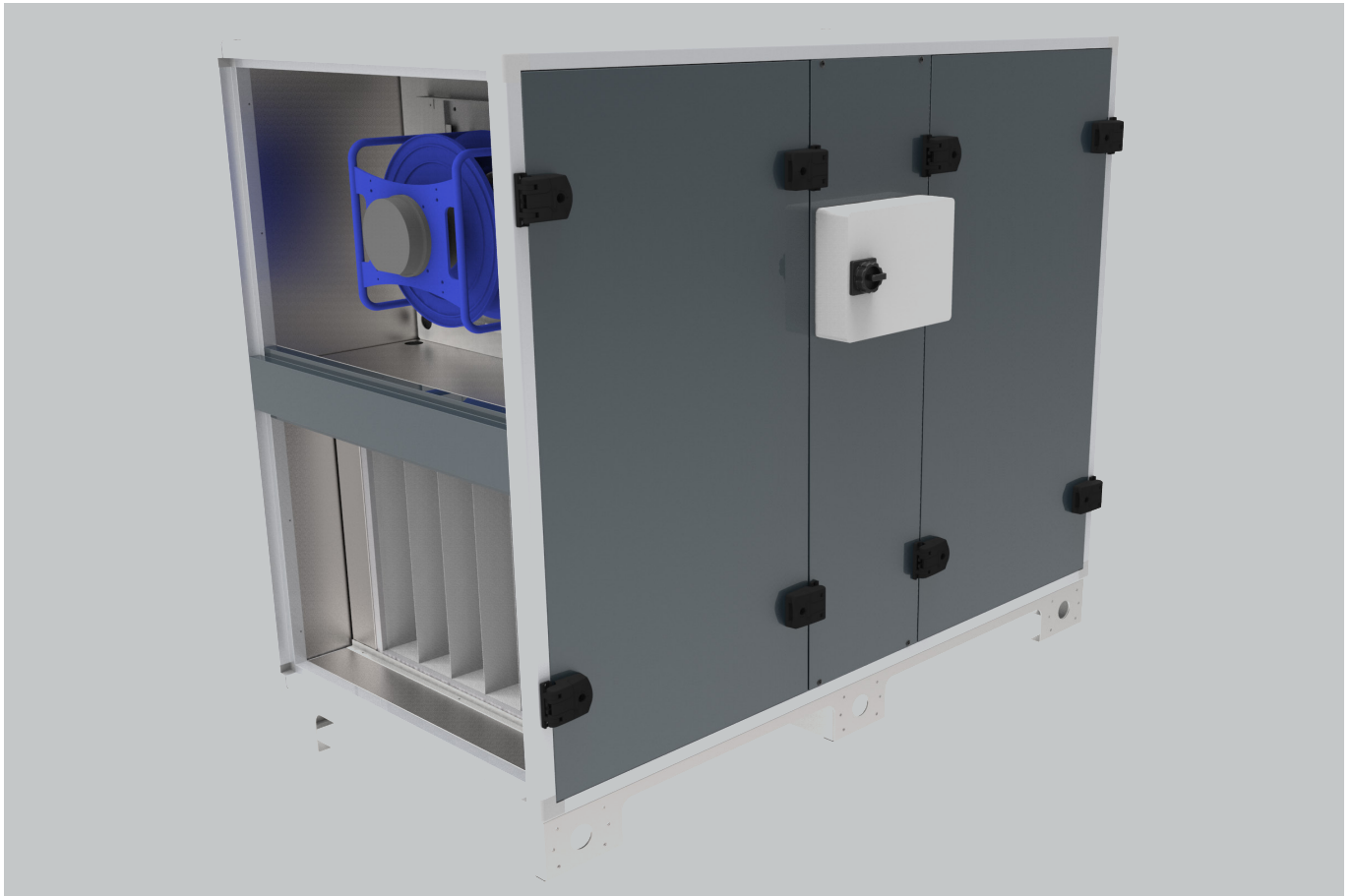


GLOBAL RX

Ventilation unit with rotary heat exchanger - TAC6



Ventilation unit with rotary heat exchanger for commercial applications. Well-suited for both newly constructed buildings and renovation projects.

Maximum airflow 6900 m³/h or 1918 l/s.

Temperature efficiency: up to 85 %.

Energy-efficient and quiet fans with composite or aluminum blades

For installation indoors or outdoors

High efficiency and premium efficiency heat exchangers available

Premium control technique with touchscreen HMI.

Door compliant up to 2000 m³/h or 550 l/s

MAIN ADVANTAGES

DOUBLE FLOW HIGH PERFORMANCE VENTILATION UNITS

Given that each project has unique parameters and caters for different requirements, it follows that there can be no universal, 'one-size-fits-all' unit. This is why Swegon offers an unrivalled range of air handling units. Whether your project is large-scale or small-scale, whether it calls for basic or advanced products, whether the expectations regarding sound levels or space efficiency are tough to meet, we have a solution to match your requirements. In other words, we have the perfect unit for your project.

The company opted for the systematic integration of fans equipped with high performance DC motors (TAC technology). With this technology, the GLOBAL line anticipated the most demanding levels of energy requirements to come, such as those set by the new standards ErP2018.

Over time, it has developed more extensive and effective control. The most recent (TAC) is at the forefront of the technology, due both to its internal functionality and its opening via communication (Modbus, TCP/IP, BACnet, KNX).

PLUG-AND-PLAY UNITS

The GLOBAL ventilation units are supplied as plug and play devices. The basic functions are pre-programmed and accessories are pre-installed, pre-wired and pre-configured in factory. Once the remote control module has been connected, all that needs to be done is to switch the unit on and to change the pre-configured parameters if needed.

ACCESS – FOR OPERATORS

The units' generously sized doors ensure easy access.

ROTARY HEAT EXCHANGER

The exchanger is a high efficiency (>80%) air/air rotary type made of seawater-resistant aluminium. The exchanger complies with standard EN 308 and is Eurovent certified.

HIGH-PERFORMANCE FANS

The powerful EC fans ensure that sufficient external pressure is available, even with high airflows. The composite fan blades will ensure a better SFP and a higher fan efficiency, compared to aluminum fan blades. The efficiency level fulfills the ErP2018 requirements.

SUMMER AND NIGHT TIME COOLING

A 100% bypass is a standard feature on rotary heat exchangers. It allows us to ensure the freecooling function and is automatically regulated on the basis of indoor and outdoor temperatures.

HEATER ELEMENTS

The GLOBAL units can be factory-fitted with an integrated water or electric heater element for post-heating. The capacity of coil is modulated in order to maintain a constant temperature. The water heating coil is ready-to-connect and delivered with a 3-way valve controlled by the TAC controller. The built in control system allows for all GLOBAL units to control an additional external heating (electric or water) and/or cooling exchanger.

DAMPERS

The GLOBAL units can be factory-fitted with connected, motor-driven supply air and exhaust air dampers. In this case, the TAC control activates a fan start-up delay when the unit is started. As an option, a spring return actuator is available.

AIR FILTERS – FILTER CLASSES

As standard, the GLOBAL ventilation units are fitted with particularly effective and large-scale particulate matter bag filters, with filter class ePM1≥70 for the supply air and ePM10≥50 for the exhaust air (a G4 prefilter is available as an option).

CONTROL MODULES

The integrated TAC control system can be connected to: TACtouch HMI with 4,3" capacitive touchscreen. For configuring and controlling the operation of a heat recovery unit.

SAT MODBUS for configuration, visual display and controlling the operation via MODBUS RTU.

SAT KNX for configuration, visual display and controlling the operation via KNX .

SAT WIFI for communication via the internet (MODBUS TCP/IP protocol) and the heat recovery devices. A dedicated application can be used for the configuration, visual display and controlling the operation.

TCP/IP module for communication via the internet (MODBUS TCP/IP protocol) and the heat recovery devices. A dedicated application can be used for the configuration, visual display and controlling the operation.

BACnet gateway for configuration, visual display and controlling the operation via BACnet IP.

GLOBAL RX[®] SERIES

CONTROL OPTIONS



TACtouch HMI



BACnet gateway



MODBUS RTU / ETHERNET



WIFI



KNX



SAT IO

AVAILABLE OPTIONS

- Internal electrical post heating coil (KWout)
- Internal water post heating coil (IBA)
- External post heating/cooling coil (EBA)
- Motorised dampers (CTxx)
- Flexible sleeve 20mm (MS20)
- Flexible sleeve 30mm (MS30)
- Slip clamps 20mm (SC20)
- Air inlet/Outlet with grill (AU)
- Roof for outdoor installation (OUT)

MAIN ADVANTAGES

- EN1886 classification: T3 / TB2 / F9 / L2 / D2
- An optional T2/TB2 is available
- High or premium efficiency rotary heat exchanger with Eurovent certification.
- Integrated post heating coil; electrical or water based. Fully integrated modulating capacity control.
- Innovative touchscreen interface with intuitive commissioning menu and integrated contextual aid.
- EC plug fans with composite blades for optimised efficiency and low noise levels. Aluminum fan blades available as an option.
- All doors are double-hinged. Thus facilitating access to all components in restricted spaces.
- RAL7016 galvanized steel sheet construction with 50mm mineral wool thermal insulation.
- Robust construction with aluminum profiles.
- Circular duct connections with rubber seal.
- Plug-and-play prewired unit. The complete unit with all of its accessories are pre-installed, pre-wired and pre-configured in factory.
- Bag filters for both supply and extract air. ePM1 \geq 70% for fresh air intake and ePM10 \geq 50% for extract air. A coarse G4 prefilter on fresh air intake available as an option.
- Open structure base frame enabling ease of transport on site.
- 48mm holes in 125mm high base-frame for lifting purposes.
- General high level of finishing; possibility to adjust allignment and pressure exerted by the hinges.
- Proven TAC controller with preconfiguration.
- Door compliant for airflows up to 2000 m³/h (550 l/s).
- Max airflow of 6900 m³/h or 1918 l/s for model "26"
- ERP2018 optimised design
- Selection software available for free download
- Standard VDI6022 compliant



FLEXIBLE FOR A WIDE VARIETY OF SOLUTIONS THE CORRECT OPERATING MODE IS AN IMPORTANT FACTOR

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

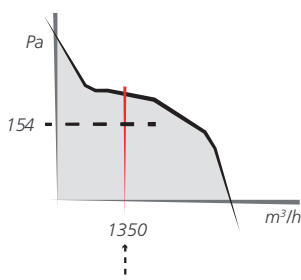
Alternatively, the airflow can be automatically adapted in line with the ventilation requirements and on a user-specific basis via the 0-10 V input, e.g. by means of a CO₂ sensor, or the control system can be used via the customer's building service management/instrumentation and control system.

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.

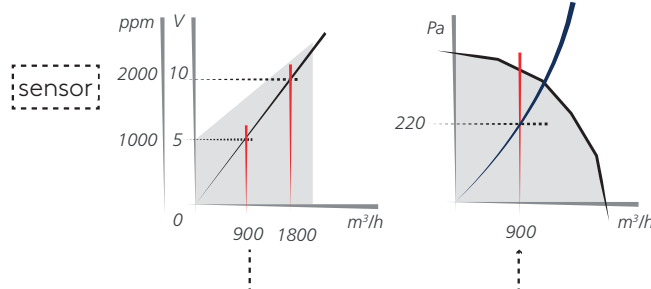
The airflow stays the same in all the other apartments, i.e. the ventilation system always runs within the ideal range. An external pressure sensor is required for constant pressure mode.

THE 3 MAIN OPERATING MODES:



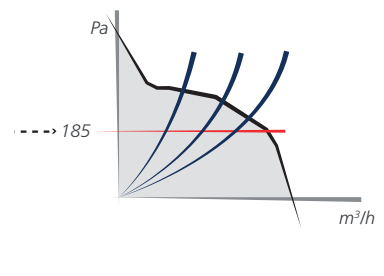
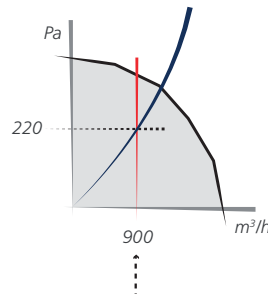
Constant Airflow mode

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



Demand control mode

A linear voltage/airflow ratio. The airflow can be regulated, e.g. by a CO₂ sensor, via a 0-10 Volt signal.



Constant pressure mode

The pressure is kept constant, irrespective of external changes in pressure. An external pressure sensor is required.

TACtouch REMOTE CONTROL

Remote control with touchscreen display and integrated timer with 4 actions per day and 'off day' functionality. For configuring and controlling the operation of 1 heat recovery unit. The commissioning menu, alarm history and maintenance menu are all of them focussed on efficient operation.



4 POSITION SWITCH

With the four position switch, a unit can be switched to one its three configurable operating speeds and the off-position.



SAT MODBUS

Interface for configuration, visual display and controlling the operation via MODBUS RTU



SAT ETHERNET

Interface for configuration, visual display and controlling the operation via MODBUS TCP/IP



BACnet gateway

For communicating with the heat recovery devices via a BACnet TCP/IP protocol. Up to four units can be integrated through the interface. The optional SAT Ethernet interface is required.



SAT Wifi

The Wifi interface, combined with the TAC controller allows for a wireless connection to the air handling unit. Typically this accessory would be used in order to control the unit with the smart phone application.



SAT KNX

Interface for configuration, visual display and controlling the operation via KNX



SAT IO

SAT IO is a satellite circuit designed to be fitted on the main controlboard. It permits to extend the number of inputs and outputs.



EC PLUG FAN WITH
COMPOSITE FAN 1
BLADES
(ALUMINUM BLADES
OPTIONAL)

FRESH AIR BAG FILTER 2
ePM1≥70% FILTER CLASS
(G4 PREFILTER
OPTIONAL)

INTEGRATED 3
CONTROLLER

EASY ACCESS HINGES 4

BASE FRAME FOR EASY 5
ON SITE TRANSPORT

HIGH EFFICIENCY 6
ROTARY HEAT
EXCHANGER

INTEGRATED POST 7
HEATING (WATER/
ELECTRICAL)

STEPLESS ROTOR DRIVE 8
WITH SOLDERED BELT

EXTRACT AIR BAG FILTER 9
FILTER CLASS



GLOBAL RX SERIES



EN1886 CERTIFICATION

EN1886 classification: T3 / TB2 / F9 / L2 / D2. The selection software uses the Eurovent certified selection software as supplied by our supplier of the heat rotary heat exchanger. All relevant Eurovent certification diplomas

are published on the technical datasheet as generated by our selection software. The selection software is available for free download.

CIRCULAR DUCT CONNECTIONS

The duct connections for sizes 05, 08 and 10 are circular and with rubber sealing. The duct connections are horizontally and vertically offset to enable ducts to be run in any direction without blocking one another. The units can be combined with motorised dampers.

RECTANGULAR DUCT CONNECTIONS

The standard duct connections (15mm) for sizes 12, 13, 14 and 16 are rectangular. For the units with rectangular duct connections, several optional accessories are available: Adapter rectangular/circular, 20mm slip clamps or even a 30mm connection frame (METU). The units can be combined with motorised dampers and Flexible sleeves.

FILTERS

All GLOBAL RX units are equipped with bag filters. The function of the filter is to keep both the air and the heat exchanger clean. The standard fresh air filter is of class ePM1≥70%, the standard extract air filter is of class ePM10≥50%. An ePM1≥70% filter on the extract air side is not available since this would have a negative influence on the en-

ergy consumption. The filters are mounted in locking guide rails in order to facilitate removal and inspection. The filters guide-rails are compliant to the requirements for filter bypass leakage to Class F9. The filter monitoring function is integrated in the standard configuration of the TAC controller.

INTERNAL PRE-FILTERS

Prefilters installed inside the air handling unit can be ordered as optional accessory. Prefilters are used when the outdoor air is heavily polluted and it is desirable to prevent the fine filters inside the GLOBAL unit from becoming clogged after a short period of use. The pre-filters are of Class G4 compact filters. The pre-filters are mounted in locking guide rails in

order to facilitate removal and inspection. The pre-filters guide-rails are compliant to the requirements for filter bypass leakage to Class F9. The prefilter monitoring function is integrated in the standard configuration of the TAC controller.

UNIT CASING

The casing of the GLOBAL RX 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 with intervening insulation consisting of mineral wool. The doors are hung on four hinges, two on every

side, with integrated handles. The doors can be opened in two directions.

EN1886 casing performance:

Air leakage, class:	L2
Thermal bridges:	TB2
Thermal transmission:	T3
Mechanical strength:	D2

BASE FRAME

The GLOBAL RX units are prefitted with a base frame. The base frame is self supporting. The height of the base frame is

125mm. The base frame has 48mm holes to facilitate lifting by a crane; the base frame has openings in order to facilitate horizontal transport by means of a pallet truck.

EC FANS WITH COMPOSITE FAN BLADE

As standard, the EC fans are equipped with composite fan blades. Optionally, aluminum fan blades are available. The advantage of the composite fan blades are lower weight and aerodynamical shaping of the blades. All of this is finally resulting in a better SFP value.

ROTARY HEAT EXCHANGER

The rotary heat exchanger is a heat exchanger with thermal efficiency up to 85%. The speed of the impeller is proportionally regulated to meet the heating and cooling needs. The rotary condensing heat

exchangers are available in 2 versions: in a premium version for high thermal efficiency and in a standard version for lower consumption and lower price. The purge sector, fitted on both versions, prevents any contamination of the air blown by the extracted air.

INTERNAL WATER HEATING COIL - IBA

The unit can be equipped with an internal water heating coil. The coil is physically located between the rotary heat exchanger and the supply air fan. The water coil has internal water connections and is delivered with Flexible connections in order to con-

nect it to the hydraulical system on the outside of the unit. The water coil is equipped with an anti-frost protection temperature sensor, which is mounted on the surface of the coil.

INTERNAL ELECTRICAL HEATING COIL - KWOUT

The electrical post heating coil is physically located between the rotary heat exchanger and the supply air fan. The electrical coil has two overheating protections, one with manual reset and one with automatical reset. When the electrical post heating coil

is configured correctly, the coil is stopped immediately when the unit is stopped, however, the fans are kept running for 90 seconds in order to cool down the electrical coil.

