



overview of HRV units,
accessories
and air ducts



Heat Recovery Ventilation

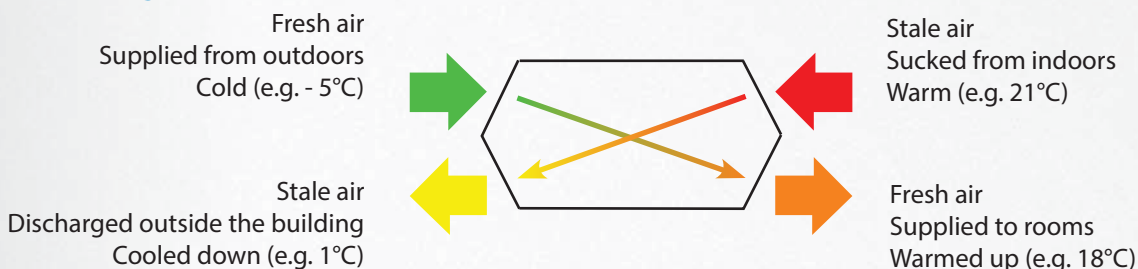
A heat recovery ventilation system is intended for optimum air exchange in a building with minimum heat loss from ventilation. Thermal loss caused by ventilation in current family houses ventilated by micro-ventilation or semi-opened windows makes up to 40% of the total heat loss of a building. Heat recovery ventilation has become an integral part of recent ventilation systems. Thanks to heat transfer between the outgoing and incoming air, a house is ventilated sufficiently without suffering from high heat loss.

More and more strict requirements regarding the airtightness of the building envelope and other construction elements bring about insufficient air exchange inside the buildings, causing problems with dampness, mould and growth of microorganisms like e.g. mite, which often leads even to health problems. These problems cease when a ventilation system is installed. The building is ventilated mechanically, with different intensity at different times of day. Permanent ventilation is ensured this way even at times when nobody is present.

A heat exchanger has become a crucial component in recent Heat Recovery Ventilation (HRV) systems. It transfers heat from the outgoing stale warm air to the incoming fresh cold air.

However, it shall be noted that this is no heating appliance, just a ventilation unit ensuring the necessary air exchange. For this reason the building in question shall be equipped with an independent heating system and a heat source. HRV systems for detached houses require neither a detailed design nor complicated calculations, the principle and design of a Heat Recovery Ventilation system is very simple. Just a couple of principles shall be maintained during design and installation that are described on the following pages.

Working principle











Fresh air is sucked into the HRV unit either through an outer wall or through a vent duct termination in a roof. The incoming fresh air flows into the HRV unit where it is preheated in a heat exchanger by heat taken from the warm stale exhaust air.

The preheated fresh air is distributed to individual rooms like bedrooms, living room, study etc. while the stale air is extracted from wet rooms like a toilet, bathroom or kitchen. This way the incoming fresh air flows through the entire house and adequate whole house ventilation is secured. It is not advisable to connect a kitchen hood to such a ventilation system because there is a risk of air ducts becoming contaminated with impurities coming from cooking.

The cooled stale air is discharged either through an outer wall or through a roof, however a minimum distance from the intake orifice shall be secured. Single room HRV units are installed in a peripheral wall, so no air ducts are needed.

Heat recovery ventilation

Code

	HR30W - for walls up to 280mm thick Single-room heat recovery ventilation unit	6954
	HR100W - for walls up to 280mm thick Single-room heat recovery ventilation unit	6955
	HR 100R - ducted HRV unit for single-bedroom apartments, for attic installations	7483
	HR 100RS - ducted HRV unit for single-bedroom apartments, for suspended ceiling	10308
	Sentinel Kinetic Horizontal 200ZPH central HRV unit for flats and family homes, incl. room unit, integrated humidity sensor, summer bypass, max. air flow rate 168 m ³ /h	16709
	Sentinel Kinetic B Ducted heat recovery ventilation unit with integrated controller and summer bypass, air extraction 275 m ³ /h max.	10176
	Sentinel Kinetic B Plus Ducted heat recovery ventilation unit with integrated controller and summer bypass, air extraction 490 m ³ /h max.	10335
	Sentinel Kinetic Advance S a SX central HRV unit for family homes, incl. integrated controller w. touch screen, humidistat, integrated summer bypass, max. air flow rate 490 m ³ /h	16487 16488

■ A whole-house ventilation system



■ System design

HRV system design is simple, requiring no complicated calculations.

