



## Smarty 2X V 1.1

Art.no: AHU000110

Product category: Residential Counter-flow units

### Tekniske data

| EMBALLAGE                       |              |     |
|---------------------------------|--------------|-----|
| Vægt                            | 28           | kg  |
| Pakkeenhed                      | Stk.         |     |
| ELEKTRISKE DATA                 |              |     |
| Anbefalet kortslutningsafbryder | 10           | A   |
| Mærkeeffekt                     | 680          | W   |
| Mærkestrøm                      | 3.35         | A   |
| Faser                           | 1N~          | ~   |
| Spænding                        | 230          | V   |
| Frekvens                        | 50           | Hz  |
| TILLUFTSVENTILATOR              |              |     |
| Maks. effektforbrug             | 40           | W   |
| Maks. strøm                     | 0.35         | A   |
| Faser                           | 1N~          | ~   |
| Spænding                        | 230          | V   |
| Frekvens                        | 50           | Hz  |
| O/m                             | 4060         | O/m |
| Motortype                       | EC           |     |
| Effektivitetsklasse for motor   | IE4          |     |
| IP-klasse                       | IP54         |     |
| Vingetype                       | Bagudkrummet |     |
| Vingemateriale                  | Plastik      |     |

| TILLUFTSVENTILATOR               |                  |     |
|----------------------------------|------------------|-----|
| Kode for tilluftsventilator      | R3G 133 RA 07-17 |     |
| Ventilatorproducent              | ebm-papst        |     |
| FRALUFTSVENTILATOR               |                  |     |
| Maks. effektforbrug              | 40               | W   |
| Maks. strøm                      | 0.35             | A   |
| Faser                            | 1N~              | ~   |
| Spænding                         | 230              | V   |
| Frekvens                         | 50               | Hz  |
| O/m                              | 4060             | O/m |
| Motortype                        | EC               |     |
| Effektivitetsklasse for motor    | IE4              |     |
| IP-klasse                        | IP54             |     |
| Vingetype                        | Bagudkrummet     |     |
| Vingemateriale                   | Plastik          |     |
| Kode for fraluftsventilator      | R3G 133 RA 07-17 |     |
| VARMEFLADE/KØLEFLADE             |                  |     |
| Integreret varme/flade/køleflade | Ingen            |     |

ELEKTRISK  
FORVARMEFLADE

|                        |        |
|------------------------|--------|
| Faser                  | 1N~ ~  |
| Spænding               | 230 V  |
| Frekvens               | 50 Hz  |
| Maks. strøm            | 2.67 A |
| Manuel beskyttelse     | 50 °C  |
| Automatisk beskyttelse | 40 °C  |
| Maks. effektforbrug    | 600 W  |

## VARMEVEKSLER

|                                |                            |
|--------------------------------|----------------------------|
| Type varmeveksler              | Modstrømsveksler           |
| Undertype                      | Kondenserende              |
| Materiale                      | Plastik                    |
| Kode for varmeveksler          | RS 160/270                 |
| Type på bypass-spjæld          | Fuld                       |
| Styresignal                    | On/off                     |
| Drypbakke materiale            | Rustfrit stål              |
| Tilslutningssted for drypbakke | Bund                       |
| Aktivering af frostsikring     | Outdoor temperature sensor |

## STYRING

|                                  |                    |
|----------------------------------|--------------------|
| Model                            | miniMCB            |
| Sensor for udelufttemperatur     | Integreret         |
| Sensor for tilluftstemperatur    | Ekstern            |
| Sensor for temperatur på fraluft | Integreret         |
| Sensor for afkasttemperatur      | Integreret         |
| Overvågning af filterforurening  | Timer              |
| Styring af luftmængde            | Procentvis styring |
| Trykstyring                      | Procentvis styring |
| Sensor for relativ luftfugtighed | Ekstern (valgfri)  |

