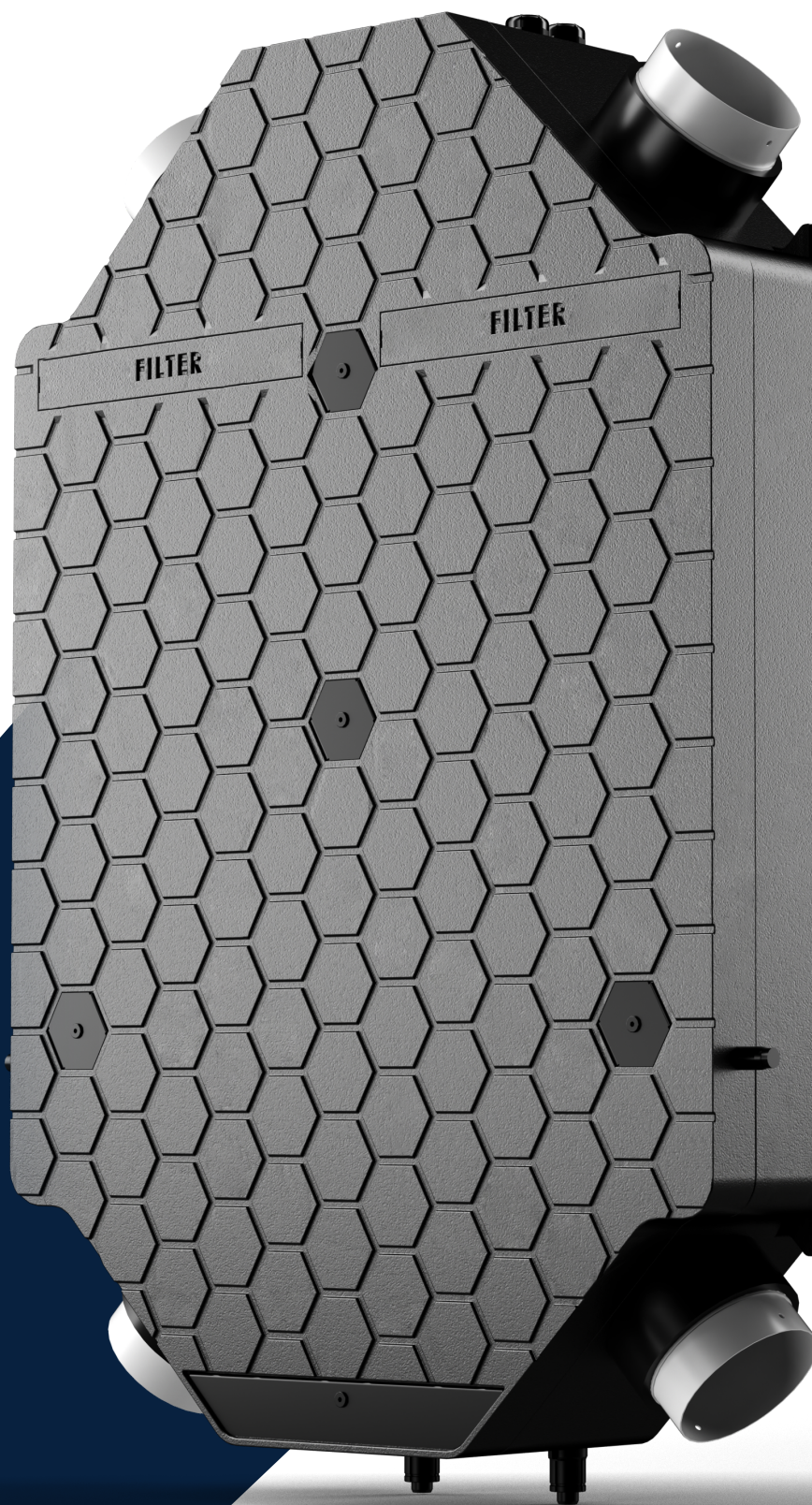


XFLAT150

Technical datasheet



For apartments and smaller family houses

Universal installation position

Heat and moisture recovery exchanger

Possible connection of external preheater

Low installation height

When developing the **Xflat 150** heat recovery unit, we focused on maximizing the product's utility value for use in apartment buildings. Thanks to its dimensions and MultiPlacing design, we can install the unit in 6 different positions and in really small spaces.

