## Breathe Fresh Air at Home

Residential Ventilation







Buying an orange is easy. You know it's good for you. It radiates freshness and wholesomeness, you could say. You can also smell it and taste it. And you can tell straight away if it's rotten. But when it comes to indoor air quality (IAQ) at home, things aren't quite so straightforward.

Of course you know, deep down inside, that air is important. But you can't take hold of it, and it can be difficult to feel if it is bad. That's why indoor air is rarely high up on families' wish lists, although really it should be. That's the major challenge we face here at Systemair. Because we provide fresh, environment friendly, energy-efficient ventilation that promotes the wellbeing of you and your family.



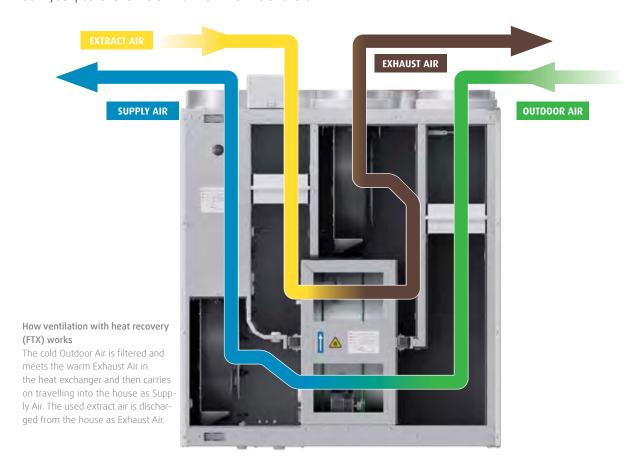
# Lots of people believe the air in their homes is good ...

... but far too frequently, the air in our homes is even worse than the air out on the street. Research and studies show that in our major cities, there can be as much as 2 to 10 times\* more contaminated air indoors than outdoors. In turn, this can lead to asthma, allergies and even lung cancer. Quite simply, we need fresh air if we are to feel great.

Many homes are unable to guarantee healthy indoor air. Rather worryingly, not many residents realise just how serious the situation is. Elevated radon values in indoor air can be traced directly back to outdated ventilation solutions that are incapable of removing contaminated air from the home. In some cases, the situation is even made worse by the old ventilation. Every year, a large number of people all over the world are affected by lung cancer as a consequence of exposure to radon.

# Residential ventilation that saves energy

Ventilation with heat recovery (FTX) not only guarantees healthy air exchange in your home, but is also a healthy investment as it will reduce your heating costs and benefit both your pocket and the environment that we all share.



<sup>\*</sup>Source: The Environmental Protection Agency (EPA)



