

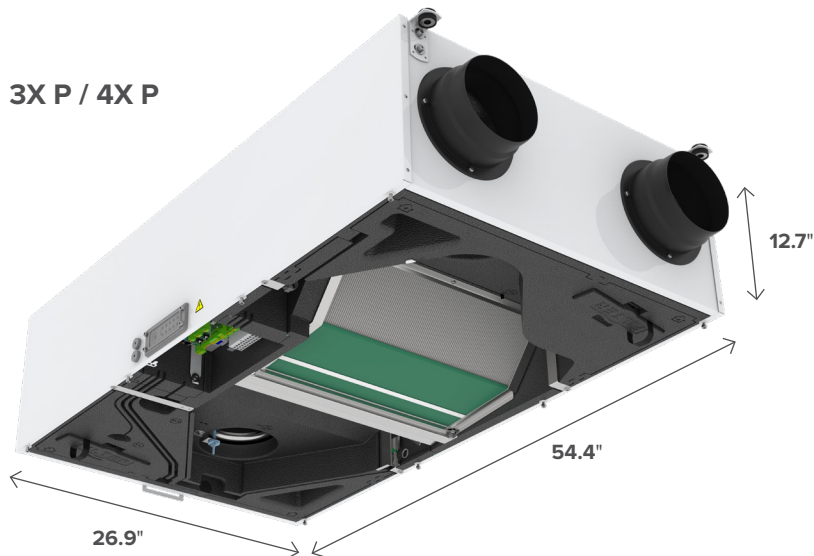
O X Y G E N 8



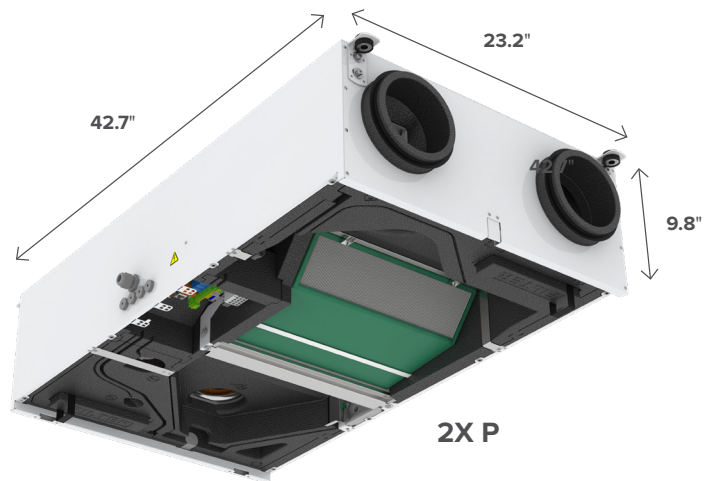
SALDA

Passive House Certified
Residential H/ERV

Salda 2X P/3X P/4X P



View From Access Side



HRV Unit Performance

Model	Size (L x W x H) in.	Airflow (cfm)	Passive House Airflow (cfm)	SRE	Orientation	Passive House Certified	Weight (lbs)
2X P	42.7 x 23.2 x 9.8	18 – 129	56 – 82	85%	Horizontal	Yes	66
3X P	54.4 x 26.9 x 12.7	29 – 206	61 – 146	85%	Horizontal	Yes	117
4X P	54.4 x 26.9 x 12.7	59 – 341	N/A	85%	Horizontal	No	117

*Unit requires condensate connection.