The unit stands out for its low weight and small height. **Only 13 kg and 180 mm**

The **throats** are 45° angled, allowing rigid or flexible pipes to be routed without crossing the contour of the unit.

Accessible control - Easy connection of accessories.

01

Possibility of an external preheater or afterheater. Smart anti-frost protection logic.

02

Wi-Fi module integrated in unit (Xvent web-app available)
Smart Home systems connectivity
(Modbus RTU protocol)

03

Xflat is qualified for government subsidy programs thanks to the **energy class A+**

Long-life filters.
Filtration class M5
(alt. F7, F9)



Built-in Wi-Fi module is used to control the unit via Xvent web-app

Two types of heat recovery exchangers.
Heat recovery or heat and moisture recovery (enthalpy recovery).

MULTIPLACING system

A condensate drain is provided in each position for easier installation. By default, all drain outlets are blinded.

UNDER CEILING INSTALLATION

WALL-MOUNTED VERTICAL INSTALLATION

WALL-MOUNTED HORIZONTAL INSTALLATION

(Only for version with enthalpy heat exchanger)

Body of the unit is made from black EPP (expanded polypropylene)

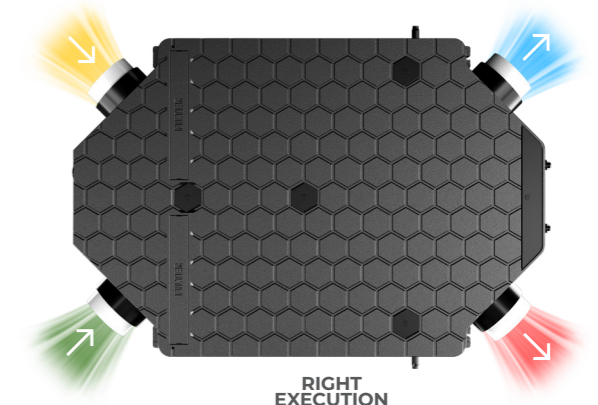
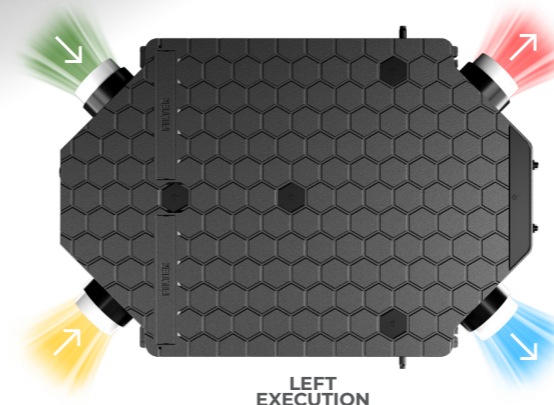
The front EPP cover is removable for service or cleaning purposes.



Wall mounted control panel as optional accessory.



AIRFLOW DIAGRAM



Left and right execution
- Change by mechanical switch.

04

CO₂ and RH sensor can be connected to the unit.

