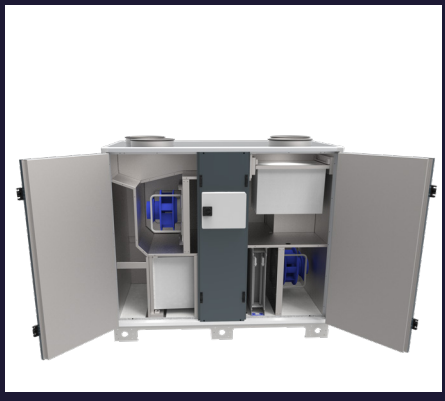
Versatile

Heating · Cooling · Ventilation

Ireland's leading supplier of Heating, Cooling & Ventilation Solutions

GLOBAL RX-PX-LP
Quickguide




Dimensioning guide

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GLOBAL RX TOP

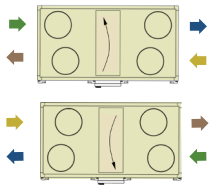
Supply air

Extract air

Outdoor air

Exhaust air

RX TOP 05 - 08 -10



Right

Left

RX TOP 12-13-14-16

Right

Left

Size	CID		Fan type	L (mm)	W (mm)	H (mm)	Weight (kg)	Ø (mm)	□ (mm)	Min.		Max.		Ecodesign LOT6			Filter type (EN16890)		
RX TOP	Right	Left								m³/h	l/s	m³/h	l/s	Nom. airflow (m³/s)	Effic. (EN308) *	LWA dB(A) **	Supply	Extract	
05 TOP std	881000	881101	comp	1530	815	1315	305	250	na	100	28	950	260	0,18	79%	53	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
05 TOP pre	881018	881019										1050	290	0,20	83%				
08 TOP std	881002	881003	comp	1530	815	1315	315	250	na	200	56	1270	350	0,25	80%	49	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
08 TOP pre	881020	881021										1400	380	0,27	84%				
10 TOP std	881004	881005	comp	1680	885	1465	370	315	na	160	44	1680	460	0,33	79%	49	ePM1 70%	ePM10 50%	1 x 230V / 4.9A
10 TOP pre	881022	881023										1690	460	0,33	84%				
12 TOP std	881006	881007	comp	1680	885	1465	365	opt	590 x 350	200	56	1890	520	0,37	78%	54	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
12 TOP pre	881024	881025										2140	590	0,42	81%				
13 TOP std	881012	881013	comp	1680	995	1465	390	opt	590 x 500	200	56	2240	620	0,44	80%	51	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
13 TOP pre	881030	881031										2430	670	0,47	83%				
14 TOP std	881008	881009	comp	1680	1182	1465	425	opt	590 x 500	250	69	2870	790	0,56	79%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
14 TOP pre	881026	881027										3050	840	0,59	83%				
16 TOP std	881010	881011	comp	1680	1182	1465	430	opt	590 x 500	300	83	3290	910	0,60	80%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
16 TOP pre	881028	881029										3140	870	0,61	85%				

std = standard heat exchanger /pre = premium heat exchanger / comp = composite (aluminium available in option) / opt = IRS adapter available in option / tba = to be advised

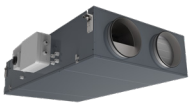
Controls : All units are equipped with the smart control system TAC5 with optional connectivity by BACNET, Modbus RTU, TCP IP over Ethernet, TCP IP over Wifi, KNX.

Hardware : All units have a casing in RAL 7016, are insulated with 50mm Rockwool and can be delivered as left or right units. Operating temperatures are from -20°C to +50°C

