XHOUSE 250

Technical datasheet

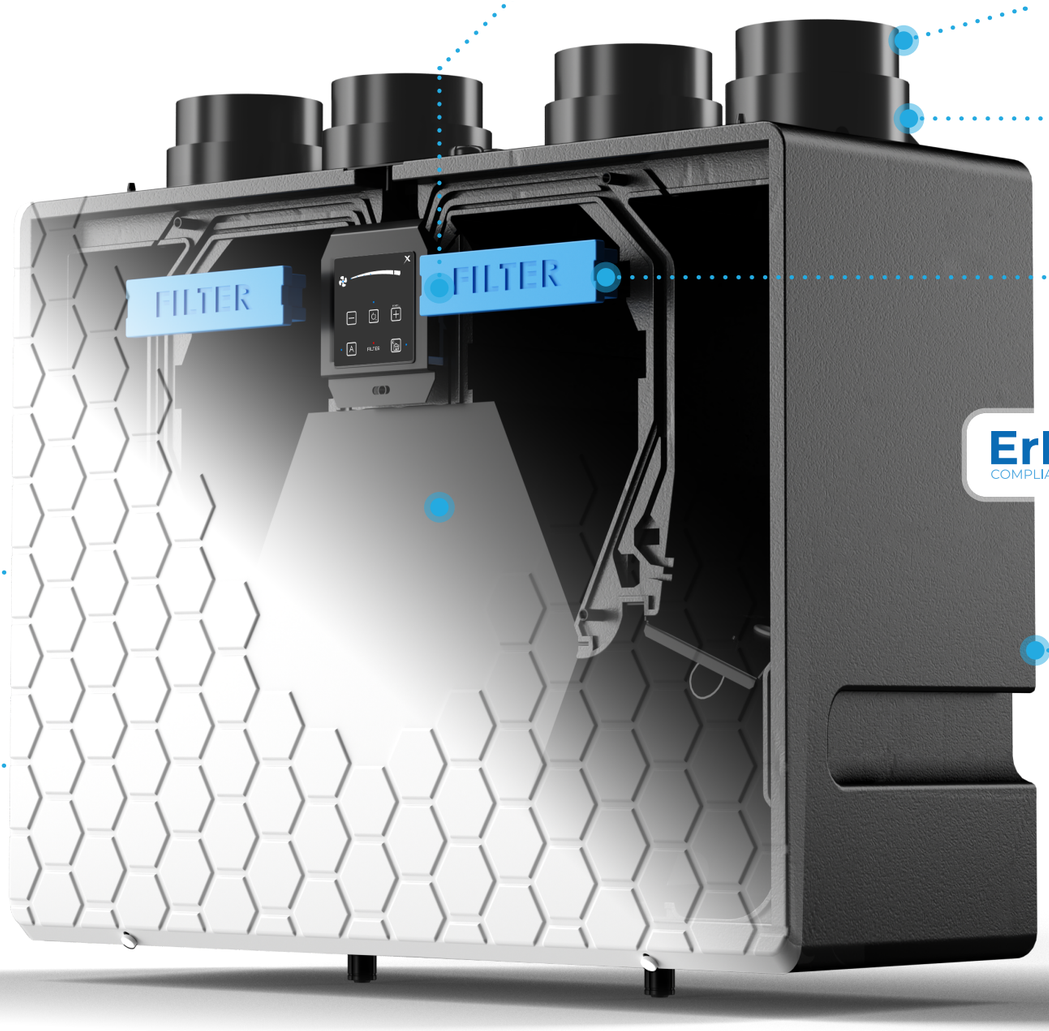
MADE IN CZECH REPUBLIC

Xvent

www.xvent.cz

For apartments and smaller houses
Heat and moisture recovery exchanger
Easy installation
Integrated preheater
Constant flow control

When developing the **Xhouse heat recovery unit** we focused on the maximum utility value of the product for use in apartments and family houses. The unit will fully adapt to your problematic whether it is high moisture or the need for controlled air exchange - simply for feeling good in your home.



Built-in regulation is used to control airflow and other functionalities.

Integrated preheater consisting of safe TPC elements and automatic power regulation.

Insulated spigots for simple and safe connection of air ducts.

Long-life filters filtration class **M5 (alt. F7)**

The **casing** is made of black **EPP** (expanded polypropylene).

Unit stands out for its low weight. **Only 16 kg**

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

The front cover is removable and secured with screws on the bottom of the unit.

01
Possibility to connect **external afterheater (up to 1 kW)**. The unit will only allow afterheater when it is in operation. **After-cooling function** after unit shut-down (3 min).

