

# TOPVEX SX/C06 HWH-L IEKĀRTA

Artikula nr. 29651

Document type: **Produkta karte**

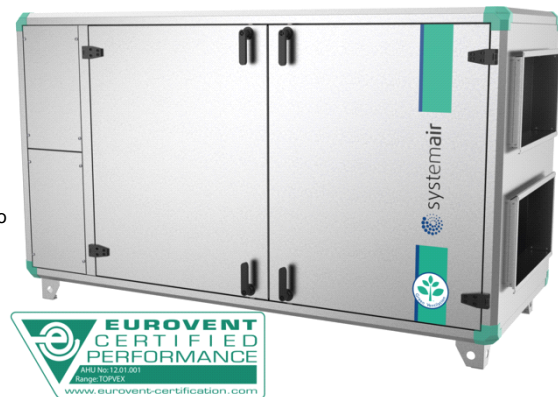
Document date: **2017-05-20**

Generated by: **Systemair on-line katalogs**



## Apraksts

- **High efficient counter-flow heat exchanger**
  - > 80% dry efficiency (EN 308) at nominal airflow
  - No mixing of extract and supply air
  - Automatic summer operating
  - Cool recovering
- **Low energy use**
  - Energy efficient plug fans with EC motors
  - 100% By-pass of heat exchanger secures lowest possible internal pressure drop during the warm season.
  - A damper closing off the exchanger during the warm period ensures that there is no undesirable heat recovering.
- **Integrated/pre-programmed control system**
  - Efficient energy saving functions
  - Built in week program with a year-based holiday schedule
- **Constant airflow- or duct pressure- control (accessories)**
- **Large inspection doors for easy maintenance**
- **Easy access, electrical box facilitates commissioning and service**
- **Manufactured in Aluzinc plated sheet metal (AZ185)**
  - Corrosive class C4 (Industrial and coastal areas with moderate salinity)
  - AZ185 sheet metal has more than 50 years of technical lifetime
- **Factory tested**



Topvex SX/C is a series of efficient ventilation units designed for apartment houses, offices, shops, schools, daycares centre or similar premises. Units with Counter-flow exchangers are many times used in applications where there is a demand to separate supply air from exhaust air and where high heat recovery efficiency is required.

Topvex SX/C is, with its low energy use and high efficient energy recovering, designed to fulfill coming future energy requirements.

The units casing is made up from double-skinned aluzinc sheet metal, AZ 185, with internal mineral sound/thermal insulation.

The separate electrical box with all cable connections collected at one place facilitates commissioning and service.

The built-in and pre-configured control system simplifies the installation and commissioning of the unit. Topvex SX/C has a user friendly control system. With clear text (21 languages eligible) and a logical menu structure it is quick to learn. A startup wizard secures that necessary settings will not be forgotten. With the integrated control system it is possible to supervise/control the fan speed, air temperatures and weekly operating time. Topvex SX/C has also other energy saving functions like free cooling, cool recovering, and season related temperatures and fan controlling.

CAV or VAV airflow control is available as accessories.

Topvex SX/C is as standard equipped with the following communication possibilities: Built-in web, Cloud, Modbus, BACnet and Exoline.

E-tool configuration tool.

E tool© is a PC-based configuration software with graphical user interface. The program gives you an excellent overview of the Corrigo E settings.

Using E tool©, all settings can be made on the computer and downloaded into the controller. An infinite number of configurations can be stored in the computer memory for later use.

E tool© can be downloaded free of charge from: [www.regincontrols.com](http://www.regincontrols.com)

The functions and functionality in Topvex SX/C, and the wide range of accessories, gives you all that are needed to create an indoor environment with the highest comfort and to the lowest operating costs. Save the global environment by using Topvex SX/C.

### Ordering code.

- **Model: SX/C03, SX/C04 and SX/C06.**

- **Heating coil:**

- EL** (Electric).
- HWL** (Hot water coil-low power).
- HWH** (Hot water coil-high power).
- None** (No heater).

- **Right or Left model:** **R** (Right), **L** (Left). The side where the supply air is located when viewed from the access side.

- **Airflow control (accessories):** **CAV** (Constant air volume).  
**VAV** (Variable air volume = constant duct pressure control).