SUP
SUP
Supply air

EHA
EHA
Exhaust air

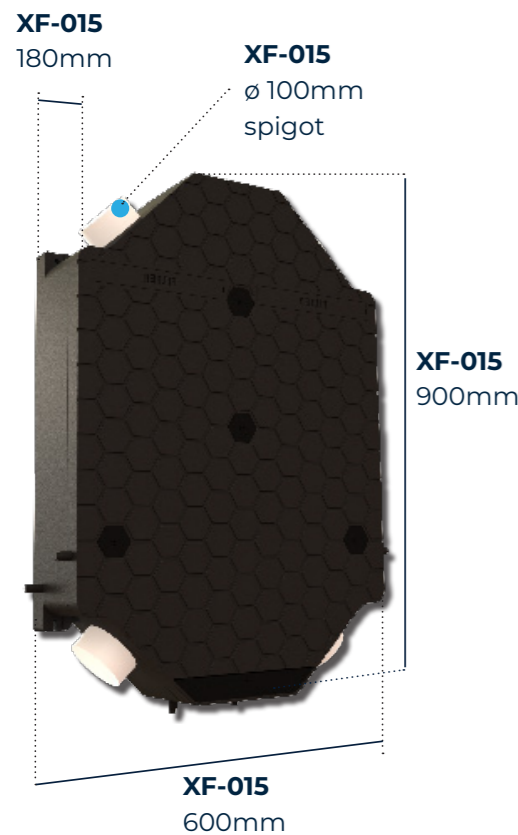
ETA
ETA
Extract air

ODA
ODA
Outdoor air

Technical data Xflat150

		VERSION WITH HEAT EXCHANGER	VERSION WITH ENTHALPIC EXCHANGER
		XF2-15-ECS0 HR xxx-0A0	XF2-15-ECS0 ER xxx-0A0
HEAT RECOVERY EXCHANGER TYPE		HRV	ERV
PREHEATER (EXTERNAL)		electric (max. 1 kW)	electric (max. 1 kW)
NOMINAL AIRFLOW (EPD 200 Pa)	m³/h	155	140
NOISE LEVEL *	dB(A)	39,6	38,8
WEIGHT **	kg	13	13,5
POWER SUPPLY	V/Hz	1 ~ 230 / 50-60	
NOM. UNIT POWER CONSUMPTION	W	106	101
EFFICIENCY EN 13141-7 HEAT / MOISTURE ***	%	88,5 / —	75 / 50
IP RANGE	IP	20	
ENERGY EFFICIENCY CLASS (SEC)	—	COLD CLIMATE A+ / MID CLIMATE A / WARM CLIMATE E	

* Acoustic pressure at (L_m) 3m (Q₂) - 110m³/h - 120Pa ** Unit weight without packaging *** Efficiency stated at 70% of nominal flow rate according to EN 308



!

Xflat has to be operated in indoor and dry space with temperature between +5°C up to +40°C.

The unit can be installed on both the wall (horizontally, vertically) and the ceiling.

Fastening is done with self-tapping screws and washers into the prepared holes in the EPP body.

Xflat equipped with heat exchanger (HRV) may produce condensate and so it is necessary to cut off the relevant condensate drain and connect condensate tubes!



Controls Xflat200

	WIRED WALL CONTROLLER	WI-FI MODULE	WIRED WALL TOUCH-CONTROLLER	RF CONTROLLER
CONTROL TYPE	ESSENTIAL	WIFI	EXTERNAL ACCESSORY OPTIONAL	EXTERNAL ACCESSORY OPTIONAL
CONNECTION	LAN CABLE (10m in delivery)	via Web-App	LAN CABLE (10m in delivery)	RF (wireless)
MODE SETTING AUTOMATIC / MANUAL	✗ manual only	✓	✓	✓
FILTER / ERROR INDICATION	✓	✓	✓	✓
BOOST ACTIVATION	✗	✓	✓	✓
BY-PASS (FREECOOLING) ACTIVATION	✓ manual	✓ automatic	✓ automatic	✗
OFFSET SETTING (FANS DISBALANCE)	✗	✓	✓	✗
TIMER SETTING	✗	✓	✗	✗
BMS	✗	MODBUS RTU	MODBUS RTU	-

Dimensions Xflat150

	Product code	Weight		Package size (W x L x H)*	Pieces on EUR pallet
		Brutto	Netto		
		kg		mm	max. pcs
Xflat 150	XF2-15-ECS0 HR XAS-0A0	15	13	970 x 680 x 240	10
	XF2-15-ECS0 ER XAS-0A0	15,5	13,5	970 x 680 x 240	10