## STYRING

|                                            |                                                                    |
|--------------------------------------------|--------------------------------------------------------------------|
| CO2-sensor                                 | Ekstern (valgfri)                                                  |
| Type styreanordning                        | Integreret                                                         |
| Huller til sensor for ekstern luftkvalitet | 2                                                                  |
| CTS-protokoller                            | Modbus RTU, Modbus TCP/IP via MB-Gateway, BACNET IP via MB-Gateway |
| TCP/IP-forbindelse                         | Ekstern (valgfri)                                                  |

## KABINET

|                            |                   |
|----------------------------|-------------------|
| Materiale                  | Galvaniseret stål |
| Lakering                   | Pulverlakeret     |
| Ekstern korrosionsmodstand | C3                |
| Intern korrosionsmodstand  | C2                |
| Isoleringstykkelse         | 30 mm             |
| Isoleringstype             | EPP               |
| Type                       | Kompakt           |
| Farve                      | RAL 9016 (hvid)   |
| IP-klasse                  | IP34              |
| Driftsmiljø                | Indendørs         |
| Installationssted          | Vertikal          |
| Tilluftsside               | Højre             |

## TILLUFTSFILTER

|                 |            |
|-----------------|------------|
| Type            | Panel      |
| Størrelse LxBxH | 270x121x25 |
| Mængde          | 1          |
| Klasse          | Coarse 65% |

## FILTER TIL FRALUFT

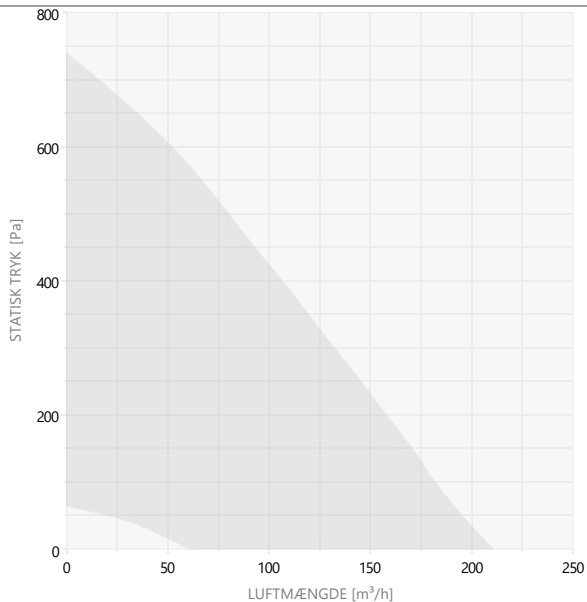
|                 |            |
|-----------------|------------|
| Type            | Panel      |
| Størrelse LxBxH | 270x187x25 |
| Mængde          | 1          |
| Klasse          | Coarse 65% |

**SIKKERHEDSDATA**

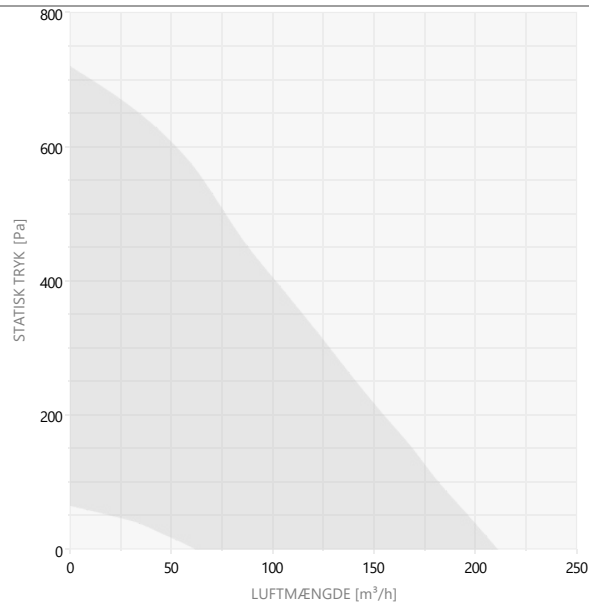
|                                            |              |
|--------------------------------------------|--------------|
| Temperatur i udeluft.<br>Uden frostsikring | -15 .. 40 °C |
| Temperatur i<br>omgivelsesluften           | 5 .. 40 °C   |
| Min. temperatur i flyttet<br>luft          | 16 °C        |
| Maks. fugtighed i flyttet<br>luft          | 70 %         |
| Maks. fugtighed i<br>omgivelsesluften      | 70 %         |