ERV Unit Performance

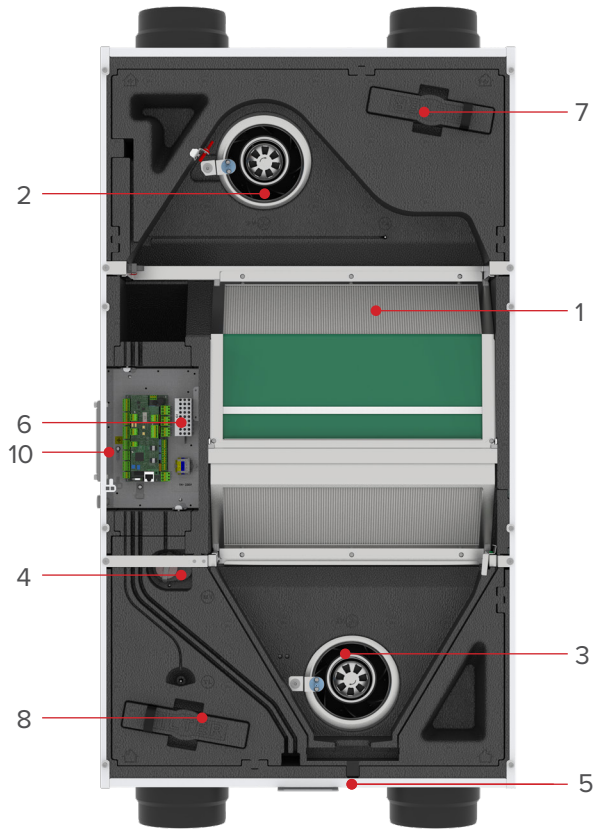
Model	Size (L x W x H) in.	Airflow Range (cfm)	Airflow (cfm)	Passive House Certified	Summer Conditions		Winter Conditions	
					SRE	LRE	SRE	LRE
2X P	42.7 x 23.2 x 9.8	18 – 129	65	Pending	75.4	57.3	75	64.7
3X P	54.4 x 26.9 x 12.7	29 – 206	130	Pending	75.7	55.9	75.3	63.5
4X P	54.4 x 26.9 x 12.7	59 – 341	130	No	75.7	55.9	75.3	63.5