* Package contains: Xflat unit, quick manual and safety instructions

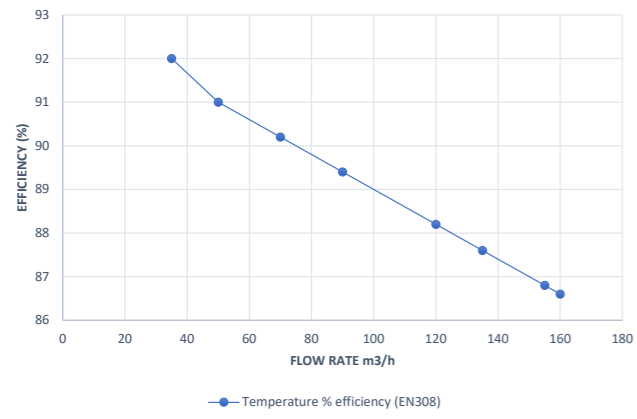
Technical data Xflat150

SPEED LEVEL NO.	HEAT EXCHANGER (HRV)				ENTHALPIC EXCHANGER (ERV)				
	XF2-15-ECS0HRxxx-0A0				XF2-15-ECS0ERxxx-0A0				
	FLOW RATE (m ³ /h)	TEMPERATURE % EFFICIENCY (EN308)	CURRENT (A)	POWER INPUT (W)	FLOW RATE (m ³ /h)	TEMPERATURE % EFFICIENCY (EN308)	HUMIDITY EFFICIENCY (EN308)	CURRENT (A)	POWER INPUT (W)
1.	35	92	0,2	9	30	82,1	61,2	0,2	9
2.	50	91	0,2	13	45	81	59,1	0,2	12
3.	70	90,2	0,2	22	65	80,4	57,5	0,3	20
4.	90	89,4	0,3	33	80	78,5	55	0,3	31
5.	120	88,2	0,5	55	105	75	52	0,4	52
6.	135	87,6	0,6	75	120	73,2	49,8	0,8	72
7. - NOMINAL	155	86,8	0,8	106	140	70,6	47,1	1	101
8. BOOST*	160	86,6	0,9	115	150	69,3	46	1,2	110

* BOOST mode - intensive ventilation for a set period of time (ventilation intensity and ventilation time can be set in the customer menu)

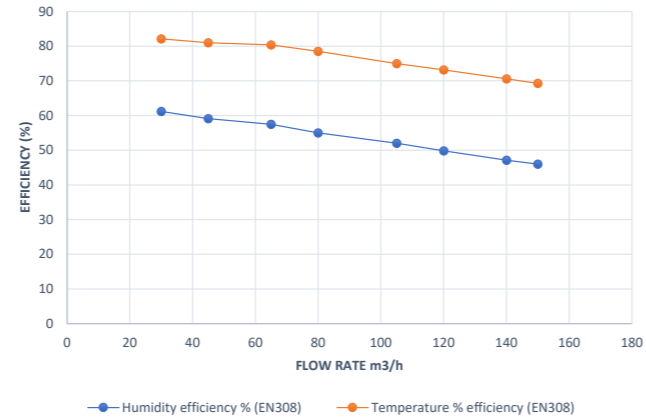
RECOVERY EFFICIENCY (HRV)