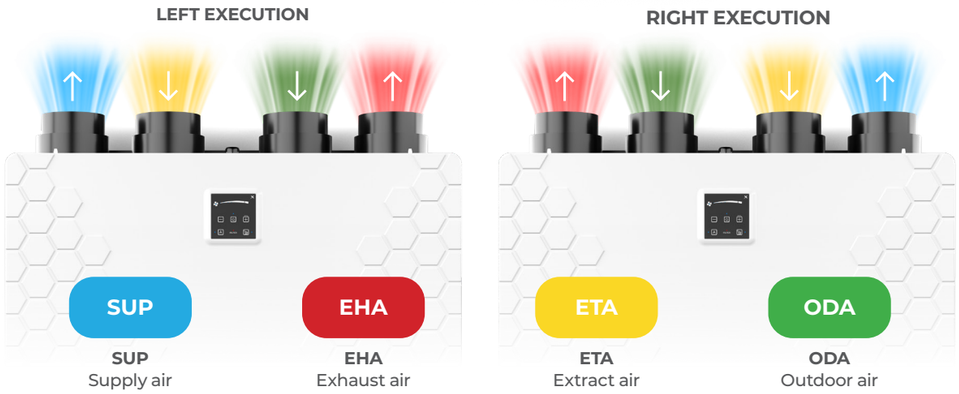
02
The controls offer the **option of remote control via Wi-Fi module** or **Smart Home systems (via Modbus RTU)**.

03
Thanks to the **energy class A**, Xhouse qualifies for subsidy programs.

04
Possibility to connect **CO_2 and RH sensor**.

05
Possibility of **electronic or mechanical** bypass.

AIRFLOW DIAGRAM



Technical data
Xhouse 250

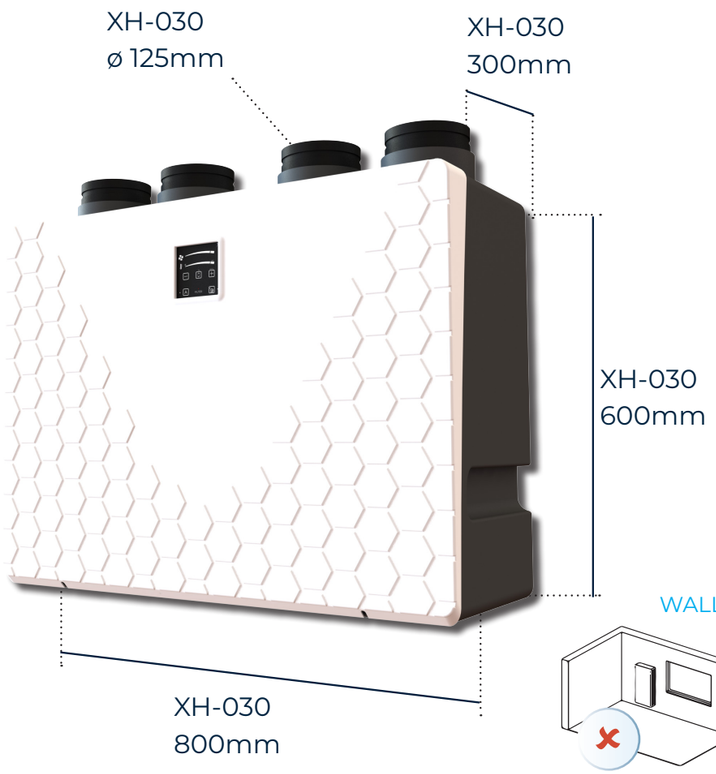
		VERSIONS WITH **ELECTRONIC** BYPASS				VERSIONS WITH **MECHANICAL** BYPASS			
		XH2-030-ECS0HR XXS-0A0	XH2-030-ECS0ER XXS-0A0	XH2-030-ECS0HR PXS-0A0	XH2-030-ECS0ER PXS-0A0	XH2-030-ECS0HR XXS-1A0	XH2-030-ECS0ER XXS-1A0	XH2-030-ECS0HR PXS-1A0	XH2-030-ECS0ER PXS-1A0
HEAT RECOVERY EXCHANGER TYPE		**HRV**	**ERV**	**HRV**	**ERV**	**HRV**	**ERV**	**HRV**	**ERV**
PREHEATER (INTERNAL)		—	—	electric (0.6 kW)	electric (0.6 kW)	—	—	electric (0.6 kW)	electric (0.6 kW)
NOMINAL AIRFLOW (EPD 200 Pa)	m³/h	250							
NOISE LEVEL *	dB(A)	37.5				37.8			
WEIGHT **	kg	16.1	16.6	17.2	17.7	16	16.5	17	17.5
POWER SUPPLY	V/Hz	1 ~ 230 / 50–60							
NOM. UNIT POWER CONSUMPTION	W	212	212	812	812	212	212	812	812
EFFICIENCY EN 13141-7 HEAT / MOISTURE ***	%	89.2 / —	76.6 / 54	89.2 / —	76.6 / 54	88.3 / —	75.1 / 50	88.3 / —	75.1 / 50
IP RANGE	IP	20							
ENERGY EFFICIENCY CLASS (SEC)	–	COLD CLIMATE **A+** / MID CLIMATE **A** / WARM CLIMATE **E**							