## Tehniskie rādītāji

Vienība

Frekvence	50	Hz
Svars	395	kg
Drošinātājs	3 x 10	A
Aizsardzības klase	IP23	IP
Gaisa plūsmas diapazons	662-3312	m³/h
Spriegums	400	V
Fāze	3	~

#### Gaisa pieplūdes ventilators

Spriegums	400	V
Fāze	3	~
Input power (P1)	890	W

#### Gaisa pieplūdes ventilators

Spriegums	400	V
Fāze	3	~
Input power (P1)	890	W

#### Gaisa pieplūdes filtrs

Filtrs, pieplūdei	F7
-------------------	----

#### Gaisa pieplūdes filtrs

Filtrs, nosūcei	M5
-----------------	----

#### Siltummainis

Siltummaiņa tips	pretplūsmas siltummainis
------------------	-----------------------------

#### Sildītājs

Apsildes tips	Ūdens coils
---------------	-------------

#### Citi

Mounting type	horizontālās iekārtas
Supply side	Kreisā

#### Enerģijas klase

ErP ready	ErP 2016/ErP 2018
-----------	-------------------

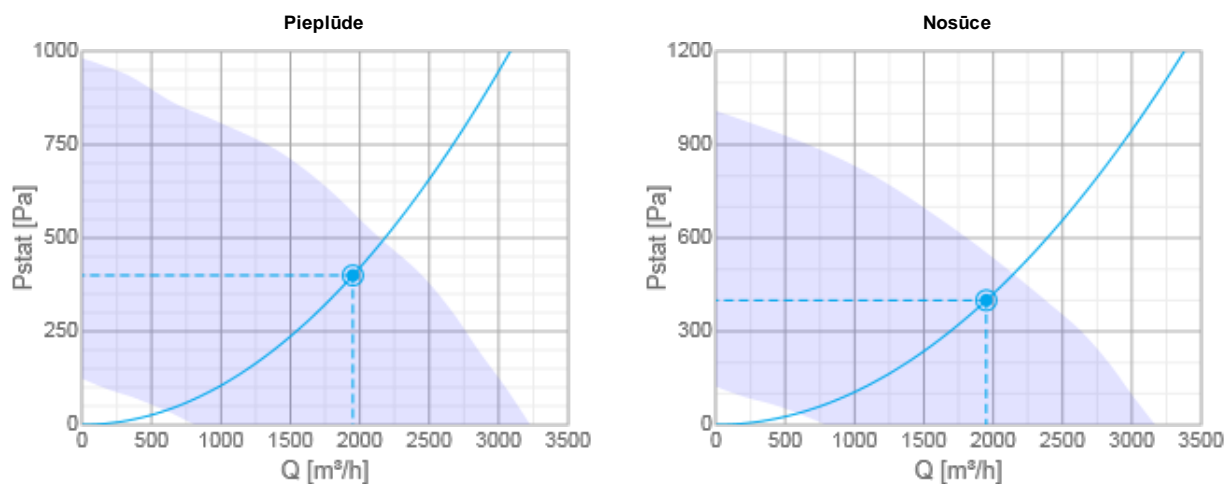
## Eco design

Trade name	Systemair	
Product name	Topvex SX/C06 HWH-L	
ErP compliance	2018	
Unit category	NRVU	
Unit type	BVU	
Drive	Intergated VSD	
Heat recovery type	Regenerative	
Temperature ratio	84,2	%
qv nom	2160	m³/h
P nom	1100	W

SFPint	1093	W/ (m³/s)
Face velocity	1,25	m/s
Ps nom	200	Pa
Ps int. Supply	290	Pa
Ps int. Extract	300	Pa
Supply Fan efficiency	53,5	%
Extract Fan efficiency	54,5	%
External Leakage	2	%
Internal Leakage	1	%
Filter energy performance	1609	W
Sound power	53	dB(A)

## Diagrammas

### Diagrammas



Diagrams and calculations are made for the performance with clean filters.

