

XFLAT200

Technical datasheet



MADE IN CZECH REPUBLIC



Xvent

www.xvent.cz

For apartments and smaller houses

Universal installation position

Heat and moisture recovery exchanger

Constant flow control

Easy installation

The Xflat 200 heat recovery unit from the Xflat series offers the highest possible comfort in this category. Sophisticated design, advanced technologies and the "MultiFlex" system provides users with maximum comfort and efficiency in everyday use and installation companies simplicity and flexibility of assembly.

Included in the delivery are interchangeable corners for connecting pipes Ø 160/130 mm

Up to 6 flexible pipes Ø 75 mm can be connected to the integrated adaptors. Saving costs and space for an external distribution elements.

The unit body is made of black EPP (expanded polypropylene).

Integrated preheater + possibility of an external afterheater. Smart anti-frost protection logic.

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

Great performance
Left and right version in one
MultiFlow
150-200 m³/h
Light weight (Only 16 kg)

Metal sheet design cover is removable if service or cleaning is needed.

Long-life filters of filtration class M5 (ePM 10 55%), alt. F7 (ePM1 50%)

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

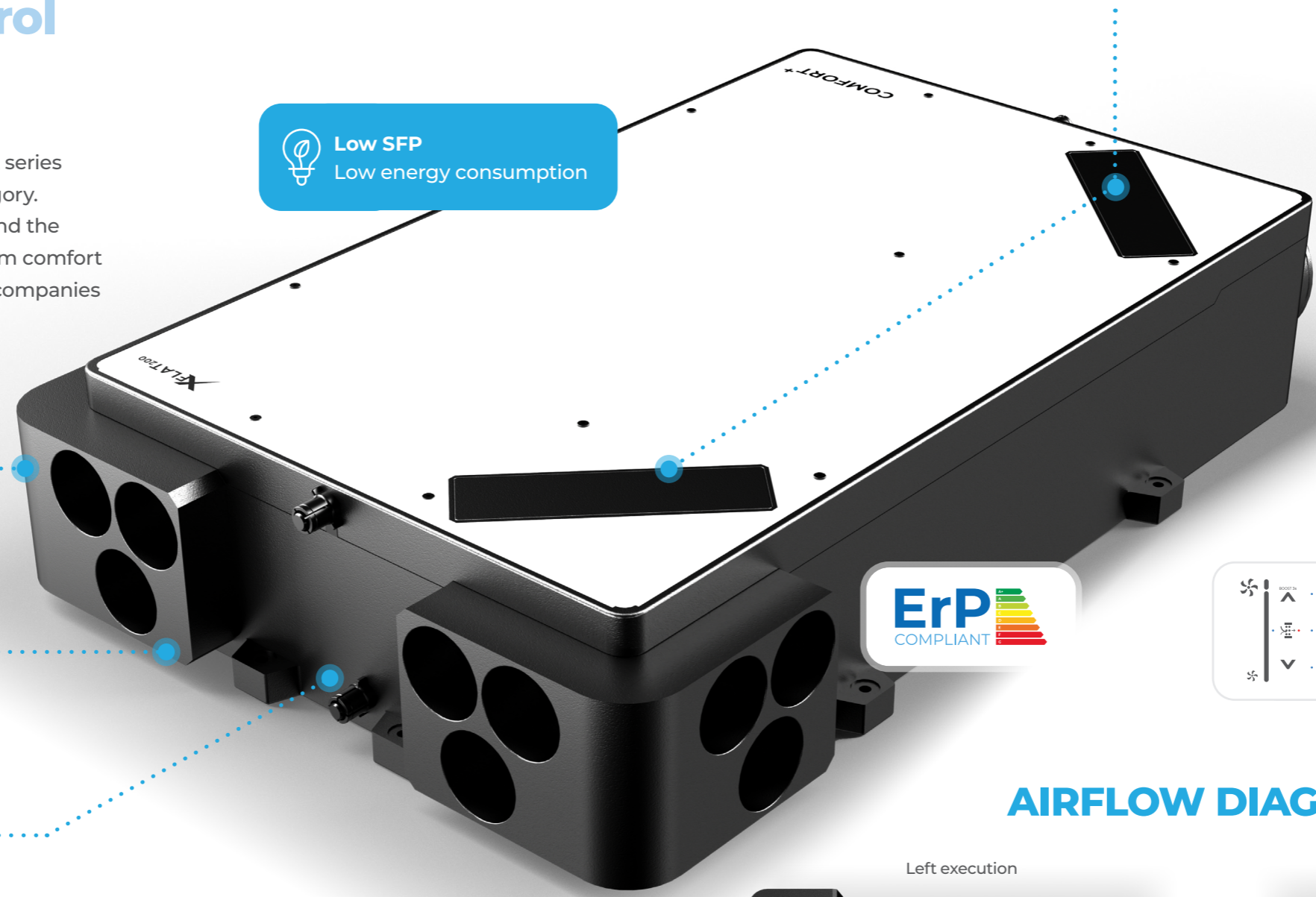
Switching between left and right version using a button on the body of the unit.