*Heat exchanger efficiency dry bulb (EN308) at nominal airflow

**Casing radiated sound power level at nominal airflow and 200 Pa of external pressure

GLOBAL LP



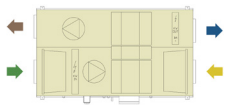
Supply air

Extract air

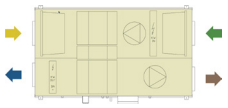
Outdoor air

Exhaust air

LP 02 - 18



Right



Left

Size	CID		Fan type	L (mm)	W (mm)	H (mm)	Weight (kg)	Supply Exhaust	Extract Outdoor	Supply Exhaust	Extract Outdoor	Min.		Max.			Ecodesign LOT6		Filter type (EN16890)		
LP	Right	Left						Ø (mm)	Ø (mm)	□ (mm)	□ (mm)	m³/h	l/s	m³/h	l/s	Nom. airflow (m³/s)	Effic. (EN308) *	LWA dB(A)**	Supply	Extract	
02	886500	886501	comp	1300	890	350	105	200	200	na	na	100	30	580	160	0,11	81	58	ePM10 55%	ePM10 55%	1 x 230V / 3.1A
04	886502	886503	comp	1300	1100	350	125	250	250	na	na	100	30	650	180	0,13	82	58	ePM10 55%	ePM10 55%	1 x 230V / 3.1A
06	886504	886505	comp	2100	1050	435	195	315	315	na	na	200	55	1000	270	0,19	82	64	ePM1 70%	ePM10 50 %	1 x 230V / 5.3A
08	886506	886507	comp	2100	1050	435	230	315	315	na	na	200	55	1420	390	0,28	82	61	ePM1 70%	ePM10 50 %	1 x 230V / 5.3A
10	886508	886509	comp	2100	1600	435	285	opt	opt	400 x 300	800 x 300	250	70	1800	500	0,35	82	61	ePM1 70%	ePM10 50 %	1 x 230V / 4.9A
12	886518	886519	comp	2250	1700	510	335	opt	opt	400 x 300	800 x 400	300	80	2200	610	0,43	81	60	ePM1 70%	ePM10 50 %	1 x 230V / 7.7A
13	886510	886511	comp	2250	1700	510	335	opt	opt	500 x 400	800 x 400	300	80	2550	700	0,5	81	61	ePM1 70%	ePM10 50 %	1 x 230V / 7.7A
14	886512	886513	comp	2250	1940	510	370	opt	opt	500 x 400	1000 x 400	300	80	2870	790	0,56	81	61	ePM1 70%	ePM10 50 %	1 x 230V / 7.7A
16	886514	886515	comp	2900	1935	660	460	opt	opt	700 x 500	700 x 500	400	110	3300	920	0,64	85	60	ePM1 70%	ePM10 50 %	1 x 230V / 12.7A
18	886519	886517	comp	2900	1935	660	460	opt	opt	700 x 500	700 x 500	400	110	3720	1030	0,72	85	62	ePM1 70%	ePM10 50 %	1 x 230V / 12.7A

comp = composite (aluminium available in option) / opt = IRS adapter available in option / tba = to be advised / na = not available as standard feature

Controls : All units are equipped with the smart control system TAC5 with optional connectivity by BACNET, Modbus RTU, TCP IP over Ethernet, TCP IP over Wifi, KNX.

Hardware : All units have a casing in RAL 7016, are insulated with 30mm Rockwool and can be delivered as left or right units. Operating temperatures are from -20°C to +50°C