*Assumed conditions: Summer OA 90/75, RA 75/63, Winter OA 5/4, RA 70/53

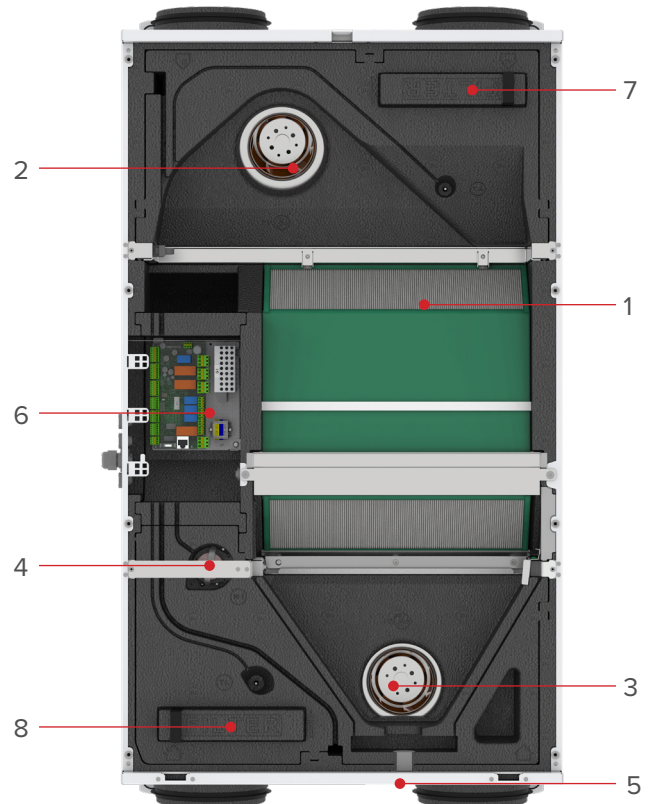
System Overview

Indoor Residential Applications

Horizontal Installation

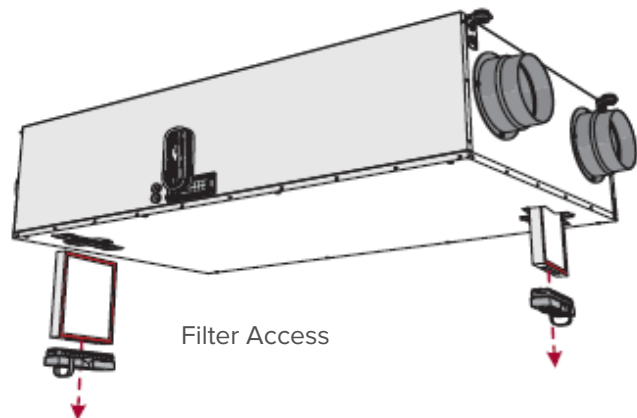


Salda 3X/4X P Bottom View

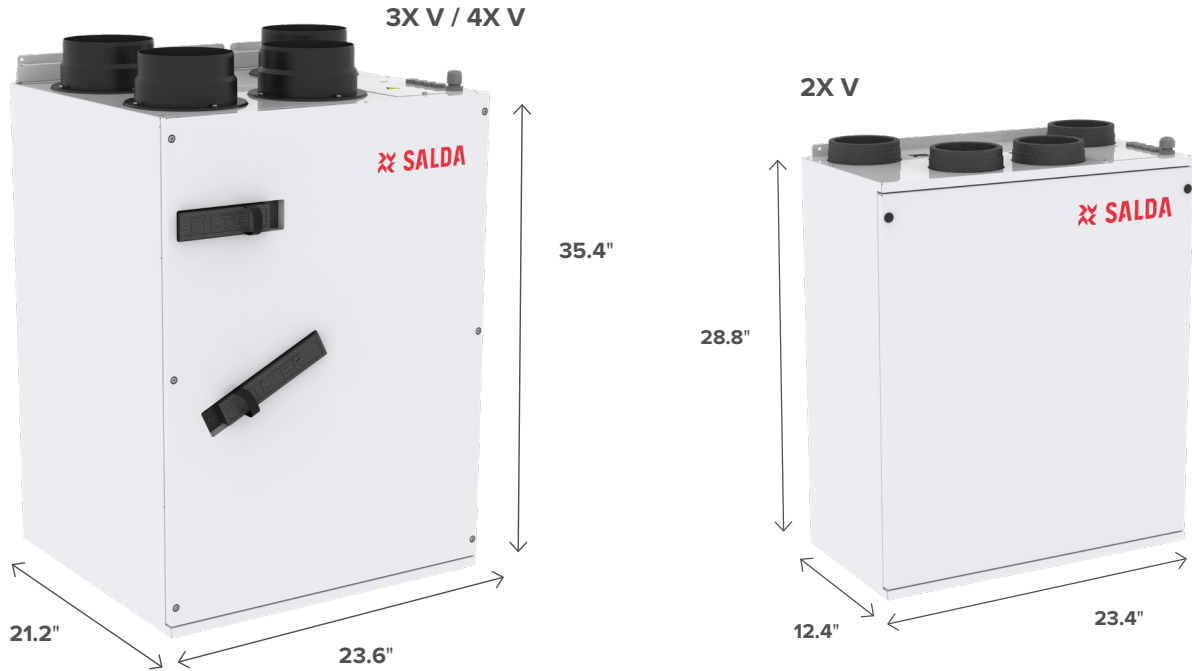


Salda 2X P Bottom View

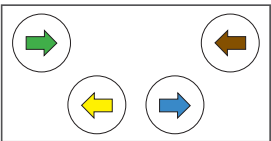
1. Counter-flow Heat Exchanger
2. Supply Air
3. Exhaust Fan
4. Bypass Damper
5. Drain Connection
6. Controller
7. RA Filter (Panel/Pocket)
8. SA Filter (Panel/Pocket)



Salda 2X V/3X V/4X V



View From Access Side



← Exhaust Air ← Return Air
→ Outdoor Air → Supply Air

HRV Unit Performance

Model	Size (L x W x H) in.	Airflow (cfm)	Passive House Airflow (cfm)	SRE	Orientation	Passive House Certified	Weight (lbs)
2X V	23.4 x 12.4 x 28.8	18 – 109	27 – 68	85%	Vertical	Yes	59
3X V	23.6 x 21.2 x 35.4	29 – 218	63 – 160	85%	Vertical	Yes	86
4X V	23.6 x 21.2 x 35.4	59 – 341	N/A	85%	Vertical	No	86

*Unit requires condensate connection.

ERV Unit Performance

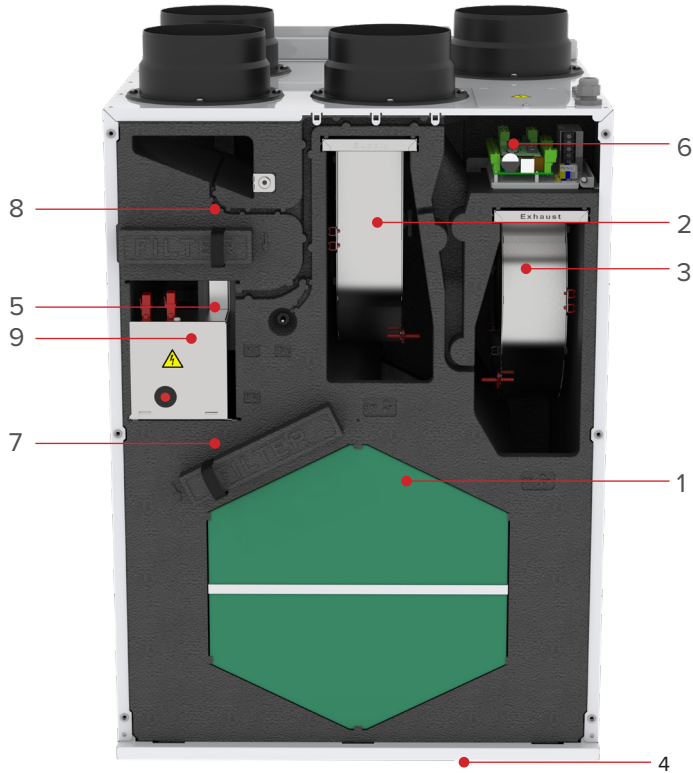
Model	Size (L x W x H) in.	Airflow Range (cfm)	Airflow (cfm)	Passive House Certified	Summer Conditions		Winter Conditions	
					SRE	LRE	SRE	LRE
2X V	42.7 x 23.2 x 9.8	18 – 110	110	Pending	75.6	60.4	75.2	63.6
3X V	54.4 x 26.9 x 12.7	29 – 206	206	Pending	75.9	60.5	75.5	63.7
4X V	54.4 x 26.9 x 12.7	59 – 341	206	No	75.9	60.5	75.5	63.7