The nominal airflow 150 or 200 m³/h can be switched by a button on the unit.

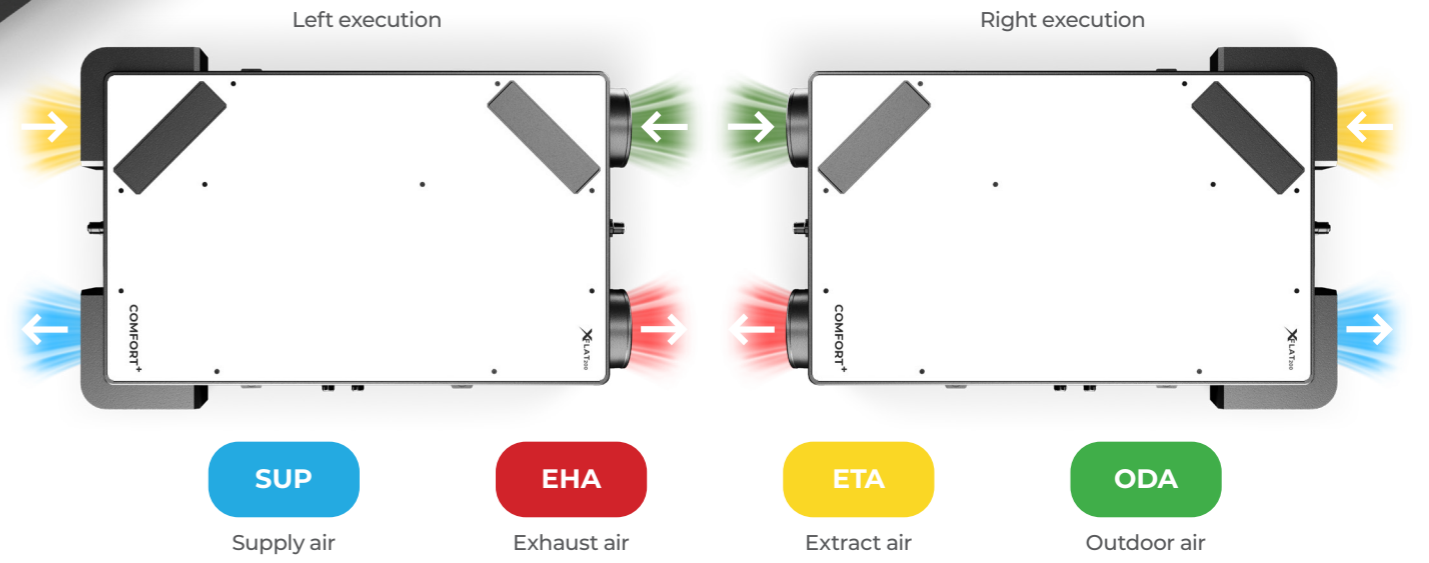
Mechanical automatic bypass is triggered based on temperature sensors with the WIFI controls

Wall mounted control panel as optional accessory.