# Quality of life starts with the climate

### Residential ventilation by Systemair

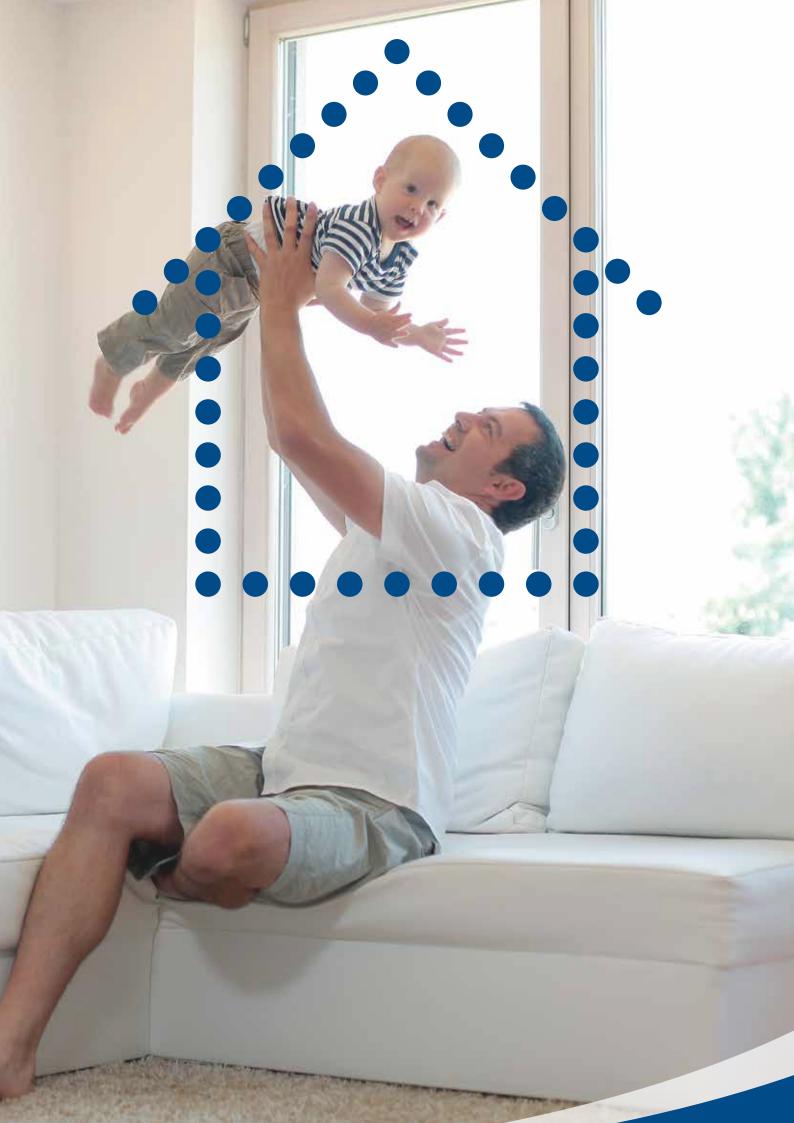


# This is how your controlled residential ventilation works:

Using the rooms, kitchen, bathroom and toilet, your ventilation system removes waste air from inside. Depending on the system, a heat exchanger extracts the heat from used air and, at the same time, outdoor air is taken in and is filtered.

If necessary, the heat exchanger pre-tempers the cool outside air using heat from the waste air. The outdoor air then flows through the vents into the rooms. From there, the supply air flows through openings in the doors (door gap or grille) across the overflow area (corridor and floorboards) into the kitchen, bathroom and toilet. This way, the two different types of air don't mix.

The result: an optimum air ratio and a pleasant room climate.



# Perfectly in tune with your customers



With SAVE Systems, your customers are constantly breathing outdoor air at home. Even with our basic configuration, they can enjoy the best climate conditions.

Comfort which can be improved on even further: with components which automatically manages the supply of outdoor air and save on energy too.

Could there be such a thing as too much convenience?

#### SAVE VTR/VSR

Highly efficient residential ventilation with rotational heat exchanger



Your customers want maximum convenience with minimum heat loss? Then recommend them our rotational heat exchanger system. This extracts the heat from the waste air and pre-tempers the cool outdoor air. Some of the humidity of the air is also recovered and transferred to the supply air. High-quality fine particle filters make sure the air stays pure.

#### The benefits:

- Controlled outdoor air and ventilation
- Heat recovery degree of up to 85%
- Bypass function
- Extreme energy savings
- User-friendly
- Space-saving and quiet-running
- Allergy-friendly
- Humidity recovery, thus consistently pleasant indoor climate
- No condensation, thus connecting to the drains is unnecessary
- Frost protection is unnecessary (to as low as approx. -30°C)

#### **SAVE VTC/VSC**

Highly efficient residential ventilation with counter flow heat exchanger



With a reverse flow heat exchanger your customers can achieve the highest degree of heat recovery. The system automatically switches between normal mode with heat recovery and summer mode without it. In summer a bypass function overrides the heat recovery.

#### The benefits:

- Controlled outdoor air and ventilation
- Heat recovery degree of up to 90%
- Bypass function
- Automatic de-icing function
- Extreme energy savings
- Quiet-running
- User-friendly
- Optional fine particle filter

#### Systemair duct systems

Extremely flexible



For whichever convenient ventilation system your customers chooses and regardless of their structural circumstances, with our ductwork systems you can rise to every challenge.

Whether from galvanised steel sheeting or polymer, whether round or oval, all pipes are extremely robust, resistant to deformation and, if necessary, easy to clean.

Your clients can make the selection and choose the size to meet their individual requirements. This guarantees the safe and economical distribution of air through the building.



