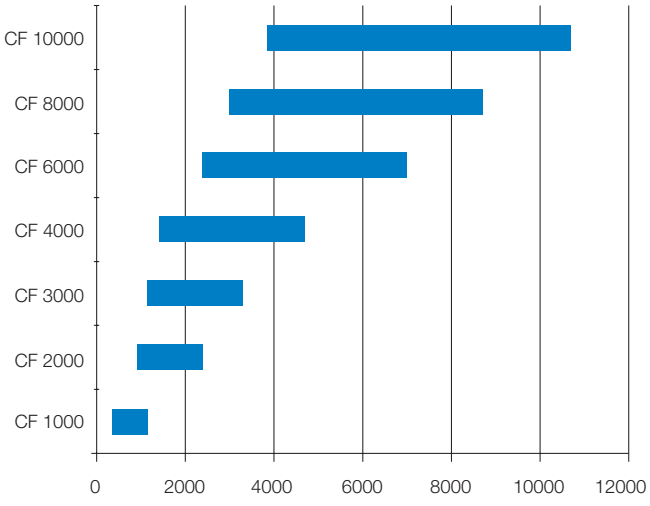


CompAir RW with rotary wheel

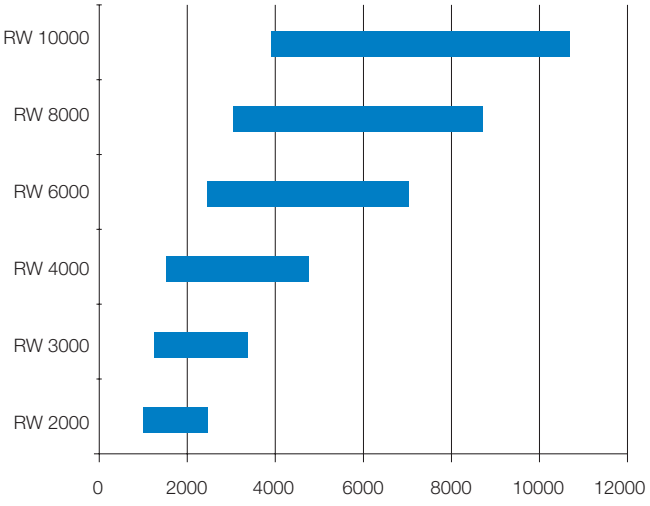
- 6 sizes, covering air flows from 910 up to 10 700 m³/h.
- Highly efficient rotary wheel heat exchanger.
- Available as monoblock or splitted version.
- Indoor or outdoor version.
- Horizontal, half-vertical or vertical connections.
- Plug&play unit with integrated control system.



Air flow range CompAir CF



Air flow range CompAir RW



CompAir CF

with counterflow heat exchanger

Description

CompAir CF is a family of air handling units in seven sizes, covering air flow volumes from 350 up to 10 700 m^3/h, and boasting up to 90% heat recovery of the exhaust air. As an additional option heating and/or cooling can be included. The basic unit is available as monoblock or splitted version, with various connection options and is designed for both indoor and outdoor installation. The integrated control system is available in three versions: Basic, Standard and Advanced.

Basic configuration:

- Highly efficient counterflow heat exchanger.
- Inlet and outlet fans with EC motors.
- Panel or bag filter F7 on inlet and M5 or F7 on outlet side.

Housing:

- Basic housing: panels TopAir: T2, TB4 class.
- Plus housing: panels TopAir Plus; T2, TB2 class.
- Exterior of the panels coated in RAL 7035, option: Aluzinc.

Optional sections:

- Water heater or electrical heater.
- Water cooler or DX cooler.
- Preheater.
- Duct heater and cooler.

Accessories:

- CO_2 or pressure sensors.
- Fire by-pass.
- Smoke detector.
- Regulation of external humidifier.
- Roofs, inlet and outlet hoods for outdoor version.
- Circular or rectangular duct connections.
- Support feet.
- Syphons.

Recuperation type	Designation	Max. capacity [m^3/h]	SFP [$w/m^3/s$] (Δpext=200Pa)*	Connection [mm] ○	Connection [mm] ▭	Connection placement **	Heat recovery***
◇	CF 1000	1150	900	Ø 315	390 x 315	H, HV, V	82,7%
◇	CF 2000	2400	746	Ø 400	675 x 410	H, HV, V	83,2%
◇	CF 3000	3300	850	Ø 500	795 x 410	H, HV, V	83,2%
◇	CF 4000	4700	833	Ø 500	1100 x 410	H, HV	83,1%
◇	CF 6000	7000	870	Ø 630	1420 x 510	H, HV	84,4%
◇	CF 8000	8700	830	Ø 800	1560 x 610	H, HV	84,2%
◇	CF 10000	10700	802	Ø 800	1915 x 610	H, HV	84,2%

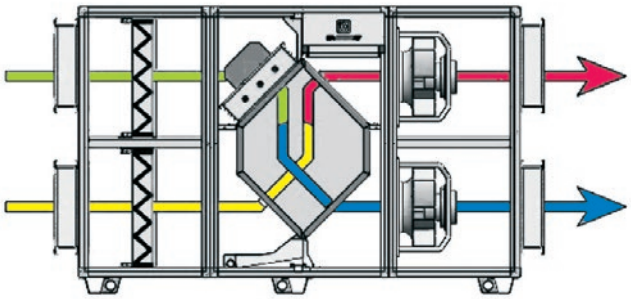
* SFP value for supply fan at V_{nom} and basic unit configuration.
** **H** = horizontal (4 side connections), **HV** = half vertical (2 top + 2 side connections), **V** = vertical (4 top connections).
*** Heat recovery is calculated according to EN 308 standard. In real conditions efficiencies up to 90% can be reached.

CompAir CF

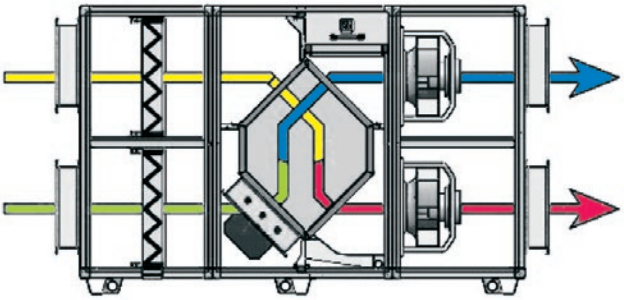
Connection placement versions – options to be selected in AirCalc++

CompAir CF with 4 side connections (H)* – 7 sizes up to 10 700 m³/h

fresh air intake on upper side

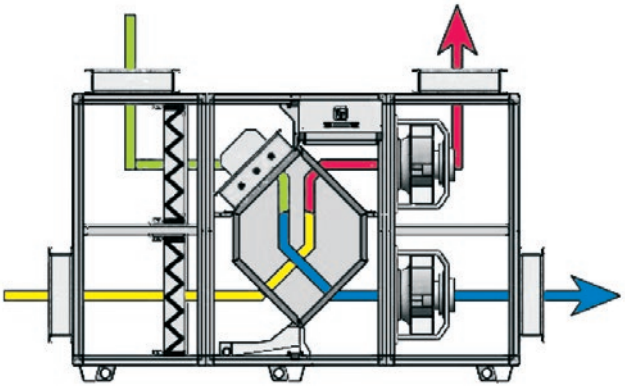


fresh air intake on lower side

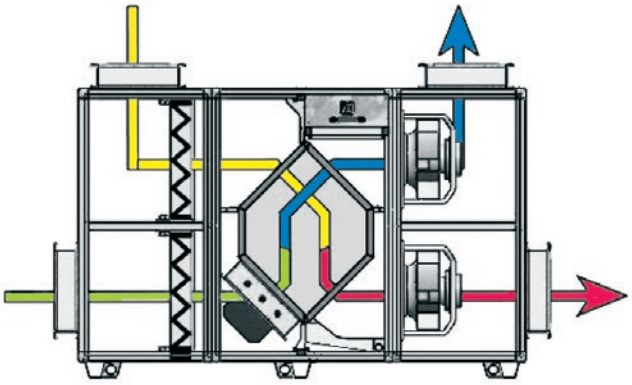


CompAir CF with 2 side and 2 top connections (HV)* – 7 sizes up to 10 700 m³/h

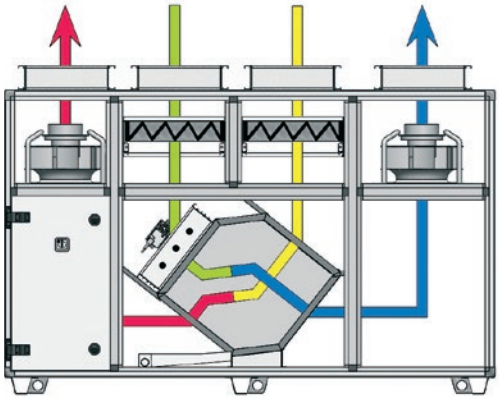
fresh air intake on upper side



fresh air intake on lower side



CompAir CF with 4 top connections (V) – 3 sizes up to 3 300 m³/h

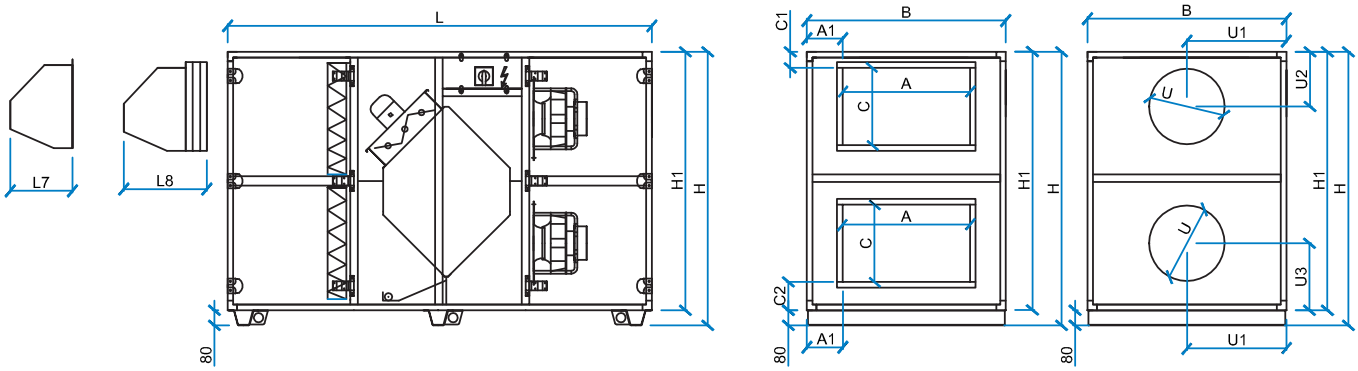


* the stated connection placement options are valid for both monoblock and splitted version