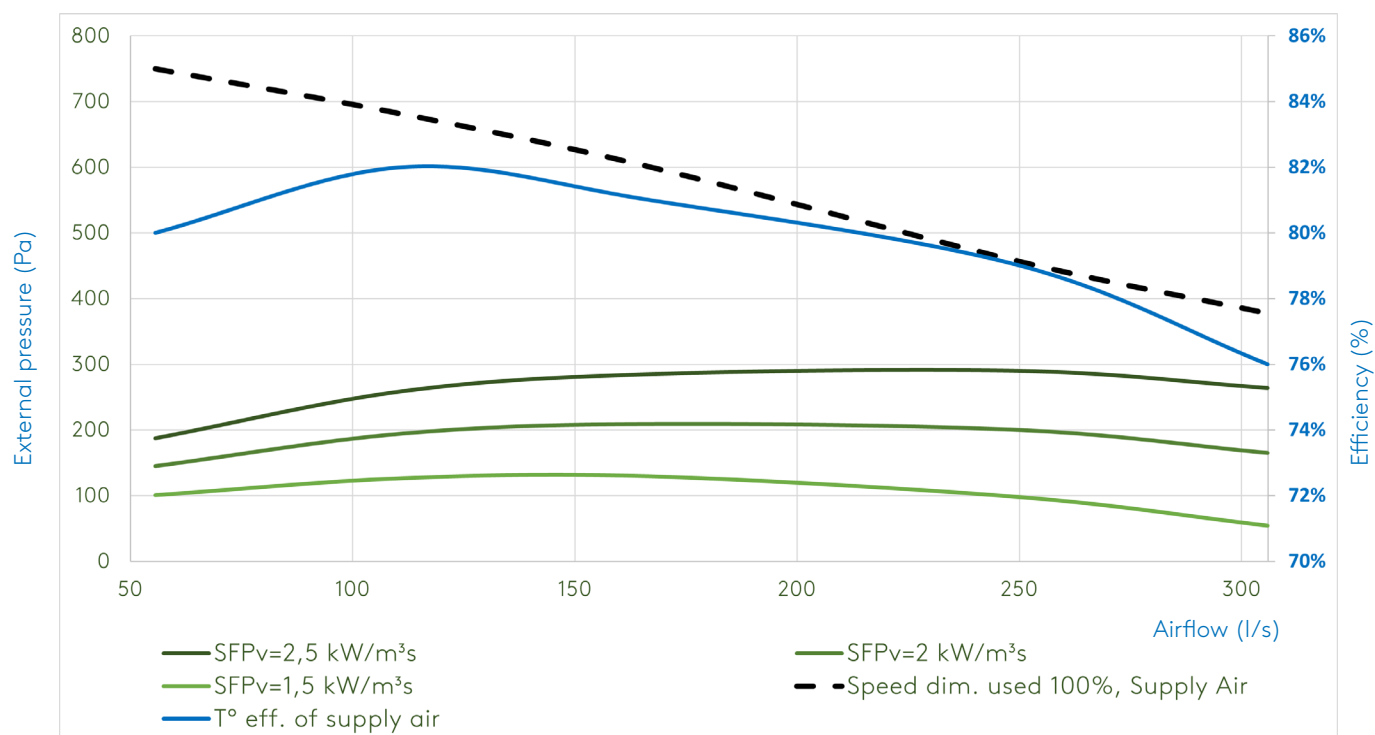
TAC CONTROLLER

The control equipment is completely integrated into the GLOBAL air handling unit. The controller controls and regulates the temperatures, airflows and other functions. The controller is pre-configured in factory with default settings.

TOUCHSCREEN HMI

The hand-held user interface is a 4.3" touchscreen and is very user friendly. The HMI is rendering on-site commissioning intuitive and simple by means of the commissioning menu. The HMI is equipped with a 2 meter long connection cable and magnets. By means of the magnets, the HMI can be easily fixed on to any metallic surface.

GLOBAL RX 05



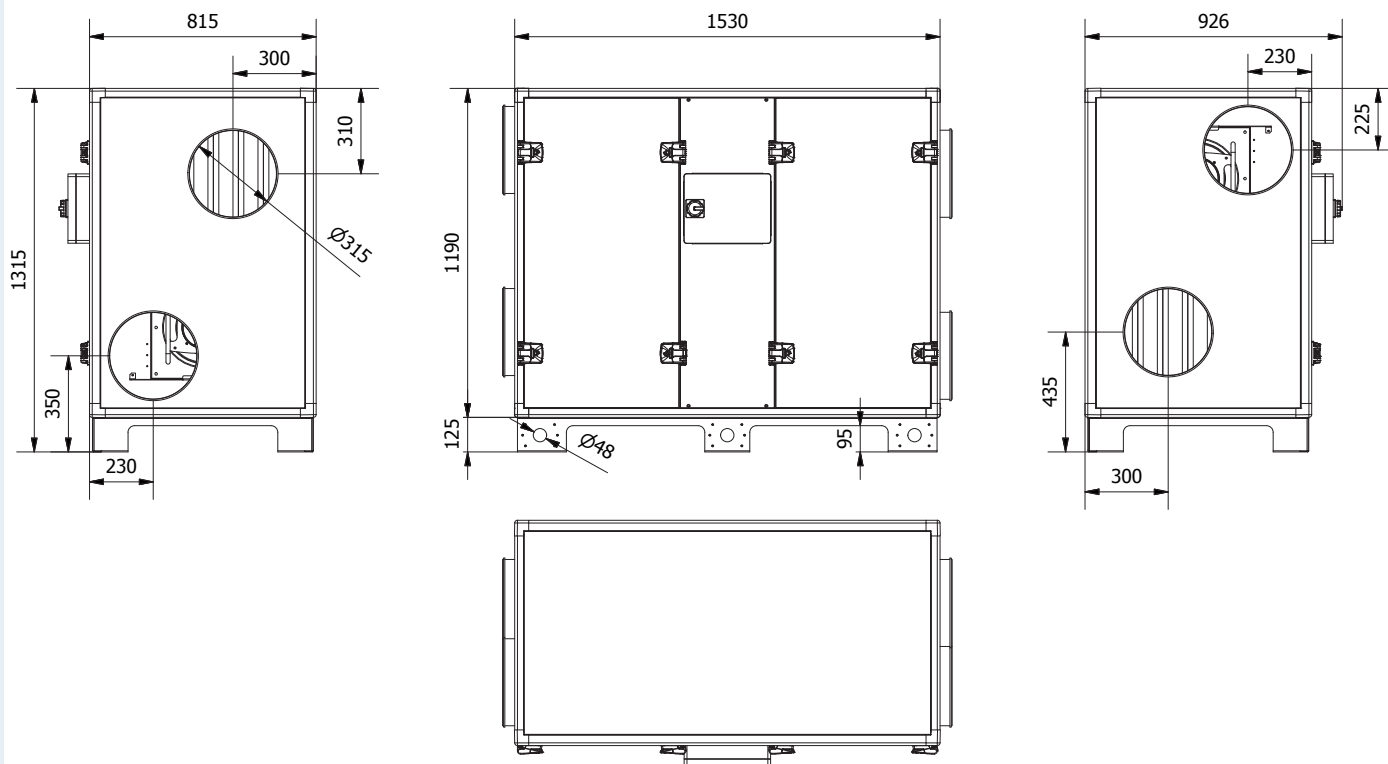
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	200 - 1100 m³/h
	56 - 306 l/s
• DIMENSIONS (L x W x H)	1530 x 815 x 1315
• WEIGHT	330 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	5.3 A
• RECOMMENDED FUSES	D6A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	Ø 315
• SLIP CLAMP DUCT CONNECTIONS (20MM)	N.A.
• OPERATING RANGE	-20 ... +50 °C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

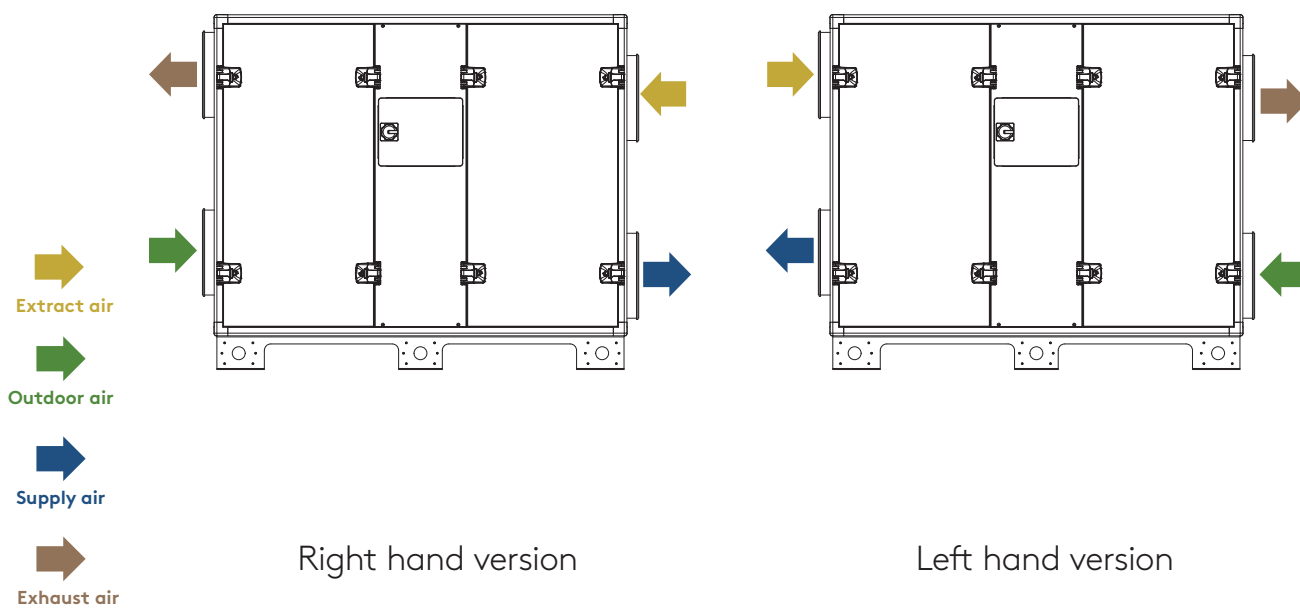
AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions 1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT) 2. All data for composite fan and premium heat exchanger 3. SFPv & Absorbed power calculated with clean filters 4. Speed dim. means with semi-dirty filters
m³/h	l/s		kW/m³/s	%	%	kW	%	
200	56	200	2,6	55	55	0,1	80%	
400	111	200	2,0	63	63	0,2	82%	
600	167	200	1,9	70	70	0,3	81%	
900	250	200	2,0	81	82	0,5	79%	
1100	306	200	2,2	88	90	0,7	76%	

DIMENSIONS (mm)

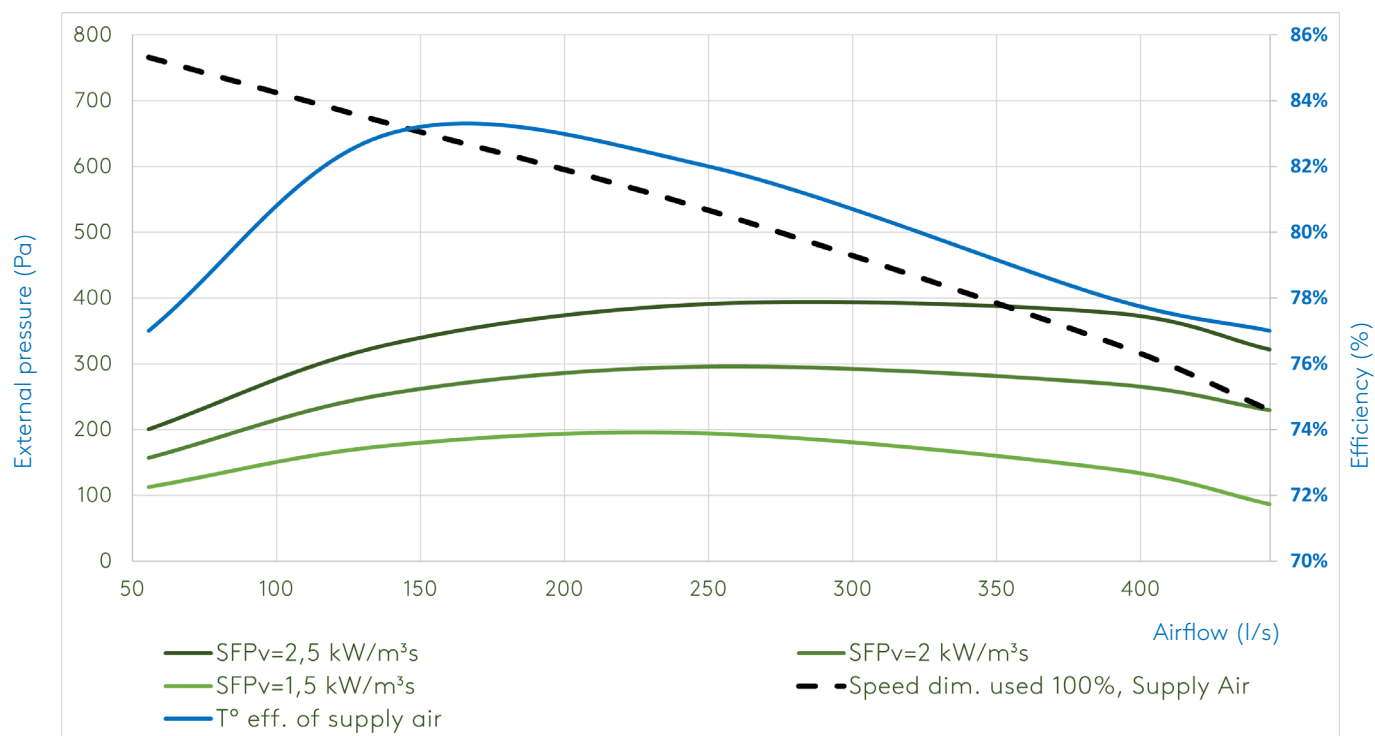
GLOBAL RX 05



GLOBAL RX 05



GLOBAL RX 08



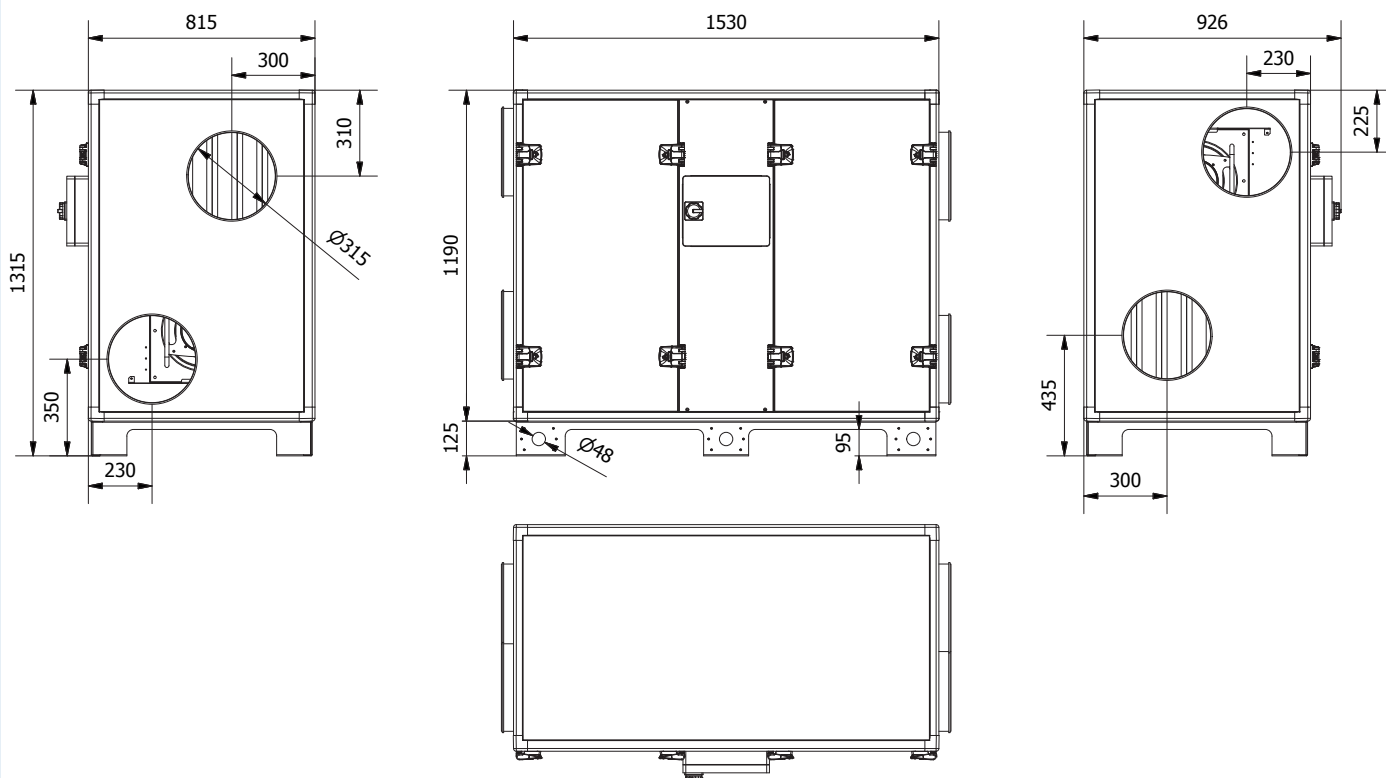
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	200 - 1600 m³/h
	56 - 445 l/s
• DIMENSIONS (L x W x H)	1530 x 815 x 1315
• WEIGHT	330 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	5.3 A
• RECOMMENDED FUSES	D6A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%F7 / ePM10 50%
• STANDARD DUCT CONNECTIONS	Ø 315
• SLIP CLAMP DUCT CONNECTIONS (20MM)	N.A.
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

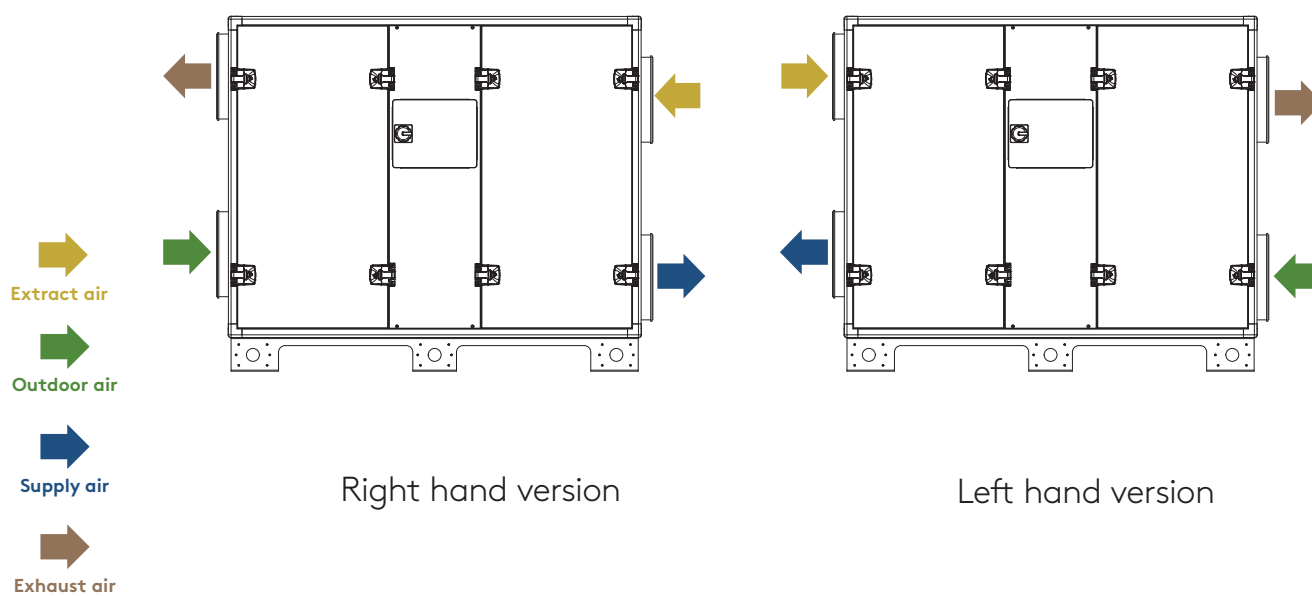
AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s							
200	56	200	2,4	54	53	0,1	77%	1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT) 2. All data for composite fan and premium heat exchanger 3. SFPv & Absorbed power calculated with clean filters 4. Speed dim. means with semi-dirty filters
500	139	200	1,6	63	63	0,2	83%	
900	250	200	1,5	76	76	0,4	82%	
1400	389	200	1,7	92	91	0,7	78%	
1600	445	200	1,9	99	99	0,8	77%	