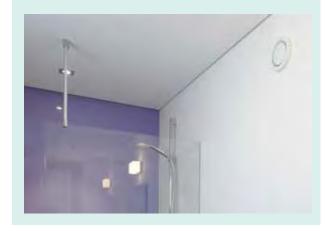
#### Systemair air distribution products

Just your style



Do your customers prefer modern living? What about classical, maybe elegant or perhaps they prefer the style of the country house? Regardless of which fittings your clients like, they're bound to find the design they're looking for in our versatile range of high-quality ceiling and wall vents.

Simply show your customers the models in our catalogues or refer them to our website www.systemair.com







# **Environmental responsibility**

The EU has pledged to reduce the use of energy in accordance with global climate targets, i.e. to reduce energy consumption by 20% by 2020 and 50% by 2050. To succeed in this, FTX ventilation and other measures are required in homes both old and new.

Here at Systemair we are aware of the responsibility we bear for our environment, and our primary contribution to modern environmental protection is efficient energy usage. You will encounter the Green Ventilation symbol in our product brochures – this indicates intelligent technology in harmony with the environment.

# **Energy-efficient ventilation**

To get the best possible indoor air, and indoor climate, you need optimal ventilation. And that is exactly what you get with SAVE from Systemair. SAVE is a series of efficient heat recovery ventilation units that are tailored for individual homes, smaller offices and similar premises. All SAVE units fulfil the market's high demands for low energy consumption and sound levels. State-of-the-art EC technology ensures that the fans are energy-efficient and contribute to low SFP (Specific Fan Power) values and fulfills the requirement in the European Ecodesian directive. All units technical performance is certified by the independent certification program Eurovent.



SAVE ventilation units recover up to 90% of the heat in the exhaust air and are available in various sizes for living spaces of up to 600 m<sup>2</sup>.

# A healthier home for immediate delivery

All SAVE units are supplied preprogrammed, tested and ready to install, helping you to bring fresh air to your home more easily. Servicing and maintenance are facilitated thanks to readily accessible replacement components. We have units with rotary heat exchangers and counterflow heat exchangers in sizes to suit living spaces of up to  $600 \text{ m}^2$ .

These units are available with both top connection and side connection as standard for immediate delivery. Our heat recovery units can be positioned over stove, on wall, false ceiling or in the attic. The cold outdoor air is tempered and filtered so that the indoor climate is healthy and comfortable for you and your family, with no risk of draughts.

# **SAVE Control System**

Simplified connection, configuration and control.

#### SAVE control benefits:

- · Start up wizard
- Flexible and freely configurable
- Selection of user interfaces:
  - SAVE TOUCH
  - SAVE LIGHT
  - SAVE CONNECT
- External Connection Board
- Integrated support for BMS/SCADA using Modbus communication

The SAVE control system is the common platform for al SAVE models.

The Connection Board simplifies installation of external devices - heating/cooling equipment, cooker-hoods, sensors for Indoor Air Quality control, smoke or fire sensors for safety. We have you covered for all cases!

The SAVE control system offers a variety of different control interfaces to fit the needs of every customer. A combination of up to 10 control panels can be used.

The panels can also be used in combination with one another. The SAVE TOUCH control panel is ideal for advanced uses and the SAVE LIGHT is ideal for basic control functions. SAVE CONNECT enables both remote control and monitoring of the SAVE unit and provides the option for easier configuration by uploading configuration files stored in it or in your mobile device.



