



These units allow you to extract a certain amount of exhaust air from the room and supply an equivalent quantity of fresh air.

A crossflow aluminium plate exchanger assures an efficient heat exchange between exhaust and fresh air: therefore the fresh air is pre-heated or pre-cooled according to the seasons.

The supply air is filtered before entering the heat recovery exchanger that is protected with a synthetic filter also at the exhaust air side.

The supply air can optionally be re-heated with a hot water coil or with an electric coil.

Features

- 7 sizes are available:
UR: standard version
UR W: same as standard version and equipped with water heating coil with copper tubes and 3-row aluminium louvers. Not to be used with chilled water.
UR E: same as standard versions and equipped with electric heating coil with aluminium louvers and double safety thermostat.
- Double suction centrifugal fans coupled directly to the electric motors, equipped with adjustable speeds via an electronic control to vary the flow rate.
- G3 class synthetic filter on the air outlet.
- Aluminium plate reheater housed in the condensate tray that is easily removed from the bottom.
- G3 class synthetic filter on the fresh air intake
- Self-bearing panels made of galvanized sheet metal with injected polyurethane insulation and thickness 20 mm.
- Galvanized condensate tray.
- Fans can be inspected from the bottom.
- Filters can be removed from the bottom for cleaning or replacement.
- Two versions available for horizontal and vertical installation (it is not possible to install the cooling coil accessories and silencers for the vertical installation).
- Electronic Regulator with Slave Application allowing continuous variation of rotation speed and air flow rate.

Accessories

- **BF**: Water cooling coil.
- **FGC**: Circular flanges.
- **G4**: High-efficiency filters on the fresh air intake in class G4.
- **MPW**: Module with 4-row water cooling-coil and 1-row water post-heating coil.
- **MPX**: Module with 4-row water cooling coil and electric post-heating coil with reinforced louvered coils. Safety thermostat included.
- **SE**: Free-Cooling control dampers.
- **SU**: Silencers.

Compatibility of Accessories

Horizontal installation:

	UR 35	UR 55	UR 75	UR 100	UR 150	UR 210	UR 330
BF	BF35	BF55	BF75	BF100	BF150	BF210	BF330
FGC	FGC1	FGC1	FGC1	FGC2	FGC2	-	-
G4	G435	G455	G475	G4100	G4150	G4210	G4330
MPW	MPW35	MPW55	MPW75	MPW100	MPW150	MPW210	MPW330
MPX	MPX35	MPX55	MPX75	MPX100	MPX150	MPX210	MPX330
SE	SE1	SE1	SE2	SE3	SE3	SE4	SE5
SU	SU1	SU1	SU2	SU3	SU3	SU4	SU5

Vertical installation:

	UR 35	UR 55	UR 75	UR 100	UR 150	UR 210	UR 330
FGC	FGC1	FGC1	FGC1	FGC2	FGC2	-	-
G4	G435	G455	G475	G4100	G4150	G4210	G4330
SE	SE1	SE1	SE2	SE3	SE3	SE4	SE5

Technical data

Mod.		UR 35	UR 55	UR 75	UR 100	UR 150	UR 210	UR 330
Air flow rate	(1) m ³ /h	350	550	700	1000	1500	2100	3300
Static pressure (max speed)	(1) Pa	125	280	173	170	160	140	150
Recovery unit:								
Heating capacity recovered	(2) kW	1.5	2.5	3.2	4.6	6.7	9.3	14.3
Cooling capacity recovered	(3) kW	0.4	0.7	0.9	1.3	1.9	2.6	4.3
Recovery unit efficiency	(2) %	52.1	55	54.3	54.4	53.1	52.7	52
Internal water heating coil heating capacity	(4) kW	4.1	6.7	8.2	13	18.7	25.9	36.6
Internal electric heating coil heating capacity	(5) kW	2.5	2.5	4.7	6	10	15	25
Cooling coil cooling capacity (BF)	(6) kW	3.4	4.9	6.1	10.2	13.8	18.5	28
Water post-heating coil heating capacity (MPW)	(7) kW	1.5	2.4	3.2	4.8	5.7	7.4	10.2
Electric post-heating coil heating capacity (MPX)	(8) kW	1.5	2	2.8	4	6	8	13
Sound pressure level	dB(A)	44	44	44	48	47	52	55
Total input power	kW	0.30	0.58	0.58	1.84	1.84	1.84	3.68
Filters:								
EN779 Classification		G3	G3	G3	G3	G3	G3	G3
Efficiency	%	80	80	80	80	80	80	80
Power supply		230V/1/50Hz						

(1) At maximum fan speed

(2) Fresh air flow rate equal to the exhaust air flow rate; Incoming ambient air temperature -5°C, 80% UR; Room temperature 20°C, 50% UR.

(3) Fresh air flow rate equal to the exhaust air flow rate; Incoming ambient air temperature 34°C, 50% UR; Room temperature 26°C, 50% UR.

(4) Air temperature 8°C; Water temperature (in/out) 70°C/60°C

(5) 400V/3/50Hz

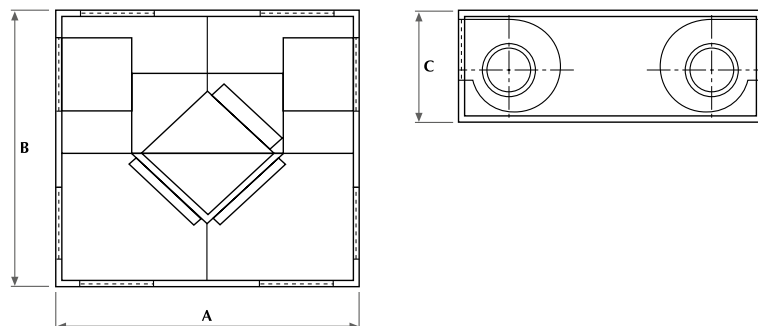
(6) Air temperature 30°C 60 UR; Water temperature (in/out) 7°C/12°C

(7) Air temperature 17°C; Water temperature (in/out) 70°C/60°C

(8) 400V/3/50Hz

Sound pressure level referring to a distance of 1.5m, directivity factor=2, fan at max speed, supply and exhaust channelled for at least 2m

Dimensions (mm)



Mod. UR		35	55	75	100	150	210	330
Height	A	1090	1090	1190	1500	1500	1750	2500
Width	B	900	900	1000	1250	1250	1400	1750
Depth	C	300	300	330	390	390	390	390
	UR Std	61	65	74	115	130	170	280
Weight (kg)	UR E	62	66	75	117	133	174	286
	UR W	62	66	75	117	133	174	286

Aermec reserves the right to make all the modifications deemed necessary for improving the product, including technical data.

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