DIMENSIONS (mm)

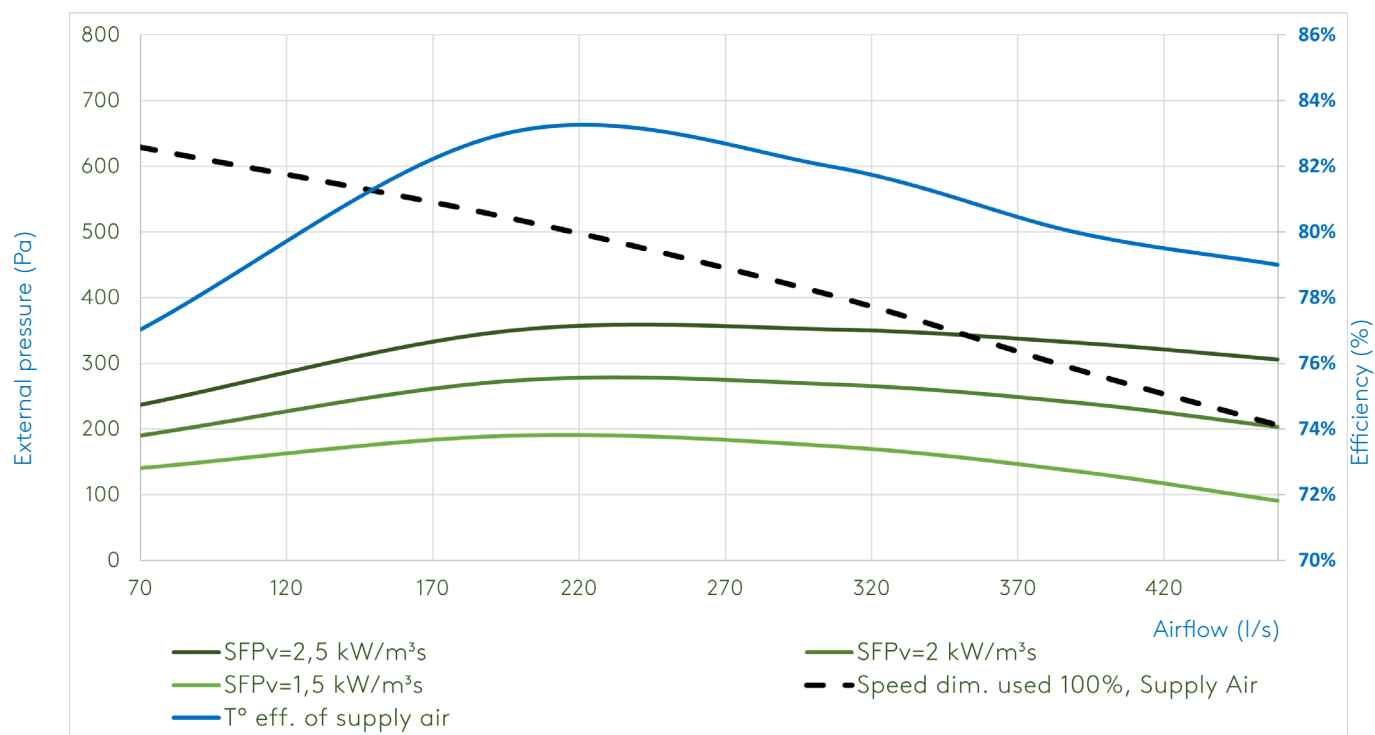
GLOBAL RX 08



GLOBAL RX 08



GLOBAL RX 10



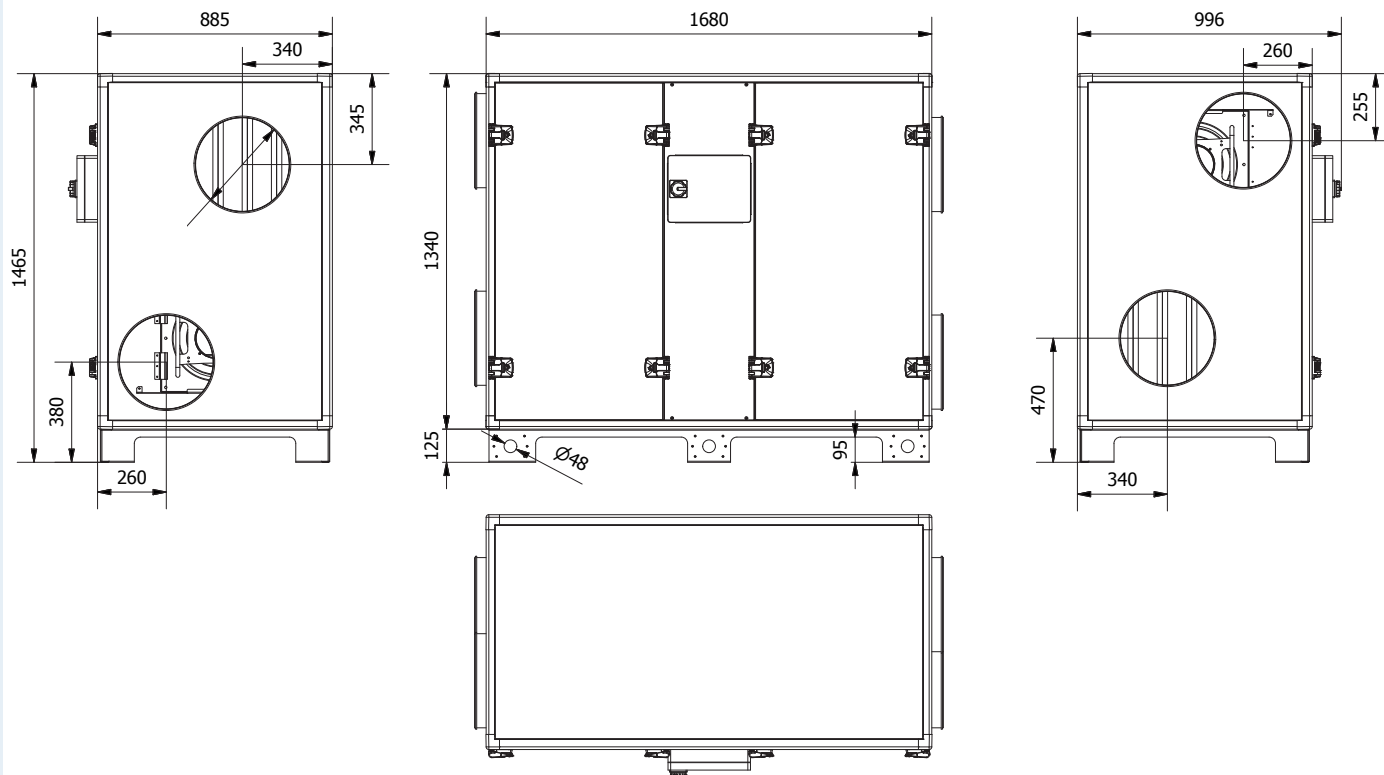
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	250 - 1650 m³/h 70 - 459 l/s
• DIMENSIONS (L x W x H)	1680 x 885 x 1465
• WEIGHT	380 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	4.9 A
• RECOMMENDED FUSES	D6A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS	Ø400
• SLIP CLAMP DUCT CONNECTIONS (20MM)	N.A.
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

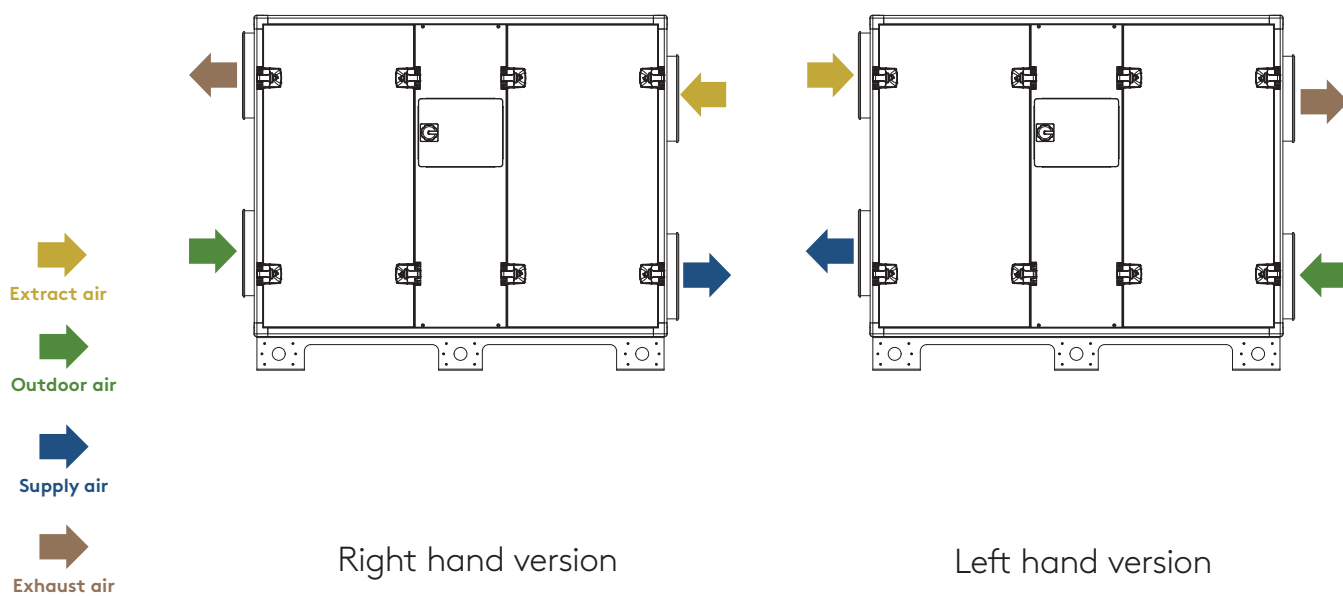
AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s		kW/m³/s	%	%	kW	%	
250	70	200	2,1	60	59	0,1	77%	1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT) 2. All data for composite fan and premium heat exchanger 3. SFPv & Absorbed power calculated with clean filters 4. Speed dim. means with semi-dirty filters
700	195	200	1,6	72	70	0,3	83%	
1100	306	200	1,6	84	81	0,5	82%	
1400	389	200	1,8	93	90	0,7	80%	
1650	459	200	2,0	100	97	0,9	79%	

DIMENSIONS (mm)

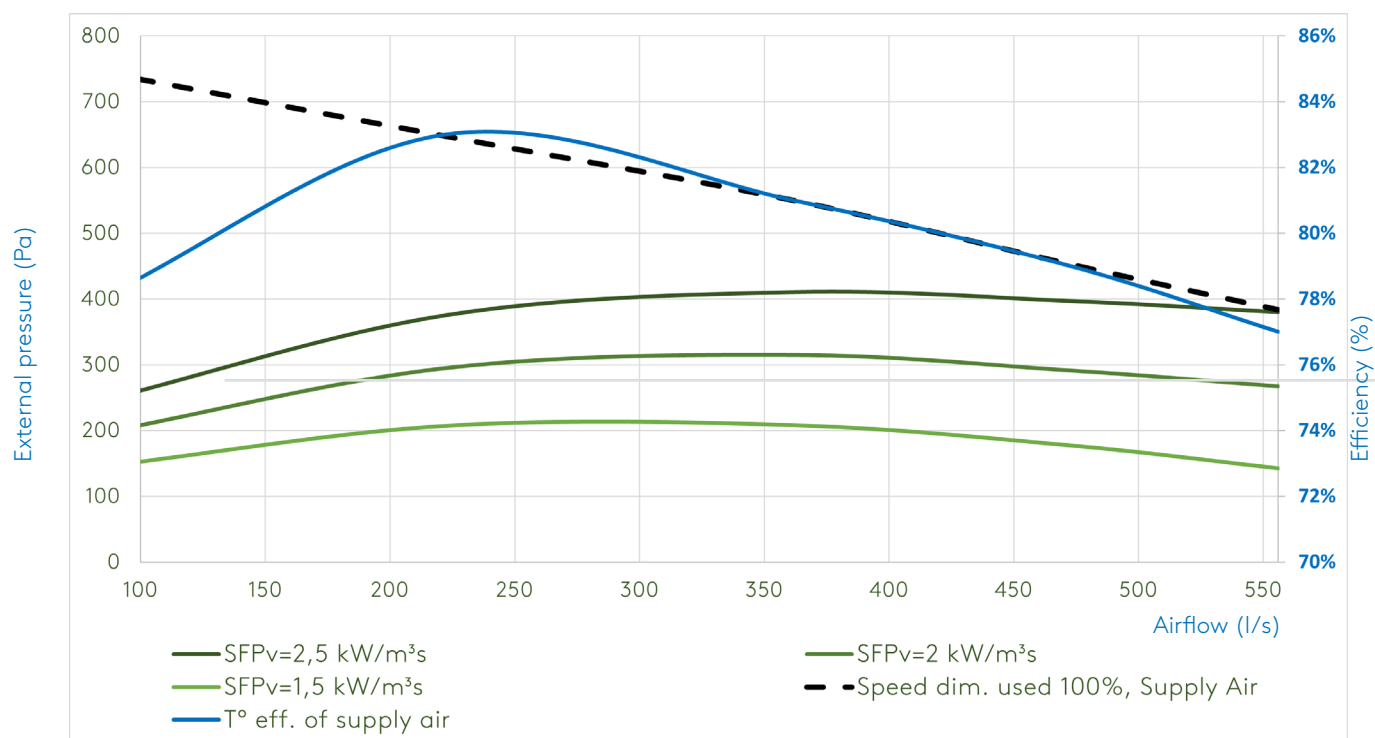
GLOBAL RX 10



GLOBAL RX 10



GLOBAL RX 12



GENERAL TECHNICAL SPECIFICATIONS

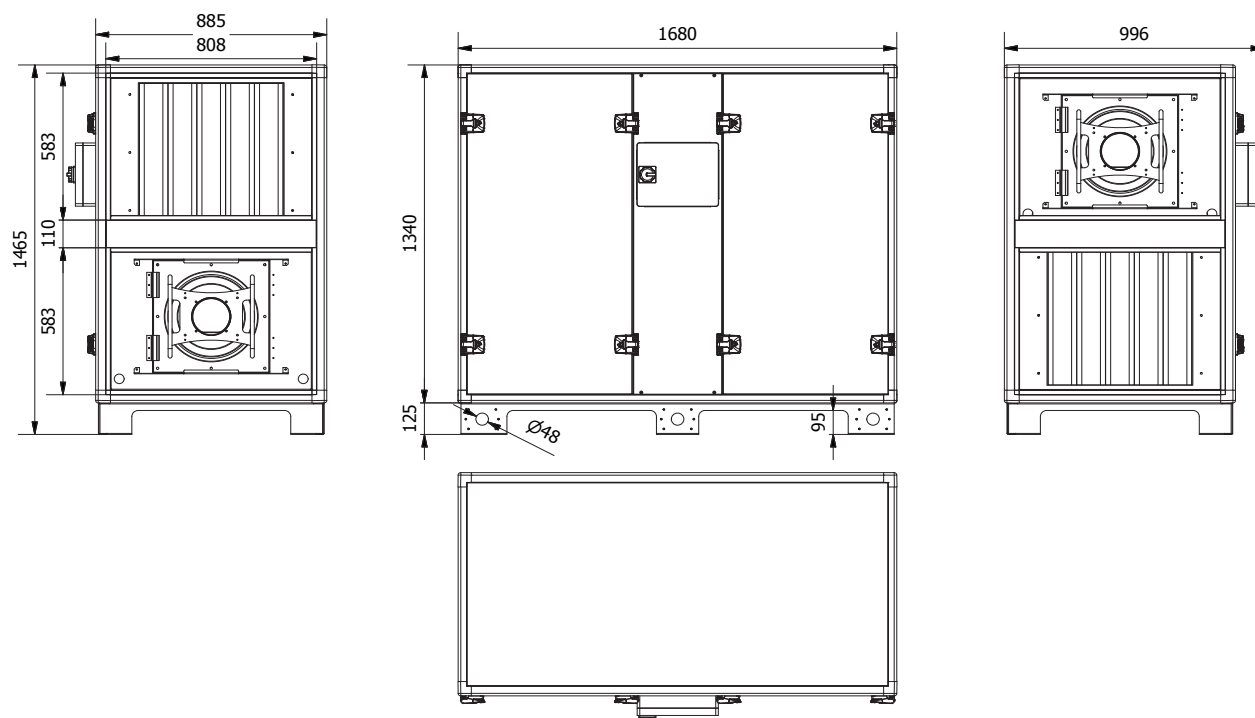
• AIR VOLUME	300 - 2250 m³/h 83 - 626 l/s
• DIMENSIONS (L x W x H)	1680 x 885 x 1465
• WEIGHT	360 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	7.7 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	808 x 583
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	800 x 600
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s		kW/m³/s	%	%	kW	%	
300	83	200	2,0	56	54	0,2	78%	
800	222	200	1,4	66	62	0,3	83%	
1300	361	200	1,5	75	74	0,5	81%	
2000	556	200	1,7	89	87	1,0	77%	
2250	626	200	1,9	94	92	1,2	75%	