* Acoustic pressure at (L_m) 3 m (Q_2) - 250 m³/h - 120 Pa ** Unit weight without packaging *** Efficiency stated at 70% of nominal flow rate according to EN 308

Dimensions
Xhouse 250

	Product code	Weight Brutto	Weight Netto	Package size (W x L x H)*	Pieces on EUR pallet
		kg		mm	max. pcs
Xhouse 250	XH2-030-ECS0**HR**XAS-XA0	18,1	16,1	880 x 740 x 360	**5**
	XH2-030-ECS0**ER**XAS-XA0	18,6	16,6	880 x 740 x 360	**5**

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

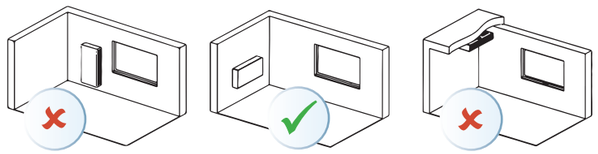


Xhouse has to be operated in indoor and dry space with temperature between +5°C up to +40°C.

The unit can be **installed only in vertical position.** When breaking the security distances the unit can operate unproperly and the fans might come damaged, the noise level might increase or the service access might get blocked off.

Xhouse equipped with heat exchanger (HRV) may produce condensate and so it is necessary to connect condensate outlets!

WALL VERTICALINSTALLATION ONLY!



Accessories
Xhouse 250

SPARE FILTERS	
M5 - Coarse 90% ISO 16890	**F7 - ePM1 50 % ISO 16890**
XH-030-FILTER-M5	XH-030-FILTER-F7

CO_2 sensor
NL-ECO-CO2

RH sensor
NL-ECO-RH

CO_2 / RH room sensor - after switching the unit to automatic mode, the air flow is regulated based on the CO_2 / RH concentration in the room.

CO_2 + RH sensor
NLII-CO2+RH

CO2 + RH combined room sensor - after switching the unit to automatic mode, the air flow is regulated based on the concentration of relative humidity or CO2 in the room - it always records a highest value.

CO_2 duct sensor
NL-ECO-CO2-D-P1I1

CO_2 duct sensor - after switching the unit to automatic mode, the air flow is regulated based on the CO_2 concentration in the duct.

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 concentration in the room - it always records a higher value.

AQS Extension
PRO-SUM-08

AQS extension - allows to connect up to 8 pcs of air quality sensors

Wi-Fi module
WIFI-MODULE-V01

Wi-Fi module - possibility to control the unit via web-application

Duct after-heater
XH-AH-125-0,9-1F

Duct afterheater - external ducted air reheater with a power of 900W with setting of the desired temperature - with an external temperature sensor.