*Heat exchanger efficiency dry bulb (EN308) at nominal airflow

**Casing radiated sound power level at nominal airflow and 200 Pa of external pressure

GLOBAL RX

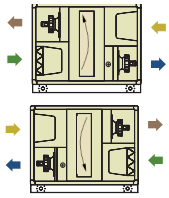
Supply air

Extract air

Outdoor air

Exhaust air

RX 05 - 26



Right

Left

Size	CID									Min.		Max.		Ecodesign LOT6			Filter type (EN16890)		
RX	Right	Left	Fan type	L (mm)	W (mm)	H (mm)	Weight (kg)	Ø (mm)	□ (mm)	m³/h	l/s	m³/h	l/s	Nom. airflow (m³/s)	Effic. (EN308) *	LWA dB(A)**	Supply	Extract	
05 std	881500	881501	comp	1530	815	1315	305	315	na	200	56	1070	290	0,21	78%	53	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
05 pre	881524	881525										1160	320	0,23	81%				
08 std	881502	881503	comp	1530	815	1315	310	315	na	200	56	1340	370	0,26	80%	48	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
08 pre	881526	881527										1680	460	0,33	82%				
10 std	881504	881505	comp	1680	885	1465	360	400	na	250	69	1580	430	0,31	80%	49	ePM1 70%	ePM10 50%	1 x 230V / 4.9A
10 pre	881528	881529										1750	480	0,34	84%				
12 std	881506	881507	comp	1680	885	1465	340	opt	808 x 583	300	83	1960	540	0,38	78%	53	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
12 pre	881530	881531										2350	650	0,46	80%				
13 std	881508	881509	comp	1680	995	1465	365	opt	918 x 583	300	83	2640	730	0,51	78%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
13 pre	881532	881533										2900	800	0,56	81%				
14 std	881510	881511	comp	1680	1182	1465	385	opt	1105 x 583	300	83	2860	790	0,56	79%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
14 pre	881534	881535										3150	870	0,61	83%				
16 std	881512	881513	comp	1680	1182	1465	395	opt	1105 x 583	300	83	3260	900	0,63	80%	50	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
16 pre	881536	881537										3300	910	0,64	84%				
18 std	881514	881515	comp	1880	1382	1725	535	opt	1305 x 713	600	167	4500	1250	0,88	80%	53	ePM1 70%	ePM10 50%	3 x 400V + N / 6.7A
18 pre	881538	881539										4500	1250	0,88	84%				
20 std	881516	881517	comp	1880	1382	1725	535	opt	1305 x 713	600	167	4940	1370	0,96	79%	53	ePM1 70%	ePM10 50%	3 x 400V + N / 6.5A
20 pre	881540	881541										5500	1520	1,07	82%				
24 std	881518	881519	comp	1880	1640	1725	575	opt	1563 x 713	600	167	5910	1640	1,15	79%	55	ePM1 70%	ePM10 50%	3 x 400V + N / 6.5A
24 pre	881542	881543										6640	1840	1,29	82%				
26 std	881520	881521	comp	1880	1640	1725	590	opt	1563 x 713	600	167	6410	1780	1,25	80%	56	ePM1 70%	ePM10 50%	3 x 400V + N / 6.7A
26 pre	881544	881545										7100	1970	1,38	84%				

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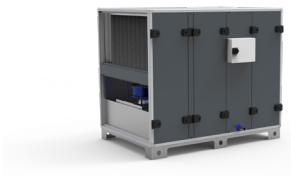
*Heat exchanger efficiency dry bulb (EN308) at nominal airflow

**Casing radiated sound power level at nominal airflow and 200 Pa of external pressure

GLOBAL PX



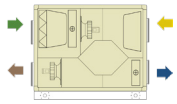
Supply air

Extract air

Outdoor air

Exhaust air

PX 04 - 26



Right

Left

Size	CID									Min.		Max.		Ecodesign LOT6			Filter type (EN16890)		
PX	Right	Left	Fan type	L (mm)	W (mm)	H (mm)	Weight (kg)	Ø (mm)	□ (mm)	m³/h	l/s	m³/h	l/s	Nom. airflow (m³/s)	Effic. (EN308) *	LWA dB(A)**	Supply	Extract	
04	885548	885549	comp	1680	610	1465	330	315	na	200	55	800	220	0,16	85%	54	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
05	885500	885501	comp	1680	610	1465	330	315	na	200	55	1060	295	0,21	84%	54	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
06	885522	885523	comp	1680	815	1465	370	400	na	200	55	1380	380	0,27	85%	48	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
08	885502	885503	comp	1680	815	1465	370	400	na	200	55	1680	465	0,33	84%	48	ePM1 70%	ePM10 50%	1 x 230V / 5.3A
10	885504	885505	comp	1680	995	1465	410	400	na	250	70	1860	515	0,36	85%	48	ePM1 70%	ePM10 50%	1 x 230V / 4.9A
12	885506	885507	comp	1680	1182	1465	420	opt	1069 x 547	400	110	2300	640	0,45	85%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
13	885508	885509	comp	1680	1182	1465	420	opt	1069 x 547	400	110	2800	770	0,54	84%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
14	885510	885511	comp	1680	1382	1465	480	opt	1269 x 547	300	85	3000	830	0,58	85%	49	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
16	885512	885513	comp	1680	1640	1465	520	opt	1105 x 583	300	85	3230	895	0,63	85%	48	ePM1 70%	ePM10 50%	1 x 230V / 7.7A
20	885514	885515	comp	2557	1640	1825	930	opt	1563 x 713	600	170	4700	1300	0,91	84%	51	ePM1 70%	ePM10 50%	1 x 230V / 12.7A
24	885516	885517	comp	2557	2015	1825	1120	opt	1938 x 713	600	170	6260	1740	1,22	84%	54	ePM1 70%	ePM10 50%	3 x 400V + N / 6.5A
26	885518	885519	comp	2557	2396	1825	1260	opt	2318 x 713	600	170	7080	1960	1,38	84%	55	ePM1 70%	ePM10 50%	3 x 400V + N / 6.5A

comp = composite (aluminium available in option) / opt = IRS adapter available in option / tba = to be advised
Controls : All units are equipped with the smart control system TAC5 with optional connectivity by BACNET, Modbus RTU, TCP IP over Ethernet, TCP IP over Wifi, KNX.
Hardware : All units have a casing in RAL 7016, are insulated with 50mm Rockwool and can be delivered as left or right units. Operating temperatures are from -20°C to +50°C
*Heat exchanger efficiency dry bulb (EN308) at nominal airflow
**Casing radiated sound power level at nominal airflow and 200 Pa of external pressure

