

Systemair Ventilation units

Ventilation units
Airflow 200-54 000 m³/h



Systemair AS, Norway



Systemair AB, Sweden



Systemair a/s, Denmark



Residential units



VX 400 EV
VX 700 EV



VX 400 E
VX 700 E



VX 250 TV/P



VR 400 E/700 E



VR 250 EH/B



VR 400 EV/B
VR 700 EV

Systemair residential units are suitable for ventilation of homes and offices:

- Delivered complete with control system
- User friendly control panel
- Easy to service and maintain
- High quality external rotor motors
- Made from double-skinned galvanised sheet steel (central units made from Aluzinc 185).

VX units have centrifugal fans for supply and extract air, cross flow exchanger, reheater battery and filters.

VR units have rotating heat exchanger, centrifugal fans for supply and extract air, reheater battery and filter, automatic change between normal and summer operation, flexible installation without condensate drain.

VX 400 EV/VX 700 EV

- Integrated control panel
- Possible to connect an external control panel
- Adjustable filter change interval

Designed for installation on the wall in a warm space, utility room or similar.

VX 400 E/VX 700 E

- External control panel
- Possible to connect several external control panels
- Large inspection doors on both sides
- Adjustable filter change interval
- 50 mm insulation

For installation horizontally. Can be placed in cold areas.

VX 250 TV/P

- Compact design, easy to install
- Integrated control panel

Easy to install in new and old dwellings, on the wall in a laundry room or similar.

VR 400 EV/B & 700 EV

- Integrated control panel
- Possible to connect an external control panel
- Cool recovery function
- Adjustable filter change interval
- Possible to connect to a cooker hood

Designed for installation on the wall in a warm space, utility room or similar.

VR 400 E/700 E

- External control panel
- Possible to connect several external control panels
- Large inspections doors on both sides
- Cool recovery function
- Adjustable filter change interval
- 50 mm insulation

For horizontal installation in a warm or cold space e.g a utility room or attic.

VR 250 EH/B

- External control panel
- Possible to connect several external control panels
- Large inspections doors on both sides
- Cooling recovery function
- Adjustable filter change interval
- Possible to connect to a cooker hood

Designed for installation on the wall in a warm space, utility room or similar.

Control panel CE for all units

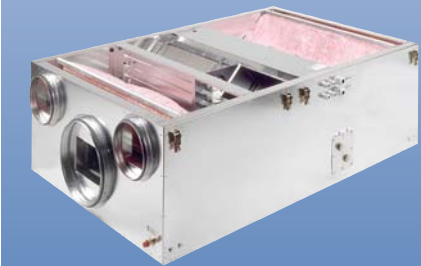
(not VX 250 TV/P)

Air flow, supply air temperature and filter change interval are easy to set with the control panel.

Lamp indicators show chosen settings and if filter change is necessary.



Compact units



Systemair compact units are ventilation units especially suited for smaller industries, warehouses, petrol stations, schools, shops and offices. They have high efficiency, easy maintenance and are delivered pre-programmed with controls ready to run.

TA 650-4500 m³/h

TA is a series of supply air units, available in six sizes and with electrical or hot water re-heater battery. TA is a compact unit with low overall height.

The unit is delivered complete with control system and is designed for simultaneous operation with a stand alone extract air fan.

Maxi I 100-2000 m³/h

Maxi is a series of heat recovery units in three sizes, with a low overall height and crossflow heat exchangers. The unique design with double duct connections for outdoor air and extract air makes the units very compact and easy to install. Using the suspension device UDM, the Maxi with electric heater can be installed in a false ceiling.

Topvex 1000-2000 m³/h

Top connected heat recovery unit in three sizes with rotating heat exchanger. The unit is powered by two plug fans mounted on external rotor motors.

The top connection saves floor space and facilitates installations in already existing premises.

Rotovex 2400-4800 m³/h

Heat recovery unit in three sizes, with a rotating heat exchanger and two plug fans with EC-motors to ensure low power consumption. Rotovex keeps a constant airflow (CAV) and automatically controls the supply air temperature.

Rotovex can easily be divided into two parts and is designed for easy transport through standard doorways with an opening of 800 mm.

Time 1000-14000 m³/h

Time is available with a rotating heat exchanger or with a crossflow heat exchanger. The crossflow heat exchanger is mainly used when supply and extract air need to remain separate.

Time has built-in efficient plug fans with low sound level.

Time is very easy to maintain and components that need servicing can easily be withdrawn.