*Assumed conditions: Summer OA 90/75, RA 75/63, Winter OA 5/4, RA 70/53

Salda System Overview

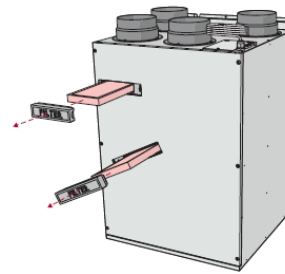
Indoor Residential Applications

Vertical Installation

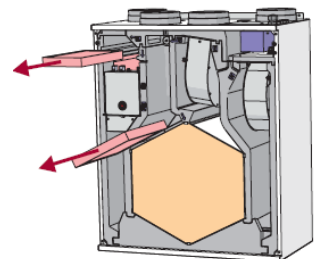


Salda 3X/4X V Bottom View

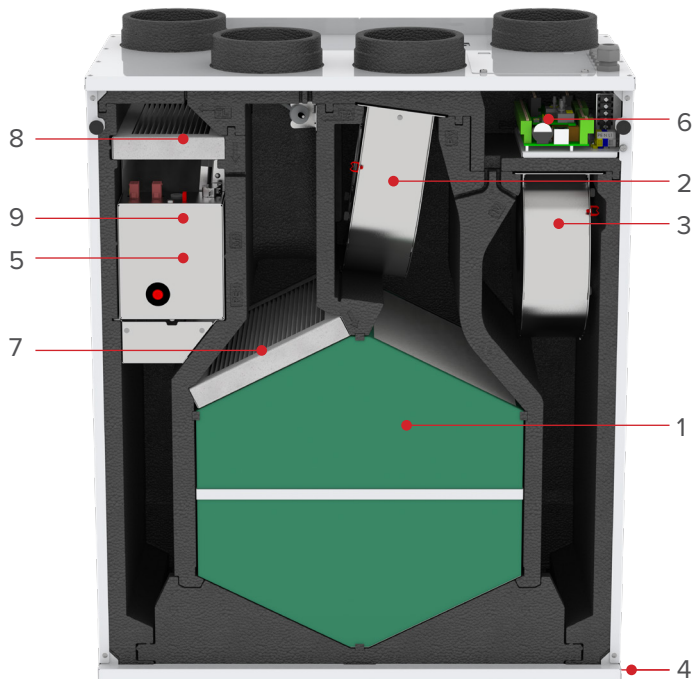
1. Counter-flow Heat Exchanger
2. Supply Air
3. Exhaust Fan
4. Drain Connection
5. Integral Pre-Electric Heat
6. Controller
7. RA Filter (Panel/Pocket)
8. SA Filter (Panel/Pocket)
9. Bypass Damper



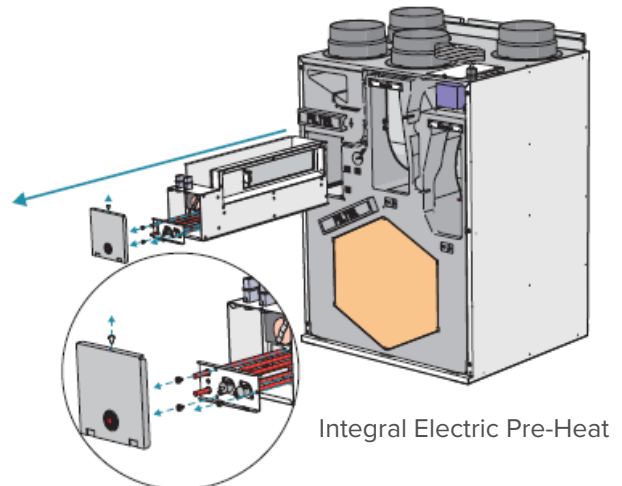
Filter Access



Filter Access



Salda 2X V Bottom View



Integral Electric Pre-Heat

Description & Features

Salda residential H/ERVs provide high sensible energy efficiency (85%) and user-friendly controls. The low-profile height of the unit allows for installation in tight places.