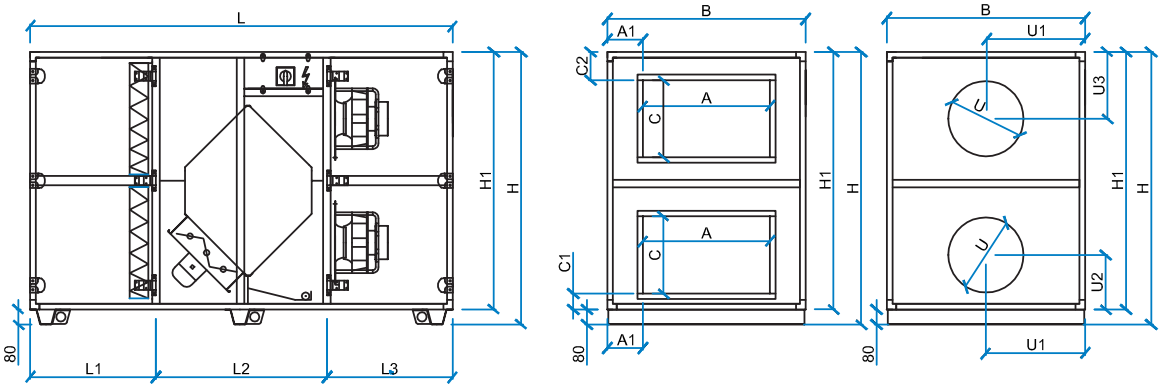
CompAir CF (H)

Units with horizontal connections (H)

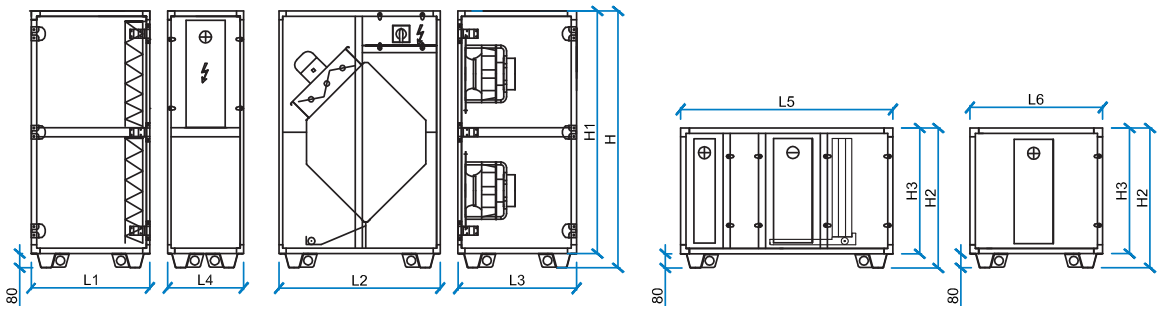
CompAir CF (H) monoblock, fresh air intake on upper side



CompAir CF (H) splitted, fresh air intake on lower side



CompAir CF (H) splitted version, with additional sections



All configurations are available:
- With fresh air intake on lower or upper side.
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

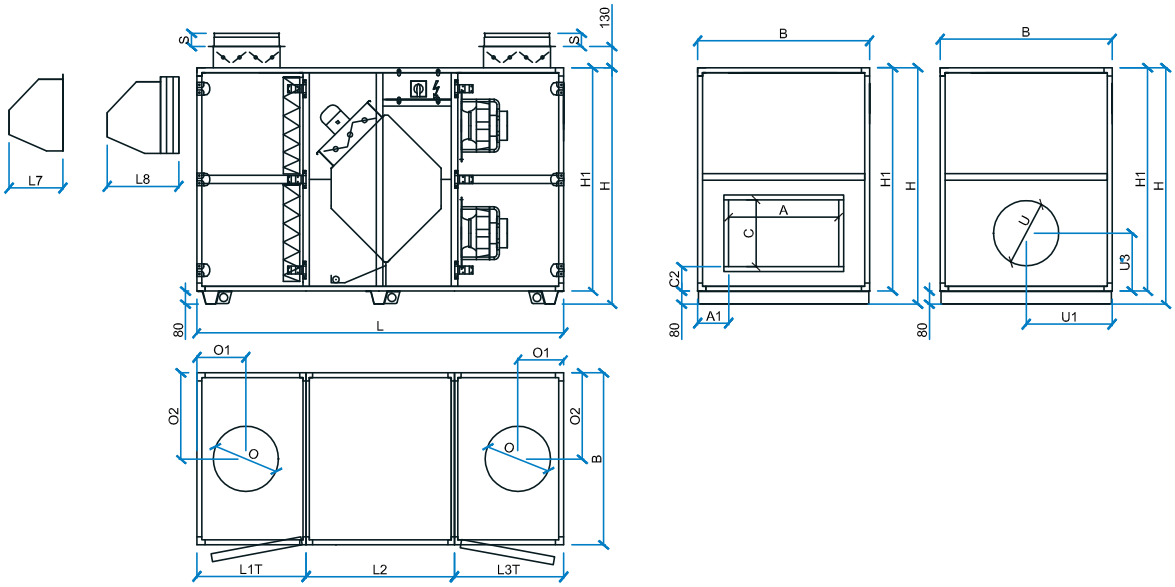
CompAir CF with horizontal (H) connections (2 + 2 side connections)

Size	1000	2000	3000	4000	6000	8000	10000
Air flow range [m3/h]	350-1150	910-2400	1150-3300	1420-4700	2390-7000	2980-8700	3850-10700
Electrical supply [V]	1 x 230	1 x 230	3 x 400	3 x 400	3 x 400	3 x 400	3 x 400
Motor and fan type	Radial plug-in fan with EC motor						
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Input power (per fan)	448W	730 W	1140 W	1700 W	2600 W	2900 W	3300 W
Current draw (per fan)	2,8 A	3,2 A	1,8 A	2,6 A	4,0 A	4,43 A	5,1 A
Insulation	50 mm mineral wool						
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc						
Filter type	Panel or bag filter						
Filter class	F7 / M5 or F7						
Damper exhaust	Outlet air damper 24 V actuator						
Damper supply	Supply (fresh air) damper 24 V actuator						
Condensate drain connection	DN40						
Heater connections	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"
Cooler connections	3/4"	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"
Dimension inside and outside [mm]	**Monoblock / Splitted**				**Splitted**		
Length monoblock L [mm]	1970	2290	2410	2410			
Length L1 [mm] - filter section	590	690	690	690	690	690	690
Length L2 [mm] - heat recovery section	790	910	1030	1030	1330	1600	1600
Length L3 [mm] - fan section	590	690	690	690	790	790	990
Options: L4, L5, L6, L7, L8							
Length L4 with preheater [mm]	430	430	550	550	550	550	550
Length L5 with heater (water, el.) + cooler (water, DX) [mm]	1200						
Length L6 with heater (water, el.) or cooler (water, DX) [mm]	750						
Length L7 with hood [mm]	250	330	330	330	430	500	500
Length L8 with hood and drop eliminator [mm]	365	445	445	445	545	615	615
Roof (for outside units)	50 mm over the unit's edge						
Height H [mm]	1250	1450	1450	1450	1730	2060	2060
Height H1 [mm]	1170	1370	1370	1370	1650	1980	1980
Height H2 [mm]	610	790	790	790	930	1095	1095
Height H3 [mm]	550	710	710	710	850	1015	1015
Width B [mm]	750	1055	1155	1460	1780	1920	2275
Rectangular duct connection dimension A x C [mm]	390 x 315	675 x 410	795 x 410	1100 x 410	1420 x 510	1560 x 610	1915 x 610
A1 position duct connection [mm]	180	190	180	180	180	210	180
C1 position duct connection [mm]	85	85	85	85	85	85	85
C2 position duct connection [mm]	147.5	150	150	150	170	202.5	202.5
J length of duct connection [mm]	100						
Round duct connection U [mm]	315	400	500	500	630	800	800
U1 position round connection [mm]	375	527.5	577.5	730	890	960	1137.5
U2 position round connection [mm]	242.5	290	340	340	400	490	490
U3 position round connection [mm]	305	355	355	355	425	507.5	507.5
S length of round connection [mm]	60	80	80	80	80	100	100
Efficiency	up to 90 %						
Heat recovery	High efficiency counter flow plate heat exchanger						
Operating temperature	-20°C to 40°C						