## Ydelse

### SUPPLY

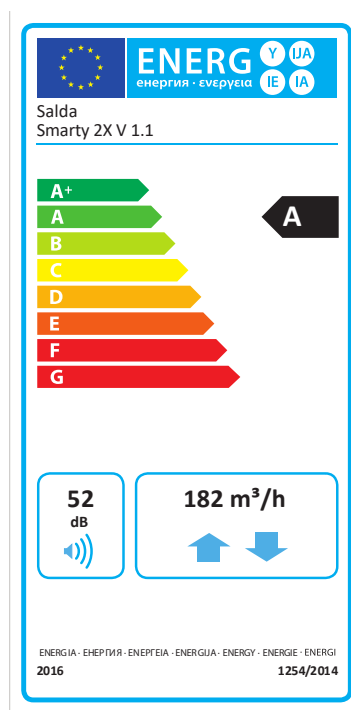


### EXHAUST

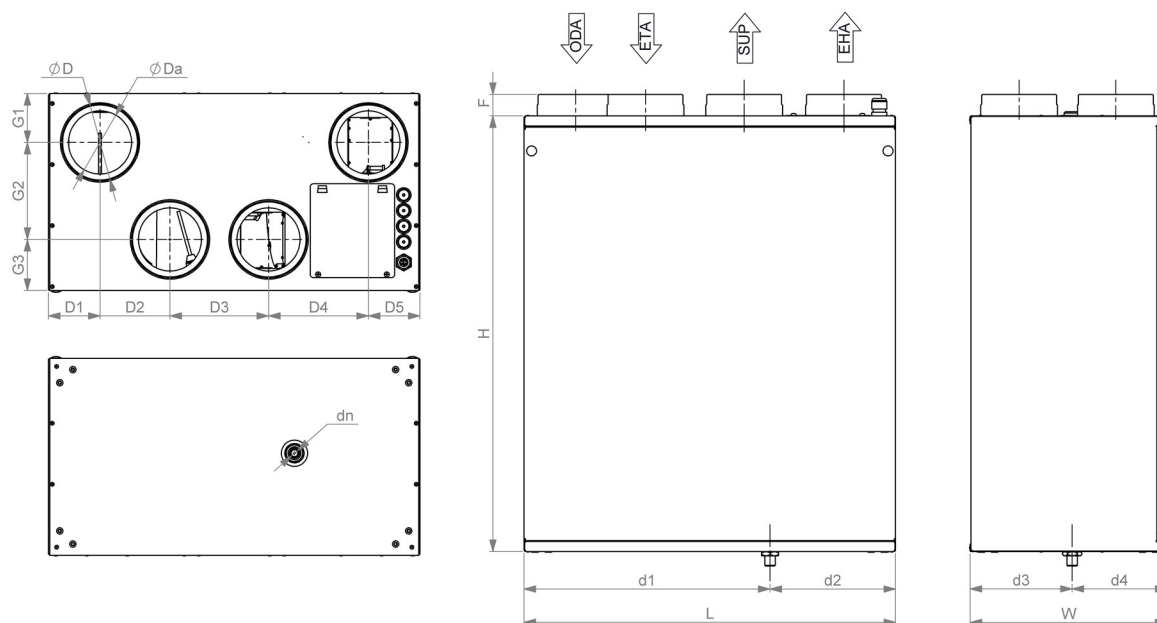


## Ecodesign

|                                               | Cold                                                          | Average | Warm |                       |
|-----------------------------------------------|---------------------------------------------------------------|---------|------|-----------------------|
| SEC                                           | -81                                                           | -42     | -17  | kWh/m <sup>2</sup> a  |
| Class                                         | Aplus                                                         | A       | E    |                       |
| AEC                                           | 742                                                           | 205     | 160  | kWh                   |
| AHS                                           | 9080                                                          | 4641    | 2099 | kWh/a                 |
| Topologi                                      | Bidirectional                                                 |         |      |                       |
| Genvindingstype                               | Recuperative                                                  |         |      |                       |
| Varmevirkningsgrad (EN 13141-7:2010)          | 87.5                                                          |         |      | %                     |
| Maks. luftmængde                              | 182                                                           |         |      | m <sup>3</sup> /h     |
| Ventilatorydelse ved maks. luftmængde         | 83                                                            |         |      | W                     |
| Lydeffektniveau for kabinnet                  | 51.5                                                          |         |      | dB(A)                 |