GLOBAL PX TOP

Supply air

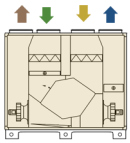
Extract air

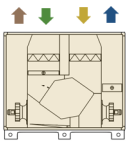
Outdoor air

Exhaust air

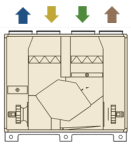
PX TOP 05 - 10

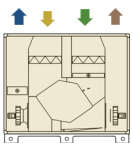
PX TOP 12 - 18





Right





Left

Size	CID							Inlet / Outlet	Min.		Max.		Ecodesign LOT6			Filter type (EN16890)		
PX TOP	Right	Left	Fan type	L (mm)	W (mm)	H (mm)	Weight (kg)	W*H (mm)	m³/h	l/s	m³/h	l/s	Nom. airflow (m³/s)	Effic. (EN308)*	LWA dB(A)**	Supply	Extract	
05	887500	887501	comp	1680	610	1465	330	Ø 250	200	60	940	260	0,18	84%	53,3	ePM1 60%	ePM10 50%	1 x 230V / 5.3A
08	887502	887503	comp	1680	815	1465	380	Ø 315	200	60	1500	410	0,29	84%	49,7	ePM1 60%	ePM10 50%	1 x 230V / 5.3A
10	887504	887505	comp	1960	815	1725	470	Ø 315	300	80	1900	520	0,37	84%	52,5	ePM1 60%	ePM10 50%	1 x 230V / 7.7A
12	887506	887507	comp	1960	995	1725	530	500*300	300	80	2550	700	0,5	83%	50,6	ePM1 60%	ePM10 50%	1 x 230V / 7.7A
14	887508	887509	comp	1960	1182	1725	590	600*300	300	80	2850	790	0,55	84%	50	ePM1 60%	ePM10 50%	1 x 230V / 7.7A
18	887510	887511	comp	1960	1382	1725	670	800*300	400	110	3700	1020	0,72	83%	50,8	ePM1 60%	ePM10 50%	1 x 230V / 12.7A

comp = composite (aluminium available in option except for size 18) / opt = IRS adapter available in option / tba = to be advised / na = not available as standard
Controls : All units are equipped with the smart control system TAC5 with optional connectivity by BACNET, Modbus RTU, TCP IP over Ethernet, TCP IP over Wifi, KNX.
Hardware : All units have a casing in RAL 7016, are insulated with 50mm Rockwool and can be delivered as left or right units. Operating temperatures are from -20°C to +50°C
*Heat exchanger efficiency dry bulb (EN308) at nominal airflow
**Casing radiated sound power level at nominal airflow and 200 Pa of external pressure

THE 3 MAIN OPERATING MODES

AIRFLOW OR PRESSURE

Whether the ventilation system is operated on the basis of constant pressure or constant airflow or via a 0–10V control system depends on the area of application and the specific on-site requirements. The integrated master/slave control system ensures that operation is always well-balanced.

THE ADVANTAGES IN DETAIL

- Sufficiently high reserve pressure
- Constant airflow
- Demand control: constant airflow linked to a 0–10 V signal
- Constant pressure via an external pressure sensor

Constant airflow mode

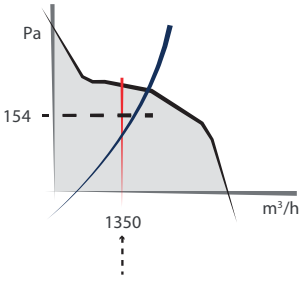
A typical area of application is non-residential buildings, e.g. offices and business premises as well as schools, nurseries and sports halls with stable volumes of air.