First of all, a suitably sized unit shall be selected depending on the size of the building and number of inhabitants. Sentinel Kinetic B, Sentinel Kinetic Advance or Horizontal 200ZPH are the best for single-family houses with living area up to 200 sqm. Then, the duct routes and positions of air disks shall be considered.

Ideally, both supply and exhaust air disks should be located in a ceiling. If this is not possible, air can be supplied through grilles above the floor. In any case, stale air intake shall not be located less than 150 cm above floor.

Air ducts are routed from the unit to individual rooms. Regulus ventilation systems use 3 basic types of air ducts. Either round flexible aluminium ducts, or rigid rectangular plastic ducts 60×200 mm, or flexible highly resistant PE ducts with antibacterial treatment. For newly built houses, consult the ducting layout with your building designer.

In case of a house remodelling, our engineers are ready to help you with ducting design.



Sentinel Kinetic Advance

Sentinel Kinetic Advance S and SX Central HRV Units are HRV units of a new generation that permit respecting individual living mode in the building and the lifestyle of the user. They are designed for continuous ventilation of family homes of living area up to 300 sqm, bringing maximum comfort for the user and an easy installation. The most advanced materials are used for the production.

Advance HRV Units are equipped with an integrated digital controller with a touchscreen, automatic bypass, humidity sensor, a condensate discharge point, enabling also WiFi connectivity. For the most comfortable ventilation, also carbon dioxide sensors, humidistats, PIR sensor and similar can be added.

The inner room of the units is fitted with high-quality thermal insulation which permits the units to be installed also in unheated spaces (e.g. an attic) without suffering from energy losses.

The unit can be controlled via the integrated backlit touchscreen, via WiFi connection or through a master controller. The touchscreen can be fitted directly on the unit, or connected via a docking station. The WiFi connection enables the user immediate access to the unit, its commissioning, configuring and monitoring of the ventilation mode. Then the unit can be controlled and its settings modified using a smartphone or tablet.

Two G3 filters are integrated in Kinetic Advance units for the sake of a healthy climate inside the building. When even a better filtration is needed, F5 filters can be added downstream from the G3 filters that will secure clean air even in locations with polluted air.

Due to the high efficiency of the unit, the heat exchanger could suffer from ice formation under extreme frost. For this reason the unit is equipped with an automatic defrost function. A frozen heat exchanger can be also prevented by installing an air duct heater in the intake air duct – see the chapter Air duct heaters.

A cooler outdoor air can be used to help cool the building via the integrated summer bypass.

Types

Sentinel Kinetic Advance S code: 16487
 Sentinel Kinetic Advance SX code: 16488

Compared to the S type, the SX unit is equipped with a WiFi module and a constant volume feature.

Technical Data

PERFORMANCE DATA

Max. air flow rate *	414 m ³ /h
Heat recovery efficiency	max. 93 %
Energy Efficiency Class	A+

**flow rates for specific installations shall be modified by performance diagrams*

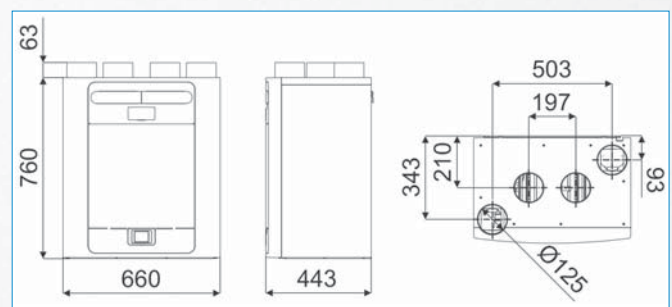
AKUSTICKÉ PARAMETRY

Sound level (at 3 m distance)	15.5 dB(A) for low air flow 34 dB(A) for high air flow
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Performance modes

5 preset performance modes are available in the unit. It is possible to program a different ventilation intensity for different day periods and for separate days of a week, purge intervals and silent hours for night operation. Maintaining optimum relative humidity inside the building is ensured by automatic proportional air flow increase based on the measurements from an integrated humidity sensor.