| Referenceluftmængde                           | 0.035                                                         |         |      | m <sup>3</sup> /s     |
| Referencetryk                                 | 50                                                            |         |      | Pa                    |
| SPI                                           | 0.302                                                         |         |      | W/(m <sup>3</sup> /h) |
| Kontrollfaktor                                | 0,65                                                          |         |      |                       |
| Erklærede maks. Intern tæthedsklasse          | 1.2                                                           |         |      | %                     |
| Erklærede maks. ekstern tæthedsklasse         | 1.2                                                           |         |      | %                     |
| Visuel filterovervågning                      | Timer                                                         |         |      |                       |
| Opfylder ErP                                  | 2018                                                          |         |      |                       |
| Internetadresse for demonteringsinstruktioner | <a href="https://select.salda.lt">https://select.salda.lt</a> |         |      |                       |

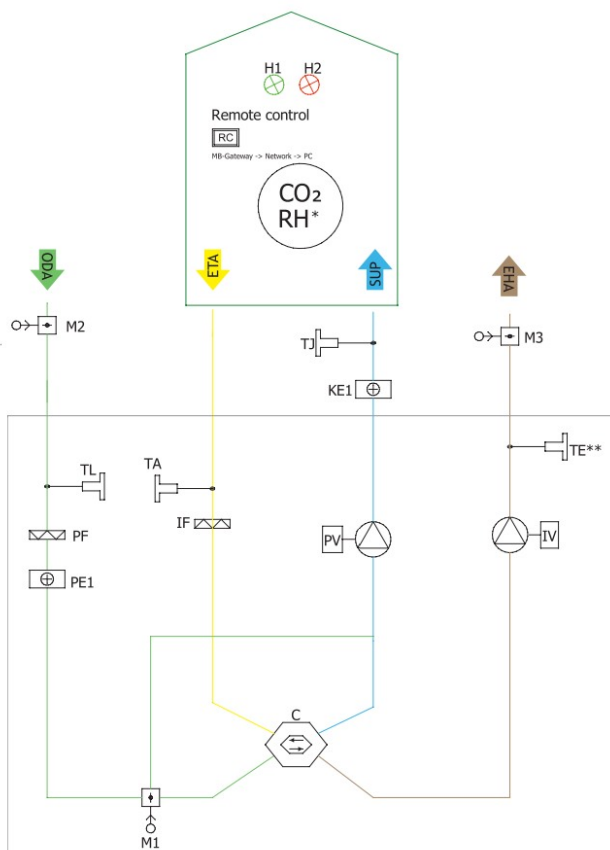


## Dimensioner



| L [mm]  | W [mm]  | H [mm]  | ØD [mm] | ØDa [mm] | dn      | F [mm] | D1 [mm] | D2 [mm] | D3 [mm] | D4 [mm] | D5 [mm] |
|---------|---------|---------|---------|----------|---------|--------|---------|---------|---------|---------|---------|
| 595     | 315     | 698     | 125     | 100      | G3/8    | 34     | 83      | 112     | 158     | 160     | 83      |
| G1 [mm] | G2 [mm] | G3 [mm] | d1 [mm] | d2 [mm]  | d3 [mm] |        |         |         |         |         |         |
| 77      | 155     | 81      | 394     | 201      | 163     |        |         |         |         |         |         |