Demand control mode

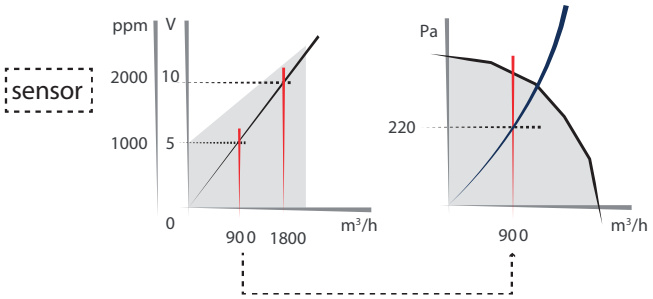
Alternatively, the airflow can be automatically adapted in line with the ventilation requirements and on a user-specific basis via the 0–10 V input, e.g. by means of a CO2 sensor, or the control system can be used via the customer's building service management/ instrumentation and control system.

Constant pressure mode

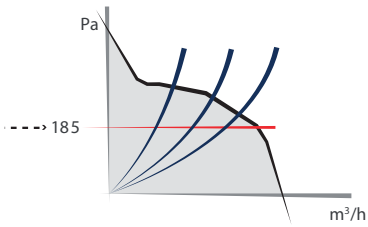
A prime example is undoubtedly apartment buildings with the opportunity to control the ventilation in individual apartments separately. The pressure remains constant even when the ventilation is increased or decreased in one apartment as required, by means of an airflow control unit.
The airflow stays the same in all the other apartments, i.e. the ventilation system always runs within the ideal range. An external pressure sensor is required for constant pressure mode.



Constant Airflow mode
The airflow is kept constant, irrespective of external changes in pressure.



Demand control mode
A linear voltage/airflow ratio. The airflow can be controlled via a 0–10 Volt signal.



Constant pressure mode
The pressure is kept constant, regardless of external changes in pressure. A pressure sensor is required.

CASING PERFORMANCES

The casing of the GLOBAL units is fabricated of aluminum profiled sections held together by synthetic corners. The outer skin is made of painted steel sheet, RAL7016. The inner skin is made of galvanized sheet steel. The panel thickness is 50mm (GLOBAL RX & PX) or 30mm (GLOBAL LP) with intervening insulation consisting of mineral wool. The doors are hung on four hinges, two on every side, with integrated handles (GLOBAL RX & PX). GLOBAL LP features a sliding rail.

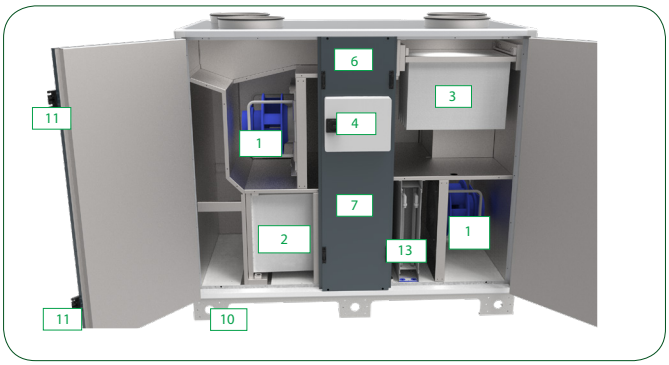
	PX	PX TOP	LP	RX	RX TOP
Mechanical resistance class of the envelope	D1 (R)	D1 (R)	D1 (R)	D1 (R)	D1 (R)
Thermal transmittance class U	T3 (M) Optionally: T2	T3 (M) Optionally: T2	T3 (M)	T3 (M) Optionally: T2	T3 (M) Optionally: T2
Thermal bridge class Kb	TB2 (M)	TB2 (M)	TB2 (M)	TB2 (M)	TB2 (M)
Airtightness of the envelope class (exhaust and supply airstreams)	L2 (R)	L2 (M)	L2 (R)	L2 (R)	L2 (R)
Airtightness around the filters class (exhaust and supply airstreams)	F9 (R)	F9 (R)	F9 (R)	F9 (R)	F9 (R)

(*) T/TB Classes according tests on modelboxes (M), F/L/D classes according to tests on real units (R)