Every Salda unit is tested for airtightness in order to assure exceptional quality of assembly.

Applications

Multi-Unit Residential Buildings, Passive House Applications and Single Family Homes

Features

- EC fans with high-efficiency counter-flow heat exchanger
- Casing leakage (third party verified <1.2%)
- Smart and user-friendly handling by using Salda Air mobile app (via optional MB-Gateway)
- Certified by Passive House (Salda 2X and 3X)
- Expanded Polypropylene (EPP) with thermal and acoustic insulation ~1" (20-30 mm)

Top Class Casing

- Thermal and acoustic insulation
- Galvanized steel plate
- External side is powder-coated

Heat Exchanger

- Counter-flow heat exchanger (sensible only) with efficiency up to 91% (EU 1253/2104) / 85% (PHI)

Fans

- ECM type - SFP <0.63 W/CFM

Integral Bypass

- For economizer

Filters

- MERV8 Standard (MERV13 Optional)

Controls

Pre/Post Electric Heat Control

0-10V

Demand-Control Ventilation Sensor Connections

CO₂, RH, Occupancy

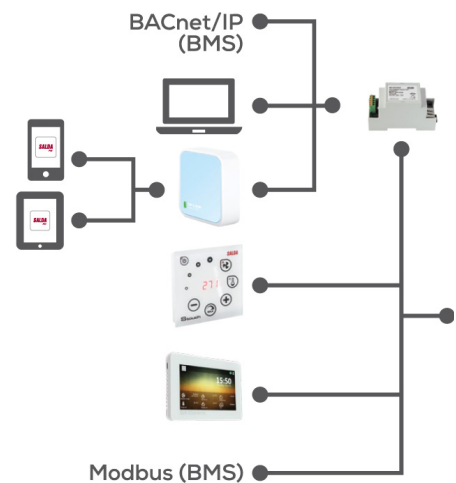
Extensive Control Options

Passive House airflow modes (away, normal and boost)

Air Temperature Sensors and Damper Control

Return, Supply, Outdoor

Control Options



CO₂ Sensor



RH Sensor

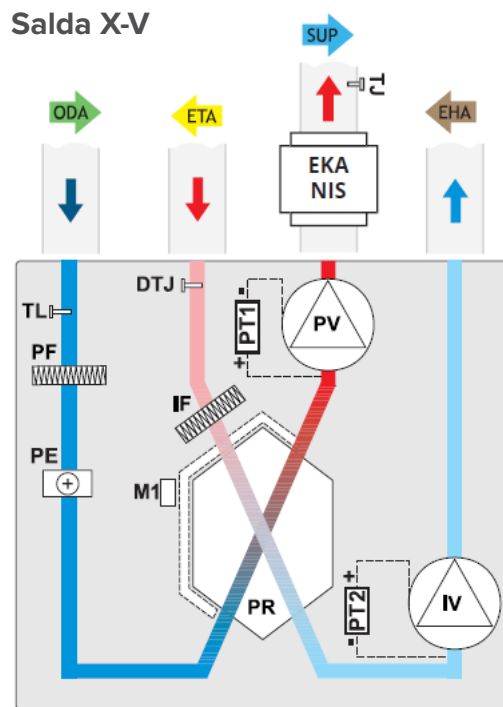
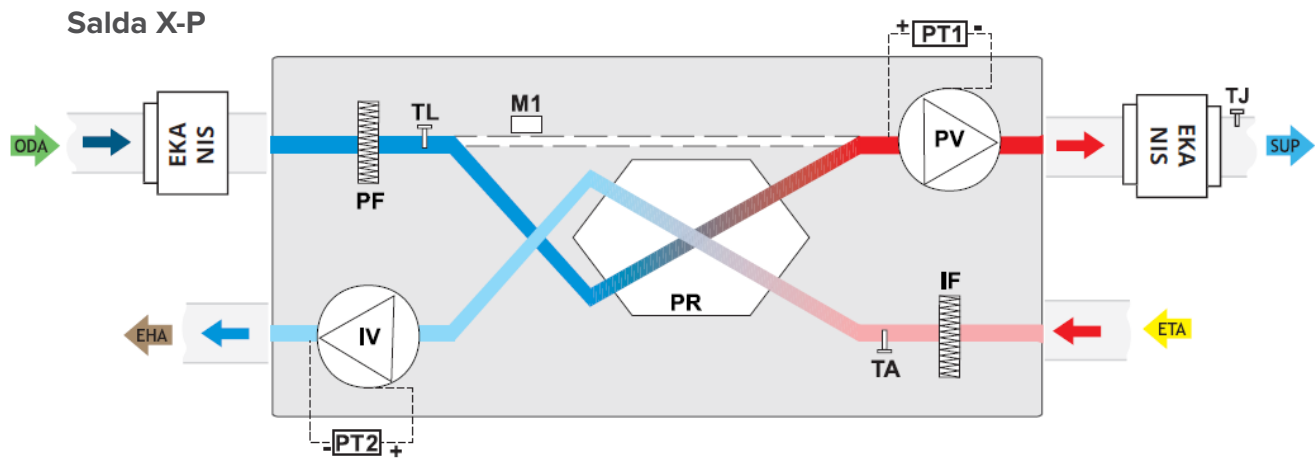