Low SFP
Low energy consumption



AIRFLOW DIAGRAM



Technical data

Xflat200

Setting 200 m³/h (150 m³/h)

	VERSIONS WITH ELECTRONIC BYPASS				VERSIONS WITH MECHANICAL BYPASS		
	XF2-020-ECS0HR XUE-0A0	XF2-020-ECS0HR XUE-0A0	XF2-020-ECS0HR xxW-0A0	XF2-020-ECS0ER xxW-0A0	XF2-020-ECS0HR xxW-1A0	XF2-020-ECS0ER xxW-1A0	
	ESSENTIAL		WIFI - ELECTRONIC BYPASS		WIFI - MECHANICAL BYPASS+		
HEAT RECOVERY EXCHANGER TYPE	HRV	ERV	HRV	ERV	HRV	ERV	
NOM. AIRFLOW (EPD 200 Pa)	m ³ /h		200 (150)				
NOISE LEVEL *	dB(A)		35.1 (31.4)				
WEIGHT **	kg		16		16.5		
POWER SUPPLY	V/Hz		1 - 230 / 50-60				
UNIT NOM. POWER CONSUMPTION	W		170 (104)				
EFFICIENCY EN 13141-7 HEAT / MOISTURE ***	%	88 (89.3) / -	78 (80.5) / 40 (43)	88 (89.3) / -	78 (80.5) / 40 (43)	88 (89.3) / -	78 (80.5) / 40 (43)
IP RATING	IP		20				
ENERGY EFFICIENCY CLASS (SEC)	-		COLD CLIMATE A+ / MID CLIMATE A / WARM CLIMATE E				
PREHEATER OUTPUT	W		600				

* Sound pressure level at 3m (in free space)

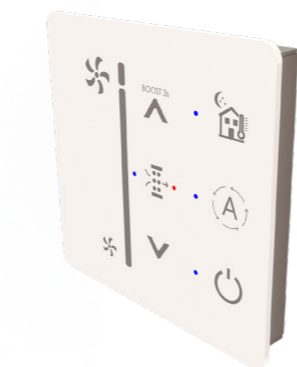
** Unit weight without packaging

*** Efficiency stated at 70% of nominal flow rate according to EN 308

SFP / SPI

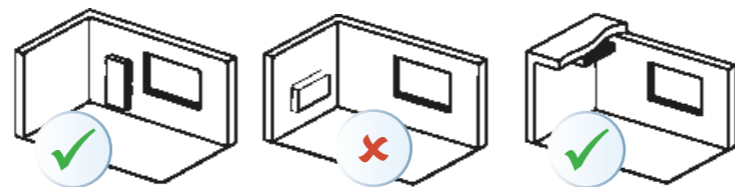
Xflat 200

	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)
XF2-020 (150m ³ /h)	0,250	104	26	3	29	0,279
XF2-020 (200m ³ /h)	0,336	140	47	3	50	0,357