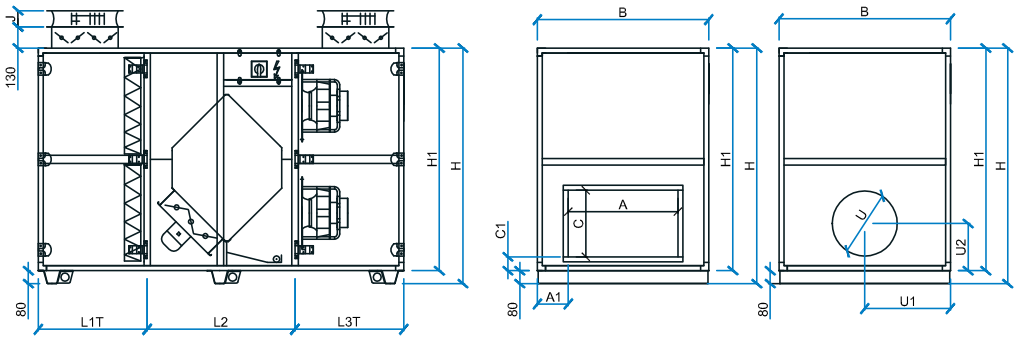
CompAir CF (HV)

Units with half-vertical connections (HV)

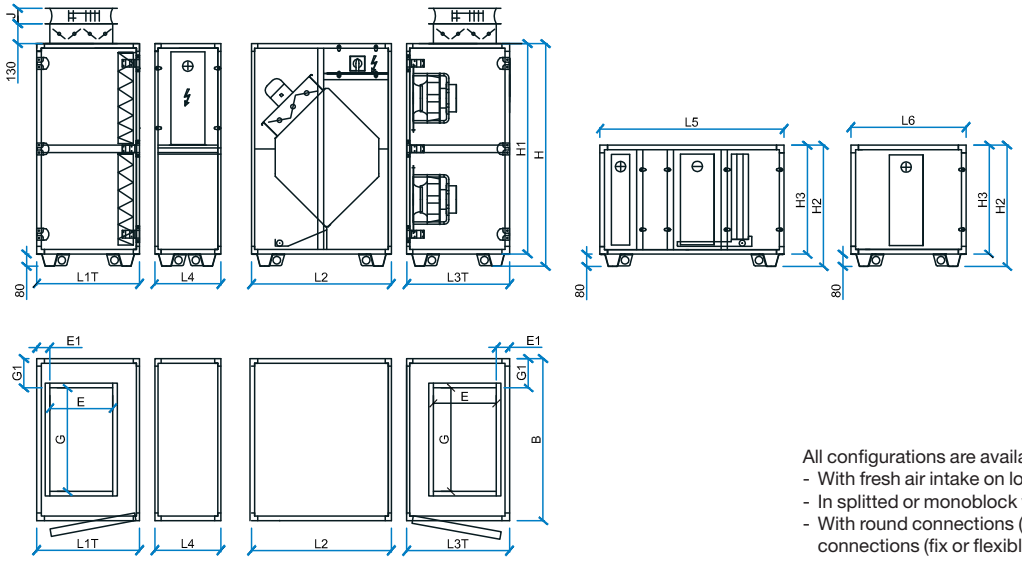
CompAir CF (HV) monoblock, fresh air intake on upper side



CompAir CF (HV) monoblock, fresh air intake on lower side



CompAir CF (HV) splitted version with additional sections



All configurations are available:
- With fresh air intake on lower or upper side.
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

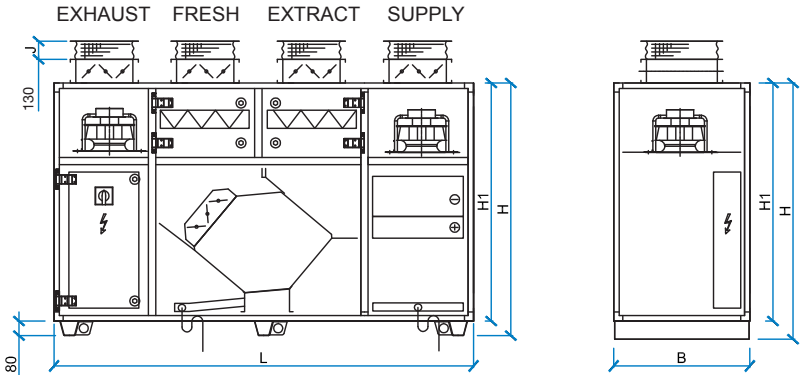
CompAir CF with half-vertical (HV) connections (2 side and 2 top connections)

Size	1000	2000	3000	4000	6000	8000	10000
Airflow range [m3/h]	350-1150	910-2400	1150-3300	1420-4700	2390-7000	2980-8700	3850-10700
Electrical supply [V]	1 x 230	1 x 230	3 x 400	3 x 400	3 x 400	3 x 400	3 x 400
Motor and fan type	Radial plug-in fan with EC motor						
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Input power (per fan)	448W	730 W	1140 W	1700 W	2600 W	2900 W	3300 W
Current draw (per fan)	2,8 A	3,2 A	1,8 A	2,6 A	4,0 A	4,43 A	5,1 A
Insulation	50 mm mineral wool						
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc						
Filter type	Panel or bag filter						
Filter class	F7 / M5 or F7						
Damper exhaust	Outlet air damper 24 V actuator						
Damper supply	Supply (fresh air) damper 24 V actuator						
Condensate drain connection	DN40						
Heater connections	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"
Cooler connections	3/4"	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"
Dimension inside and outside [mm]	Monoblock / Splitted				Splitted		
Length monoblock L [mm]	1970	2290	2410	2410			
Length L1T [mm] - filter section with top connection	590	690	690	690	790	990	990
Length L2 [mm] - heat recovery section	790	910	1030	1030	1330	1600	1600
Length L3T [mm] - fan section with top connection	590	690	690	690	790	990	990
Options: L4, L5, L6, L7, L8							
Length L4 with preheater [mm]	430	430	550	550	550	550	550
Length L5 with heater (water, electrical) and cooler (water, DX) [mm]	1200						
Length L6 with heater (water, electrical) or cooler (water, DX) [mm]	750						
Length L7 with hood [mm]	250	330	330	330	430	500	500
Length L8 with hood and drop eliminator [mm]	365	445	445	445	545	615	615
Height H [mm]	1250	1450	1450	1450	1730	2060	2060
Height H1 [mm]	1170	1370	1370	1370	1650	1980	1980
Height H2 [mm]	610	790	790	790	930	1095	1095
Height H3 [mm]	550	710	710	710	850	1015	1015
Width B [mm]	750	1055	1155	1460	1780	1920	2275
Rectangular duct dimension A x C [mm]	390 x 315	675 x 410	795 x 410	1100 x 410	1420 x 510	1560 x 610	1915 x 610
A1 position duct connection [mm]	180	190	180	180	180	210	180
C1 position duct connection [mm]	85	85	85	85	85	85	85
C2 position duct connection [mm]	147.5	150	150	150	170	202.5	202.5
Rectangular duct dimension on roof E x G [mm]	315 x 390	410 x 675	410 x 795	410 x 1100	510 x 1420	610 x 1560	610 x 1915
E1 position duct connection [mm]	85	85	85	85	85	85	85
G1 position duct connection [mm]	180	190	180	180	180	150	180
J length of duct connection [mm]	100						
Round duct connection U [mm]	315	400	500	500	630	800	800
U1 position round connection [mm]	375	527.5	577.5	730	890	960	1137.5
U2 position round connection [mm]	242.5	290	340	340	400	490	490
U3 position round connection [mm]	305	355	355	355	425	507.5	507.5
Round duct connection on roof O [mm]	315	400	500	500	630	800	800
O1 position round connection [mm]	242.5	290	340	340	400	490	490
O2 position round connection [mm]	375	527.5	577.5	730	890	960	1137.5
S length of round connection [mm]	60	80	80	80	80	100	100
Efficiency	up to 90 %						
Heat recovery	High efficiency counter flow plate heat exchanger						
Operating temperature	-20°C to 40°C						

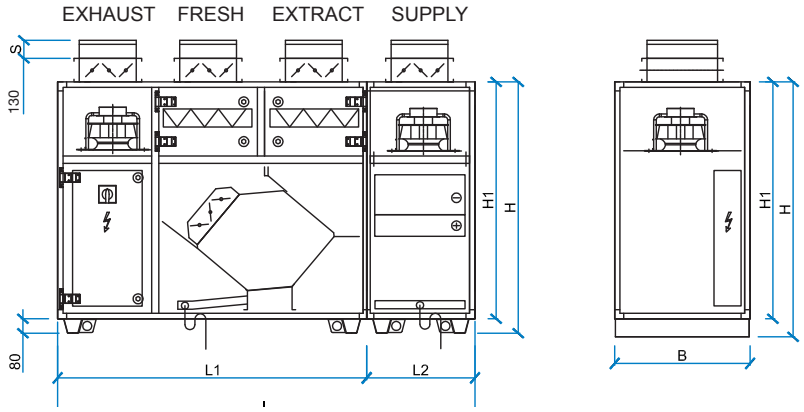
CompAir CF (V)

Units with 4 top connections (V)