Gateway



Nano Router

Controls Diagram



Label Legend

- IV Exhaust Air Fan
- PV Supply Air Fan
- PR Plate Heat Exchanger
- PF Filter for Supply Air
- IF Filter for Extract Air
- M1 Bypass Damper Actuator
- DTJ Air Temperature and Humidity Sensor
- TL Outdoor Air Temperature Sensor
- TJ Supply Air Temperature Sensor
- EKA Electric Heater
- PA Electric Pre-Heater
- PT1 Supply Air Fan Pressure Transmitter
- PT2 Exhaust Air Fan Pressure Transmitter



Touch Screen Wall Controller



Wall Controller



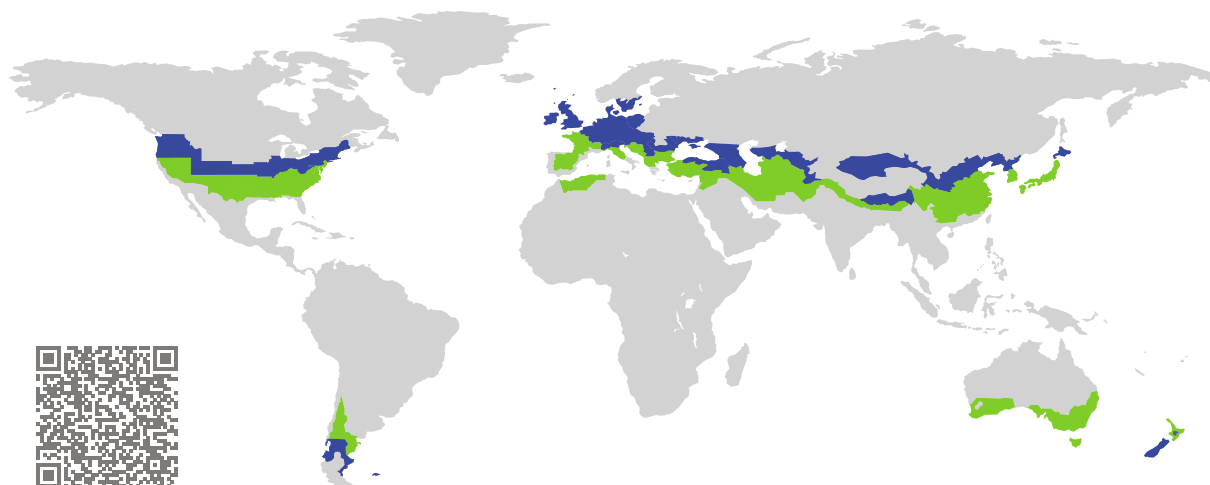
SALDA AIR App



CERTIFICATE

Certified Passive House Component

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**
Manufacturer: **SALDA UAB**
Lithuania
Product name: **SMARTY 2X P**

Specification: Airflow rate < 353 cfm
Heat exchanger: Recuperative

This certificate was awarded based on the product meeting the following main criteria