Control panel
XCONT-TR-CENT-COMFORT

WALL OR CEILING INSTALLATION



Controls

Xflat200

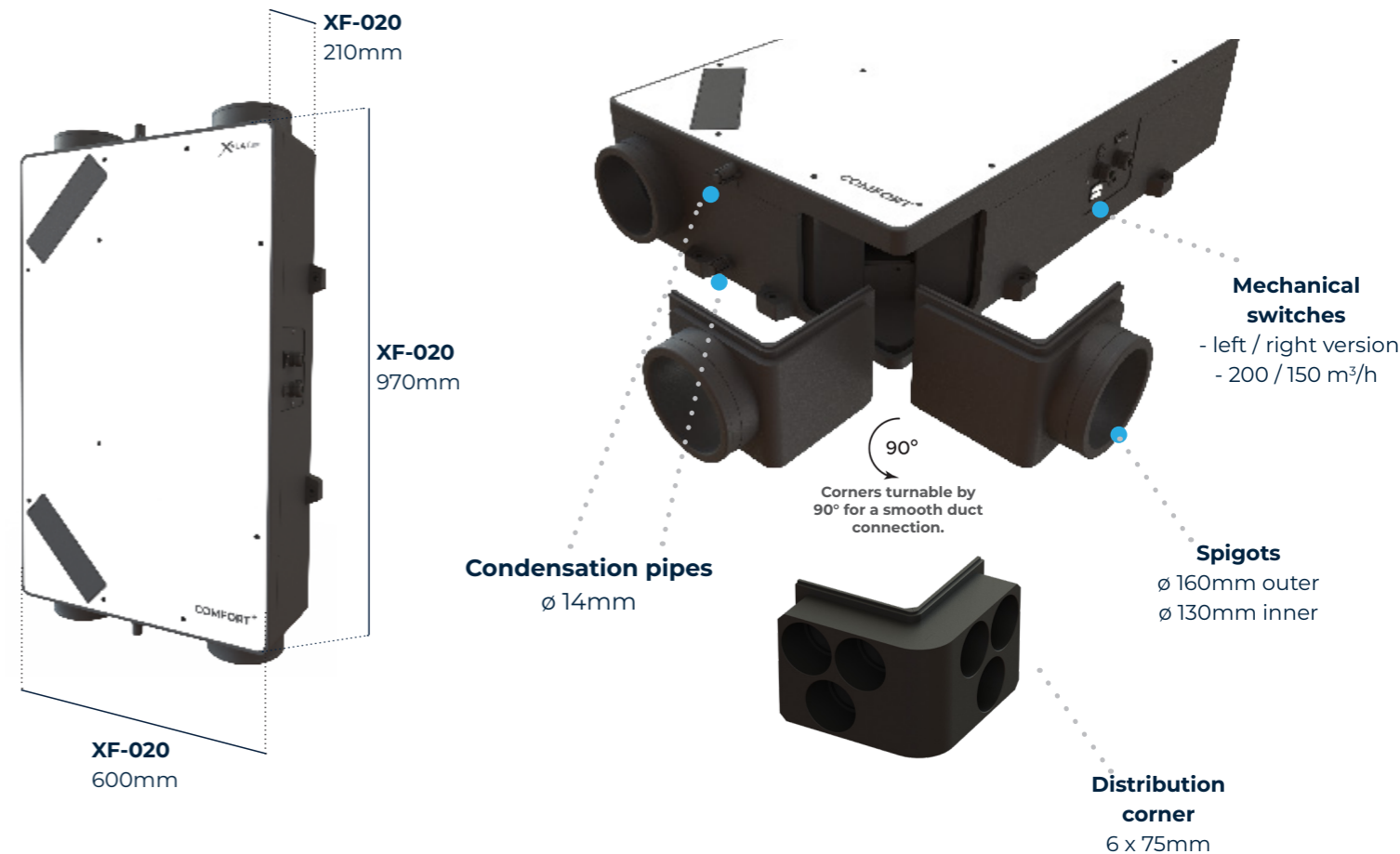
	WIRED WALL CONTROLLER	WI-FI MODULE	WIRED WALL TOUCH-CONTROLLER	RF CONTROLLER
CONTROL TYPE	ESSENTIAL	WIFI	EXTERNAL ACCESSORY OPTIONAL	EXTERNAL ACCESSORY OPTIONAL
CONNECTION	LAN CABLE (10m in delivery)	via Web-App	LAN CABLE (10m in delivery)	RF (wireless)
MODE SETTING AUTOMATIC / MANUAL	✗ manual only	✓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

Dimensions

Xflat200

	Product code	Weight		Package size (W x L x H)*	Pieces on EUR pallet
		Brutto	Netto		
		kg		mm	max. pcs
Xflat 200	XF2-20-ECS0xxxx-0A0	19	16	1120 x 750 x 255	7
	XF2-20-ECS0xxxx-1A0	19,5	16,5	1120 x 750 x 255	7

* Package contains: Xflat unit, quick manual and safety instructions, 2x extra corners with 160mm spigot (WIFI controls only!)



Technical data
Xflat200
setting 200m³/h

SPEED LEVEL NO.	HEAT EXCHANGER (HRV)				ENTHALPIC EXCHANGER (ERV)				
	XF2-20-ECS0HRxxx-xA0				XF2-20-ECS0ERxxx-xA0				
	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.	48	92	0,1	11,7	48	87,4	47,2	0,1	11,7
2.	73	90,1	0,1	18,4	73	84	44,3	0,1	18,4
3.	95	89,5	0,2	26,2	95	81,5	42	0,2	26,2
4.	123	88,4	0,3	42,5	123	79	39,1	0,3	42,5
5.	146	87,7	0,5	66,4	146	77,3	37	0,5	66,4
6.	181	86,6	0,9	126	181	75,4	33,8	0,9	126
7. NOMINAL	207	85,9	1,2	173	207	74,2	31,6	1,2	173
8. BOOST*	207	85,9	1,2	173	207	74,2	31,6	1,2	173