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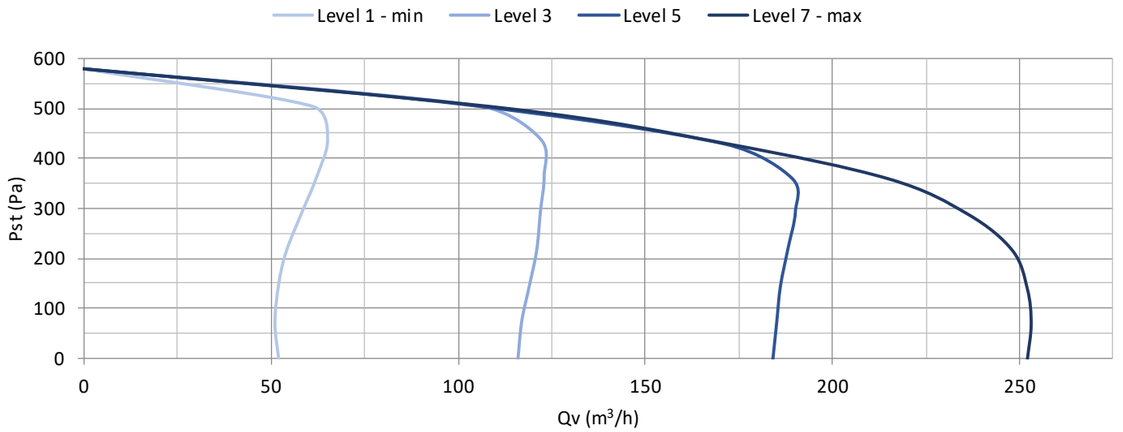
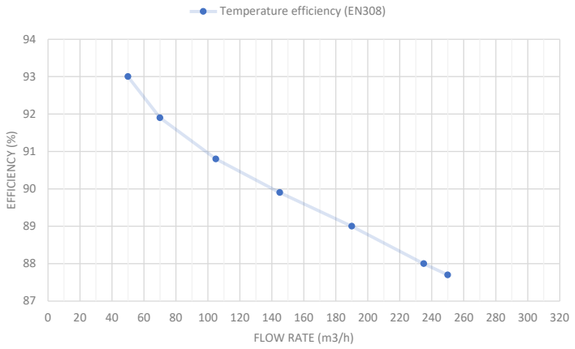
	ELECTRONIC BYPASS + HEAT EXCHANGER (HRV)				ELECTRONIC BYPASS + ENTHALPIC EXCHANGER (ERV)				
	XH2-030-ECS0**HR**xAS-**0**A0				XH2-030-ECS0**ER**xAS-**0**A0				
SPEED LEVEL NO.	FLOW RATE (m3/h)	TEMPE-RATURE % EFFICIENCY (EN308)	CURRENT (A)	POWER SUPPLY (W)	FLOW RATE (m3/h)	TEMPE-RATURE % EFFICIENCY (EN308)	HUMIDITY EFFICIENCY (EN308)	CURRENT (A)	POWER SUPPLY (W)
1.	**50**	93	0,1	9	**45**	91,3	50	0,1	8
2.	**70**	91,9	0,13	13	**73**	88,5	48	0,14	14
3.	**105**	90,8	0,2	25	**105**	85,4	45,5	0,21	25
4.	**145**	89,9	0,35	47	**145**	82,3	42,8	0,37	50
5.	**190**	89	0,65	93	**185**	80	40,3	0,69	94
6.	**235**	88	1,29	181	**235**	77,7	37,4	1,3	182
7. - NOMINAL / BOOST*	**250**	87,7	1,48	210	**250**	77,1	36,5	1,49	211

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

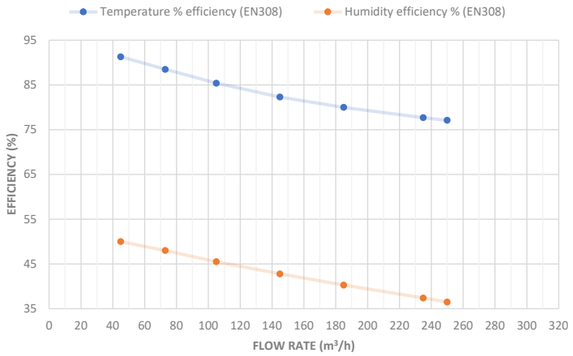
AIRFLOW / PRESSURE CHARACTERISTIC (ERV)
XH2-030-ECS0**ER**XAS-**0**A0



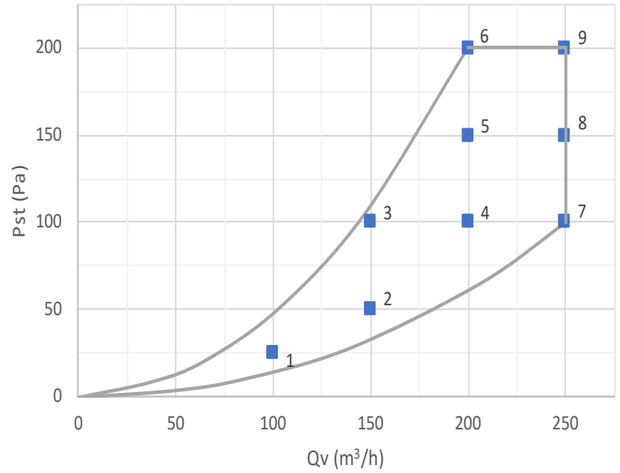
RECOVERY EFFICIENCY (HRV)
XH2-030-ECS0**HR**xxS-**0**A0