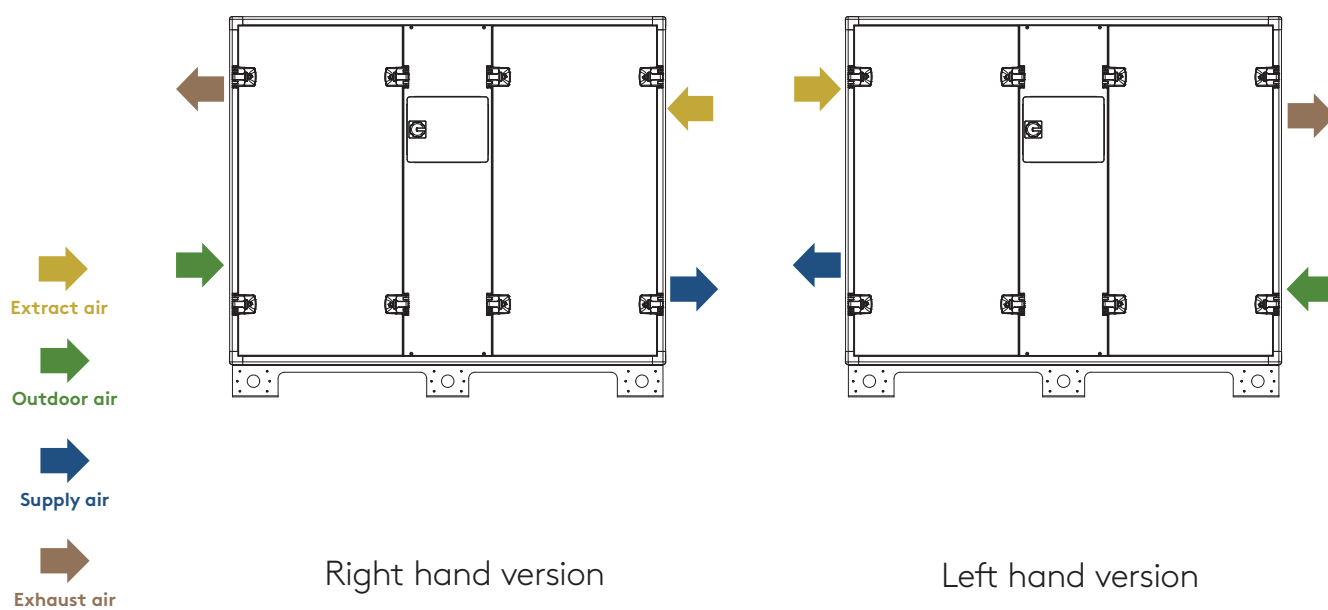
1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
2. All data for composite fan and premium heat exchanger
3. SFPv & Absorbed power calculated with clean filters
4. Speed dim. is calculated with semi-dirty filters

DIMENSIONS (mm)

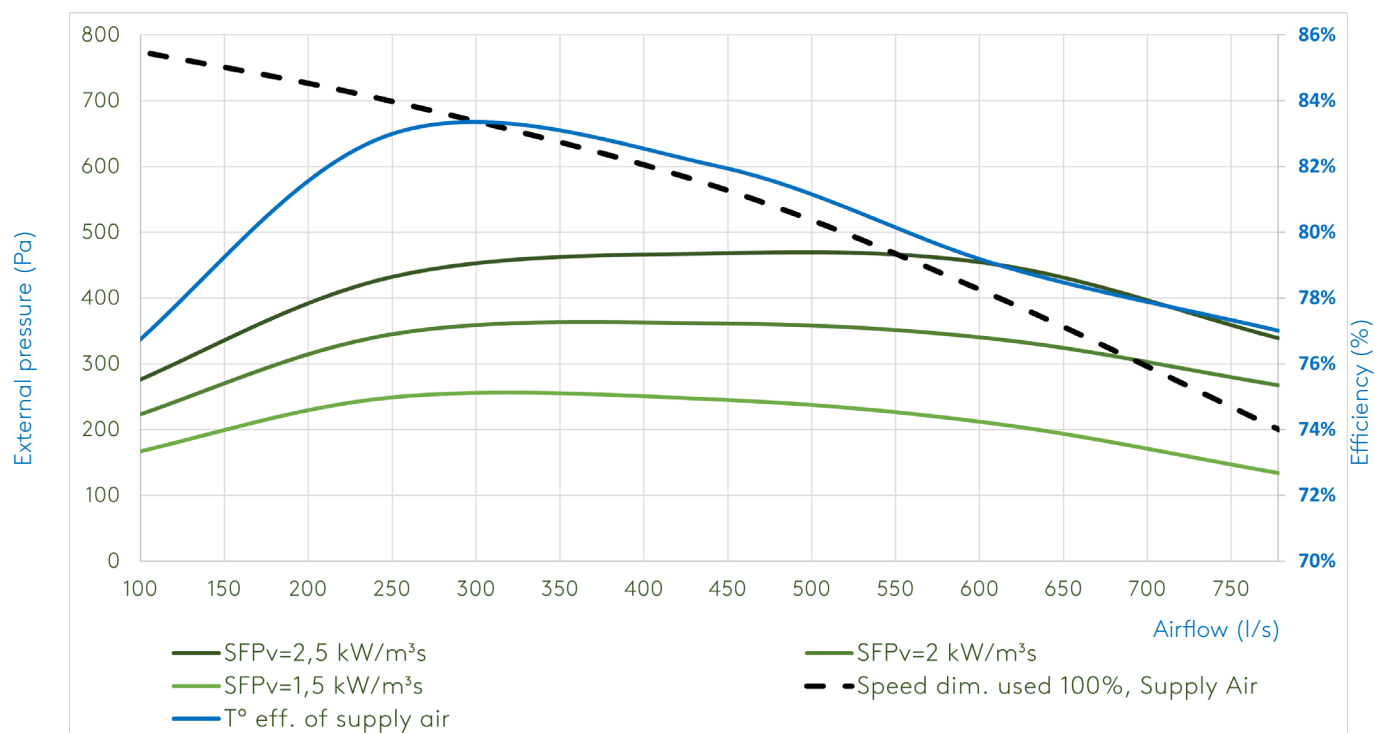
GLOBAL RX 12



GLOBAL RX 12



GLOBAL RX 13



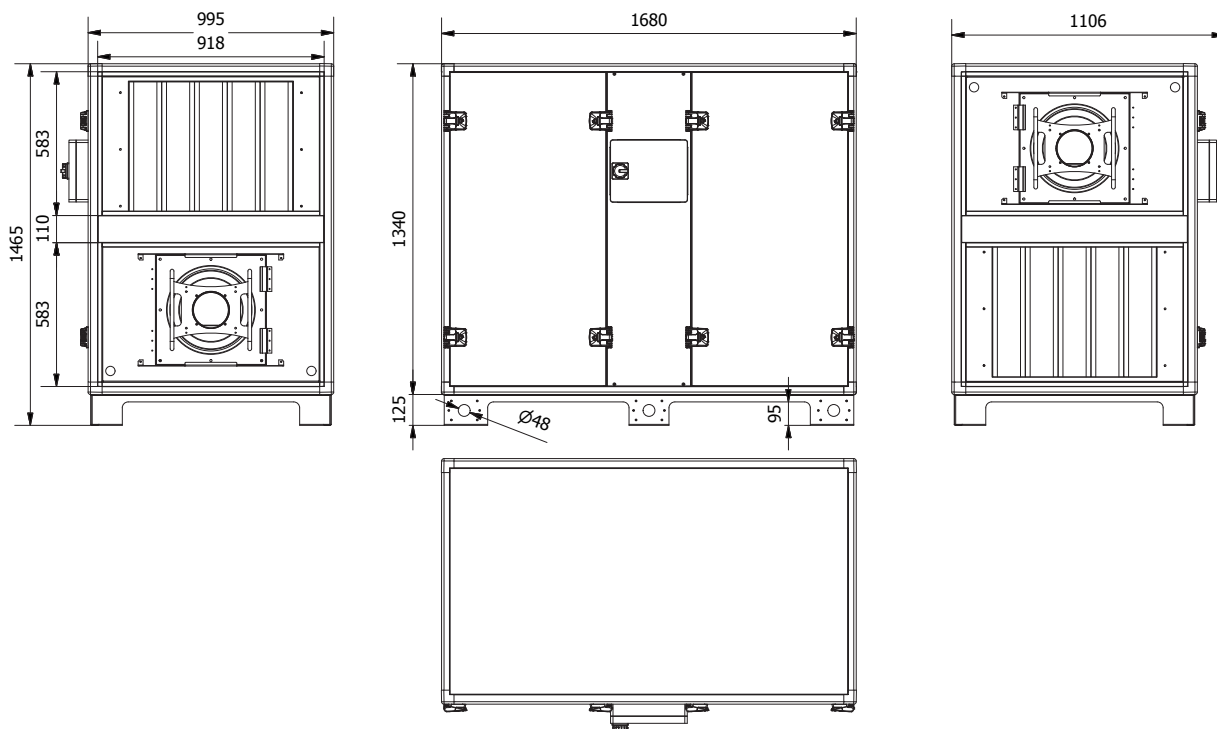
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	300 - 2800 m³/h 83 - 778 l/s
• DIMENSIONS (L x W x H)	1680 x 995 x 1465
• WEIGHT	390 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	7.7 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	918 x 583
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	900 x 600
• OPERATING RANGE	-20 ... +50 °C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

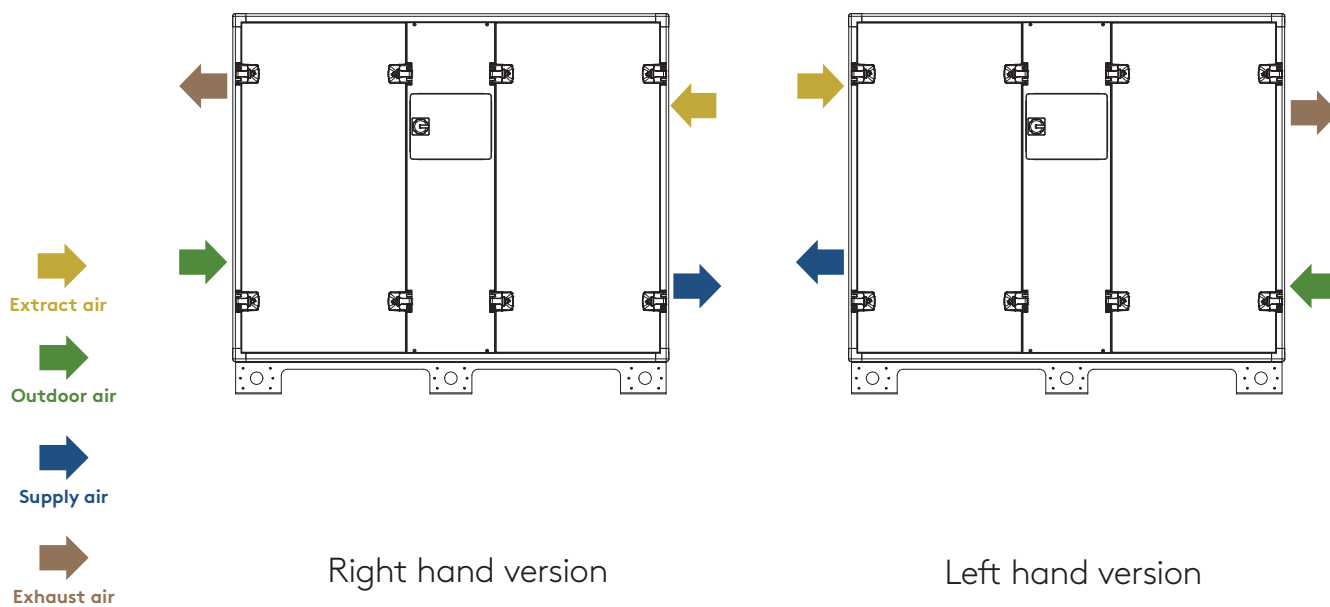
AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s		kW/m³/s	%	%	kW	%	1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT) 2. All data for composite fan and premium heat exchanger 3. SFPv & Absorbed power calcu- lated with clean filters 4. Speed dim. means with semi- dirty filters
300	83	200	1,8	52	51	0,2	76%	
900	250	200	1,2	63	61	0,3	83%	
1600	445	200	1,3	77	73	0,6	82%	
2200	612	200	1,5	88	85	0,9	79%	
2800	778	200	1,7	100	98	1,3	77%	

DIMENSIONS (mm)

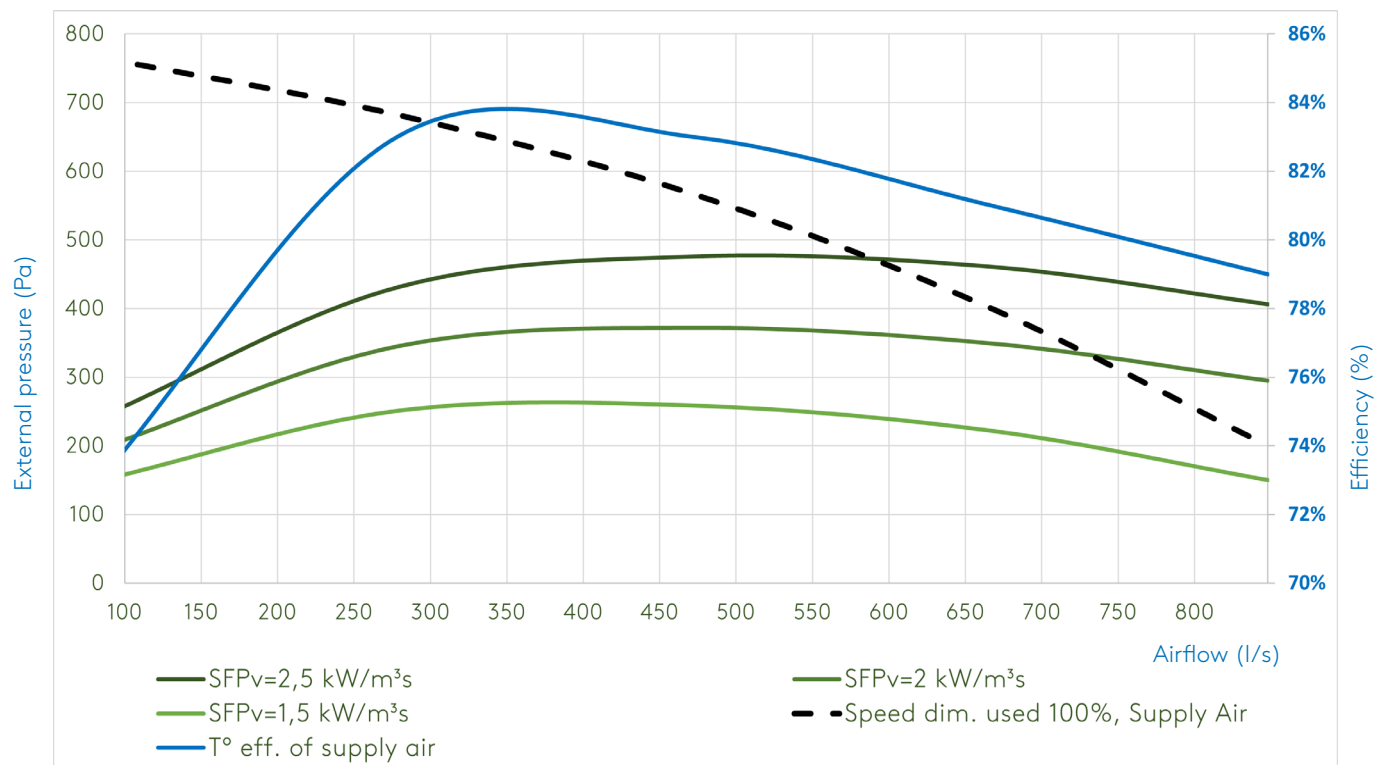
GLOBAL RX 13



GLOBAL RX 13



GLOBAL RX 14



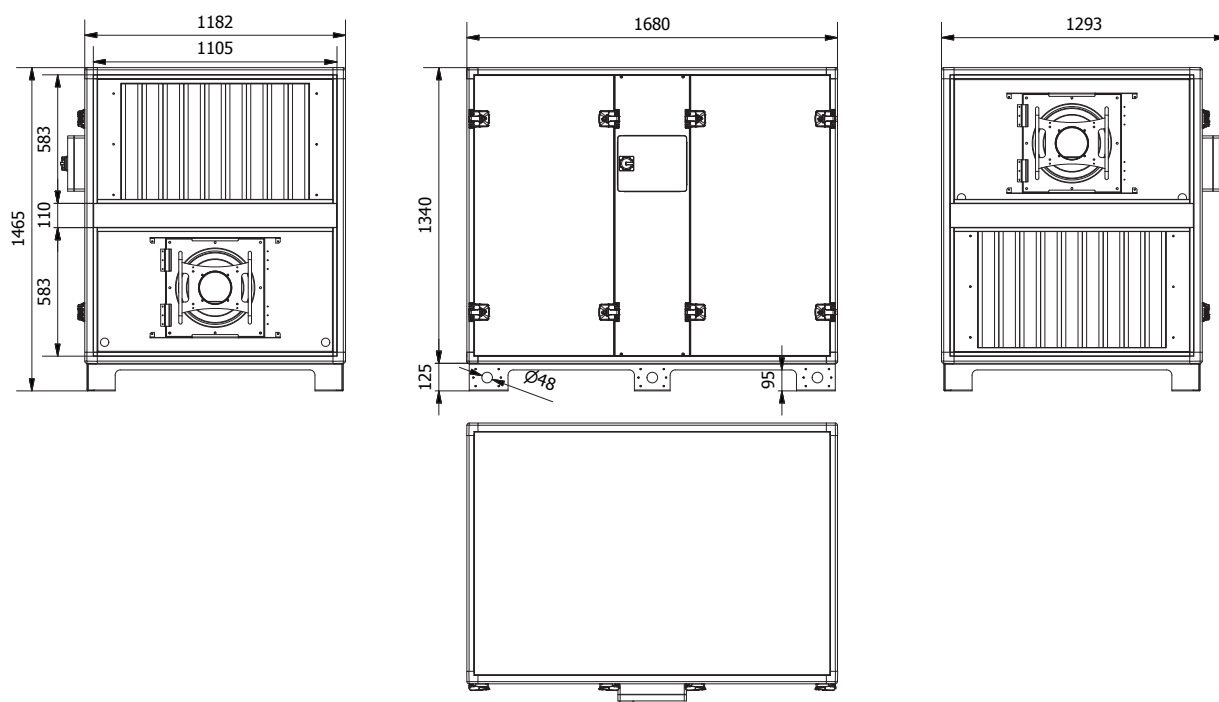
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	300 - 3050 m³/h
	83 - 848 l/s
• DIMENSIONS (L x W x H)	1680 x 1182 x 1465
• WEIGHT	420 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	7.7 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1105 x 583
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	1100 x 600
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