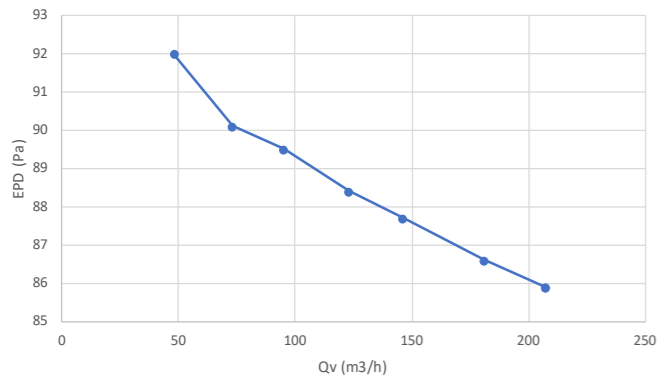
* BOOST mode - intensive ventilation for a set period of time (ventilation intensity and ventilation time can be set in the customer menu)

Technical data
Xflat200
setting 150m³/h

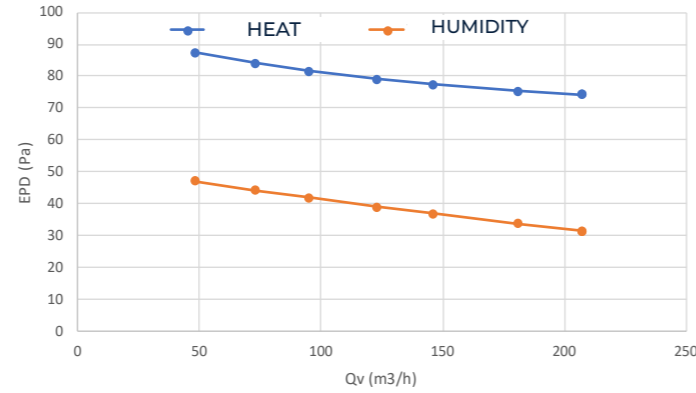
SPEED LEVEL NO.	HEAT EXCHANGER (HRV)				ENTHALPIC EXCHANGER (ERV)				
	XF2-20-ECS0HRxxx-xA0				XF2-20-ECS0ERxxx-xA0				
	FLOW RATE (m ³ /h)	TEMPERATURE % EFFICIENCY (EN308)	CURRENT (A)	POWER INPUT (W)	FLOW RATE (m ³ /h)	TEMPERATURE % EFFICIENCY (EN308)	HUMIDITY EFFICIENCY (EN308)	CURRENT (A)	POWER INPUT (W)
1.	49	92	0,12	13,14	49	87,4	47,2	0,12	13,14
2.	68	90,6	0,15	18,44	68	84,7	44,9	0,15	18,44
3.	83	90	0,18	23,43	83	82,8	43,2	0,18	23,43
4.	102	89,4	0,26	35,48	102	80,8	41,2	0,26	35,48
5.	120	88,8	0,36	50,55	120	79,2	39,4	0,36	50,55
6.	138	88,1	0,51	71,74	138	77,9	37,6	0,51	71,74
7. NOMINAL	155	87,5	0,74	104	155	76,8	36,1	0,74	104
8. BOOST*	155	87,5	0,74	104	155	76,8	36,1	0,74	104

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

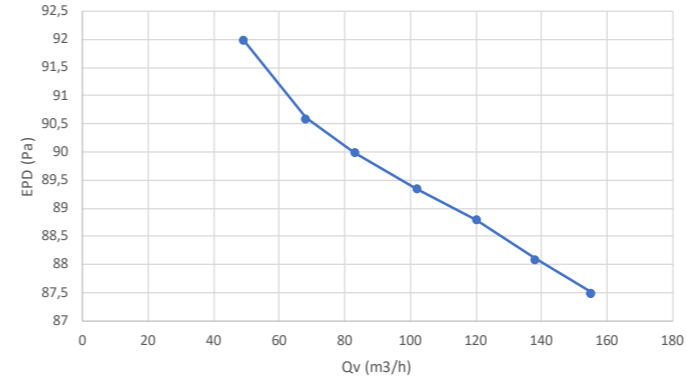
RECOVERY EFFICIENCY (HRV)
XF2-20-ECS0HRxxx-xA0