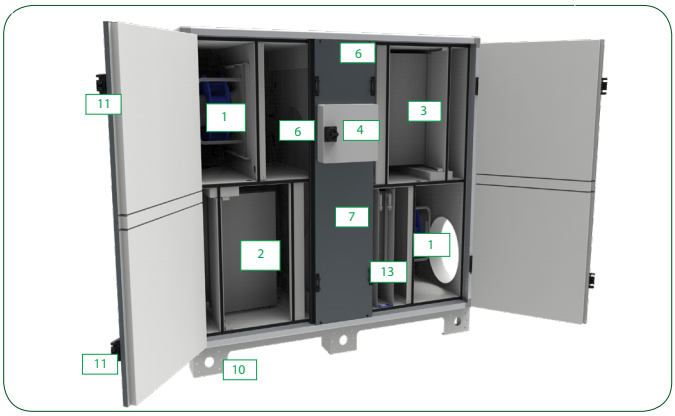
TECHNICAL OVERVIEW

EC PLUG FAN WITH COMPOSITE FAN BLADES (ALUMINUM BLADES OPTIONAL)	1
FRESH AIR FILTER ePM1≥60% FILTER CLASS	2
EXTRACT AIR FILTER ePM10≥50% FILTER CLASS	3
INTEGRATED TAC5 CONTROLLER	4
HIGH EFFICIENCY COUNTERFLOW PLATE HEAT EXCHANGER	5
HIGH EFFICIENCY ROTARY HEAT EXCHANGER	6
STEPLESS ROTOR DRIVE WITH SOLDERED BELT	7
MODULATING 100% BYPASS	8
STAINLESS STEEL DRAIN PAN	9
BASE FRAME FOR EASY ON SITE TRANSPORT	10
EASY ACCESS HINGES	11
EASY ACCESS SLIDING RAILS	12
INTEGRATED POST HEATING (WATER/ ELECTRICAL)	13
INTEGRATED PREHEATING (ELECTRICAL)	14
SILENCER	15

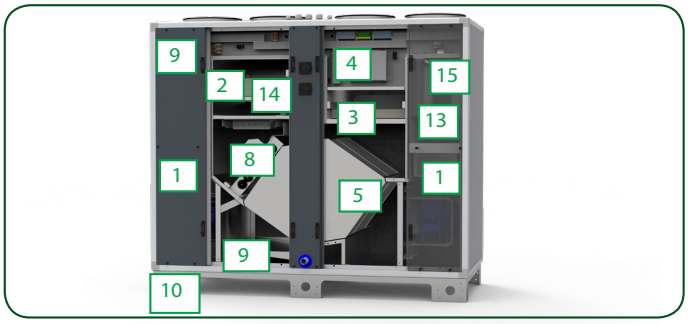
GLOBAL RX TOP



GLOBAL RX

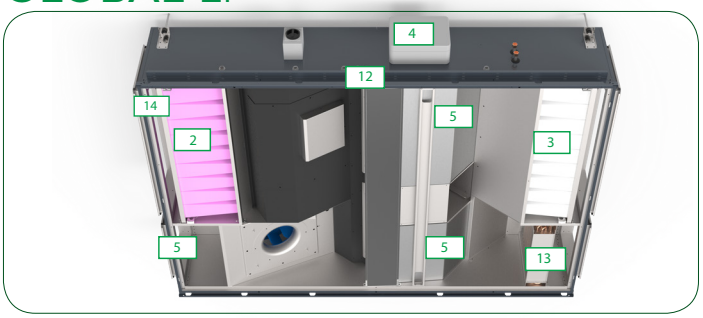


GLOBAL PX TOP



GLOBAL PX

GLOBAL LP



OPTIONS & ACCESSORIES

Option	Shortcut	Category		RX TOP	RX	PX	LP	PX TOP
TACtouch	HMI	Controls		x	x	x	x	x
BACnet gateway	BACnet	Controls		x	x	x	x	x
Modbus RTU	Modbus	Controls		x	x	x	x	x
Ethernet	Ethernet	Controls		x	x	x	x	x
Wifi	Wifi	Controls		x	x	x	x	x
SAT 3	SAT	Controls		x	x	x	x	x
KNX	KNX	Controls		x	x	x	x	x
Internal water post heating	IBA	Coils		x	x	x	x	x
Internal electrical pre heating	Kwin	Coils				x	x	x
Internal electrical post heating	Kwout	Coils		x	x	x	x	x
External insulated casing for coils	ECA	Coils		x	x	x	x	x
Coils for external casing	EBA	Coils		x	x	x	x	x
Roof	OUT	Outdoor			x	x		
Motorised damper	CT	Outdoor		x	x	x	x	x
Air inlet	AUi	Outdoor			x	x		
Air Outlet	AUe	Outdoor			x	x		
Flexible sleeves	MS	Adapters		x	x	x	x	x
Circular adapters	IRS	Adapters		x	x	x	x	x
Prefilter G4	G4	Filters		x	x	x		x
Filter kits	Filters	Filters		x	x	x	x	x
Condensate pump	Pump	Others					x	
Silencer	GD	Others						x

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