Control system

The Systemair control system is standard in the compact units and available as an option with the central units.

All Compact units are delivered with a very user-friendly and fully integrated Systemair controller. In this pre-configured controller it is easy to choose different functions by using the external SCP (Systemair Control Panel) to navigate in the menus. The SCP panel can freely be placed either on the unit or separated from it.

The Systemair control system covers most of the demands associated with a modern air handling unit. There are different forms of alarms, time control, temperature control and operating status, where the most important parameters are shown in the SCP display.

To simplify the start up procedure the Systemair control panel has preprogrammed temperature set points, time settings and sensors. All these settings can of course easily be changed to other values.

Features like free cooling, heat/cool recovery and cascade control are standard in most units. The Systemair control system is suitable for communication with BMS (Building Management Systems).



Central units



The DV series replaces our former industrial units and are also produced in Denmark.

We have further developed the strong points and added quite a lot of news. The result has become a highly flexible ventilation unit that answers up to our goal of developing products that are innovative in construction as well as in function.

The DV together with all the other ventilation units available from Systemair offer a complete ventilation solution. With all the other ventilation products in our range Systemair can today offer the most complete ventilation package on the market.

DV 1500-54000 m³/h

- Very strong and rigid frame system
- Panels and frames corrosion protected with Aluzinc 185
- Dampers with rigid damper blades in extruded aluminium
- Different types of
 - filter classes
 - heat recovery systems
 - fans
- Electrical heaters
- Hot water heating coils
- Cold water cooling coils
- DX cooling coils
- Disc-Lock system for easy assembling of sections.

Many alternatives and possibilities

The DV unit is a combination Air Handling Unit which features a number of well-dimensioned functions, presenting a choice between different heat exchanger systems, a range of fans, filters, heating and cooling coils and much more.

The DV unit can be delivered in 12 different sizes, so it is always possible to find a solution and a size covering your needs.

The large removable inspection doors and a lot of parts which demand service are side withdrawable, it makes the service access very easy.

The Disc-Lock is a very quick and efficient way to assemble the DV sections. The system is standard for outside assembly but is also available for inside assembly i.e. if a large unit is placed along the wall.

To ensure correct dimensioning, we developed a highly advanced design program, called SystemairCAD. This is a very user-friendly program which makes it possible to quickly and easily combine different AHU functions, perform technical calculations and document entire processes in the form of an AutoCAD drawing.

Fully dimensioned drawings, plus construction and presentation of technical data provide easy interpretation, with the added benefit of direct transfer of the drawings to AutoCAD.

Summary

Systemair has developed one of the widest ranges of heat recovery units on the market. Our units are well suited for all conditions. They are functional and easy to install and understand.

Systemair air handling units

Systemair's air handling units are built in Sweden, Norway and Denmark and cover an extensive range from 200-54 000 m³/h. The units are available in many different variations from the easier with simple functions, to the most advanced.

A simple and a stable system

The units have a stable construction with frame profiles and chamfered cast aluminium corners or double sheet metal casings. All of the units have 50 mm mineral wool insulation.

The combination of heavy insulation and high efficient fans ensure a low sound level. Due to the insulation the unit can also be placed in cold areas without risk of condensation.

Service minded

The large inspection doors easily give access to all functions, and all components that require maintenance can be easily removed. That is why it is fast and simple to service a Systemair air handling unit.