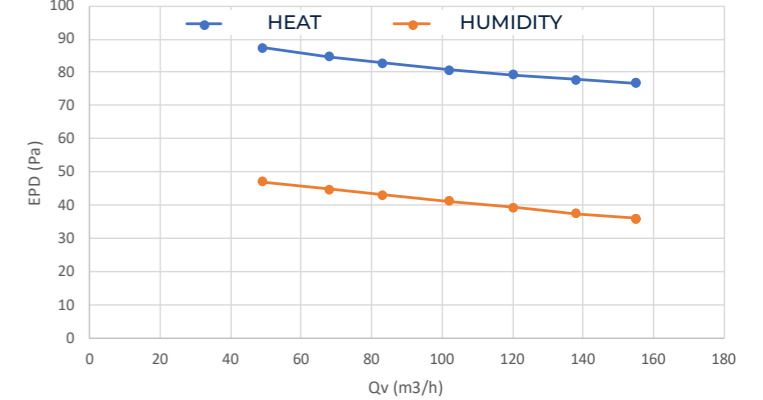
RECOVERY EFFICIENCY (ERV)
XF2-20-ECS0ERxxx-xA0



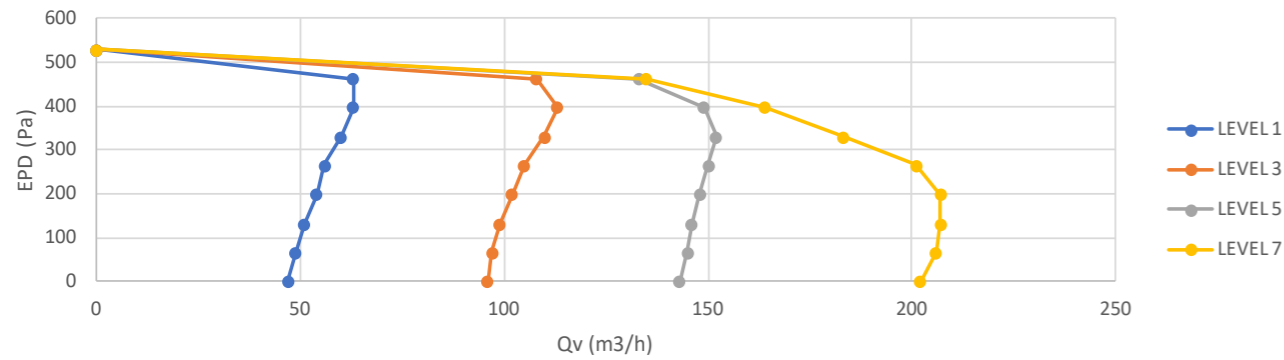
RECOVERY EFFICIENCY (HRV)
XF2-20-ECS0HRxxx-xA0



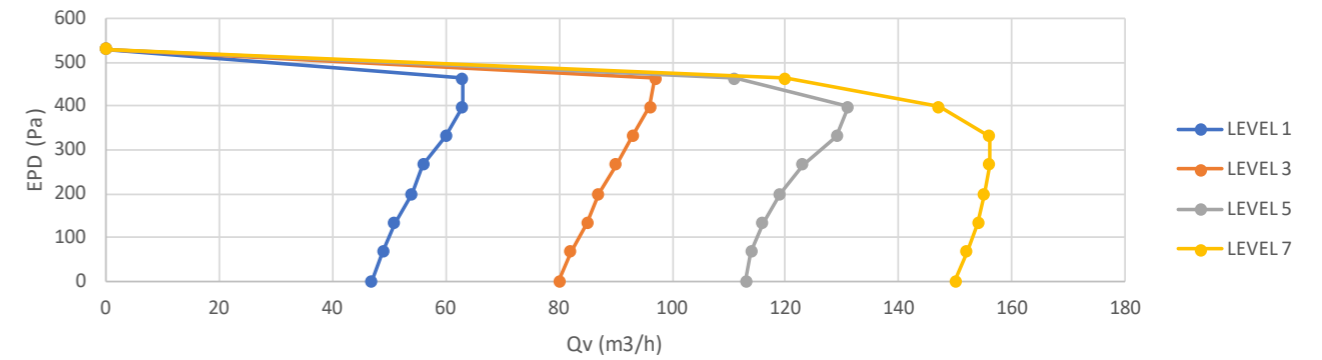
RECOVERY EFFICIENCY (ERV)
XF2-20-ECS0ERxxx-xA0