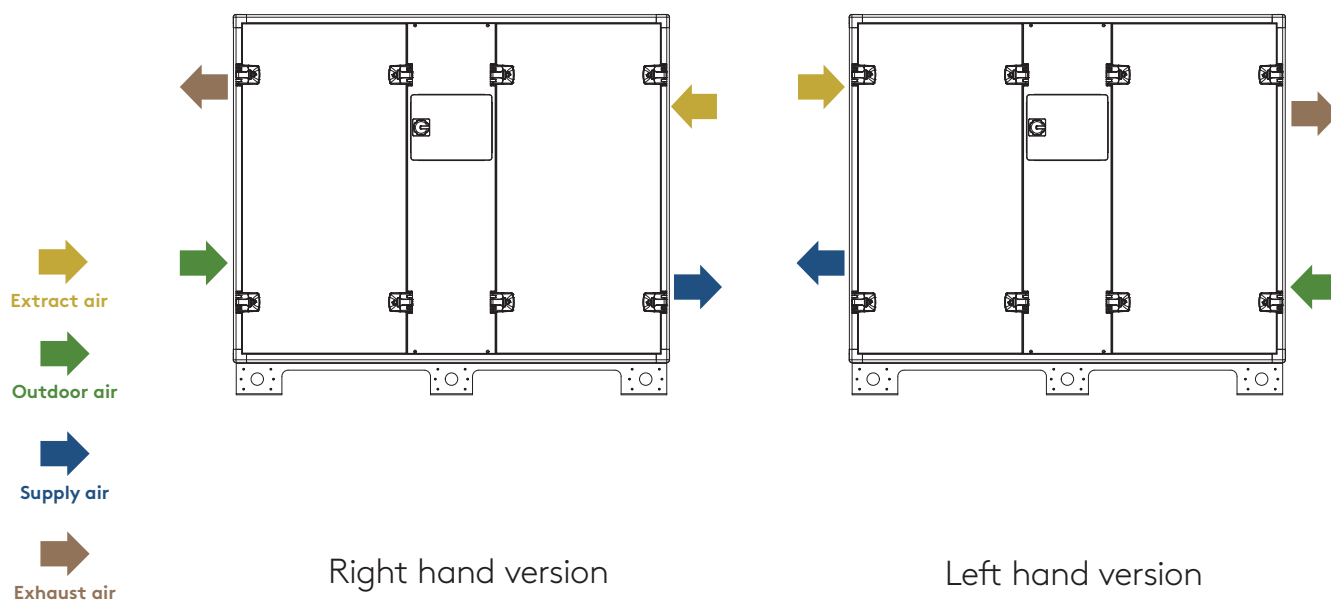
AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s		kW/m³/s	%	%	kW	%	
300	83	200	1,9	52	52	0,2	73%	1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
1000	278	200	1,2	63	61	0,3	83%	2. All data for composite fan and premium heat exchanger
1700	473	200	1,2	75	72	0,6	83%	3. SFPv & Absorbed power calculated with clean filters
2400	667	200	1,4	88	85	0,9	81%	4. Speed dim. means with semi-dirty filters
3050	848	200	1,7	100	97	1,4	79%	

DIMENSIONS (mm)

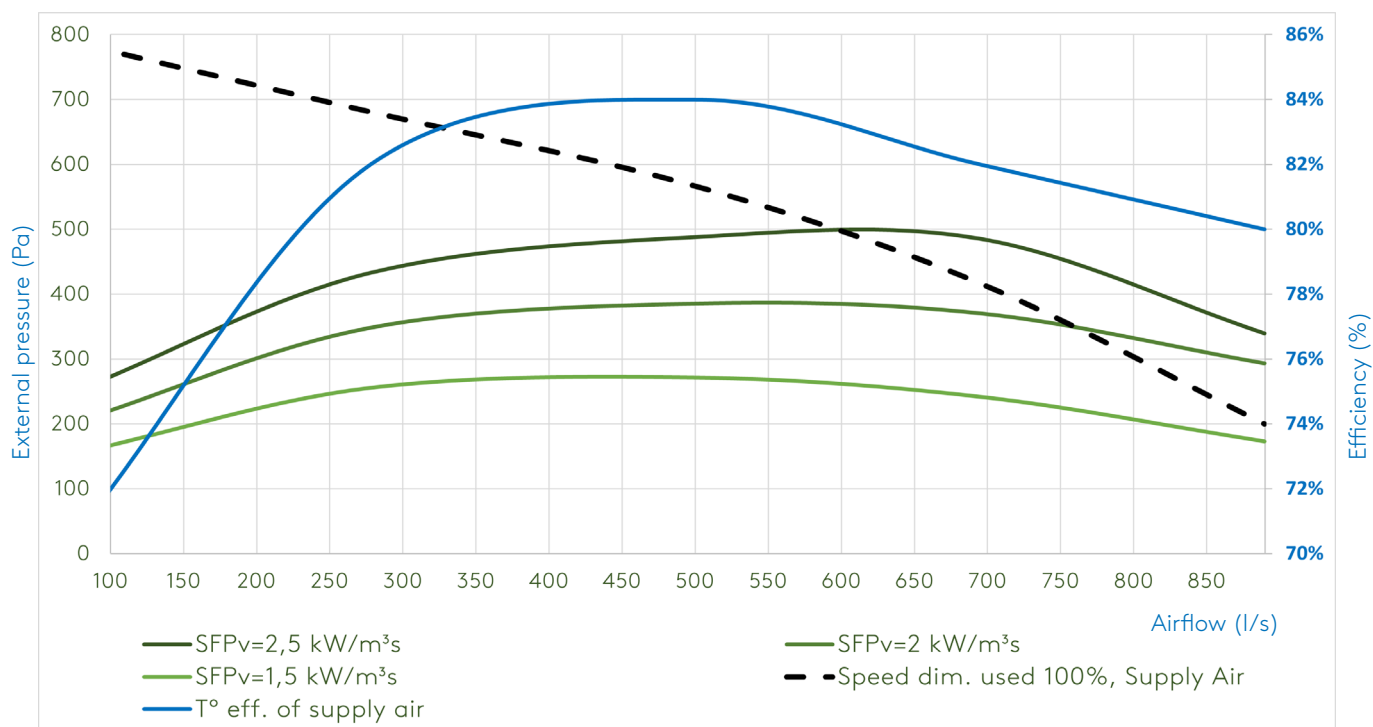
GLOBAL RX 14



GLOBAL RX 14



GLOBAL RX 16



GENERAL TECHNICAL SPECIFICATIONS

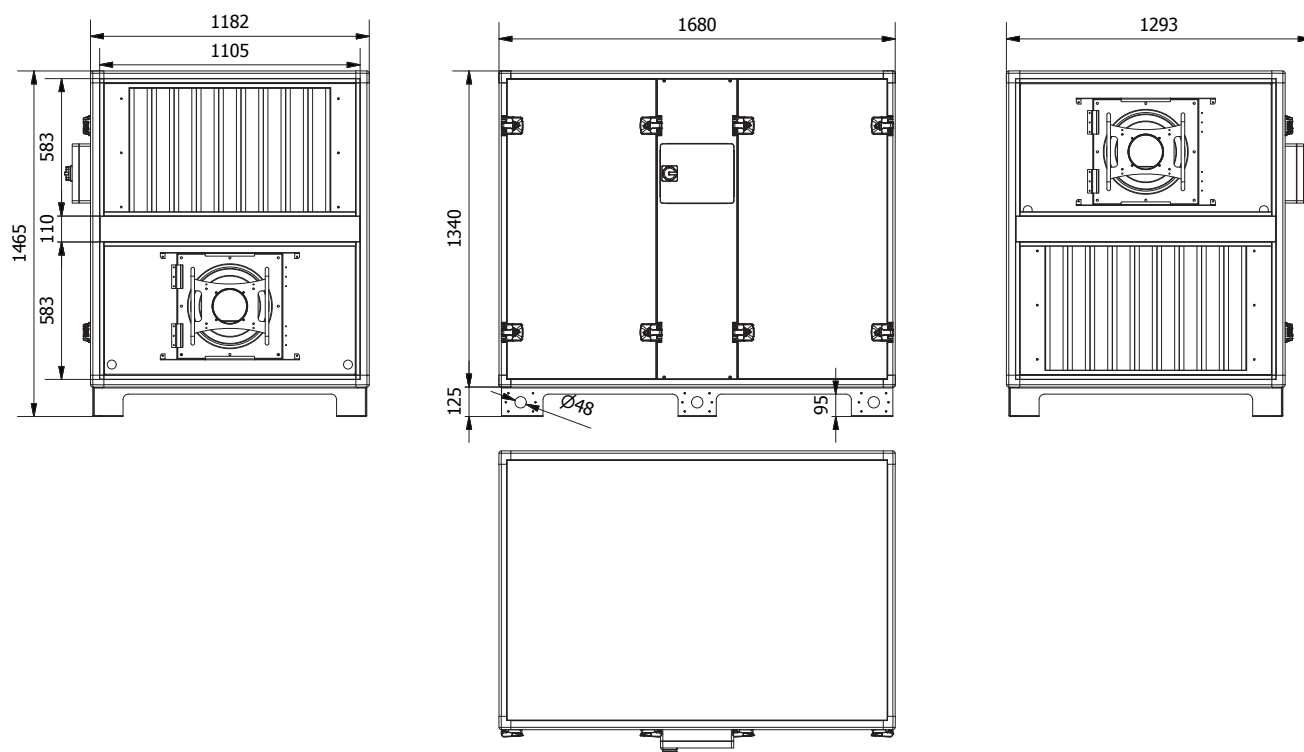
• AIR VOLUME	300 - 3200 m³/h 83 - 890 l/s
• DIMENSIONS (L x W x H)	1680 x 1182 x 1465
• WEIGHT	430 kg
• POWER CONNECTION	1 x 230 V
• MAX CURRENT	7.7 A max.
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1105 x 583
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	1100 x 600
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

AIRFLOW		Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air
m³/h	l/s						
300	83	200	1,8	52	52	0,2	71%
1000	278	200	1,2	62	60	0,3	82%
1800	500	200	1,2	75	71	0,6	84%
2500	695	200	1,3	87	84	0,9	82%
3200	890	200	1,6	100	97	1,4	80%

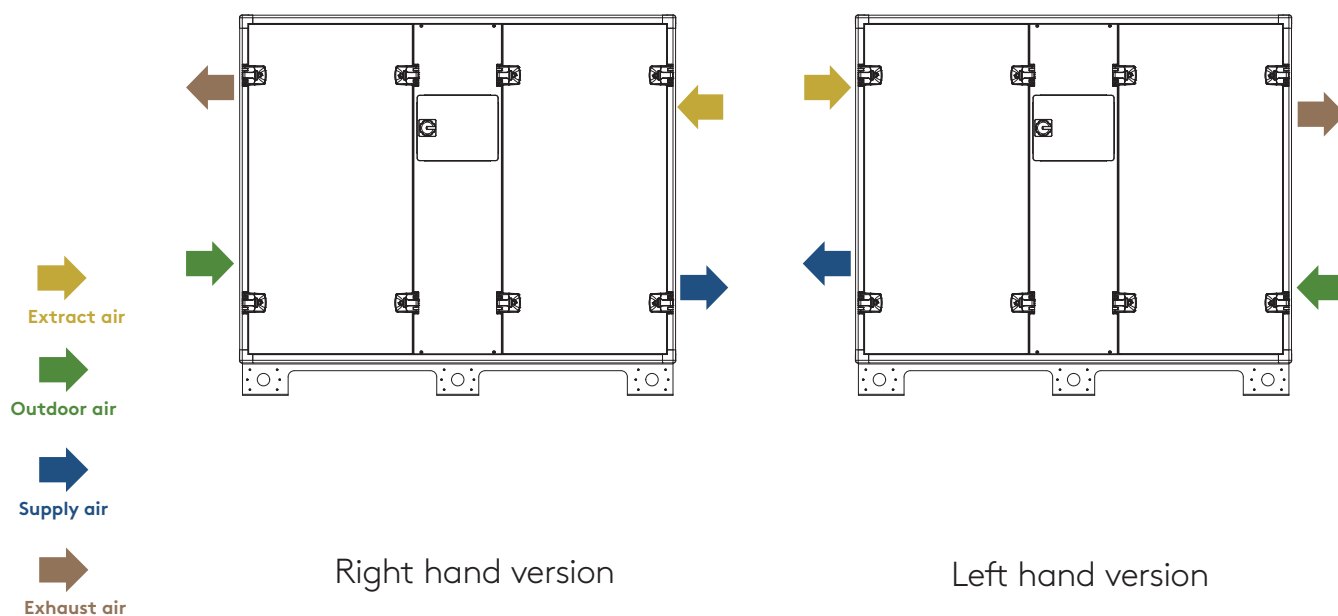
1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
2. All data for composite fan and premium heat exchanger
3. SFPv & Absorbed power calculated with clean filters
4. Speed dim. means with semi-dirty filters

DIMENSIONS (mm)

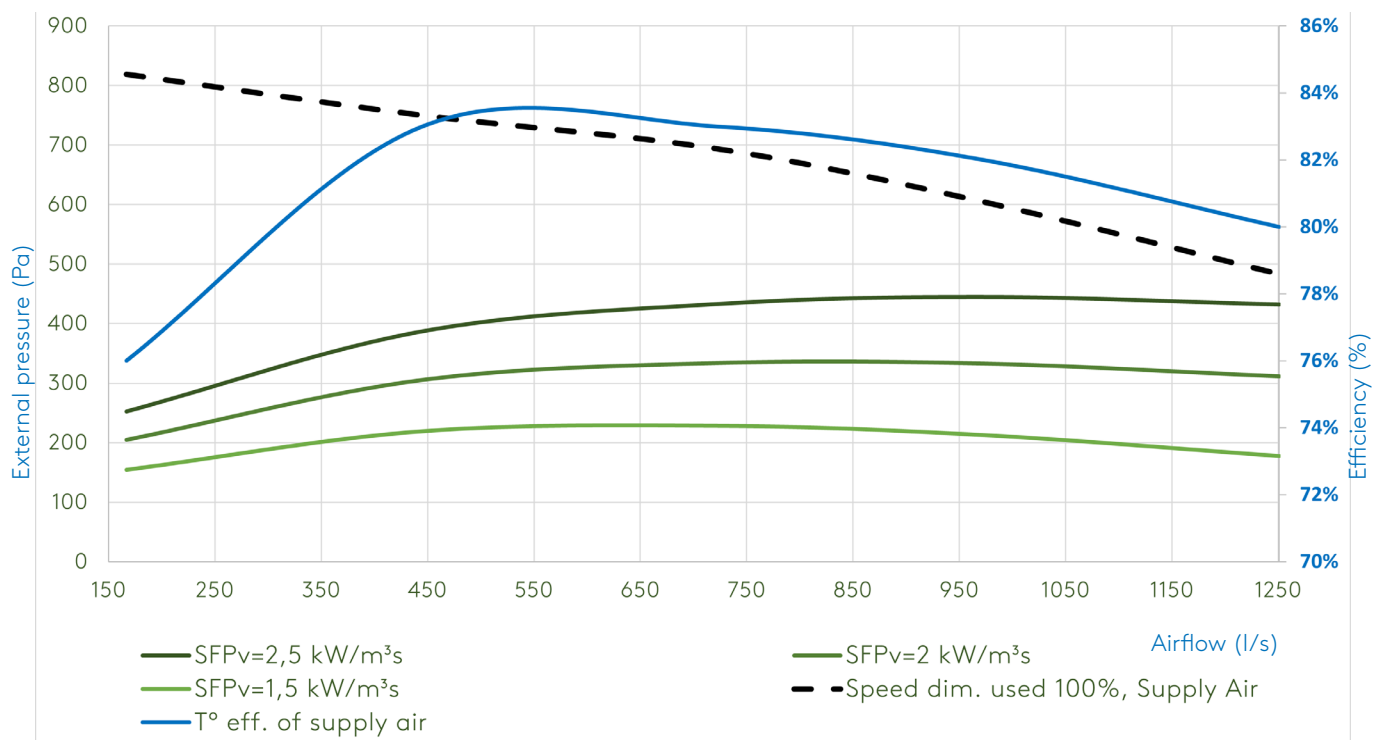
GLOBAL RX 16



GLOBAL RX 16



GLOBAL RX 18



GENERAL TECHNICAL SPECIFICATIONS

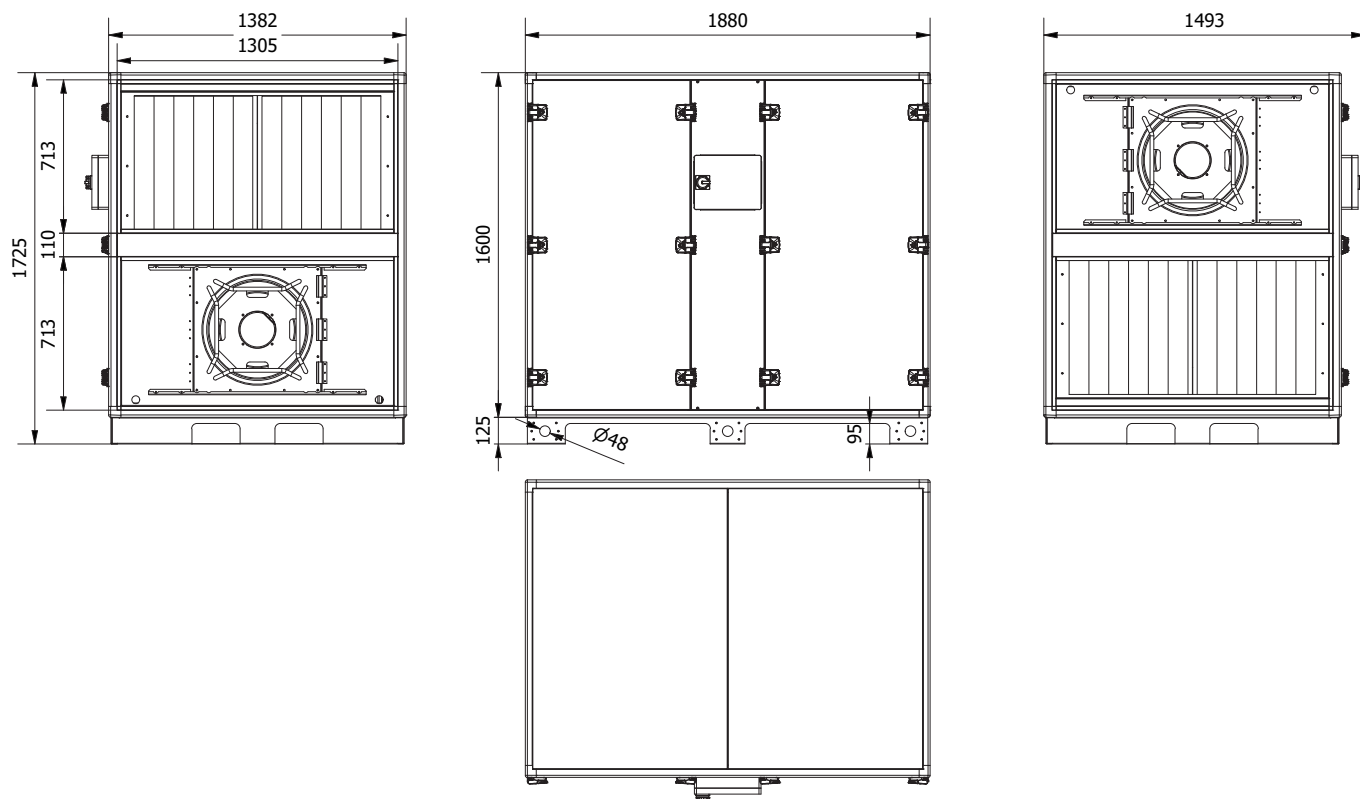
• AIR VOLUME	600 - 4500 m³/h 167 - 1251 l/s
• DIMENSIONS (L x W x H)	1880 x 1382 x 1725
• WEIGHT	610 kg
• POWER CONNECTION	3 x 400 V + N
• MAX CURRENT	6.5 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1305 x 713
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	1300 x 700
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