#### **SAVE TOUCH**

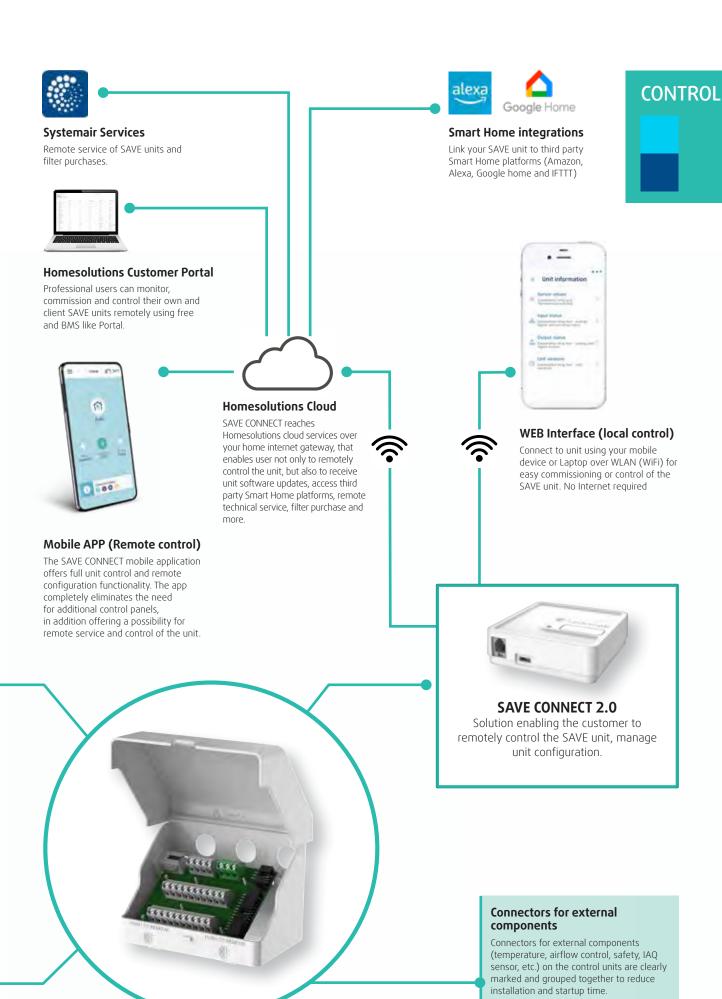
Advanced touch screen controller with intuitive and simple control interface. Simple unit configuration using Start Up Wizard, provides an option to monitor and control all unit parameters and offers an overview of alarm and data history.



#### **SAVE LIGHT**

Simple control panel for basic control functionality, providing an option to reset filter timer and alarm indication.





# **Energy-efficient ventilation** for all kinds of homes





The Eurovent-certified SAVE series includes a wide selection of energy-efficient ventilation units with modern designs to suit both houses and apartment blocks. All SAVE units surpass market requirements for a healthy indoor climate and low energy consumption. All units are suitable for use in both new and renovated buildings and always come preprogramed, tested and ready to install. All you have to do is "plug & breathe".

Air handling unit		SAVE VTC 200	SAVE VTC 300	SAVE VTC 500	SAVE VTC 700
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Energy efficiency class					
Standard unit		Α	Α	Α	A
Standard unit with accessories		Α	A+	A	A+
Technical data					
Design up to living space	m²	180	240	400	550
Qref at 50 Pa	l/s m³/h	56/200	71/255	117/421	166/599
Qmax at 100 Pa	l/s m³/h		101/364	167/602	237/856
Sound power level (LwA)	dB(A)	47	40	44	41
Efficiency heat recovery	%	84	86	84	87
Filter, Supply air		F7/ePM1 60%	F7/ePM1 60%	F7/ePM1 60%	F7/ePM1 60%
		F8/ePM1 70%*	F8/ePM1 70%*	F8/ePM1 70%*	F8/ePM1 70%*
Filter, Extract air		M5/ePM10 50%	M5/ePM10 50%	M5/ePM10 50%	M5/ePM10 50%
Duct connections	mm	125	160	200	250
Max. power, fan(s)	W	85	85	169	170
Electrical heater	W	-	1670*	1670*	4500*
Recommended fuse	А	10	10	13	10
Width (with connection box)	mm	=	762	880	1170
Width (without connection box)	mm	598	-	-	-
Height (with connection box)	mm	-	883	880	1250
Height (without connection box)	mm	550	800	800	1175
Depth	mm	550	615	615	860
Weight	kg	47	72	82	160
Isolation of casing	mm	30	30	30	30
Condensate connection		1/2" (2x)	1/2" (2x)	1/2" (2x)	1/2" (2x)
Application					
Flats		•			
Single-family house		•	•	•	
Apartment building, centrally					•
Light commercial			•	•	•
Built in cooker hood					

<sup>\*</sup>Available as accessories.



Experience Systemair solutions in an unprecedented way with HVAC PRODUCTS – brand-new, web-based Augmented Reality platform.

Please scan the scannable code on your mobile device to visit experience.systemair.com.