P&amp;I



## THE LIST OF COMPONENTS

|            |                                |                 |                                              |
|------------|--------------------------------|-----------------|----------------------------------------------|
| C          | Plate heat exchanger           | PV              | Supply air fan                               |
| IF         | Extract air filter             | PF              | Supply air filter                            |
| IV         | Exhaust fan                    | TA              | Extract air temperature sensor               |
| TE         | Exhaust air temperature sensor | TJ              | Supply air temperature sensor                |
| NET        | Network                        | CO <sub>2</sub> | CO <sub>2</sub> sensor*                      |
| RH         | RH sensor*                     | PC              | Computer                                     |
| KE1        | Electric heater                | PE1             | Electric pre-heater                          |
| M1         | By-pass damper                 | M2              | Outdoor air damper actuator                  |
| M3         | Exhaust air damper actuator    | RC              | Stouch or ST-SA-Control remote control panel |
| MB-Gateway | Network module                 | TL              | Outdoor air temperature sensor               |

 Ventilated premises

\* Component/possibility to connect it depends on model.

## POSSIBLE PCB INPUTS/OUTPUTS

|    |                                 |     |                           |
|----|---------------------------------|-----|---------------------------|
| FA | Fire alarm                      | FPP | Fireplace protection      |
| H1 | Working indication output       | H2  | Alarm indication output   |
|    | System mode switch (START/STOP) |     | Fans speed switch (BOOST) |

\* Check the manual for details;

\*\* Optional;

## Tilbehør

## ALU

|                                                                                   |         |                           |
|-----------------------------------------------------------------------------------|---------|---------------------------|
|  | ALU 100 | <a href="#">FIT000125</a> |
|  | ALU 125 | <a href="#">FIT000126</a> |

## Elvarmefflader til runde kanaler

|                                                                                     |                     |                           |
|-------------------------------------------------------------------------------------|---------------------|---------------------------|
|    | EKA 100-0,3-1f      | <a href="#">ACC003720</a> |
|    | EKA 100-0,6-1 f     | <a href="#">ACC000327</a> |
|    | EKA 100-1,2-1 f     | <a href="#">ACC000328</a> |
|    | EKA 125-0,6-1 f     | <a href="#">ACC000329</a> |
|   | EKA 125-0,9-1 f     | <a href="#">ACC000330</a> |
|  | EKA 125-0,3-1 f     | <a href="#">ACC003721</a> |
|  | EKA 125-1,2-1f      | <a href="#">ACC003722</a> |
|  | EKA 125-1,5-1 f     | <a href="#">ACC000331</a> |
|  | EKA 125-1,8-1 f     | <a href="#">ACC000332</a> |
|  | EKA NIS 100-0,3-1f  | <a href="#">ACC003798</a> |
|  | EKA NIS 100-0,6-1f  | <a href="#">ACC003799</a> |
|  | EKA NIS 100-0,9-1f  | <a href="#">ACC003800</a> |
|  | EKA NIS 100-1,2-1f  | <a href="#">ACC003801</a> |
|  | EKA NIS 125-0,3-1f  | <a href="#">ACC003802</a> |
|  | EKA NIS 125-0,6-1 f | <a href="#">ACC000319</a> |
|  | EKA NIS 125-0,9-1 f | <a href="#">ACC000320</a> |

## Elvarmefflader til runde kanaler

|                                                                                   |                     |                           |
|-----------------------------------------------------------------------------------|---------------------|---------------------------|
|  | EKA NIS 125-1,2-1f  | <a href="#">ACC003803</a> |
|  | EKA NIS 125-1,5-1 f | <a href="#">ACC000321</a> |
|  | EKA NIS 125-1,8-1 f | <a href="#">ACC000322</a> |