AIRFLOW	Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air
m³/h	l/s	kW/m³/s	%	%	kW	%
600	167	200	1,9	53	0,3	76%
1600	445	200	1,4	61	0,6	83%
2600	723	200	1,4	69	1,0	83%
3500	973	200	1,4	75	1,4	82%
4500	1251	200	1,6	83	2,0	80%

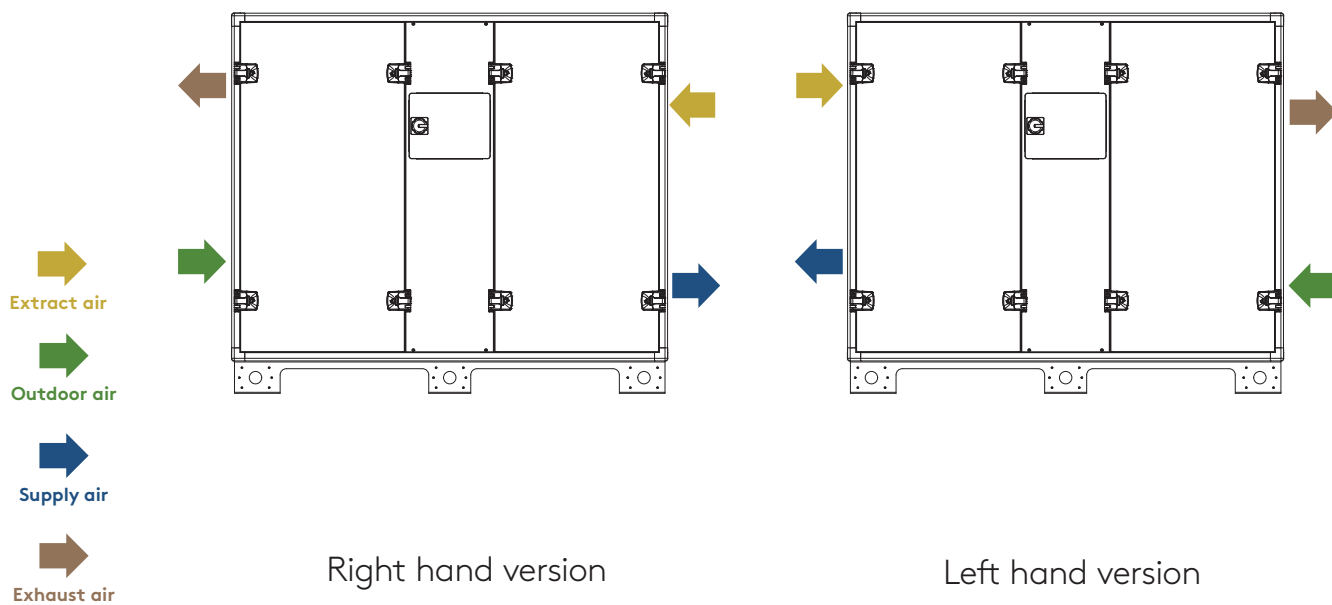
1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
2. All data for composite fan and premium heat exchanger
3. SFPv & Absorbed power calculated with clean filters
4. Speed dim. means with semi-dirty filters

DIMENSIONS (mm)

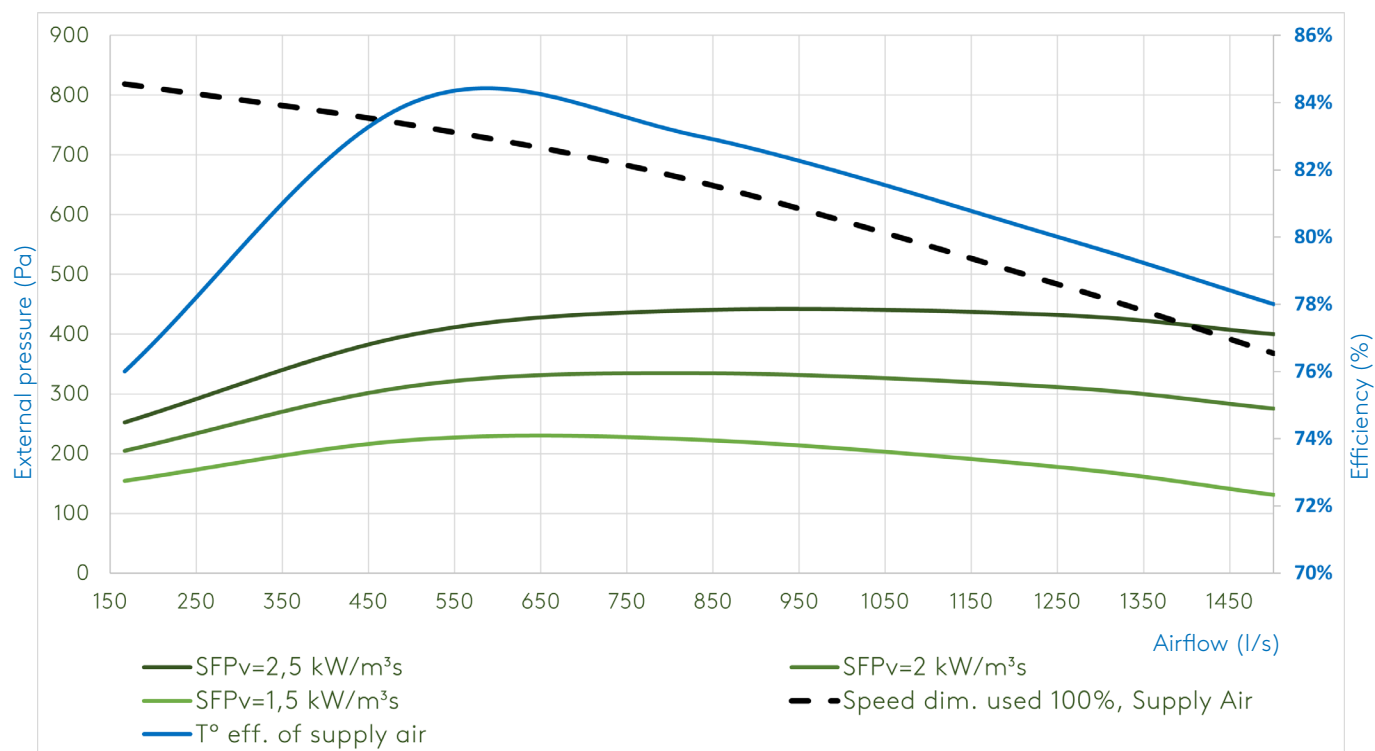
GLOBAL RX 18



GLOBAL RX 18



GLOBAL RX 20



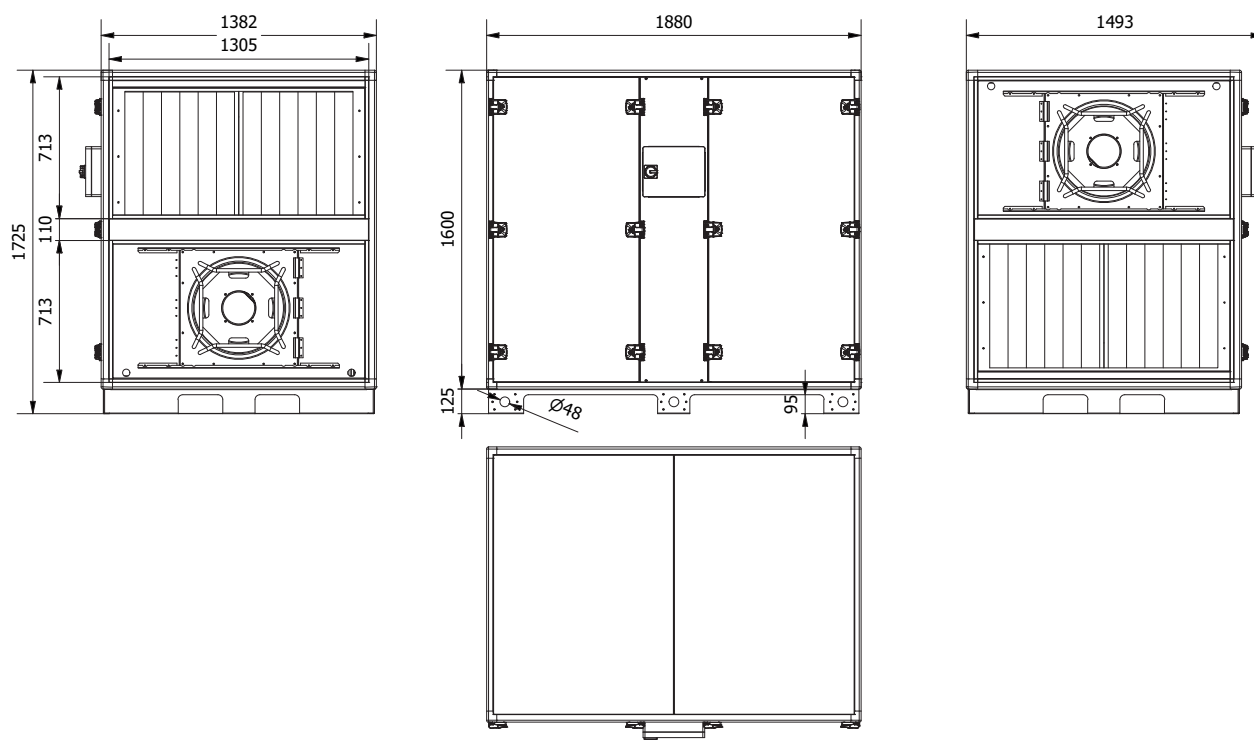
GENERAL TECHNICAL SPECIFICATIONS

• AIR VOLUME	600 - 5400 m³/h 167 - 1501 l/s
• DIMENSIONS (L x W x H)	1880 x 1382 x 1725
• WEIGHT	610 kg
• POWER CONNECTION	3 x 400 V + N
• MAX CURRENT	6.5 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1305 x 713
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W x H)	1300 x 700
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

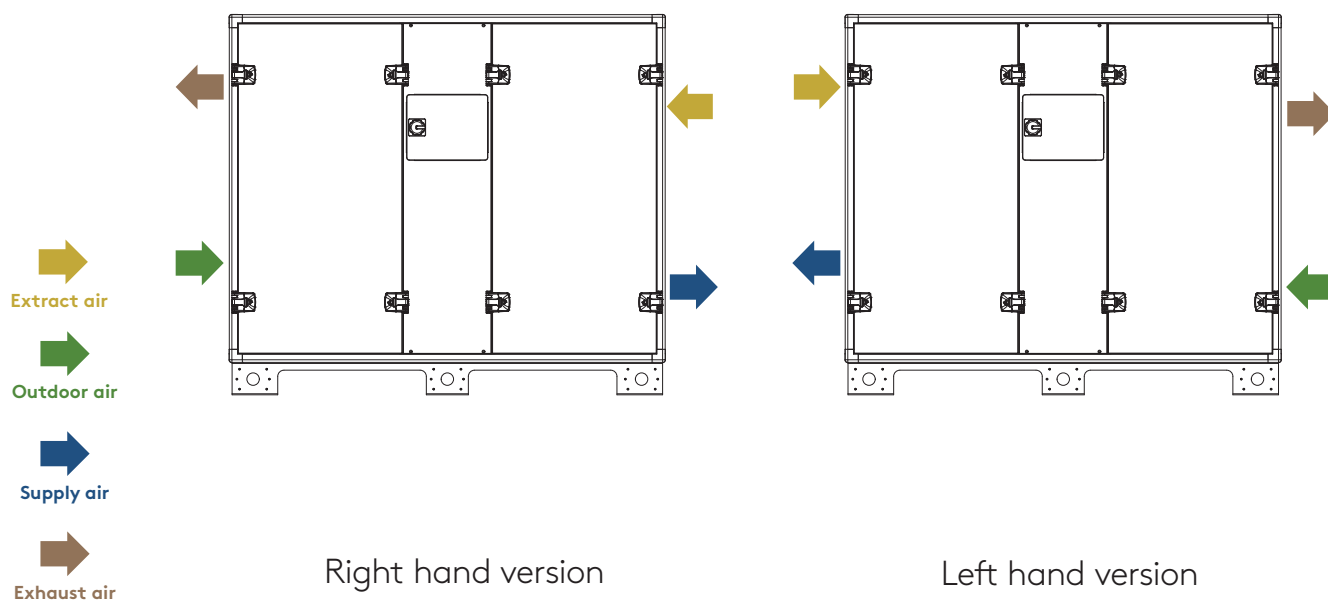
AIRFLOW	Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s	kW/m³/s	%	%	kW	%	
600	167	200	1,9	53	0,3	76%	1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
1800	500	200	1,4	62	0,7	84%	2. All data for composite fan and premium heat exchanger
3000	834	200	1,4	72	1,2	83%	3. SFPv & Absorbed power calculated with clean filters
4500	1251	200	1,6	83	2,0	80%	4. Speed dim. means with semi-dirty filters
5400	1501	200	1,7	91	2,6	78%	

DIMENSIONS (mm)

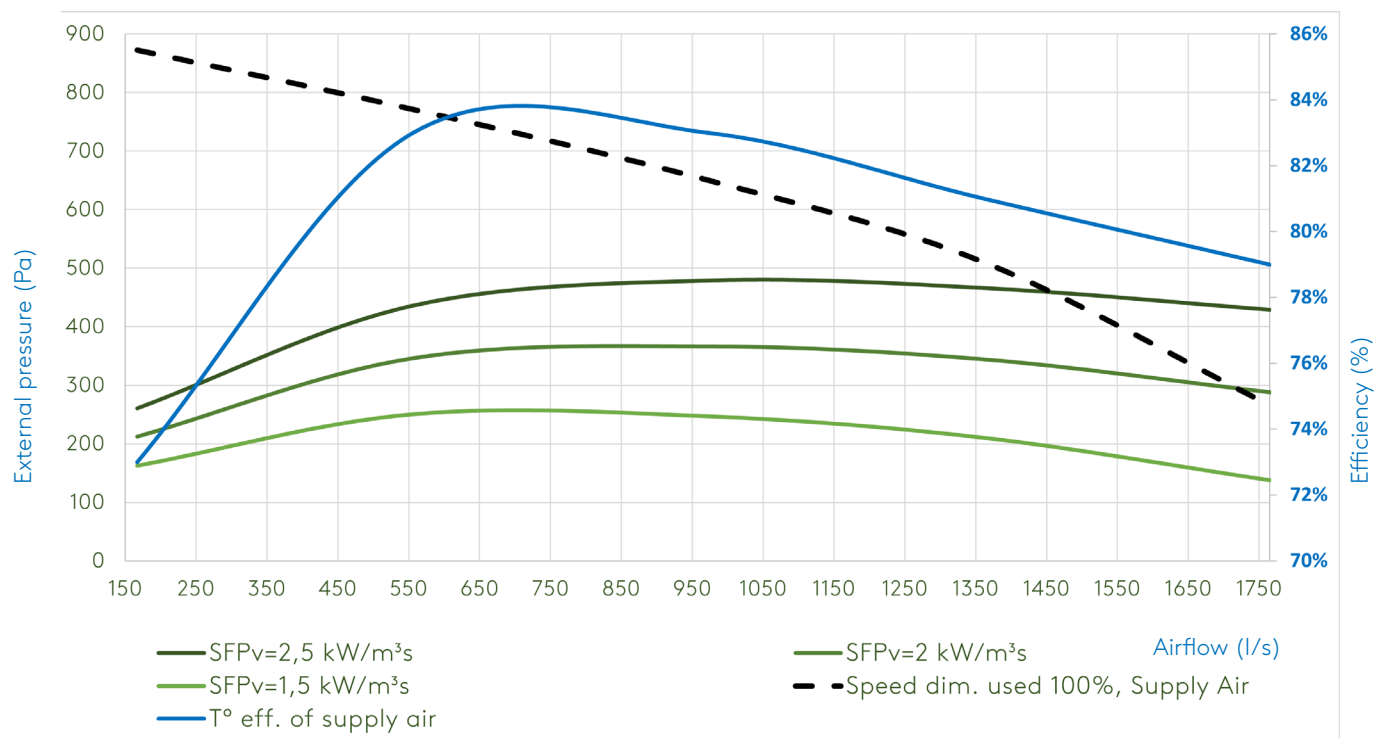
GLOBAL RX 20



GLOBAL RX 20



GLOBAL RX 24



GENERAL TECHNICAL SPECIFICATIONS

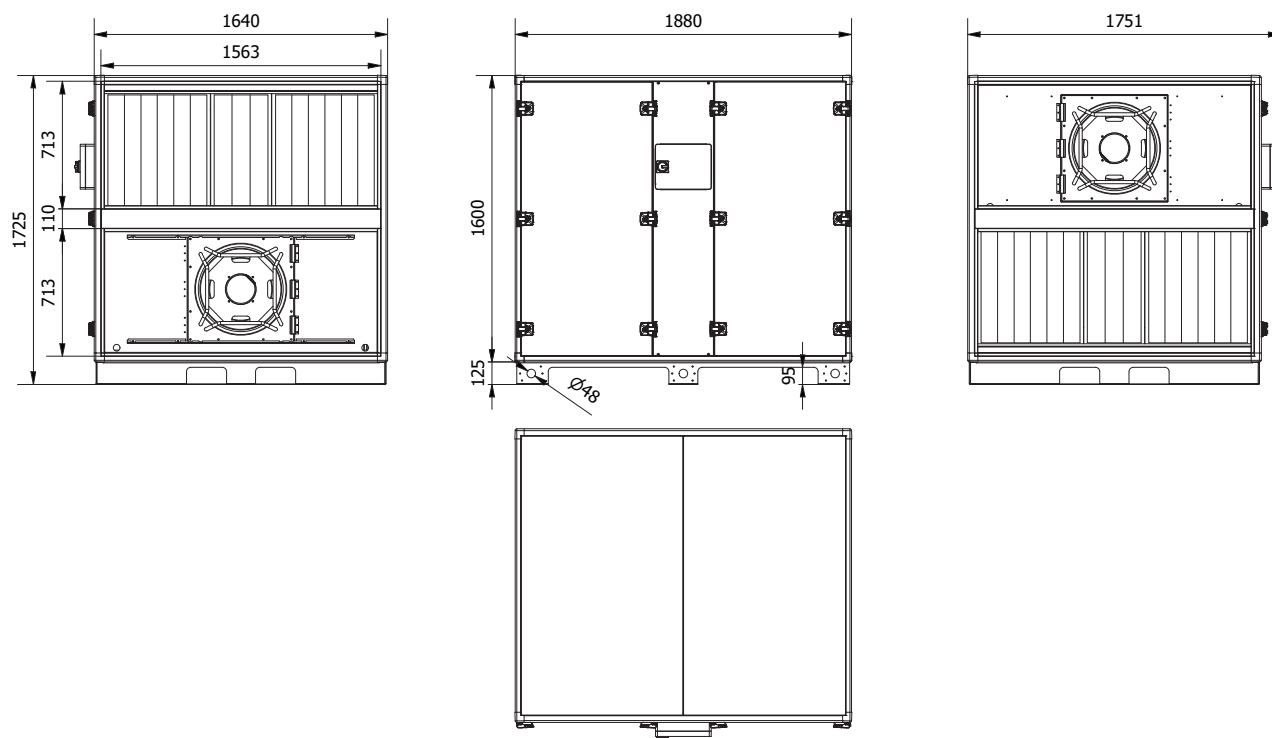
• AIR VOLUME	600 - 6350 m³/h
	167 - 1765 l/s
• DIMENSIONS (L x W x H)	1880 x 1640 x 1725
• WEIGHT	670 kg
• POWER CONNECTION	3 x 400 V + N
• MAX CURRENT	6.5 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70%/ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1563 x 713
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	1600 x 700
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