RECOVERY EFFICIENCY (ERV)
XH2-030-ECS0**ER**xxS-**0**A0

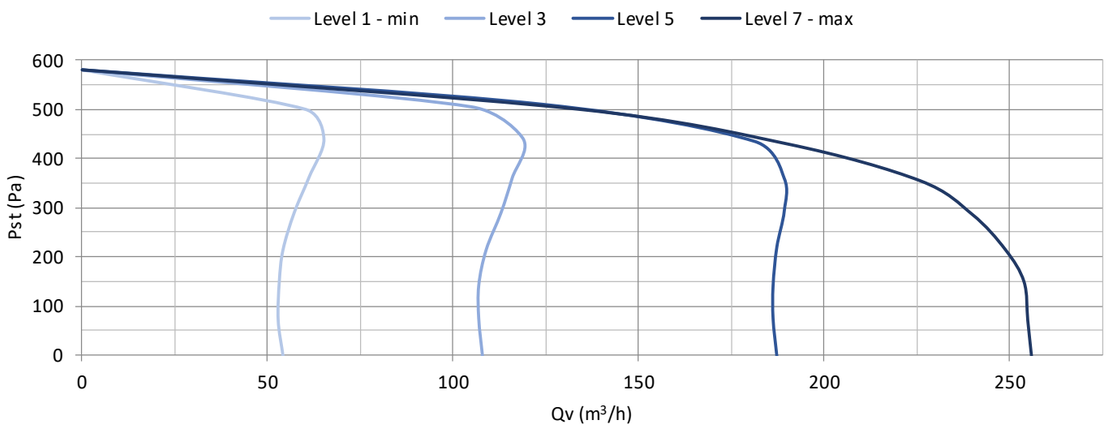


SPECIFIC FAN POWER (HRV)
XH2-030-ECS0**HR**xxS-0A0

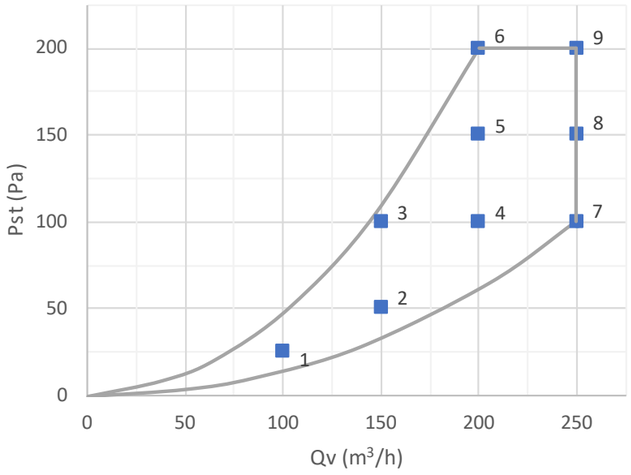


SFP	m3/h	Pa	W	W/m3/h
1	100	25	19	**0,19**
2	150	50	47	**0,31**
3	150	100	55	**0,37**
4	200	100	103	**0,52**
5	200	150	118	**0,59**
6	200	200	138	**0,69**
7	250	100	174	**0,70**
8	250	150	193	**0,77**
9	250	200	208	**0,83**

AIRFLOW / PRESSURE CHARACTERISTIC (HRV)
XH2-030-ECS0**HR**XAS-**0**A0



SPECIFIC FAN POWER (ERV)
XH2-030-ECS0**ER**xxS-0A0



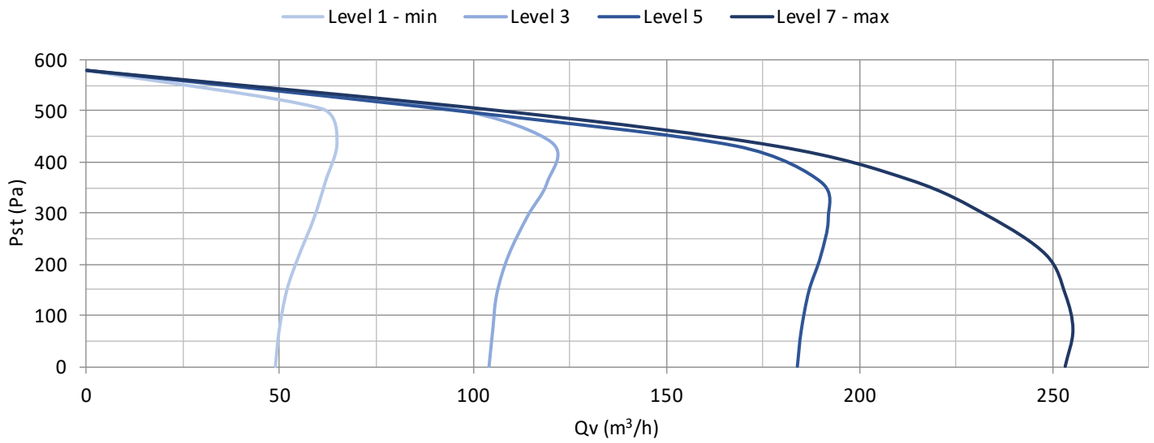
SFP	m3/h	Pa	W	W/m3/h
1	100	25	20	**0,20**
2	150	50	48	**0,32**
3	150	100	55	**0,37**
4	200	100	104	**0,52**
5	200	150	119	**0,60**
6	200	200	139	**0,70**
7	250	100	175	**0,70**
8	250	150	195	**0,78**
9	250	200	209	**0,84**