## Aktuatorer

|                                                                                   |             |                           |
|-----------------------------------------------------------------------------------|-------------|---------------------------|
|  | CM230-1-F-L | <a href="#">ACC000305</a> |
|-----------------------------------------------------------------------------------|-------------|---------------------------|

## CO2 Sensorer

|                                                                                   |           |                           |
|-----------------------------------------------------------------------------------|-----------|---------------------------|
|  | S-RCO2-F2 | <a href="#">ACC000278</a> |
|-----------------------------------------------------------------------------------|-----------|---------------------------|

## Fugtighedssensorer

|                                                                                     |              |                           |
|-------------------------------------------------------------------------------------|--------------|---------------------------|
|   | S-KFF-U      | <a href="#">ACC000279</a> |
|  | S-RFF-U-D-F2 | <a href="#">ACC000280</a> |

## Røgalarm

|                                                                                     |          |                           |
|-------------------------------------------------------------------------------------|----------|---------------------------|
|  | UG-3-A40 | <a href="#">ACC004464</a> |
|-------------------------------------------------------------------------------------|----------|---------------------------|

## Fjernbetjeninger

|                                                                                     |                   |                           |
|-------------------------------------------------------------------------------------|-------------------|---------------------------|
|  | MB-Gateway        | <a href="#">ACC000269</a> |
|  | Stouch            | <a href="#">ACC000272</a> |
|  | ST-SA-Control     | <a href="#">ACC005592</a> |
|  | TP-Link TL-WR802N | <a href="#">ACC000273</a> |

## Anti-vibrationsfodder

|                                                                                     |                        |                           |
|-------------------------------------------------------------------------------------|------------------------|---------------------------|
|  | Ben Smarty 2XV/3XV/4XV | <a href="#">ACC000009</a> |
|-------------------------------------------------------------------------------------|------------------------|---------------------------|

## Lukkespjæld

|                                                                                     |           |                           |
|-------------------------------------------------------------------------------------|-----------|---------------------------|
|  | SKG-A 100 | <a href="#">FIT000200</a> |
|  | SKG-A 125 | <a href="#">FIT000201</a> |



## Filtersæt til Smarty

Filtersæt Smarty 2X V (Coarse-65+Coarse-65-  
2pcs.) [ACC005251](#)

## Runde kanalyddæmpere



Mute 100x1200 [FIT000932](#)



Mute 100x300 [FIT000931](#)



Mute 100x600 [FIT000285](#)



Mute 100x900 [FIT000286](#)



Mute 125x300 [FIT000933](#)



Mute 125x600 [FIT000287](#)



Mute 125x900 [FIT000288](#)

## Dokumenter



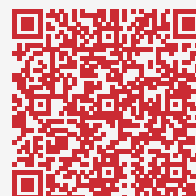
### CAD-tegning

Smarty 2X V.dxf (204,6 KB)



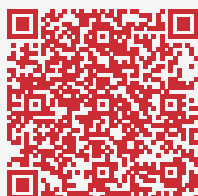
### Katalog

Smarty.pdf (3,4 MB)



### Certifikat

passivhaus-smarty-2x-  
v\_0942vs03\_en.pdf (166,4 KB)



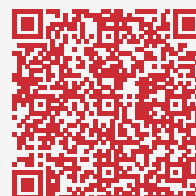
### Overensstemmelseserklæring

Smarty\_RIS\_EKO\_RIRS\_EKO\_CE\_1.0\_EN.pdf  
(110,8 KB)



### Manual

SMARTY XV [DK][SL] v2021.1.pdf (6,7  
MB)



### Revitmodel

Salda Indoor Vertical AHU.Smarty CXV  
Series.rfa (496,0 KB)



### Salgsbrochure

Residential\_EN.pdf (7,6 MB)