XF2-15-ECS0HRxxx-0A0

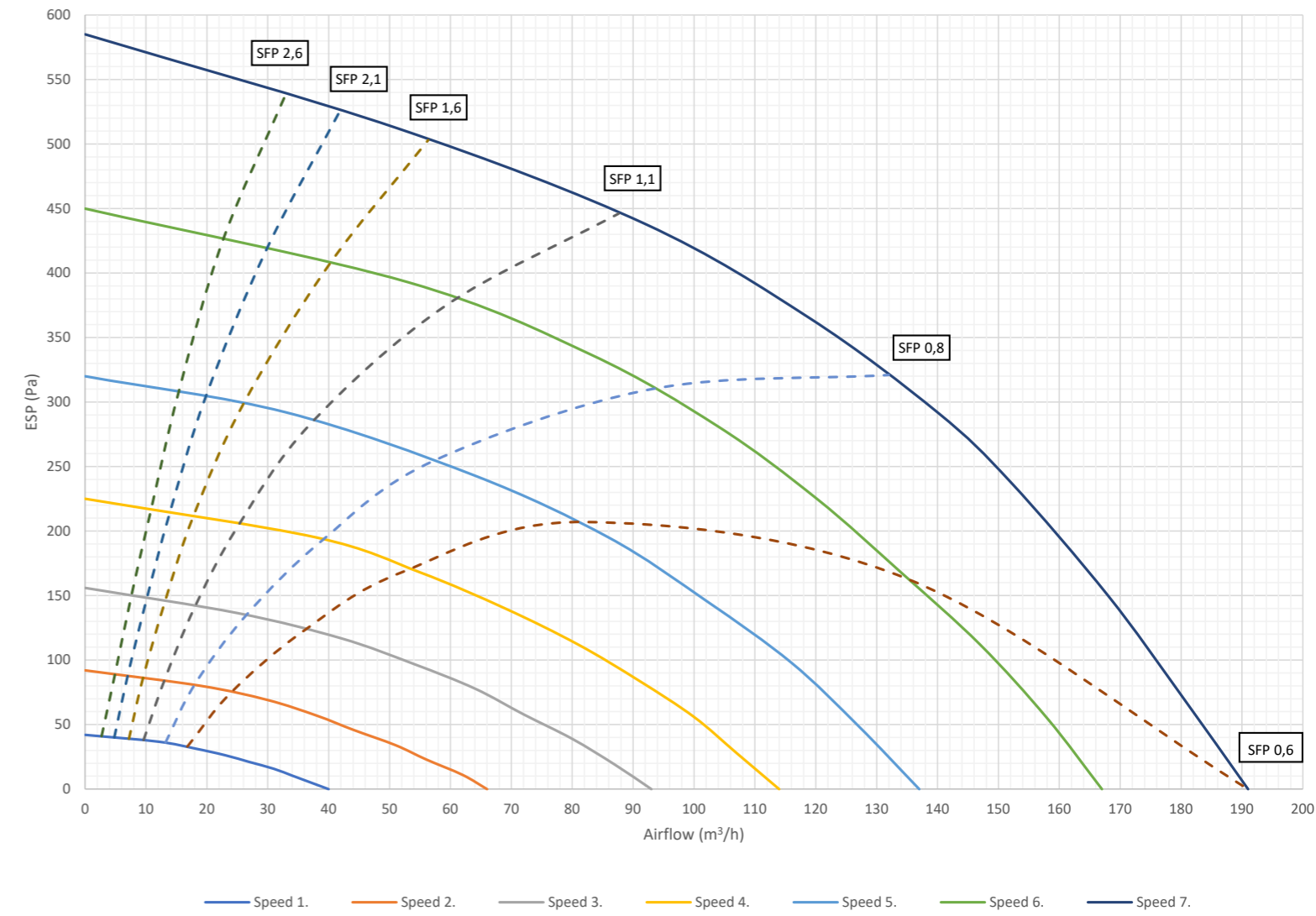


RECOVERY EFFICIENCY (ERV)