AIRFLOW / PRESSURE CHARACTERISTIC (HRV, ERV)



AIRFLOW / PRESSURE CHARACTERISTIC (HRV, ERV)



Acoustic data
Xflat200
setting 200m³/h

AIRFLOW LEVEL (m ³)	XFLAT 200 (HRV, ERV)								SOUND POWER LEVEL	SOUND PRESSURE LEVEL		
	XF2-20-ECS0xRXXX-XA0									(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	
48	dB	-	11,9	23,3	23,5	22	14,8	12,9	12,3	31,4	<20	<20
123	dB	17,6	27,3	36,3	31,9	40	30,6	24,5	15,4	45,7	32,3	24,4
207	dB	30,5	38,7	47,7	42,7	47,5	45,8	40	31	56,5	43	35,1

AIRFLOW CHANNEL	XFLAT 200 (HRV, ERV)								SOUND POWER LEVEL	
	XF2-20-ECS0xRXXX-XA0									
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]	
ODA	dB	37,1	47	42,6	40,8	38,7	29,5	25,3	19,8	57,6
SUP	dB	50	54,3	59,5	58,9	55,4	58,1	54,4	50,8	70,1
ETA	dB	36	44,6	48	41,4	39,4	33,4	26,2	21	57,7
EHA	dB	52,1	56,1	58,9	55,9	58,2	56,7	53,9	51	70,1

Acoustic data
Xflat200
setting 150m³/h

AIRFLOW LEVEL (m ³)	XFLAT 200 (HRV, ERV)								SOUND POWER LEVEL	SOUND PRESSURE LEVEL		
	XF2-20-ECS0xRXXX-XA0									(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	
49	dB	-	12,1	23,6	23,8	22,3	15	13,2	12,5	31,7	<20	<20
102	dB	17,3	26,5	34,1	30,4	38,6	28,5	22,4	14,4	44	30,6	22,7
155	dB	26,5	35,5	44,3	39,3	44,1	40,3	35,4	25,9	52,7	39,3	31,4

AIRFLOW CHANNEL	XFLAT 200 (HRV, ERV)								SOUND POWER LEVEL	
	XF2-20-ECS0xRXXX-XA0									
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LWA [dB (A)]	
ODA	dB	32,4	43,8	39,2	37,5	35,9	25,4	19,8	15,8	54,9
SUP	dB	47,9	51,6	56,4	55,1	52	51,9	49,7	45,7	66,8
ETA	dB	32,4	42	45,1	37,8	37	28,8	21,7	16,5	55
EHA	dB	48,1	52,5	56,1	52,9	55,2	51,4	50,3	46,4	67,2

Accessories
Xflat200

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	F9 - ePM1 85 % ISO 16890
XF-020-FILTER-M5	XF-020-FILTER-F7	XF-020-FILTER-F9



	AQ5 SENSORS			
	Wall mounted - wired	Wall in-built	Duct	Wall mounted - wireless
CO₂	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
CO₂ + 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)



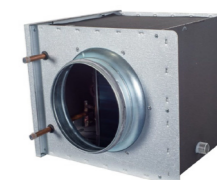
Duct pre-heater
EOKO2-160-0,8-1-B

Duct pre-heater - external duct air preheater with a power of 0,8 kW as additional anti-freeze protection



Duct after-heater
EOKO2-160-0,8-1-D

Duct after-heater - external duct afterheater with a power of 0,8 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

020

Airflow
200 m³/h

S0

Without
afterheater

X

Without
preheater

W

WiFi
Controls

P

With
preheater

E

Essential
Controls

A

Standard
color

XF2-020-EC S0 HR X RC-0 A 0

XF2

Xflat 200 unit

EC

Ventilator
with EC motor

HR

Heat
recovery

ER

Heat and
moisture/
Enthalpy recovery

R

Right execution
(standard)

L

Left
execution

U

Universal
execution

0

Electronic
bypass

1

Mechanical
bypass

0

Reserve



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!