AIRFLOW	Pa ext	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air	Conditions
m³/h	l/s	kW/m³/s	%	%	kW	%	
600	167	200	1,8	50	49	0,3	73%
2000	556	200	1,2	60	58	0,7	83%
3500	973	200	1,3	72	69	1,3	83%
4900	1362	200	1,5	83	80	2,0	81%
6350	1765	200	1,7	96	94	3,0	79%

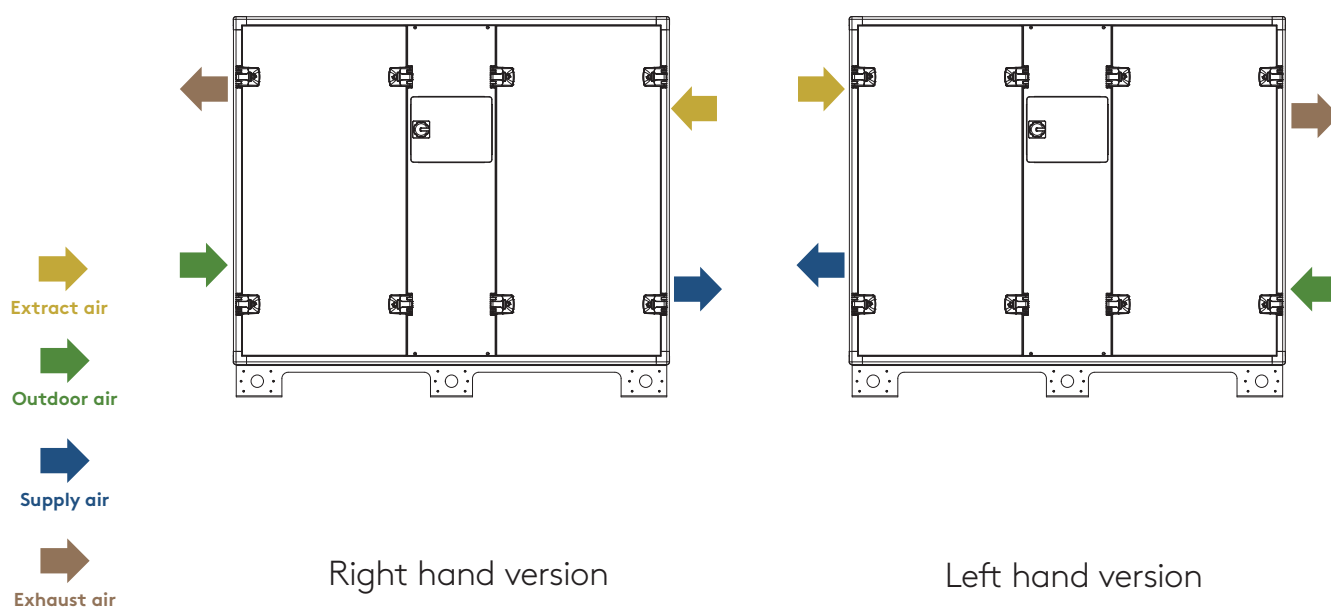
1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
2. All data for composite fan and premium heat exchanger
3. SFPv & Absorbed power calculated with clean filters
4. Speed dim. means with semi-dirty filters

DIMENSIONS (mm)

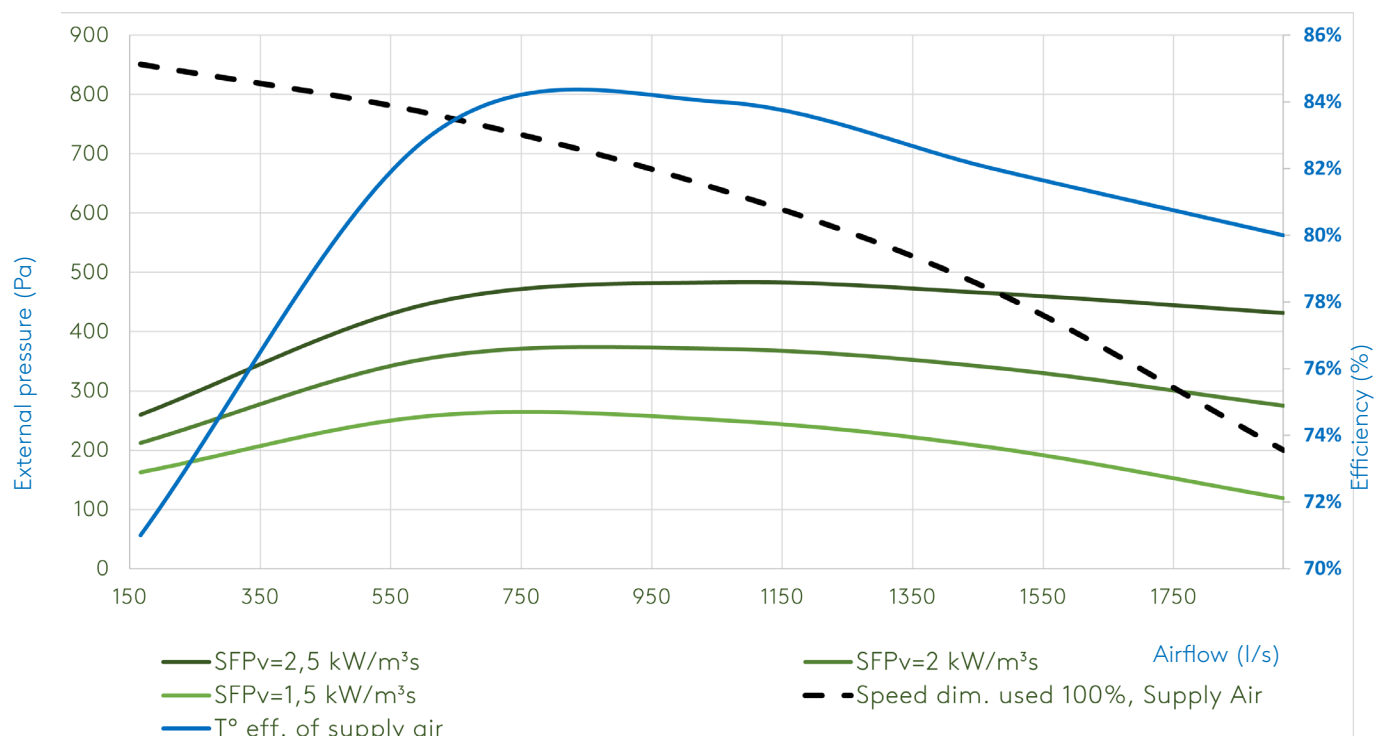
GLOBAL RX 24



GLOBAL RX 24



GLOBAL RX 26



GENERAL TECHNICAL SPECIFICATIONS

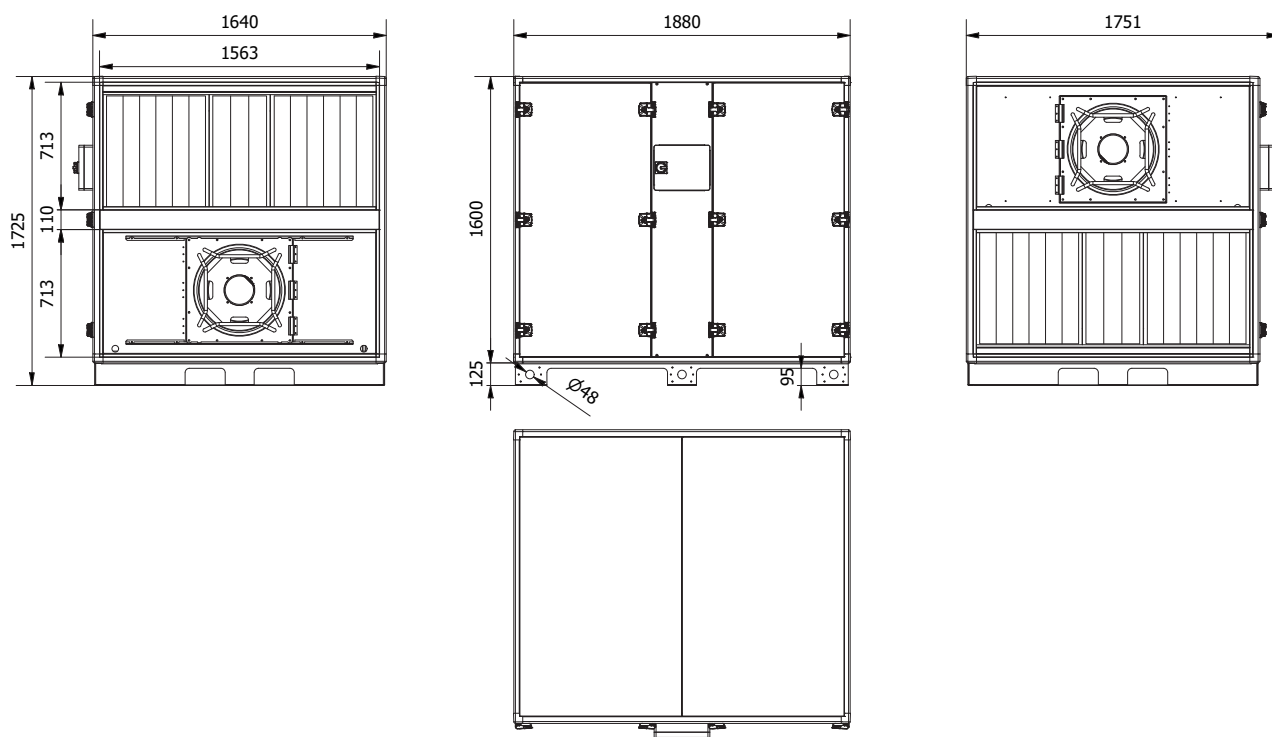
• AIR VOLUME	600 - 6900 m³/h
	167 - 1972 l/s
• DIMENSIONS (L x W x H)	1880 x 1640 x 1725
• WEIGHT	680 kg
• POWER CONNECTION	3 x 400 V + N
• MAX. CURRENT	6.5 A
• RECOMMENDED FUSES	D10A - 10kA - AC3
• BAG FILTER FILTER CLASS	ePM1 70% / ePM10 50%
• STANDARD DUCT CONNECTIONS (15MM)	1563 x 713
• SLIP CLAMP DUCT CONNECTIONS (20MM) (W X H)	1600 x 700
• OPERATING RANGE	-20°C ... +50°C
• EN1886 CLASSIFICATION	T3/TB2/F9/L2/D2

AIRFLOW	Pa _{ext}	SFPv	Speed dim. used/max, Supply Air	Speed dim. used/max, Exhaust Air	ABSORBED POWER	Dry T° eff. of supply air
m³/h	l/s	kW/m³/s	%	%	kW	%
600	167	200	1,8	49	0,3	71%
2200	612	200	1,2	60	0,7	83%
3800	1056	200	1,3	73	1,4	84%
5300	1473	200	1,5	86	2,2	82%
6900	1918	200	1,8	100	3,4	80%

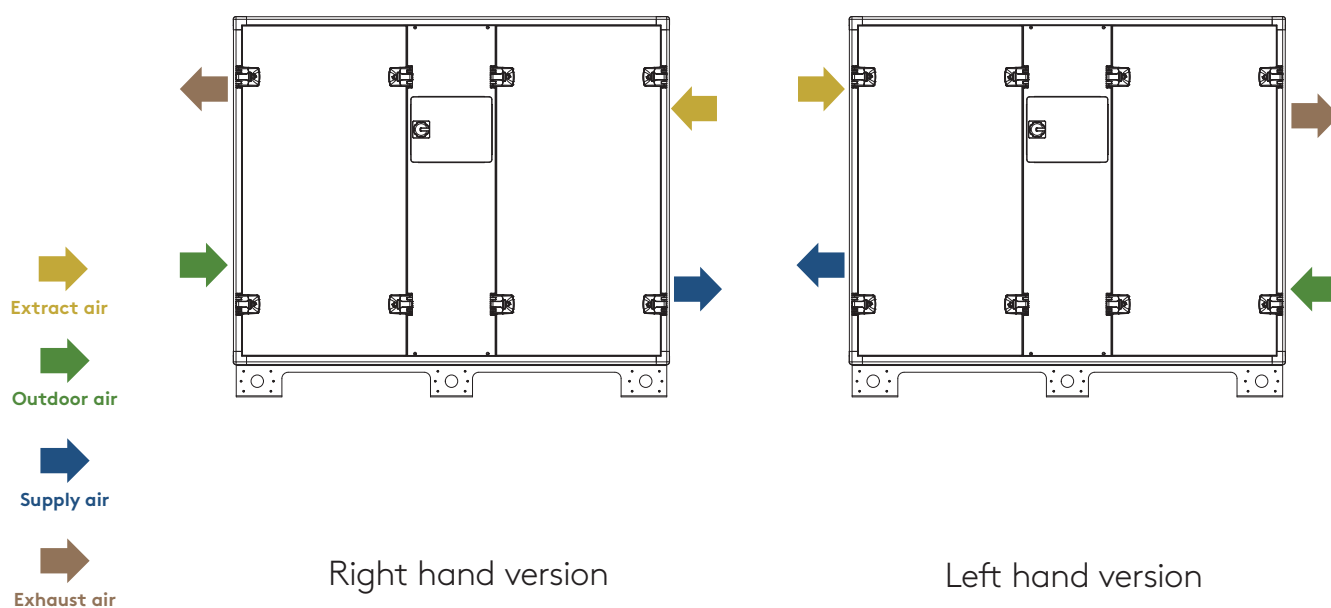
1. Calculated values at 200 Pa of external pressure (150 IN, 50 OUT)
2. All data for composite fan and premium heat exchanger
3. SFPv & Absorbed power calculated with clean filters
4. Speed dim. means with semi-dirty filters

DIMENSIONS (mm)

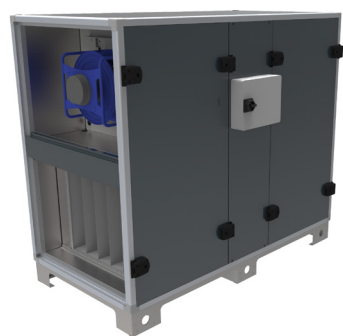
GLOBAL RX 26



GLOBAL RX 26

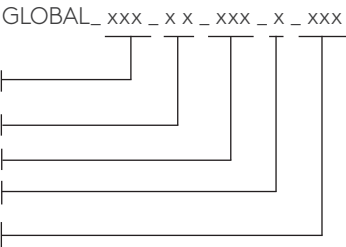


GLOBAL RX



Specification:

Heat exchanger efficiency: High (RX) / Premium (RX +)
Unit size: 05, 08, 10, 12, 13, 14, 16, ...
Duct connections:
Supply air: Right (R) / Left (L)
Fan type: none = Composite, ALU = Aluminum



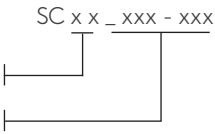
SLIP CLAMP CONNECTIONS 20mm- SC20



The external insulated casings are fabricated in galvanized steel sheet. the outer sheet is painted in RAL7016. The double-skin panels contain 50mm mineral wool. The casings can be use to integrate external cooling, heating or direct e x pan- sion coils (EBA). The standard connection frame is 15mm, other connection frame types are available as an option: 20mm slip clamps, 30mm METU frame.

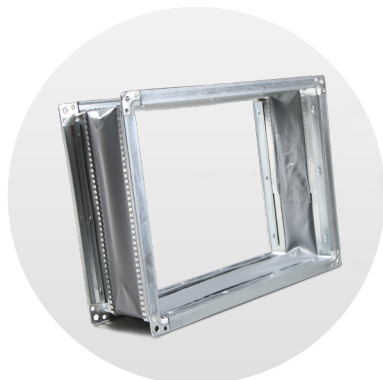
Specification:

Connection frame width [mm]
Duct size[mm]



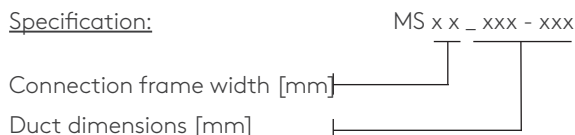
MODEL	DUCT CONNECTION	LABEL
GLOBAL RX 12	600X800	SC20_800-600
GLOBAL RX 13	600X900	SC20_900-600
GLOBAL RX 14/16	600X1100	SC20_1100-600
GLOBAL RX 18/20	700x1300	SC20_1300-700
GLOBAL RX 24/26	700x1600	SC20_1600-700

FLEXIBLE SLEEVE 30mm - MS30



The Flexible sleeves type MS30 prevents the transmission of vibrations and noise along the ventilation ductwork. The sleeve is made of fibreglass and are classified "M0" for fire resistance, "Class B" for air tightness (EN 15727 and EN 1751). The operating range is from -30°C up to +110°C and for pressures up to 2000Pa. The 30mm "METU" connection frame is made from 1mm thick galvanized steel.