Technical data
Xhouse250

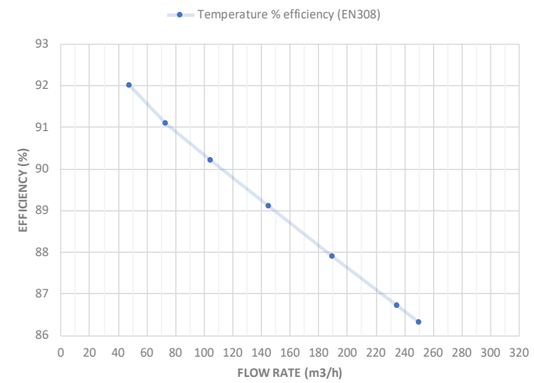
SPEED LEVEL NO.	MECHANICAL BYPASS + HEAT EXCHANGER (HRV) XH2-030-ECS0**HR**xAS-**1**A0				MECHANICAL BYPASS + ENTHALPIC EXCHANGER (ERV) XH2-030-ECS0**ER**xAS-**1**A0				
	FLOW RATE (m3/h)	TEMPE-RATURE % EFFICIENCY (EN308)	CURRENT (A)	POWER SUPPLY (W)	FLOW RATE (m3/h)	TEMPE-RATURE % EFFICIENCY (EN308)	HUMIDITY EFFICIENCY (EN308)	CURRENT (A)	POWER SUPPLY (W)
1.	**48**	92	0,1	9	**45**	89,8	50	0,11	9
2.	**73**	91,1	0,13	14	**73**	86,6	46,5	0,16	15
3.	**105**	90,2	0,21	26	**105**	83,3	43,7	0,21	25
4.	**145**	89,1	0,37	50	**145**	80,2	40,5	0,38	50
5.	**190**	87,9	0,7	98	**185**	77,8	37,6	0,69	95
6.	**235**	86,7	1,32	183	**235**	75,6	34,2	1,31	183
7. - NOMINAL / BOOST*	**250**	86,3	1,52	211	**250**	75	33,2	1,54	212

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

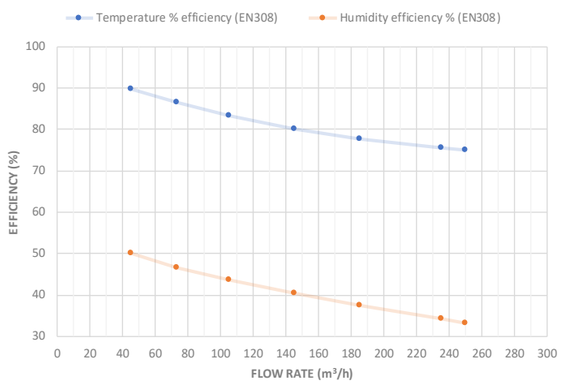
AIRFLOW / PRESSURE CHARACTERISTIC (ERV)
XH2-030-ECS0**ER**XAS-**1**A0



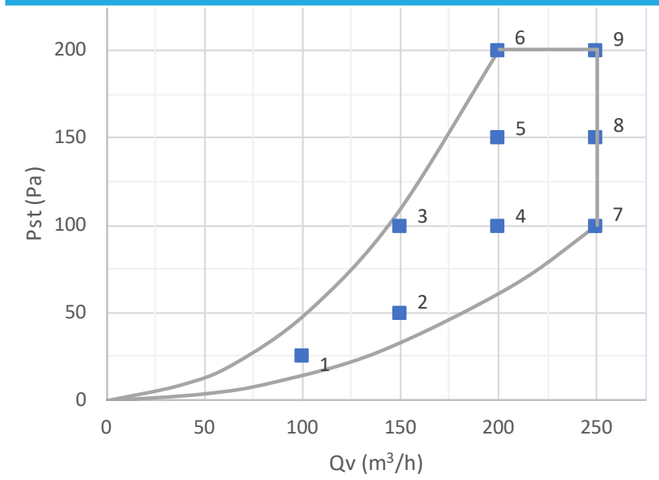
RECOVERY EFFICIENCY (HRV)
XH2-030-ECS0**HR**xxS-1A0