### Lietotājs

Mērvienība	Pieplūde	Nosūce
Vajadzīgā gaisa plūsma	1950	1950 m³/h
Darba gaisa plūsma	1950	1950 m³/h
Neieciešamais ārējais spiediens	400	400 Pa
Darba gaisa spiediens	400	400 Pa
Jauda	666	650 W
Ātrums	2428	2451 Apgr./min.
SFP tīrīt filtrus	2,43	kW/m³/s
Pieplūdes gaisa temperatūra	20	°C

Trokšņa jaudas līmenis		63	125	250	500	1k	2k	4k	8k	Kop.
Pieplūde	dB(A)	51	57	69	70	74	71	65	58	78
Āra	dB(A)	39	49	58	53	52	48	41	36	60
Nosūce	dB(A)	53	62	66	73	74	70	65	57	78
Nosūce	dB(A)	49	51	56	55	51	45	38	32	60
Apkārtejs	dB(A)	37	51	54	46	45	44	35	31	57

Troksņa spiediena līmenis (reverberant field)				Kop.
Apkārtejs	(-7 dB)	dB(A)	20m <sup>2</sup> (Sabin)	50

Siltuma rekuperācija	Pieplūde	Nosūce
Ieplūdes gaisa temperatūra	-22,3	20 °C
Izplūdes gaisa temperatūra	16	-9 °C
Ieplūdes gaisa mitrums	90	40 %
Izplūdes gaisa mitrums	4	100 %
Gaisa spiediena zudumi	117	161 Pa
Condensate	0,08	l/min
Pārvietotā jauda	25,2	kW
Temperatūras efektivitāte	91	%
Sausuma efektivitāte atbilstoši EN 308	81	%
Siltummaiņa tips	Counter flow	

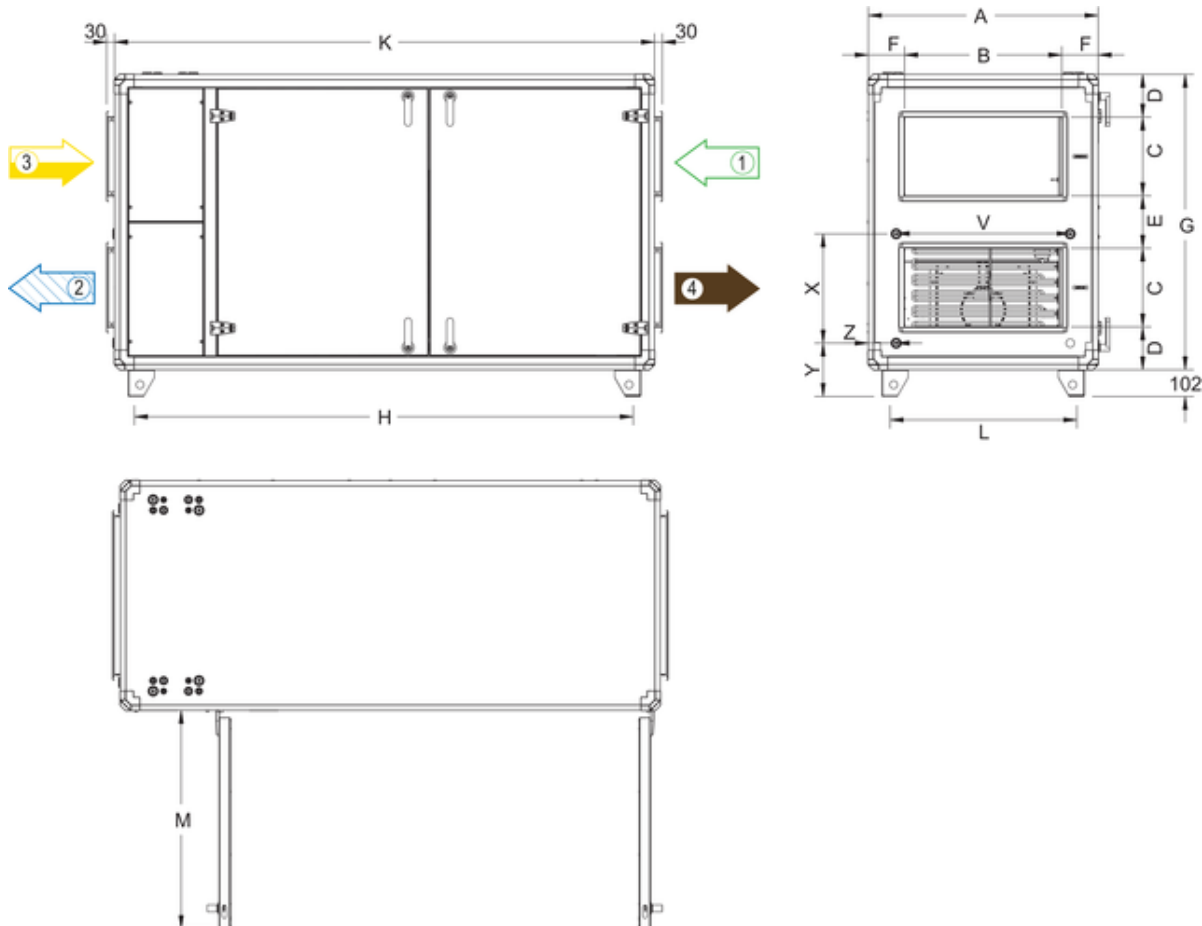
Aprēķināts pie āra gaisa +5°C, izplūdes gaisa +25°C un 27% relatīvo mitrumu