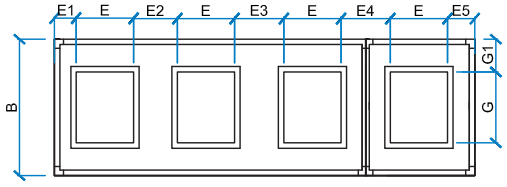
CompAir CF (V) monoblock



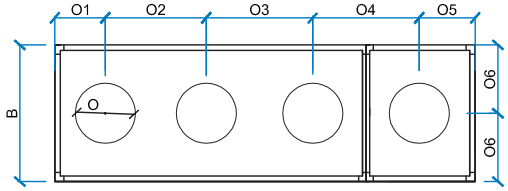
CompAir CF (V) splitted version



Connection placement variants – circular or rectangular top connections



SIZE 1000 and 2000



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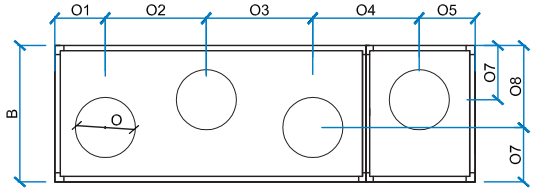


All configurations are available:
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

CompAir CF with vertical (V) connections (4 top connections)

Size	1000	2000	3000
Air flow range [m3/h]	350-1150	910-2400	1150-3300
Electrical supply [V]	1 x 230	1 x 230	3 x 400
Motor and fan type	Radial plug-in fan with EC motor		
Frequency	50 Hz	50 Hz	50 Hz
Input power (per fan)	448W	730 W	1140 W
Current draw (per fan)	2,8 A	3,2 A	1,8 A
Insulation	50 mm mineral wool		
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc		
Filter type	Panel filter		
Filter class	F7 / M5 or F7		
Damper exhaust	Outlet air damper 24 V actuator		
Damper supply	Supply (fresh air) damper 24 V actuator		
Condensate drain connection	DN 40		
Heater connections	3/4"	3/4"	1"
Cooler connections	3/4"	1"	1 1/4"
Dimension inside and outside [mm]	**Monoblock / Splitted**		
Length monoblock L [mm]	2320	2420	2520
Length L1 [mm] - heat recovery section	1720	1720	1820
Length L2 [mm] - fan section and heat exchanger	600	700	700
Height H [mm]	1390	1490	1590
Height H1 [mm]	1310	1410	1510
Width B [mm]	750	1055	1155
Rectangular duct dimension on roof E x G [mm]	315 x 390	410 x 675	410 x 795
Position duct connection [mm]			
E1 position duct connection [mm]	110	80	110
E2 position duct connection [mm]	260	160	190
E3 position duct connection [mm]	260	160	190
E4 position duct connection [mm]	280	230	240
E5 position duct connection [mm]	150	150	150
G1 position duct connection [mm]	180	190	180
J length of duct connection [mm]	100		
Round connection on roof O [mm]	315	400	500
Position round connection [mm]			
O1 position round connection [mm]	267.5	285	315
O2 position round connection [mm]	575	570	600
O3 position round connection [mm]	575	570	600
O4 position round connection [mm]	595	640	650
O5 position round connection [mm]	307.5	355	355
O6 position round connection [mm]	375	527.5	/
O7 position round connection [mm]	/	/	425
O8 position round connection [mm]	/	/	730
S length of round connection [mm]	60	80	80
Efficiency	up to 90 %		
Heat recovery	High efficiency counter flow plate heat exchanger		
Operating temperature	-20°C to 40°C		

Ordering key example

(generated from selection software AirCalc++)

CompAir CF1 (Plus) 2000 -R-I-M-P1-FK(7;5)-EEV,KWd-R-S3-DA1(1)3(1)-x-x-RC1234-PH14-LI-FT-SY-B-1-FB-SD-CO2-DP-DH

Heat recovery type	**CF1**	Counterflow heat exchanger (H) - 4 side connections, outdoor air on upper side
	CF2	Counterflow heat exchanger (H) - 4 side connections, outdoor air on lower side
	CF3	Counterflow heat exchanger (HV) - 2 top and 2 side connections, outdoor air on upper side
	CF4	Counterflow heat exchanger (HV) - 2 top and 2 side connections, outdoor air on lower side
	CF5	Counterflow heat exchanger (V) - 4 top connections, outdoor air on upper side
Housing type	**Plus**	Plus housing (TB2)
	(empty)	Basic housing (TB4)
Unit size		1000, 2000, 3000, 4000, 6000, 8000, 10000
Access side	**R**	right
	L	left
Installation	**I**	inside unit
	O	outside unit
Unit type	**M**	monoblock
	S	splitted
Panels	**P1**	steel, powder coated in RAL 7035
	P2	Aluzinc
Filter type (filtration)	**FTT**	bag filter (7;5 or 7;7)
	FK	panel filter (7;5 or 7;7)
	FK+FTT_FK	panel + bag filter on supply and panel filter on exhaust (5+7; 5 or 5+7;7)
	FK+FTT_FTT	panel + bag filter on supply and bag filter on exhaust (5+7; 5 or 5+7;7)
	2FTT	bag filter (7;5 or 7;7) and spare filter
	2FK	panel filter (7;5 or 7;7) and spare filter
	2(FK+FTT_FK)	panel + bag filter on supply and panel filter on exhaust (5+7; 5 or 5+7;7) and spare filter
	2(FK+FTT_FTT)	panel + bag filter on supply and bag filter on exhaust (5+7; 5 or 5+7;7) and spare filter
Accessories 1 (function)		
Preheater	**EEV (9)**	electrical pre-heater (power in kW)
	EWV	glycol pre-heater
	x	without pre-heater
Accessories 2 (function)		
Heater, cooler	**x**	without function
	EW	water heater
	KW	water cooler
	KD	dx cooler
	EE(6)	electrical heater (power in kW)
	EW+KW	water heater + water cooler
	EW+KD	water heater + dx cooler
	EE(6)+KW	electrical heater (power in kW) + water cooler
	EE(6)+KD	electrical heater (power in kW) + dx cooler
	EWd	duct water heater
	KWd	duct water cooler
	EE(6)d	duct electrical heater (power in kW)
	EWd+KWd	duct water heater + duct water cooler

	EE(6)d+KWd	duct electrical heater (power in kW) + duct water cooler
Reversible cooling coil - function	**x**	no reversible
	R	reversible
Accessories 3 (function)		
Sound attenuator	**x**	without sound attenuator
	S1	sound attenuator Exh - 500 mm
	S2	sound attenuator Exh - 750 mm
	S3	sound attenuator Exh - 1250 mm
Accessories 4 (additional equipment)		
Syphon	**SY**	syphon
	x	without syphon
Feet	**FT**	feet
	MA	rubber pad - Mafund
	x	without feet
Lights	**LI**	light + switch and window
	x	without light + switch and window
Protection hood	**PH14**	Protection hood on standard connections 1,4
	PH1E	Protection hood on standard connections 1 with eliminator
	x	Without protection hood
Round connections	**RC1234**	round connections on connections 1,2,3,4
	RC24	round connections on connections 2,4
	x	without round connections
Fixed rectangular connections	**FR1234**	fixed rectangular connections on connections 1,2,3,4
	FR24	fixed rectangular connections on connections 2,4
	x	without fixed rectangular connections
Flexible canvas	**FC1234**	flexible canvas on rectangular connections 1,2,3,4
	FC24	flexible canvas on rectangular connections 2,4
	x	without flexible canvas
Dampers	**DA1(1)3(1)**	dampers on connections 1,3 - actuator on/off
	DA1(2)3(2)	dampers on connections 1,3 - spring actuator
	DA1(1)	damper on connection 1 - actuator on/off
	DA1(2)	damper on connection 1 - spring actuator
	x	without dampers
Automation and control accessories		
Automation type	**B**	basic automation
	S	standard automation
	A	advanced automation
	X	without automation
Pressure measuring	**x**	without magnehelic
	1	with magnehelic (2 pcs.)
Fire by-pass	**x**	without fire by-pass
	FB	fire by-pass
	FB1	fire by-pass + damper
Smoke detector	**x**	without smoke detector
	SD	smoke detector
CO_2 sensors	**x**	without CO_2 sensor
	CO2	CO_2 sensor
Pressure sensors	**x**	without pressure sensor
	DV	constant airflow regulation
	DP	constant duct pressure regulation
	DB	constant duct pressure, airflow measurement
Humidifier regulation	**x**	without duct humidifier regulation
	DH	duct humidifier regulation

CompAir RW

Description

CompAir RW is a family of air handling units in six sizes, covering air flow volumes from 910 up to 10 700 m³/h and boasting up to 85% heat recovery of the exhaust air. As an additional option heating and/or cooling can be included. The basic unit is available as monoblock or splitted version, with various connection options and is designed for both indoor and outdoor installation. The integrated control system is available in three versions: Basic, Standard and Advanced.

Basic configuration:

- Highly efficient rotary wheel heat exchanger.
- Inlet and outlet fans with EC motors.
- Bag or panel filter F7 on inlet and M5 or F7 on outlet side.

Housing:

- Basic housing: panels TopAir: T2, TB4 class.
- Plus housing: panels TopAir Plus; T2, TB2 class.
- Exterior of the panels coated in RAL 7035, option: Aluzinc.

Optional sections:

- Water heater or electrical heater.
- Water cooler or DX cooler.
- Duct heater and cooler.