RECOVERY EFFICIENCY (ERV)
XH2-030-ECS0**ER**xxS-1A0

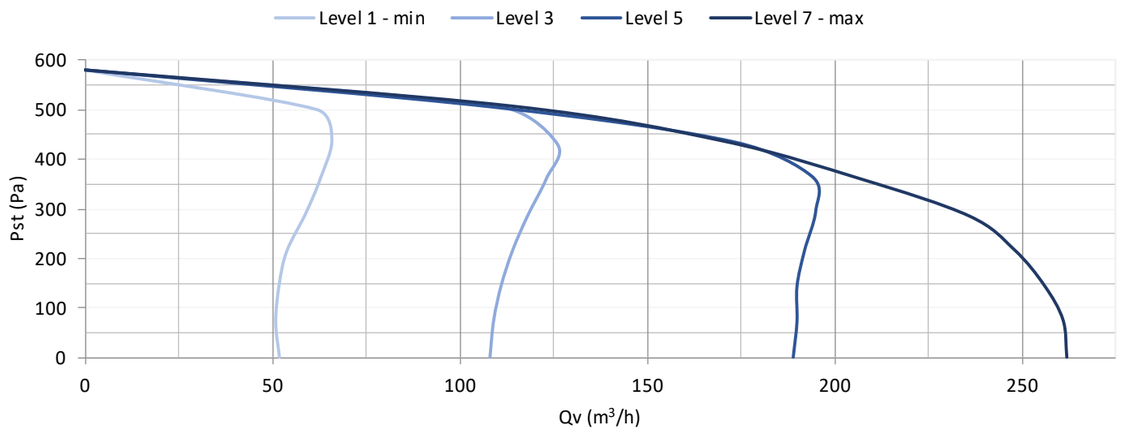


SPECIFIC FAN POWER (HRV)
XH2-030-ECS0**HR**xxS-**1**A0

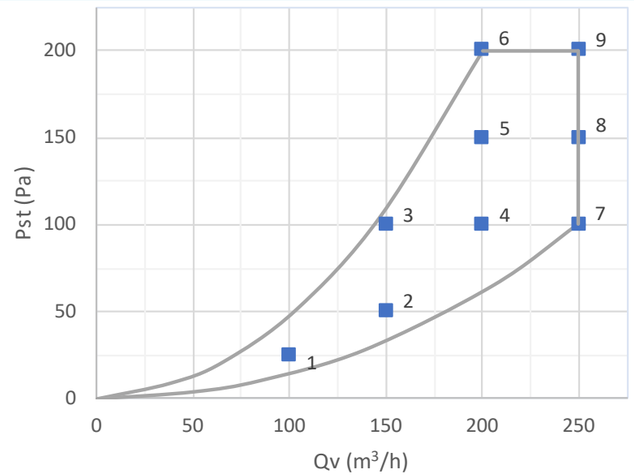


SFP	m3/h	Pa	W	W/m3/h
1	100	25	19	**0,19**
2	150	50	47	**0,31**
3	150	100	55	**0,37**
4	200	100	104	**0,52**
5	200	150	119	**0,59**
6	200	200	138	**0,69**
7	250	100	175	**0,70**
8	250	150	194	**0,78**
9	250	200	209	**0,83**

AIRFLOW / PRESSURE CHARACTERISTIC (HRV)
XH2-030-ECS0**HR**XAS-**1**A0



SPECIFIC FAN POWER (ERV)
XH2-030-ECS0**ER**xxS-**1**A0



SFP	m3/h	Pa	W	W/m3/h
1	100	25	20	**0,20**
2	150	50	48	**0,32**
3	150	100	56	**0,37**
4	200	100	105	**0,52**
5	200	150	120	**0,60**
6	200	200	139	**0,70**
7	250	100	176	**0,70**
8	250	150	195	**0,78**
9	250	200	210	**0,84**

Acoustic data
Xhouse250

AIRFLOW LEVEL (m³)		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	SOUND POWER LEVEL LWA [dB (A)]	SOUND PRESSURE LEVEL (in the open field on the reflection plane) LPA (dB) in 1,5m	LPA (dB) in 3m
		ELECTRONIC BYPASS + **HEAT** EXCHANGER **(HRV)** XH2-030-ECS0**HR**xAS-0A0 (unit radiating in the interior)										
45	**dB**	-	12	23,4	23,6	22,1	14,9	13	12,4	**31,5**	**<20**	**<20**
145	**dB**	25,4	32,5	42,9	39,9	44,6	37,4	32,6	23,2	**48,3**	**34,9**	**27**
250	**dB**	32,9	41,1	50,1	45,1	49,9	48,2	42,4	33,4	**58,9**	**45,4**	**37,5**
		ELECTRONIC BYPASS + **ENTHALPY** EXCHANGER **(ERV)** XH2-030-ECS0**ER**xAS-0A0 (unit radiating in the interior)										
45	**dB**	-	11,8	23,2	23,4	21,9	14,6	12,8	12,1	**31,3**	**<20**	**<20**
145	**dB**	25,5	32,6	43	40	44,7	37,5	32,7	23,3	**48,4**	**35**	**27,1**
250	**dB**	32,9	41,2	50,1	45,1	50	48,2	42,4	33,4	**58,9**	**45,4**	**37,5**