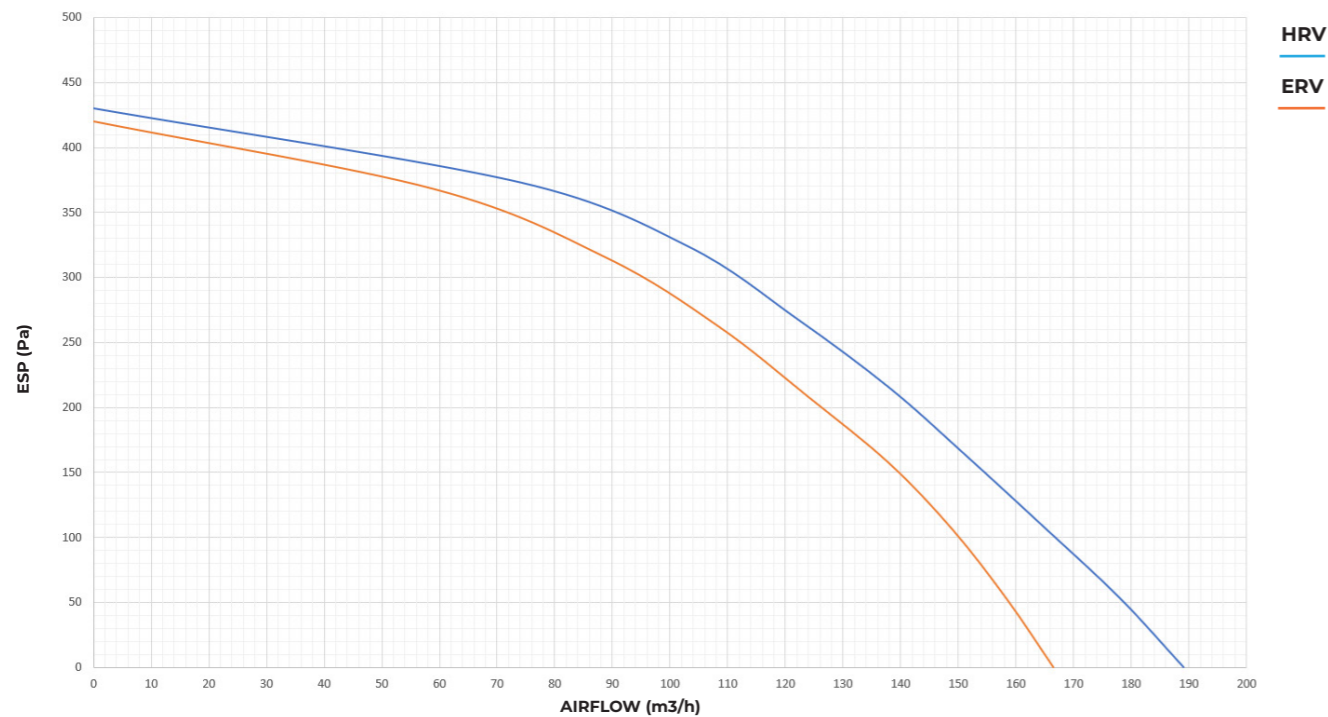
XF2-15-ECS0ERxxx-0A0



OUTPUT POWER CHARACTERISTIC (HRV, ERV)



AIRFLOW / PRESSURE CHARACTERISTIC (HRV, ERV)



SFP / SPI Xflat 150

	SFP (W/m ³ /h)	Nominal airflow - ECODESIGN (m ³ /h)	Power consumption - fan (W)	Power consumption - control (W)	Power consumption - complete unit (W)	SPI (W/m ³ /h)
XF2-015 (150m ² /h)	0,33	114	38	3	41	0,36

Acoustic data Xflat150

AIRFLOW LEVEL (m³)	HEAT EXCHANGER (HRV)									SOUND POWER LEVEL	SOUND PRESSURE LEVEL	
	XF2-15-ECS0HRxxx-OA0										(in the open field on the reflection plane)	
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]	LPA (dB) in 1,5m	LPA (dB) in 3m
35	dB	17,4	20,5	25,4	28,9	29,1	22	15,5	10,9	33,6	<20	<20
50	dB	17,7	30,9	35	35,9	33,9	25,8	16,3	11	40,5	21,7	<20
70	dB	21,6	37,5	44,5	44,2	41,6	34,2	22,3	12,2	48,9	30,1	24,8
90	dB	23,8	40,6	50,6	50,2	47,1	41	30	18,6	54,7	35,9	30,6
120	dB	29,6	43,6	57,4	56,1	52,8	47,5	38,1	25,2	60,9	42,1	36,8
135	dB	33,4	46	57,6	60,5	56,9	51	42,7	29,7	63,8	44,9	39,6
155	dB	41,4	49,2	58,8	65,2	60,7	55	47,4	34,6	67,6	48,7	43,4
BOOST	dB	41,8	52,8	62,3	71,5	66,1	60,6	53,7	41,3	73,3	54,5	49,2

AIRFLOW CHANNEL	HEAT EXCHANGER (HRV)									SOUND POWER LEVEL
	XF2-15-ECS0HRxxx-OA0									
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]
ODA	dB	38,9	48,8	44,3	42,5	40,4	31,2	27	21,6	59,4
SUP	dB	45,8	50	55,2	54,6	51,1	53,9	50,1	46,6	65,9
ETA	dB	38	46,6	50,1	43,4	41,5	35,5	28,2	23,1	59,7
EHA	dB	48,8	52,8	55,7	52,7	54,9	53,5	50,7	47,7	66,9