SAVE VSC 100	SAVE VSC 200	SAVE VSC 300
₩ SEASE	<b>→</b> **	₽ ÷
A+	A	A
100 32/116	200 65/233	320 99/358
46/166	93/333	142/511
36	45	46
86	89	85
F7/ePM1 60%	F7/ePM1 60%	F7/ePM1 60%
F8/ePM1 70%*	F8/ePM1 70%*	F8/ePM1 70%*
M5/ePM10 50%	M5/ePM10 50%	M5/ePM10 50%
125	125	160
27	81	119
=	=	=
10	10	10
1263	1473	1473
1220	1430	1430
-	=	-
258	328	355
640	750	840
47	70	80
20	20	20
1/2" (2x)	1/2" (2x)	1/2" (2x)



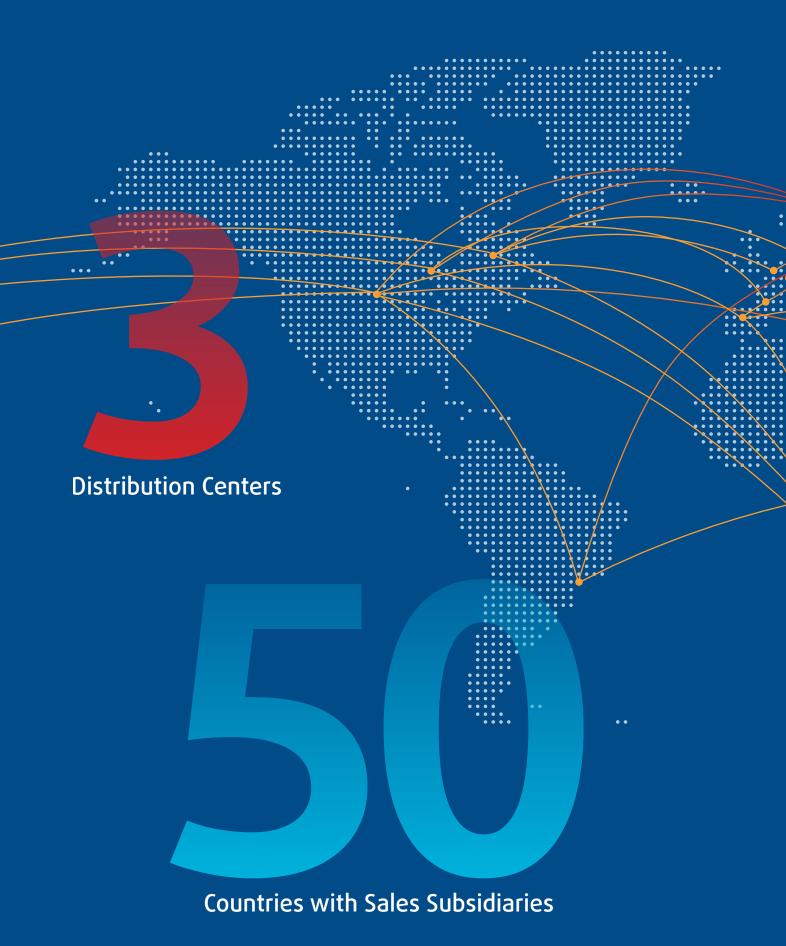
<sup>\*</sup>Available as accessories.





SAVE VTR 300/B	SAVE VTR 500	SAVE VTR 700	SAVE VSR 150/B	SAVE VSR 200/B	SAVE VSR 300	SAVE VSR 500
JAVE VIK 300/B	SAVE VIN 300	JAVE VIII 700	3AVE V3K 130/B	3AVE V3K 200/B	JAVE VSK 300	JAVE VSIC 300
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240	400	550	100	180	240	400
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97/351	159/571	264/951	48/168	79/284	102/367	168/608
39		41		43	42	
85	46	81	36 85	83	85	53 84
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F7/ePM1 60% F8/ePM1 70%*		F7/ePM1 60%	F8/ePM1 70%*		F7/ePM1 60%	F7/ePM1 60%
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160	200	250	125	125	160	200
81	170	170	35	81	81	169
1670	1670	1670*	500	1000	1670	1670
10	13	13	10	10	10	13
762	920	1170	1150	1215	1150	1150
878	885	1250	303	350	595	645
802	800	1175	303		595	645
491	584	860	586	620	505	595
70	85	188	58	56	65	77
30	30	30	30	30	50	50
-	-	1/2"	-	-	-	-
			•	•		
•	•			•	•	•
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•	•	•			•	•

# Systemair around the globe





# Always close to you!