Accessories:

- CO_2 or pressure sensors.
- Fire by-pass.
- Smoke detector.
- Regulation of external humidifier.
- Roofs, inlet and outlet hoods for outdoor version.
- Circular or rectangular duct connections.
- Support feet.
- Syphons.

Recuperation type	Designation	Max. capacity [m³/h]	SFP [w/m³/s] (Δpext=200Pa)*	Connection [mm] ◯	Connection [mm] ▭	Connection placement **	Heat recovery***
◯	RW 2000	2400	807	Ø 400	675 x 410	H, HV, V	78,9%
◯	RW 3000	3300	888	Ø 500	795 x 410	H, HV, V	76,8%
◯	RW 4000	4700	823	Ø 500	1100 x 410	H, HV, V	72,2%
◯	RW 6000	7000	803	Ø 630	1420 x 510	H, HV	74,5%
◯	RW 8000	8700	742	Ø 800	1560 x 610	H, HV	73,6%
◯	RW 10000	10700	755	Ø 800	1915 x 610	H, HV	77,9%

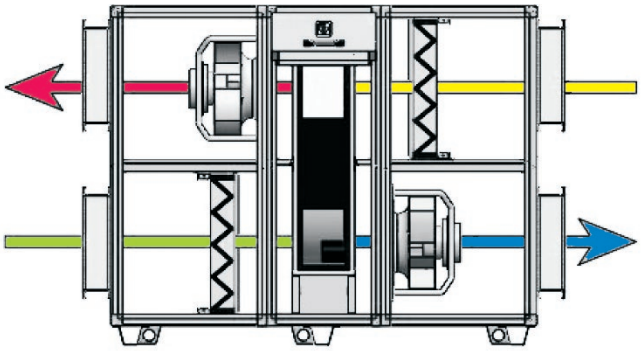
* SFP value for supply fan at V_{nom} and basic unit configuration
** **H** = horizontal (4 side connections), **HV** = half vertical (2 top+ 2 side connections), **V** = vertical (4 top connections)
*** Heat recovery is calculated according to EN 308 standard. In real conditions efficiencies up to 85% can be reached.

CompAir RW

Connection placement versions – options to be selected in AirCalc++

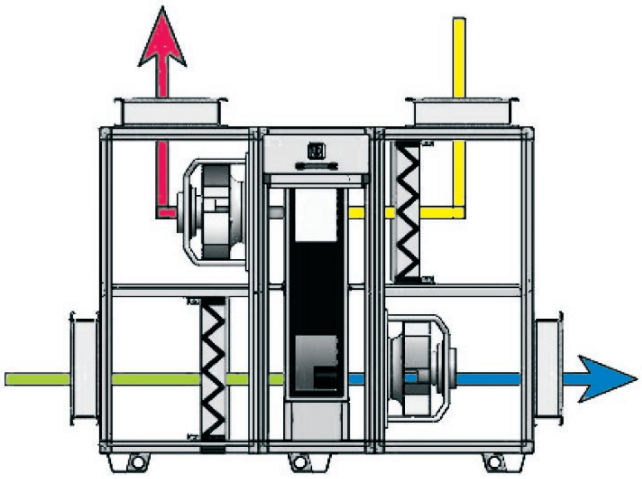
CompAir RW with 4 side connections (H)* – 6 sizes, airflows up to 10 700 m³/h

fresh air intake on lower side

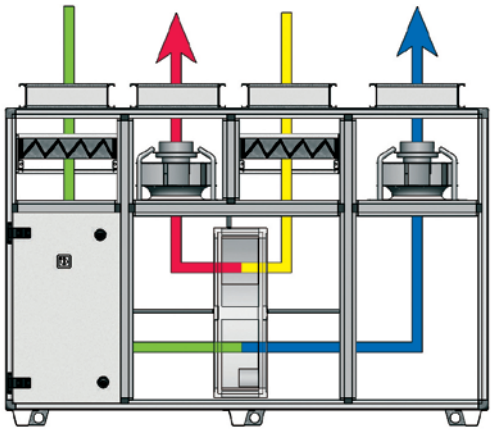


CompAir RV with 2 side and 2 top connections (HV)* - 6 sizes, airflows up to 10 700 m³/h

fresh air intake on lower side



CompAir RW with 4 top connections (V) - 3 sizes, airflows up to 4700 m³/h

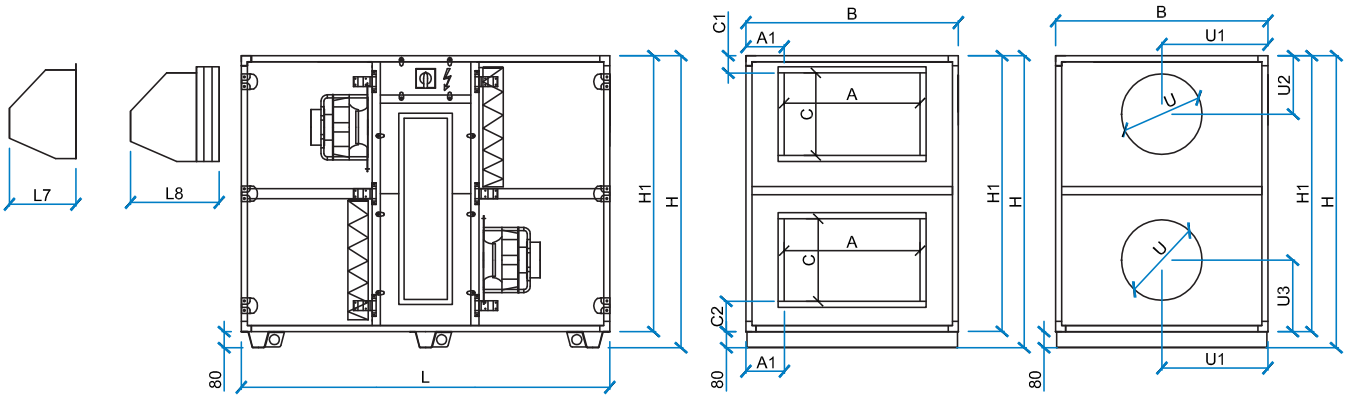


* the stated connection placement options are valid for both monoblock and splitted version

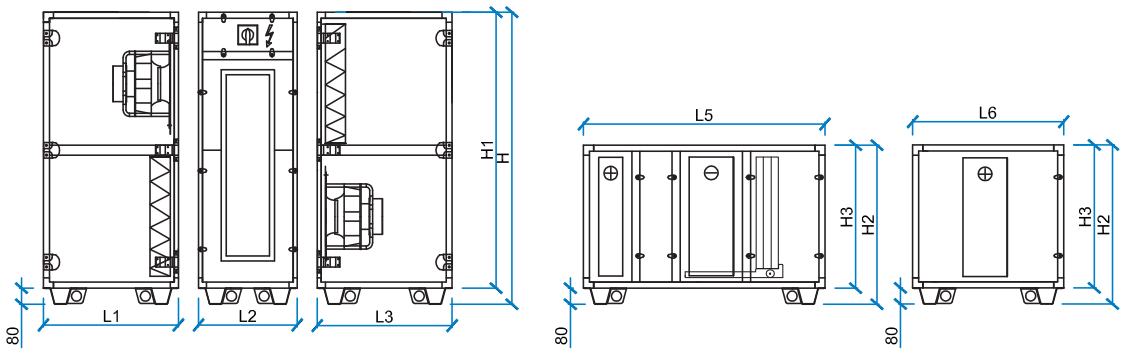
CompAir RW (H)

Units with horizontal connections (H)

CompAir RW (H) monoblock version



CompAir RW (H) splitted version with additional sections



All configurations are available:
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

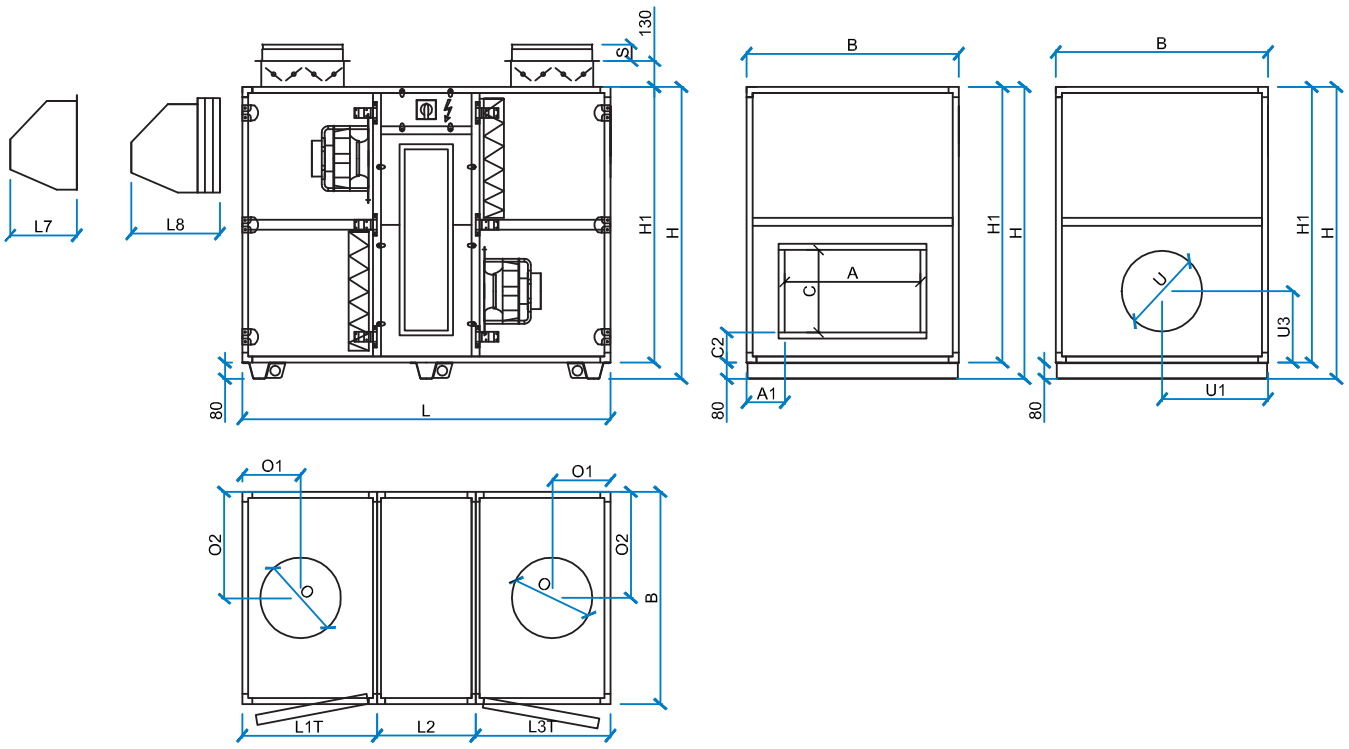
CompAir RW with horizontal (H) connections (2 + 2 side connections)