Regulation, compact units

S = Standard choice

P = Possible settings

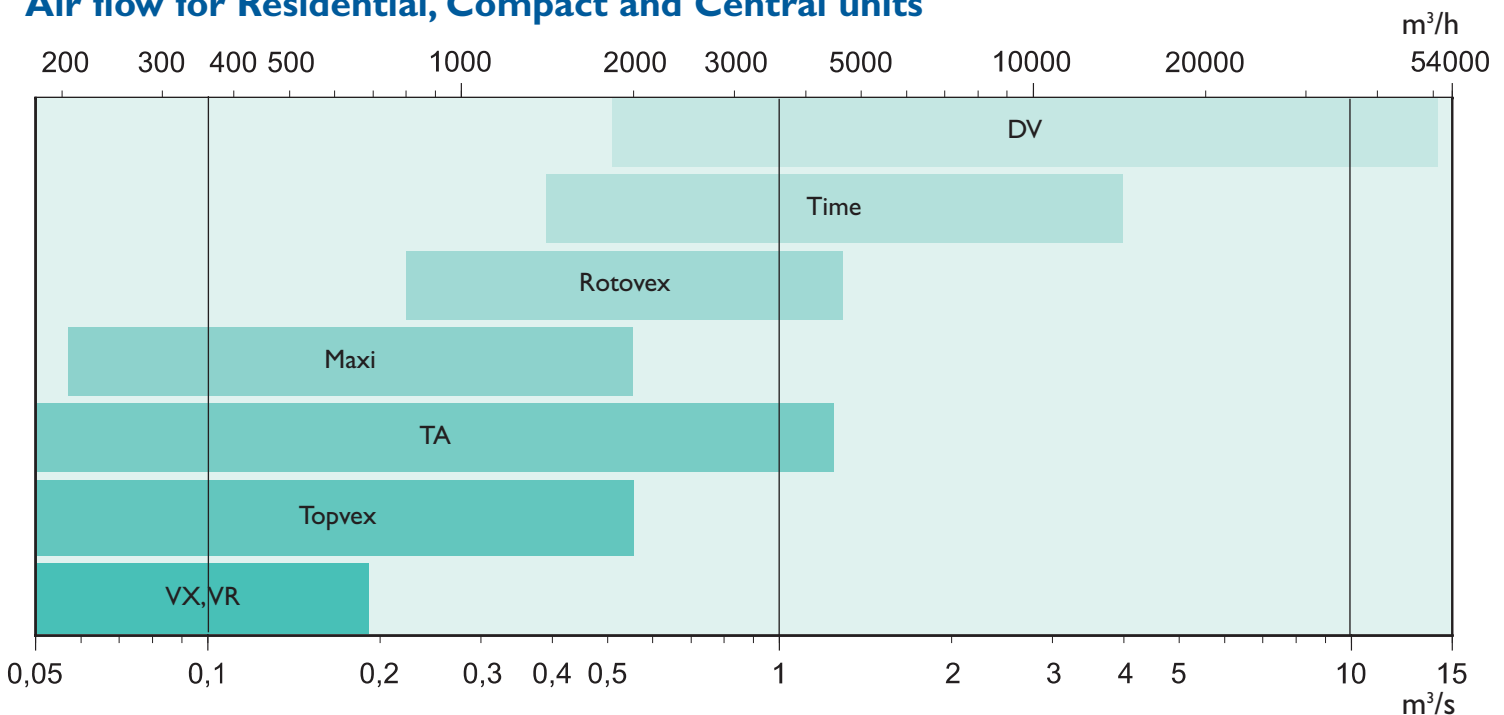
A = Accessories

		TA	Topvex 1000-1500	Topvex 2000	Maxi	Rotovex	Time
Temperature control	Extract air	-	S	S	S	S	S
	Supply air	S	S	S	S	S	S
	Supply air with outdoor compensation	-	S	S	S	S	S
	Room control	-	-	-	S	S	S
	Outdoor changing Supply or Extract/Room air	-	-	-	S	S	S
Fan control	2-step	S	S	S	S	-	-
	Stepless	-	-	-	-	S	-
	Airflow control, CAV	-	-	-	-	S	S
	Pressure control, VAV	-	-	-	-	S	S
	Outdoor compensated airflow	-	-	-	S	S	-
Heat exchanger	Cross flow	-	-	-	S	-	S
	By-pass damper	-	-	-	A *	-	S
	Rotating	-	S	S	-	S	S
Heater	Hot water	S	S	S	S	S	S
	Electrical	S	S	S	S	S	-
Cold water cooler (0...10VDC)	External	S	S	S	S	S	S
	Built-in	-	-	-	-	-	S
Free cooling		-	-	-	P **	P	P
Cool recovering		-	P	P	P **	P	P
Demand ventilation, CO₂	2-step	-	P	P	P	-	-
	Stepless	-	-	-	-	P	P
Pump control	Heating	-	-	-	S	S	S
	Cooling	-	-	-	S	S	S
Exchanger efficiency		-	-	-	P	P	P
Extended running		S	S	S	S	S	S
Week schedule		S	S	S	S	S	S
Damper control	Fresh/Exhaust air	S	S	S	S	S	S
Alarm	Alarm message	S	S	S	S	S	S
	High and low priority	-	-	-	S	S	S
	Sum alarm output	S	-	-	S	S	S
Communication	Exoline, Modbus	A	A	A	S	S	S
	LON, TCP/IP via RS-485	A	A	A	A	A	A

* Maxi 1100 has the by-pass built-in as standard

** By-pass damper is necessary

Air flow for Residential, Compact and Central units





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