AIRFLOW CHANNEL		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	SOUND POWER LEVEL LWA [dB (A)]
		ELECTRONIC BYPASS + **HEAT** EXCHANGER **(HRV)** XH2-030-ECS0**HR**xAS-0A0 (unit radiating in the interior)								
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**
		ELECTRONIC BYPASS + **ENTHALPIC** EXCHANGER **(ERV)** XH2-030-ECS0**ER**xAS-0A0 (unit radiating in the interior)								
ODA	**dB**	38,9	48,9	44,4	42,6	40,5	31,3	27,1	21,7	**59,4**
SUP	**dB**	45,9	50,1	55,3	54,7	51,2	54	50,2	46,7	**66**
ETA	**dB**	38,1	46,7	50,1	43,5	41,6	35,6	28,3	23,1	**59,8**
EHA	**dB**	48,9	52,9	55,8	52,8	55	53,5	50,8	47,8	**67**

Acoustic data
Xhouse250

AIRFLOW LEVEL (m³)		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	SOUND POWER LEVEL LWA [dB (A)]	SOUND PRESSURE LEVEL (in the open field on the reflection plane) LPA (dB) in 1,5m	LPA (dB) in 3m
		MECHANICAL BYPASS + **HEAT** EXCHANGER **(HRV)** XH2-030-ECS0**HR**xAS-1A0 (unit radiating in the interior)										
45	**dB**	-	12,1	23,5	23,7	22,2	15	13,1	12,5	**31,6**	**<20**	**<20**
145	**dB**	25,7	32,7	43,1	40,2	44,9	37,6	32,8	23,4	**48,6**	**35,1**	**27,2**
250	**dB**	33,2	41,4	50,4	45,4	50,2	48,5	42,7	33,7	**59,2**	**45,7**	**37,8**
		MECHANICAL BYPASS + **ENTHALPY** EXCHANGER **(ERV)** XH2-030-ECS0**ER**xAS-1A0 (unit radiating in the interior)										
45	**dB**	-	12,2	23,6	23,8	22,3	15,1	13,2	12,6	**31,7**	**<20**	**<20**
145	**dB**	25,7	32,8	43,2	40,2	44,9	37,7	32,9	23,5	**48,6**	**35,2**	**27,3**
250	**dB**	33,2	41,5	50,4	45,4	50,3	48,5	42,7	33,7	**59,2**	**45,7**	**37,8**

AIRFLOW CHANNEL		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	SOUND POWER LEVEL LWA [dB (A)]
		MECHANICAL BYPASS + **HEAT** EXCHANGER **(HRV)** XH2-030-ECS0**HR**xAS-1A0 (unit radiating in the interior)								
ODA	**dB**	39,2	49,1	44,6	42,8	40,7	31,5	27,3	21,9	**59,7**
SUP	**dB**	46,1	50,3	55,5	54,9	51,4	54,2	50,4	46,9	**66,2**
ETA	**dB**	38,3	46,9	50,4	43,7	41,8	35,8	28,5	23,4	**60**
EHA	**dB**	49,1	53,1	56	53	55,2	53,8	51	48	**67,2**
		MECHANICAL BYPASS + **ENTHALPIC** EXCHANGER **(ERV)** XH2-030-ECS0**ER**xAS-1A0 (unit radiating in the interior)								
ODA	**dB**	39,2	49,1	44,7	42,9	40,8	31,6	27,4	22	**59,7**
SUP	**dB**	46,2	50,4	55,6	55	51,5	54,3	50,5	47	**66,2**
ETA	**dB**	38,4	47	50,4	43,8	41,8	35,8	28,6	23,4	**60,1**
EHA	**dB**	49,2	53,2	56,1	53,1	55,3	53,8	51	48,1	**67,2**

Coding
Xhouse 250

XH2 Xhouse unit

EC Ventilator with EC motor

HR Heat recovery

ER Heat and moisture recovery

A Right execution (standard)

B Left execution

A Standard color

XH2-030-EC S0 HR X A S - 0 A 0

030 Airflow 300 m³/h

S0 Without afterheater

X Without preheater

P With preheater

0 Standard controls

0 Electronic bypass

1 Mechanical bypass

0 Reserve

Xvent | Beauty in simplicity

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