Size	2000	3000	4000	6000	8000	10000
Air flow range [m3/h]	910-2400	1150-3300	1420-4700	2390-7000	2980-8700	3850-10700
Electrical supply [V]	1 x 230	3 x 400	3 x 400	3 x 400	3 x 400	3 x 400
Motor and fan type	Radial plug-in fan with EC motor					
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Input power (per fan)	730 W	1140 W	1700 W	2600 W	2900 W	3300 W
Current draw (per fan)	3,2 A	1,8 A	2,6 A	4,0 A	4,43 A	5,1 A
Insulation	50 mm mineral wool					
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc					
Filter type	Panel or bag filter					
Filter class	F7 / M5 or F7					
Damper exhaust	Outlet air damper 24 V actuator					
Damper supply	Supply (fresh air) damper 24 V actuator					
Condensate drain connection	DN40					
Heater connections	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"
Cooler connections	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"
Dimension inside and outside [mm]	**Monoblock / Splitted**				**Splitted**	
Length monoblock L [mm]	1870	1870	1870	2070		
Length L1 [mm] - filter section	690	690	690	790	690	690
Length L2 [mm] - heat recovery section	490	490	490	490	490	490
Length L3 [mm] - fan section	690	690	690	790	790	990
Options: L5, L6, L7, L8						
Length L5 with heater (water, electrical) and cooler (water, DX) [mm]	1200					
Length L6 with heater (water, electrical) or cooler (water, DX) [mm]	750					
Length L7 with hood [mm]	330	330	330	430	500	500
Length L8 with hood and drop eliminator [mm]	445	445	445	545	615	615
Roof (for outside units)	50 mm over the unit's edge					
Height H [mm]	1450	1450	1450	1730	2060	2060
Height H1 [mm]	1370	1370	1370	1650	1980	1980
Height H2 [mm]	790	790	790	930	1095	1095
Height H3 [mm]	710	710	710	850	1015	1015
Width B [mm]	1055	1155	1460	1780	1920	2275
Rectangular duct dimension A x C [mm]	675 x 410	795 x 410	1100 x 410	1420 x 510	1560 x 610	1915 x 610
A1 position duct connection	190	180	180	180	210	180
C1 position duct connection	85	85	85	85	85	85
C2 position duct connection	150	150	150	170	202.5	202.5
J length of duct connection [mm]	100					
Round duct connection U [mm]	400	500	500	630	800	800
U1 position round connection	527.5	577.5	730	890	960	1137.5
U2 position round connection	290	340	340	400	490	490
U3 position round connection	355	355	355	425	507.5	507.5
S length of round connection [mm]	80	80	80	80	100	100
Efficiency	up to 85 %					
Heat recovery	Rotary wheel					
Operating temperature	-20°C to 40°C					

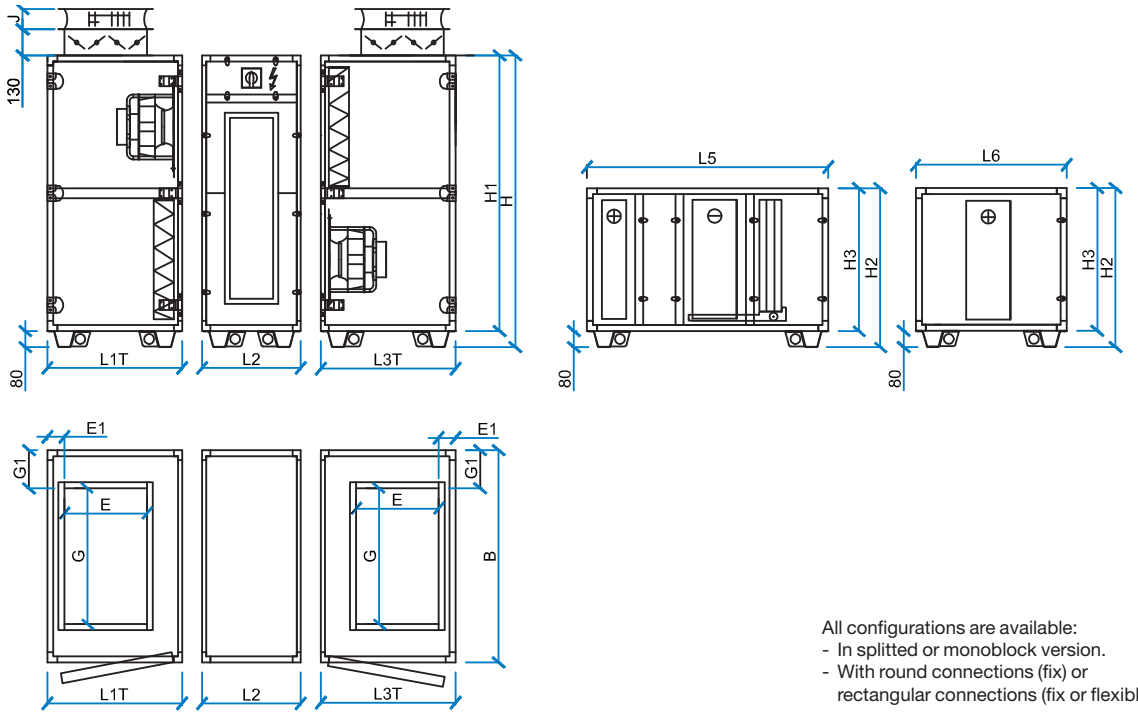
CompAir RW (HV)

Units with half-vertical connections (HV)

CompAir RW (HV) monoblock version



CompAir RW (HV) splitted version with additional sections



All configurations are available:
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

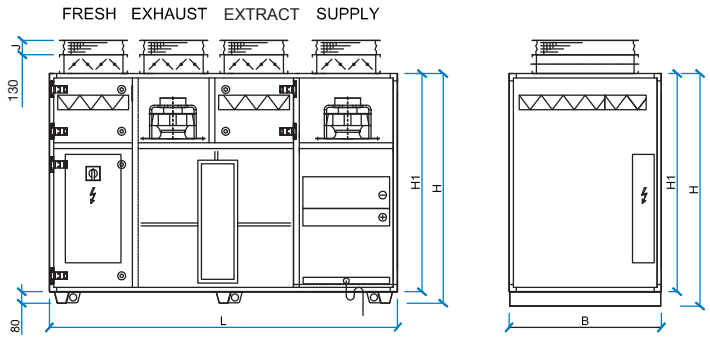
CompAir RW with half-vertical (HV) connections (2 side + 2 top connections)

Size	2000	3000	4000	6000	8000	10000
Air flow range [m3/h]	910-2400	1150-3300	1420-4700	2390-7000	2980-8700	3850-10700
Electrical supply [V]	1 x 230	3 x 400	3 x 400	3 x 400	3 x 400	3 x 400
Motor and fan type	Radial plug-in fan with EC motor					
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Input power (per fan)	730 W	1140 W	1700 W	2600 W	2900 W	3300 W
Current draw (per fan)	3,2 A	1,8 A	2,6 A	4,0 A	4,43 A	5,1 A
Insulation	50 mm mineral wool					
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc					
Filter type	Panel or bag filter					
Filter class	F7 / M5 or F7					
Damper exhaust	Outlet air damper 24 V actuator					
Damper supply	Supply (fresh air) damper 24 V actuator					
Condensate drain connection	DN 40					
Heater connections	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"
Cooler connections	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"
Dimension inside and outside [mm]	Monoblock / Splitted				Splitted	
Length monoblock L [mm]	1870	1870	1870	2070		
Length L1T [mm] - filter section with top connection	690	690	690	790	990	990
Length L2 [mm] - heat recovery section	490	490	490	490	490	490
Length L3T [mm] - fan section with top connection	690	690	690	790	990	990
Options: L5, L6, L7, L8						
Length L5 with heater (water, electrical) and cooler (water, DX) [mm]	1200					
Length L6 with heater (water, electrical) or cooler (water, DX) [mm]	750					
Length L7 with hood [mm]	330	330	330	430	500	500
Length L8 with hood and drop eliminator [mm]	445	445	445	545	615	615
Height H [mm]	1450	1450	1450	1730	2060	2060
Height H1 [mm]	1370	1370	1370	1650	1980	1980
Height H2 [mm]	790	790	790	930	1095	1095
Height H3 (mm):	710	710	710	850	1015	1015
Width B [mm]	1055	1155	1460	1780	1920	2275
Rectangular duct dimension A x C [mm]	675 x 410	795 x 410	1100 x 410	1420 x 510	1560 x 610	1915 x 610
A1 position duct connection	190	180	180	180	210	180
C2 position duct connection	150	150	150	170	202.5	202.5
Rectangular duct dimension on roof E x G [mm]	410 x 675	410 x 795	410 x 1100	510 x 1420	610 x 1560	610 x 1915
E1 position duct connection	85	85	85	85	85	85
G1 position duct connection	190	180	180	180	150	180
J length of duct connection [mm]	100					
Round duct connection U [mm]	400	500	500	630	800	800
U1 position round connection	527.5	577.5	730	890	960	1137.5
U3 position round connection	355	355	355	425	507.5	507.5
Round duct connection on roof O [mm]	400	500	500	630	800	800
O1 position round connection	290	340	340	400	490	490
O2 position round connection	527.5	577.5	730	890	960	1137.5
S length of round connection [mm]	80	80	80	80	100	100
Efficiency	up to 85 %					
Heat recovery	Rotary wheel					
Operating temperature	-20°C to 40°C					