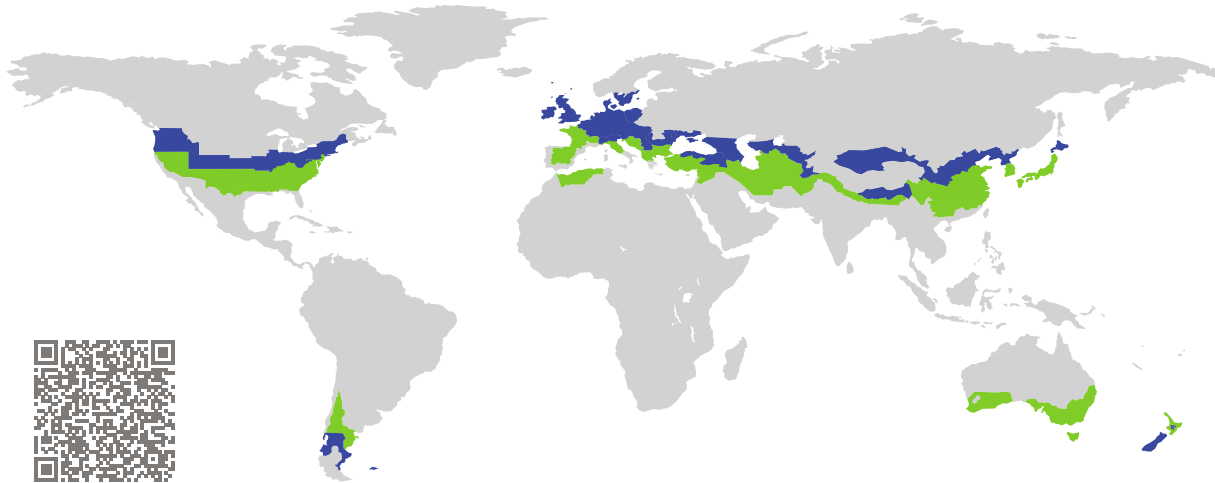
Heat recovery rate $\eta_{HR} \geq 75 \%$
Specific electric power $P_{el,spec} \leq 0.76 \text{ W/cfm}$
Leakage < 3 %
Comfort Supply air temperature $\geq 61,7^\circ\text{F}$ at outdoor air temperature of 14°F

Airflow range
33 – 82 cfmh
Heat recovery rate
$\eta_{HR} = 84 \%$
Specific electric power
$P_{el,spec} = 0.63 \text{ W/cfm}$

CERTIFICATE

Certified Passive House Component

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**
Manufacturer: **SALDA UAB**
Lithuania
Product name: **SMARTY 2X V**

Specification: Airflow rate 353 cfm
Heat exchanger: Recuperative

This certificate was awarded based on the product meeting the following main criteria

Heat recovery rate $\eta_{HR} \geq 75 \%$
Specific electric power $P_{el,spec} \leq 0.76 \text{ cfm}$
Leakage $< 3 \%$
Comfort Supply air temperature $\geq 61.7^\circ\text{F}$ at outdoor air temperature of -14°F