Specification:



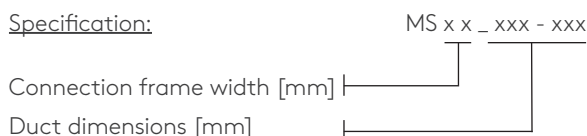
MODEL	DUCT CONNECTION [mm]	OUTER DIMENSIONS [mm]	LABEL
GLOBAL RX 12	745 x 520	805 x 580	MS30_745-520
GLOBAL RX 13	855 x 520	915 x 580	MS30_855-520
GLOBAL RX 14/16	1060 x 540	1100 x 580	MS30_1040-520
GLOBAL RX 18/20	1245 x 650	1305 x 710	MS30_1245-650
GLOBAL RX 24/26	1500 x 650	1560 x 710	MS30_1500-650

FLEXIBLE SLEEVE 20mm - MS20



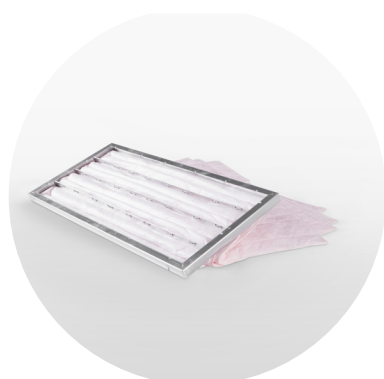
The Flexible sleeves type MS20 prevents the transmission of vibrations and noise along the ventilation ductwork. The sleeve is made of fibreglass and are classified "M0" for fire resistance, "Class B" for air tightness (EN 15727 and EN 1751). The operating range is from -30°C up to +110°C and for pressures up to 2000Pa. The 20mm connection frame is made from 1mm thick galvanized steel.

Specification:



MODEL	DUCT CONNECTION [mm]	OUTER DIMENSIONS [mm]	LABEL
GLOBAL RX 12	765 x 540	805 x 580	MS20_765-540
GLOBAL RX 13	875 x 540	915 x 580	MS20_875-540
GLOBAL RX 14/16	1060 x 540	1100 x 580	MS20_1060-540
GLOBAL RX 18/20	1265 x 670	1305 x 710	MS20_1265-670
GLOBAL RX 24/26	1520 x 670	1540 x 710	MS20_1520-670

FILTER REPLACEMENT KIT



The function of the filter is to keep both the air and the heat exchanger clean. To keep the rotary heat exchanger clean, an ePM10≥50 filter class will suffice. ePM1≥50 filter sets are not available so that there is no negative influence on the energy consumption of the air handling unit. Filterclass supply air filter, ePM1≥50% according EN16890. Filterclass extract air filter ePM10≥50% according EN16890.

MODEL	DIMENSIONS SUPPLY [mm]	DIMENSIONS EXTRACT [mm]
GLOBAL RX 05/08	490 x 517 x 380	490 x 517 x 517
GLOBAL RX 10/12	592 x 592 x 380	592 x 592 x 360
GLOBAL RX 13	705 x 592 x 380	705 x 592 x 360
GLOBAL RX 14/16	892 x 592 x 380	892 x 592 x 360
GLOBAL RX 18/20	592 x 692 x 380 (x2)	592 x 692 x 360 (x2)
GLOBAL RX 24/26	592 x 692 x 380 (x2) + 340 x 692 x 380	592 x 692 x 360 (x2) + 340 x 692 x 360

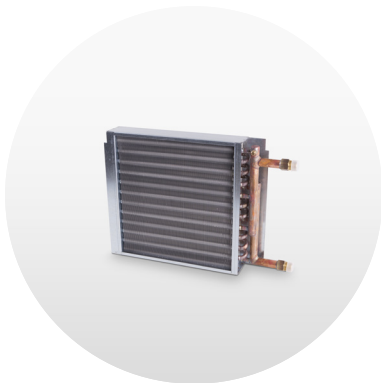
PRE FILTER G4



The prefilter is installed in the outdoor air section and is physically located before the ePM1≥70% fine filter. The prefilter is used in ventilation systems in which the outdoor air is heavily polluted and it is desirable to prevent the fine filter from becoming clogged after a short period of use. According EN-779, the prefilter is of class G4.

MODEL	DIMENSIONS [mm]
GLOBAL RX 05/08	490 x 517 x 50
GLOBAL RX 10/12	592 x 592 x 50
GLOBAL RX 13	705 x 592 x 50
GLOBAL RX 14/16	892 x 592 x 50
GLOBAL RX 18/20	592 x 692 x 50 (x2)
GLOBAL RX 24/26	340 x 692 x 50 (x2) + 340 x 692 x 50

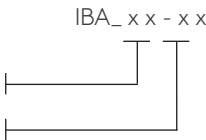
INTERNAL WATER POST HEATING - IBA



The IBA coil uses hot water for post-heating the supply air. The coil is integrated inside the unit and is located between the heat exchanger and the fan. The finned-tube heat exchangers consist of copper tubes and aluminum fins with 2,5mm spacing. The male threaded pipe is made of brass. The coils are equipped with a plug for venting. The coils are classified PN16.

Specification:

Coil type & # of rows
Coil size



MODEL	Ø	LABEL
GLOBAL RX 05/08	1/2	IBA_2H_H08
GLOBAL RX 10/12	1/2	IBA_2H_H12
GLOBAL RX 13	1/2	IBA_2H_H13
GLOBAL RX 14/16	1/2	IBA_2H_H16
GLOBAL RX 18/20	3/4	IBA_2H_H20
GLOBAL RX 24/26	3/4	IBA_2H_H24

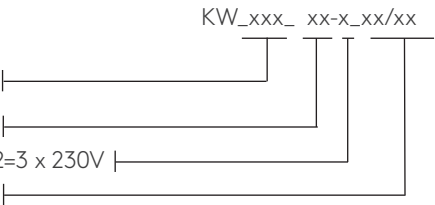
INTERNAL ELECTRICAL POST HEATING - KWout



The electrical coil is used for post-heating the supply air. The electrical coil is located between the rotary heat exchanger and the fan. There are two overheating protections, one with manual reset and one with automatic reset. All electrical connections are protected against electrocution.

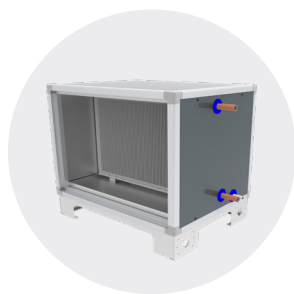
Specification:

Pre/Post heating [IN/OUT]
Heating capacity [kW]
Supply voltage: 1=3 x 400V / 2=3 x 230V
Coil size



MODEL	CAPACITY	LABEL
GLOBAL RX 05	4.5 KW	KW_OUT_4.5_x_05
GLOBAL RX 08	6.0 KW	KW_OUT_6_x_08
GLOBAL RX 10	6.0 KW	KW_OUT_6_x_10
GLOBAL RX 12	9.0 KW	KW_OUT_9_x_12
GLOBAL RX 13	9.0 KW	KW_OUT_9_x_13
GLOBAL RX 14/16	12.0 KW	KW_OUT_12_x_14/16
GLOBAL RX 18	15.0 kW	KW_OUT_15_x_18
GLOBAL RX 20	18.0 kW	KW_OUT_18_x_20
GLOBAL RX 24	22.5 kW	KW_OUT_22.5_x_24
GLOBAL RX 26	22.5 kW	KW_OUT_22.5_x_26

EXTERNAL INSULATED CASING FOR COILS- ECA



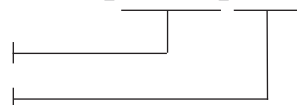
The external insulated casings are fabricated in galvanized steel sheet. the outer sheet is painted in RAL7016. The double-skin panels contain 50mm mineral wool. The casings can be use to integrate external cooling, heating or direct e x pansion coils (EBA). The standard connection frame is 15mm, other connection frame types are available as an option: 20mm slip clamps, 30mm "METU" frame.

Specification:

Duct size [mm]

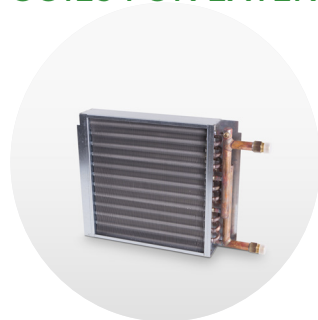
Casing size[mm]

ECA_ xxx - xxx _ x x / x x



MODEL	DUCT CONNECTION	SLIP CLAMPS	DIMENSIONS	LABEL
GLOBAL RX 05/08	Ø 400	N.A.	697 x 670 x 815	ECAd_315_08
GLOBAL RX 10	Ø 400	N.A.	772 x 885 x 670	ECAd_355_10
GLOBAL RX 12	805 x 580	800 x 600	773 x 670 x 885	ECAd_805-580_12
GLOBAL RX 13	915 x 580	900 x 600	772 x 670 x 995	ECAd_915-580_13
GLOBAL RX 14/16	1105 x 580	1100 x 600	772 x 670 x 1182	ECAd_1105-580_16
GLOBAL RX 18/20	1305 x 710	1300 x 700	902 x 670 x 1382	ECAd_1305-710_20
GLOBAL RX 24/26	1305 x 580	1300 x 600	772 x 670 x 1382	ECAd_1560-710_26

COILS FOR EXTERNAL INSULATED CASING - EBA



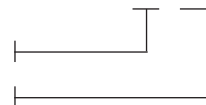
The EBA coil uses hot water for post-heating the supply air. The coil is to be integrated in an insulated casing ECA. The finned-tube heat exchangers consist of copper tubes and aluminum fins with 2,5mm spacing. The male threaded pipe is made of brass. The coils are equipped with a plug for venting. The coils are classified PN16.

Specification:

Function & # of rows

Coil size

EBA_ x x _ x x / x x



MODEL	FUNCTION	# ROWS	LABEL
GLOBAL RX 05/08	Heating	4	EBA_4H_H08
GLOBAL RX 05/08	Cooling	4	EBA_4C_H08
GLOBAL RX 05/08	DX	4	EBA_4X_H08
GLOBAL RX 10/12	Heating	4	EBA_4H_H12
GLOBAL RX 10/12	Cooling	4	EBA_4C_H12
GLOBAL RX 10/12	DX	4	EBA_4X_H12
GLOBAL RX 13	Heating	4	EBA_4H_H13
GLOBAL RX 13	Cooling	4	EBA_4C_H13
GLOBAL RX 13	DX	4	EBA_4X_H13
GLOBAL RX 14/16	Heating	4	EBA_4H_H16
GLOBAL RX 14/16	Cooling	4	EBA_4C_H16
GLOBAL RX 14/16	DX	4	EBA_4X_H16
GLOBAL RX 18/20	Heating	4	EBA_4H_H20
GLOBAL RX 18/20	Cooling	4	EBA_4C_H20
GLOBAL RX 18/20	DX	4	EBA_4X_H20
GLOBAL RX 24/26	Heating	4	EBA_4H_H26
GLOBAL RX 24/26	Cooling	4	EBA_4C_H26
GLOBAL RX 24/26	DX	4	EBA_4X_H26

CIRCULAR ADAPTER - IRS

For units (AHU's, external coils, ...) with rectangular connections, non insulated rectangular/circular adapters are available. The adapter is fabricated in galvanized sheet metal. The circular duct connection is fitted with a rubber seal.



MODEL	DIMENSIONS	LABEL
GLOBAL RX 12	835 x 615 - Ø400	IRS_835-615_400
GLOBAL RX 13	945 x 615 - Ø400	IRS_945-615_400
GLOBAL RX 14/16	1140 x 615 - Ø500	IRS_1140-615_500

ROOF FOR OUTDOOR INSTALLATION- OUT



The roof for outdoor installation is supplied as a complete assembly kit.

Specification:

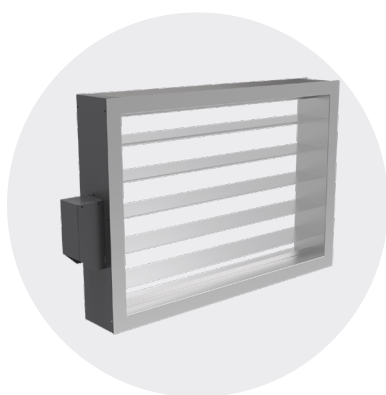
Roof size [mm]

OUT_ xxx - xxx



MODEL	DUCT CONNECTION	LABEL
GLOBAL RX 05/08	1670 x 955	OUT_1670-955
GLOBAL RX 10/12	1820 x 1025	OUT_1820-1025
GLOBAL RX 13	1820 x 1135	OUT_1820-1135
GLOBAL RX 14/16	1820 x 1320	OUT_1820-1320
GLOBAL RX 18/20	2020 x 1520	OUT_2020-1520
GLOBAL RX 24/26	2020 x 1780	OUT_2020-1780

MOTORISED DAMPER - CT



The CT dampers are used as shut-off dampers. Shut-off dampers are used if the air handling unit is idle during some period or if a water coil is used. The damper is premounted and prewired in factory. The dampers are made of galvanized steel, the blades of the rectangular dampers are made of extruded aluminum. The blades have rubber seals. According EN 1751, air tightness of circular dampers is of class 3, the air tightness of rectangular dampers is of classe 2.

Specification:

Connection frame [mm]

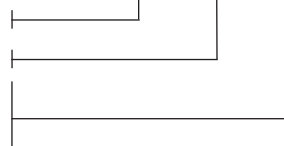
Duct dimensions [mm]

None =

On/off = SM01

Spring return = SM02

CT xx _ xxx - xxx _SM01



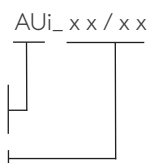
MODEL	STANDARD DUCT CONNECTION [mm]	SLIP CLAMP DUCT CONNECTION [mm]	LABEL
GLOBAL RX 05/08	S		CT_315
GLOBAL RX 10	Ø400		CT_400
GLOBAL RX 12	725 x 500	600x 800	CT40_725-500
GLOBAL RX 13	835 x 500	600 x 900	CT40_835-500
GLOBAL RX 14/16	1020 x 500	600 x 1100	CT40_1020-500
GLOBAL RX 18/20	1225 x 630	700 x 1300	CT40_1225-630
GLOBAL RX 24/26	1480 x 630	700 x 1600	CT40_1480-630

AIR INLET WITH PROTECTION GRILL - AU_i



The inlet air section is secured by means of screws to the air handling unit's duct connection. The optional damper motor is protected from harsh weather conditions. The air intake is through a mesh at the bottom of the hood. The integrated mesh prevents dirt entering the unit. Short-circuit of rejected air is avoided when using the AU_e / AU_i combination.

Hood only: AU_i
Hood and motorised damper: AUCT_i
Air hood connection size



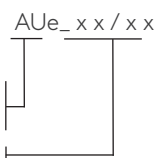
MODEL	DIMENSIONS	LABEL	LABEL
GLOBAL RX 05/08	340 x 600	AU _i _315	AUCT _i _315
GLOBAL RX 10	440 x 600	AU _i _400	AUCT _i _400
GLOBAL RX 12	815 x 585	AU _i _815-585	AUCT _i _815-585
GLOBAL RX 13	925 x 585	AU _i _925-585	AUCT _i _925-585
GLOBAL RX 14/16	1110 x 585	AU _i _1110-585	AUCT _i _1110-585
GLOBAL RX 18/20	1310 x 715	AU _i _1310-715	AUCT _i _1310-715
GLOBAL RX 24/26	1565 x 715	AU _i _1110-585	AUCT _i _1110-585

AIR OUTLET WITH PROTECTION GRILL - AU_e



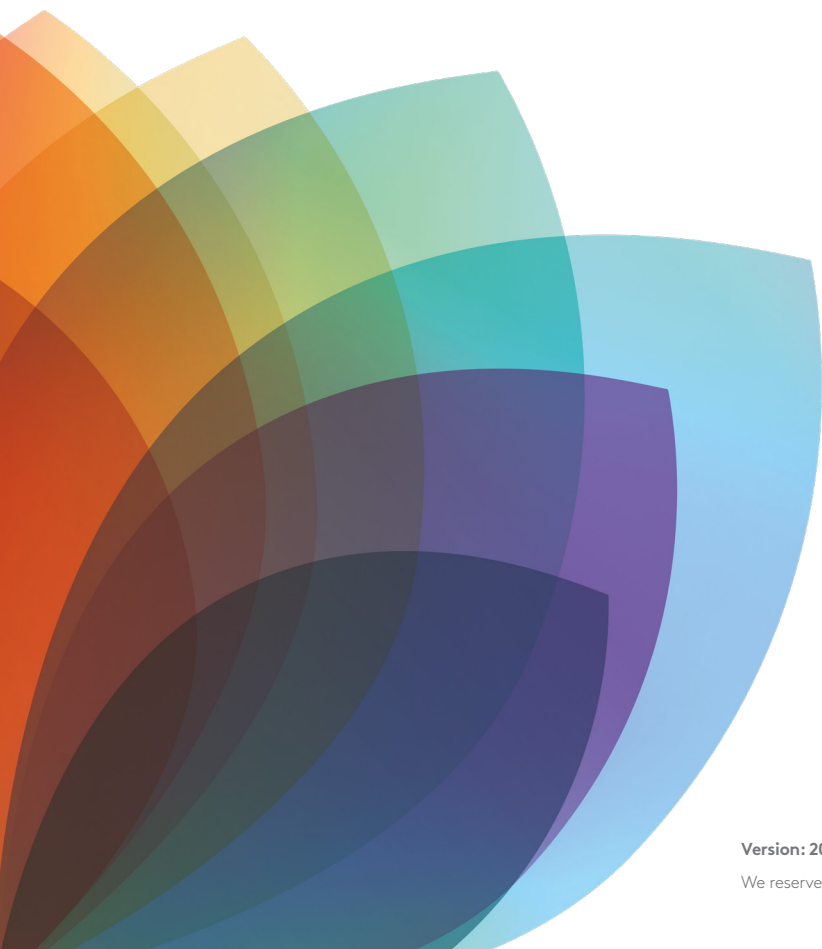
The exhaust air section is secured by means of screws to the air handling unit's duct connection. The optional damper motor is protected from harsh weather conditions. The exhaust air is horizontally discharged. An integrated mesh prevents dirt entering the unit. Short-circuit of rejected air is avoided when using the AU_e / AU_i combination.

Hood only: AU_e
Hood and motorised damper: AUCT_e
Air hood connection size



MODEL	DIMENSIONS	LABEL	LABEL
GLOBAL RX 05/08	340 x 600	AU _e _315	AUCT _e _315
GLOBAL RX 10	440 x 600	AU _e _400	AUCT _e _400
GLOBAL RX 12	815 x 585	AU _e _815-585	AUCT _e _815-585
GLOBAL RX 13	925 x 585	AU _e _925-585	AUCT _e _925-585
GLOBAL RX 14/16	1110 x 585	AU _e _1110-585	AUCT _e _1110-585
GLOBAL RX 18/20	1310 x 715	AU _e _1310-715	AUCT _e _1310-715
GLOBAL RX 24/26	1565 x 715	AU _e _1110-585	AUCT _e _1110-585

NOTES:



Version: 20220524

We reserve the right for changes.

Swegon 