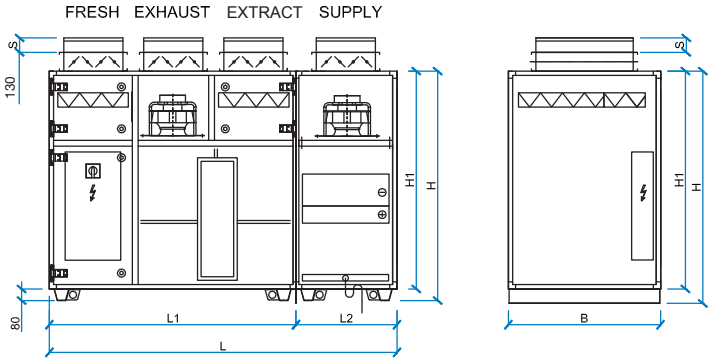
CompAir RW (V)

Units with vertical connections (V)

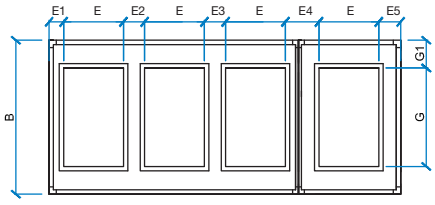
CompAir RW (V) monoblock



CompAir RW (V) splitted version



Connection placement variants – circular or rectangular top connections



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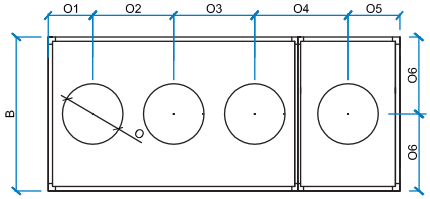

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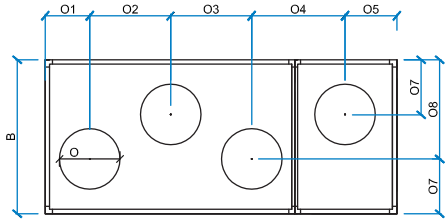


All configurations are available:
- In splitted or monoblock version.
- With round connections (fix) or rectangular connections (fix or flexible).

Technical data

CompAir RW vertical (V) connections (4 top connections)

Size	2000	3000	4000
Airflow range [m3/h]	910-2400	1150-3300	1420-4700
Electrical supply [V]	1 x 230	3 x 400	3 x 400
Motor and fan type	Radial plug-in fan with EC motor		
Frequency	50 Hz	50 Hz	50 Hz
Input power (per fan)	730 W	1140 W	1700 W
Current draw (per fan)	3,2 A	1,8 A	2,6 A
Insulation	50 mm mineral wool		
Panel material/colour	Sheet steel, powder coated in RAL 7035 or Aluzinc		
Filter type	Panel filter		
Filter class	F7 / M5 or F7		
Damper exhaust	Outlet air damper 24 V actuator		
Damper supply	Supply (fresh air) damper 24 V actuator		
Condensate drain connection	DN 40		
Heater connections	3/4"	1"	1"
Cooler connections	1"	1 1/4"	1 1/4"
Dimension inside and outside [mm]	**Monoblock / Splitted**		
Length monoblock L [mm]	2420	2520	2520
Length L1 [mm] - heat recovery section	1720	1820	1820
Length L2 [mm] - fan section and heat exchanger	700	700	700
Height H [mm]	1590	1690	1790
Height H1 [mm]	1510	1610	1710
Width B [mm]	1055	1155	1460
Rectangular duct dimension on roof E x G [mm]	410 x 675	410 x 795	410 x 1100
Position duct connection [mm]			
E1 position duct connection	80	110	110
E2 position duct connection [mm]	160	190	190
E3 position duct connection [mm]	160	190	190
E4 position duct connection [mm]	230	240	240
E5 position duct connection [mm]	150	150	150
G1 position duct connection	190	180	180
J length of duct connection [mm]	100		
Round connection on roof O [mm]	400	500	500
Position round connection [mm]			
O1 position round connection	285	315	315
O2 position round connection	570	600	600
O3 position round connection [mm]	570	600	600
O4 position round connection [mm]	640	650	650
O5 position round connection [mm]	355	355	355
O6 position round connection [mm]	527.5	/	/
O7 position round connection [mm]	/	425	577.5
O8 position round connection [mm]	/	730	882.5
S length of round connection [mm]	80	80	80
Efficiency	up to 85 %		
Heat recovery	Rotary wheel		
Operating temperature	-20°C to 40°C		

Ordering key example

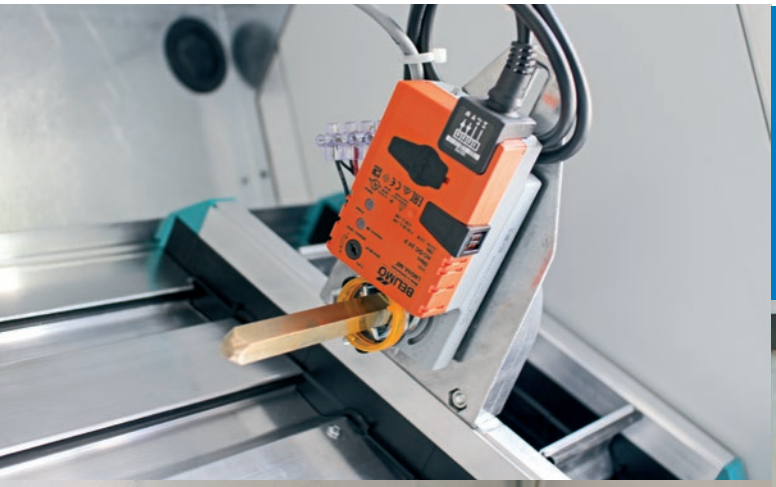
(generated from selection software AirCalc++)

CompAir RW1 (Plus) 2000-R-I-M-P1-FK(7;5),C,KW-R-S3-DA1(1)3(1)-x-x-RC1234-PH14-LI-FT-SY-B-1-FB-SD-CO2-DP-DH

Heat recovery type	**RW1**	rotary wheel exchanger (H) - 4 side connections
	RW2	rotary wheel exchanger (HV) - 2 top and 2 side connections
	RW3	rotary wheel exchanger (V) - 4 top connections
Housing type	**Plus**	Plus housing (TB2)
	(empty)	Basic housing (TB4)
Unit size		2000, 3000, 4000, 6000, 8000, 10000
Access side	**R**	right
	L	left
Installation	**I**	inside unit
	O	outside unit
Unit type	**M**	monoblock
	S	splitted
Panels	**P1**	steel, powder coated in RAL 7035
	P2	Aluzinc
Filter type (filtration)	**FTT**	bag filter (7;5 or 7;7)
	FK	panel filter (7;5 or 7;7)
	FK+FTT_FK	panel + bag filter on supply and panel filter on exhaust (5+7; 5 or 5+7;7)
	FK+FTT_FTT	panel + bag filter on supply and bag filter on exhaust (5+7; 5 or 5+7;7)
	2FTT	bag filter (7;5 or 7;7) and spare filter
	2FK	panel filter (7;5 or 7;7) and spare filter
	2(FK+FTT_FK)	panel + bag filter on supply and panel filter on exhaust (5+7; 5 or 5+7;7) and spare filter
	2(FK+FTT_FTT)	panel + bag filter on supply and bag filter on exhaust (5+7; 5 or 5+7;7) and spare filter
Type of rotary wheel	**C**	condensing
	E	entalpy
Accessories 1 (function)		
Preheater	**EEV (9)**	electrical pre-heater (power in kW)
	EWV	glycol pre-heater
	x	without pre-heater
Accessories 2 (function)		
Heater, cooler	**x**	without function
	EW	water heater
	KW	water cooler
	KD	dx cooler
	EE(6)	electrical heater (power in kW)
	EW+KW	water heater + water cooler
	EW+KD	water heater + dx cooler
	EE(6)+KW	electrical heater (power in kW) + water cooler
	EE(6)+KD	electrical heater (power in kW) + dx cooler
	EWd	duct water heater
	KWd	duct water cooler
	EE(6)d	duct electrical heater (power in kW)
	EWd+KWd	duct water heater + duct water cooler
	EE(6)d+KWd	duct electrical heater (power in kW) + duct water cooler