Ūdens coils	
Gaisa temperatūra iekšā/ārā	16/20 °C
Gaisa mitrums iekšā/ārā	4/3 %
Gaisa spiediena zudumi	10,7 Pa
Ūdens temperatūra (ieejošā/izejošā)	70/21 °C
Ūdens plūsma	0,01192 l/s
Ūdens ātrums	0,0418 m/s
Ūdens spiediena zudumi	0,06424 kPa
Capacity	2,4 kW
Ieteicamā Kv vērtība	1,69
Savienojuma izmērs iekšā/ārā	1/2" / 1/2"

Water coil calculations is made with air density 1,2 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

Filtri	Pieplūde	Nosūce
Sākotnējais spiediena kritums	58,4	27,2 Pa
Dimensioning pressure drop	119	84,8 Pa
Termināla spiediena kritums	179	143 Pa
Gaisa ātrums	1,13	1,13 m/s
Klase	F7	M5

## Izmēri



	A	B	C	D	E	F	G	H	K	L	M	V	X	Y	Z
Topvex SX/C06	877	600	300	235	342	138	1412	2187	2344	720	1120	664	560	203	106

- 1 Outdoor air
- 2 Supply air
- 3 Extract air
- 4 Exhaust air

## Piederumi

### Elektriskie piederumi

F-T120 Taimera rāmis (5137)  
 T 120 Taimers (5165)  
 RVAZ4 24A Piedziņa 0-10V (9862)  
 TG-UH/PT1000 Sensors (35203)  
 TG-R5/PT1000 Kanāla sensors (5404)  
 CO2 Pārveid. /CO2RT-R-D (6993)  
 VAV Spiediena kontrolieris (124197)  
 CAV Gaisa kontr. 0-2500Pa (127688)


### Piederumi


PGK 60-35-3-2,0 Dzesētājs (6612)  
 VBR 60-30-2 Sildītājs, ūdens (5466)  
 LDR 60-30 Klusinātājs (5072)  
 DS 60-30 Elastīgie savienojumi (1547)  
 EFD 60-30 Vārsts + 24V motors (6906)  
 DXRE 60-35-3-2,5 Dzesētājs (7956)  
 ZTV 15-1,0 2-c.vārsts (9823)  
 ZTR 15-1,6 3-c.vārsts (9673)  
 LDR-B 60-30 Klusinātājs (9240)  
 CTTG 400 Jumta starplika (27253)  
 Sildītājs RB60-30 EL (131043)  
 BFT SX/C06 F7 Filtrs (209921)  
 BFT SX/C06 M5 Filtrs (209922)  
 BFT SX/C06 G3 Filtrs (209923)


## Dokumentācija




Topvex\_SX\_C\_TX\_C\_Installation\_instruction\_131677\_CE\_EN\_A003.pdf (6,43MB)

 Topvex\_SX\_C-TX\_C\_Operating\_maintenance\_131678\_EN\_A002.pdf (5,32MB)

 Pre\_heater\_installation\_counter\_flow\_134351\_EN\_A002.pdf (3,24MB)

 WD Topvex SX\_C-TX\_C 06 400V 3N~ + Wiring chart.pdf (1,06MB)

 Eurovent Certification Diploma 2017\_02\_16 Systemair Topvex.pdf (1,78MB)

 SX\_C06.dxf (948,82kB)