Airflow range

27 – 68 cfm

Heat recovery rate

$\eta_{HR} = 82 \%$

Specific electric power

$P_{el,spec} = 0.63 \text{ W/cfm}$

cool, temperate climate



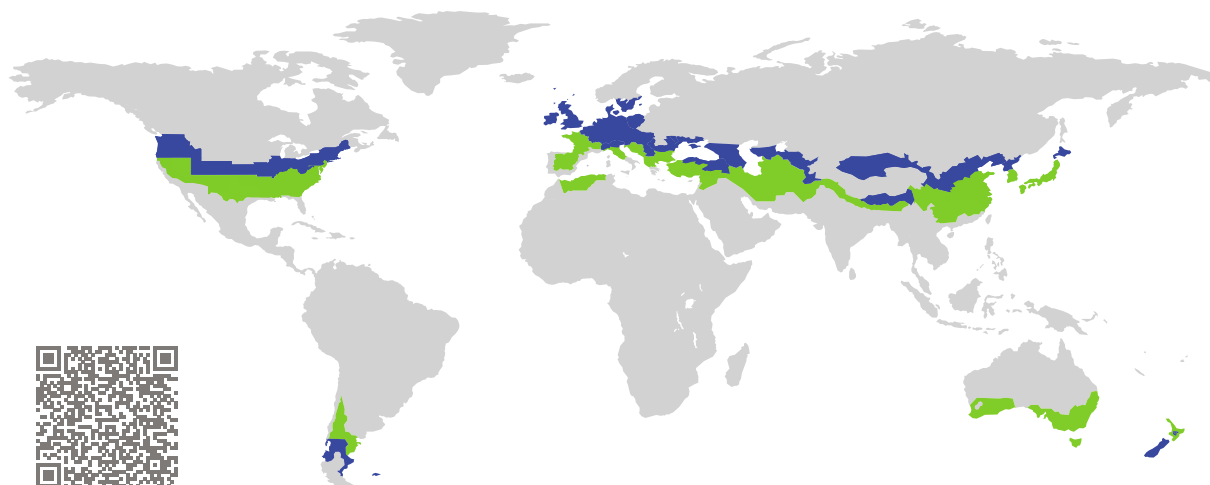
**CERTIFIED
COMPONENT**

Passive House Institute

CERTIFICATE

Certified Passive House Component

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**
Manufacturer: **SALDA UAB**
Lithuania
Product name: **SMARTY 3X P**

Specification: Airflow rate < 353 cfm
Heat exchanger: Recuperative

This certificate was awarded based on the product meeting the following main criteria

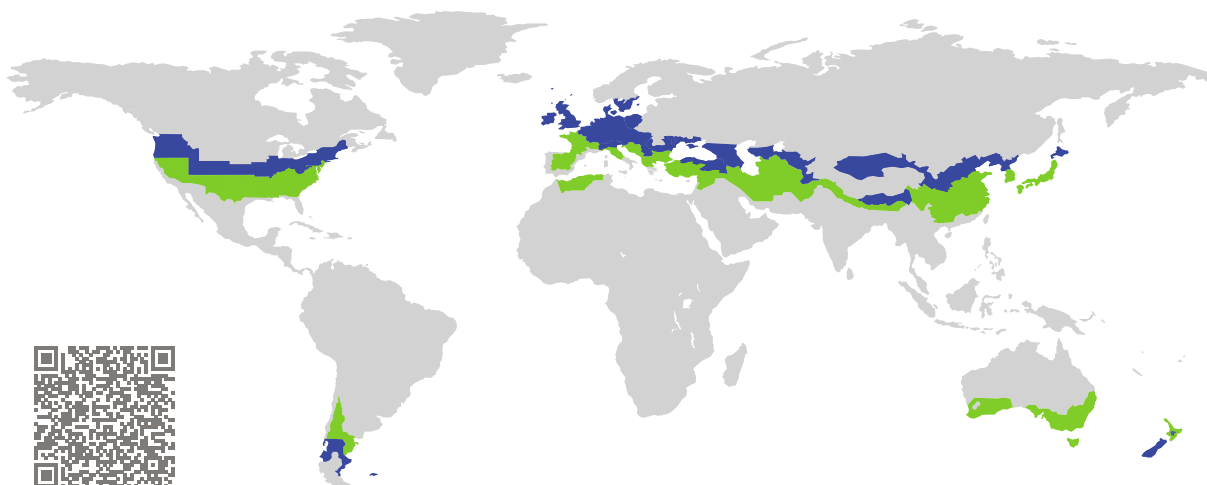
Heat recovery rate $\eta_{HR} \geq 75 \%$
Specific electric power $P_{el,spec} \leq 0.76 \text{ W/cfm}$
Leakage < 3 %
Comfort Supply air temperature $\geq 61.7^\circ\text{F}$ at outdoor air temperature of 14°F

Airflow range
61 - 146 cfm
Heat recovery rate
$\eta_{HR} = 85 \%$
Specific electric power
$P_{el,spec} = 0.53 \text{ W/cfm}$

CERTIFICATE

Certified Passive House Component

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**

Manufacturer: **SALDA UAB**
Lithuania

Product name: **SMARTY 3X V**

Specification: Airflow rate < 353 cfm

Heat exchanger: Recuperative

This certificate was awarded based on the product meeting the following main criteria

Heat recovery rate η_{HR} $\geq 75 \%$

Specific electric power $P_{el,spec}$ $\leq 0.74 \text{ W/cfm}$

Leakage $< 3 \%$

Comfort Supply air temperature $\geq 61.7^\circ\text{F}$ at
outdoor air temperature of 14°F

Airflow range

63 - 160 cfm

Heat recovery rate

$\eta_{HR} = 81 \%$

Specific electric power

$P_{el,spec} = 0.51 \text{ W/cfm}$

cool, temperate climate



**CERTIFIED
COMPONENT**

Passive House Institute