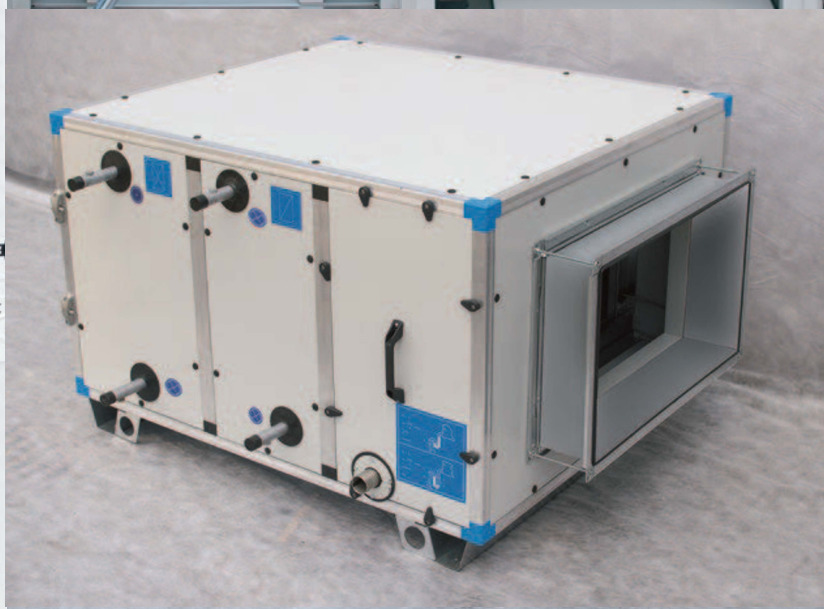
Reversible cooling coil - function	**x**	no reversible
	R	reversible
Accessories 3 (function)		
Sound attenuator	**x**	without sound attenuator
	S1	sound attenuator Exh - 500 mm
	S2	sound attenuator Exh - 750 mm
	S3	sound attenuator Exh - 1250 mm
Accessories 4 (additional equipment)		
Syphon	**SY**	syphon
	x	without syphon
Feet	**FT**	feet
	MA	rubber pad - Mafund
	x	without feet
Lights	**LI**	light + switch and window
	x	without light + switch and window
Protection hood	**PH14**	protection hood on standard connections 1,4
	PH1E	protection hood on standard connections 1 with eliminator
	x	without protection hood
Round connections	**RC1234**	round connections on connections 1,2,3,4
	RC24	round connections on connections 2,4
	x	without round connections
Fixed rectangular connections	**FR1234**	fixed rectangular connections on connections 1,2,3,4
	FR24	fixed rectangular connections on connections 2,4
	x	without fixed rectangular connections
Flexible canvas	**FC1234**	flexible canvas on rectangular connections 1,2,3,4
	FC24	flexible canvas on rectangular connections 2,4
	x	without flexible canvas
Dampers	**DA1(1)3(1)**	dampers on connections 1,3 - actuator on/off
	DA1(2)3(2)	dampers on connections 1,3 - spring actuator
	DA1(1)	damper on connection 1 - actuator on/off
	DA1(2)	damper on connection 1 - spring actuator
	x	without dampers
Automation and control accessories		
Automation type	**B**	basic automation
	S	standard automation
	A	advanced automation
	X	without automation
Pressure measuring	**x**	without magnehelic
	1	with magnehelic (2 pcs.)
Fire by-pass	**x**	without fire by-pass
	FB	fire by-pass
	FB1	fire by-pass + damper
Smoke detector	**x**	without smoke detector
	SD	smoke detector
CO_2 sensors	**x**	without CO_2 sensor
	CO2	CO_2 sensor
Pressure sensors	**x**	without pressure sensor
	DV	constant airflow regulation
	DP	constant duct pressure regulation
	DB	constant duct pressure, airflow measurement
Humidifier regulation	**x**	without duct humidifier regulation
	DH	duct humidifier regulation

Components & Accessories



Recuperators, actuators, fans and filters from most renowned European suppliers.

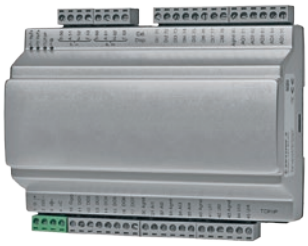
Simple adding of additional sections (heaters, coolers, eliminators, etc.) to the basic unit.



Control System

Advanced cloud-based controls

- The integrated control system is available in three versions: Basic, Standard and Advanced, with different functions (see table below) and price levels.
- The user friendly interface is designed in multiple languages.



BASIC controls:

- Compact preprogrammed controller with internal display allows easy controlling of basic functions and represents a reliable low-price solution for less demanding applications.

STANDARD controls:

- This version offers a large range of control functions, which are accessible via a stand-alone display and configuration unit.

ADVANCED controls:

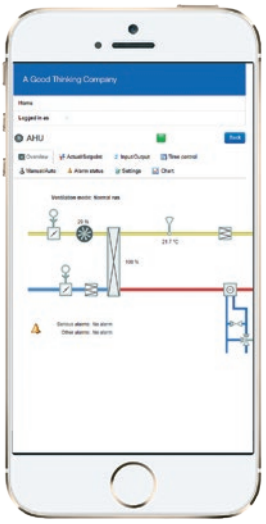
- The modern swipe and touch display is designed to make the user interface simpler and more intuitive, with easy browsing between the screens.
- The air handling unit is also accessible via the cloud application "OC IMP Klima Connect".

Features	BASIC	STANDARD	ADVANCED
Temperature regulation	•	•	•
Heat recovery regulation	•	•	•
Air flow regulation		(•)	(•)
Air flow measurement		(•)	•
Duct pressure measurement		(•)	(•)
Duct pressure regulation		(•)	(•)
CO_2 sensor		(•)	(•)
Smoke detector	(•)	(•)	(•)
Fire by-pass damper	(•)	(•)	(•)
Reversible function	(•)	(•)	(•)
Humidity measurement			•
Humidity regulation			(•)
Energy consumption			•
Schedule working (holiday/weekly)	•	•	•
Summer/winter compensation, free cooling		•	•
Alarms	•	•	•
Parameters history		•	•
Field connectivity		•	•
BMS connectivity		•	•
Touch display			•
Smartphone/Cloud connectivity			•

Note: (•) = optional feature, • = default feature

BMS connectivity - options

- TPC/IP Modbus communication.
- TPC/IP BACnet communication.
- TCP/IP port can be used to connect the controller to the cloud, or optionally, connect to the controller via remote IP address.

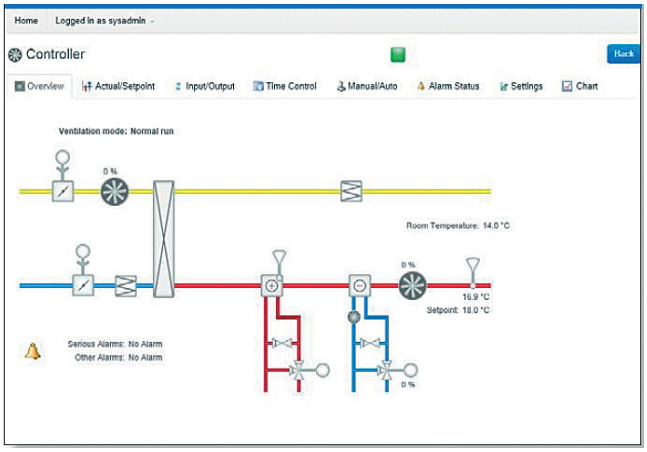


Smartphone connectivity

- The Smartphone application enables access to the controller with a web server from any mobile phone, tablet or computer with a web browser. You can control and supervise building systems, read and follow up values, change settings, manage alarms, etc. – at all times, regardless of your location.

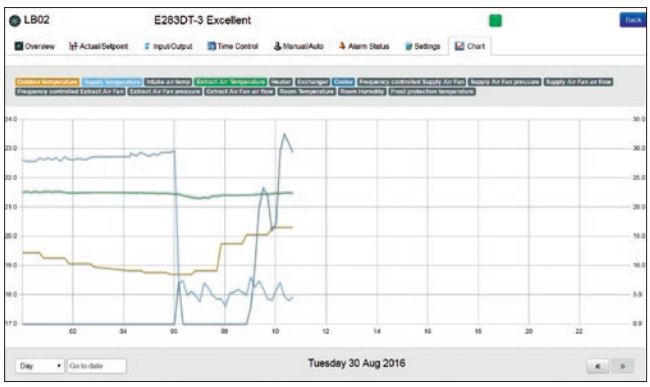
Cloud connectivity

- For users, who demand a complete control of the buildings indoor climate portfolio, our cloud application is the tool of choice. The web-based platform can always be accessed by various users, regardless of their current location.
- Once the controller has been configured, a dynamic flow window is automatically created and current configuration values are shown in real time.



Logging

- Log values can be stored and read for up to one year in the cloud app. The controller sends log values to the cloud every ten minutes and can up to a month be viewed graphically at all times. It is also possible to view data from previous months or to save the complete log as an Excel file.



Connection

- In order to access the cloud app via a network, a network cable connected to the Internet is required. A 3G modem can also be used to access the cloud app.

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