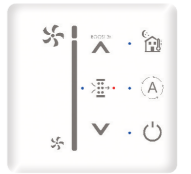
AIRFLOW LEVEL (m³)	ENTHALPY EXCHANGER (ERV)									SOUND POWER LEVEL	SOUND PRESSURE LEVEL	
	XF2-15-ECS0ERxxx-OA0										(in the open field on the reflection plane)	
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]	LPA (dB) in 1,5m	LPA (dB) in 3m
30	dB	15,8	19,8	25,2	28	28,3	21,3	14,5	9,9	32,9	<20	<20
45	dB	16,1	30,2	34,7	35	33,2	25	15,4	10	39,7	20,9	<20
65	dB	20	36,8	44,3	43,3	40,8	33,5	21,3	11,2	48,2	29,3	24
80	dB	22,2	40	50,4	49,3	46,4	40,2	29	17,6	54	35,1	29,8
105	dB	28	43	57,2	55,2	52,1	46,7	37,2	24,2	60,2	41,3	36
120	dB	31,8	45,3	57,3	59,6	56,2	50,2	41,7	28,7	63	44,1	38,8
140	dB	39,8	48,6	58,5	64,2	60	54,2	46,4	33,6	66,8	47,9	42,6
BOOST	dB	40,2	52,2	62	70,5	65,4	59,8	52,8	40,3	72,5	53,74	48,44

AIRFLOW CHANNEL	ENTHALPY EXCHANGER (ERV)									SOUND POWER LEVEL
	XF2-15-ECS0ERxxx-OA0									
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]
ODA	dB	49,4	61,9	60,9	59,8	57,8	47,3	42,7	29,1	66,4
SUP	dB	41,6	52,8	55,2	60,1	52,6	49,2	37,1	20,3	62,7
ETA	dB	47,1	58,7	55,3	58,6	52,3	47,5	37,8	26,5	63,2
EHA	dB	42,5	52,9	54,3	60,3	51,8	49,0	37,1	23,0	62,5

Accessories Xflat150

Wall controller
XCONT-TR-CENT-COMFORT

Wall controller (incl. 10m cable) - possibility to control the airflow (7 speeds), ventilation mode, bypass, boost and free-cooling mode. Filter and error indication diode (LED)



RF controller
RF-REMOTE-CONTROLLER

RF controller - possibility to control the airflow and boost. Filter and error indication diode. Battery powered (batteries included). Receiver already in-built in heat recovery unit.



SPARE FILTERS (set of 2pcs)	
M5 - ePM10 55% ISO 16890	F7 - ePM1 70 % ISO 16890
XF-015-FILTER-M5	XF-015-FILTER-F7



	AQ5 SENSORS			
	Wall mounted - wired	Wall in-built	Duct	Wall mounted - wireless
CO ₂	NL-ECO-CO2-P111	NL-ECO-CO2-MINI-D-P111	NL-ECO-CO2-D-P111	NLB-CO2-5-MRF-P111
RH	NL-ECO-RH-P111	NL-ECO-RH-MINI-D-P111	NL-ECO-RH-D-P111	NLB-RH+T-MRF-P111
CO ₂ + RH	NLII-CO2+RH-D-P111	-	-	NLB-CO2+RH+T-5-MRF-P111
RECEIVER FOR WIRELESS SENSORS	-	-	-	NL-MRF-RX-CO2+RH-P111

- after switching the unit to automatic mode, the air flow is regulated based on the CO₂ / RH concentration in the room. Combined sensor always records a highest value.

Radon sensor
NL-ADS-RN3

Radon sensor - Sensor for real-time monitoring of radon activity and ventilation control. After switching the unit to automatic mode, the air flow is regulated based on the Radon concentration in the room.



AQ5 Extension
PRO-SUM-08-D-P111

AQ5 extension - allows to connect up to 8 pcs of air quality sensors (of same type, not combinable)



Duct pre-heater
EOKO2-100-0,4-1-B

Duct pre-heater - external duct air preheater with a power of 0,4 kW as additional anti-freeze protection



Duct after-heater
EOKO2-100-0,4-1-D

Duct after-heater - external duct afterheater with a power of 0,4 kW with integrated thermostat and external temperature sensor.



Duct water-heater/cooler
CWC-160-3

Duct water-heater/cooler (ø 160mm) - external duct water coil heater/cooler