Dimensions





Sentinel Kinetic B

A whole-house heat recovery ventilation unit with integrated summer by-pass, designed for ventilation of family homes of living area up to 200 sqm.

An integrated air bypass permits air to bypass the heat exchanger in the summer. Its control is automatic, based on both the outdoor and indoor temperatures.

The unit control is very simple, different ventilation intensity can be programmed for different times. It shall be installed on the wall in a utility room or on the floor in the attic.

The unit is fitted with a condensate discharge point that needs to be connected to a sanitary sewer.

The unit involves replaceable G3 class air filters (for fine dust).

As a result of the unit's high efficiency, during periods of extreme frost the heat exchanger might suffer from freezing; for this reason the unit is equipped with an automatic defrosting function. The heat exchanger freezing can be prevented by installing an air duct heater on the intake air duct – see the Air Duct Heaters chapter.

A compact size and a very low noise level are the big advantages of this unit.

Code: 10176

Performance modes

3 performance modes (speeds) are preset in the unit depending on the ventilated area. The preset values can be changed freely. Switching between low and medium speed modes is automatic following the preset time program. High speed mode (boost) can be switched on either periodically, or by schedule, or by pressing a key. The boost mode start can be also automatic, e.g. by turning on the light in toilet.

Technical Data

PERFORMANCE DATA

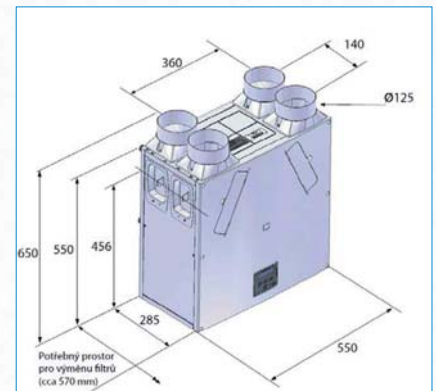
Max. air flow rate *	275 m ³ /h
Heat recovery efficiency	max. 92 %
Energy Efficiency Class	A
Low air flow	20 % (preset)
Medium air flow	30 % (preset)
High air flow	50 % (preset)
Purge	100 %

*flow rates for specific installations shall be modified by performance diagrams

ACOUSTIC DATA

Sound level (at 3 m distance)	20 dB(A) for medium air flow
	36 dB(A) for high air flow

Dimensions



Accessories

The inbuilt control panel permits connection of external control elements, e.g. a humidity sensor or a carbon dioxide sensor. A remote control panel can be connected as well which is suitable in installations where the unit is located at a not easily accessible place.

Air flow settings with respect to the total floor area of ventilated rooms.

Max. ventilated room		Low air flow		Medium air flow		High air flow (boost)	
living area	space volume	setting	[m ³ /h]	setting	[m ³ /h]	setting	[m ³ /h]
80 m ²	200 m ³	25%	40	40%	70	60%	130
100 m ²	250 m ³	30%	50	50%	100	70%	160
120 m ²	300 m ³	35%	60	60%	130	80%	200
150 m ²	375 m ³	40%	70	70%	160	100%	240



Sentinel Kinetic B Plus

A whole-house heat recovery ventilation unit with integrated summer by-pass, designed for ventilation of family homes of living area up to 350 sqm.

An integrated air bypass permits air to bypass the heat exchanger in the summer. Its control is automatic, based on both the outdoor and indoor temperatures.

The unit control is very simple, different ventilation intensity can be programmed for different times. It shall be installed on the wall in a utility room or on the floor in the attic.

The unit is fitted with a condensate discharge point that needs to be connected to a sanitary sewer.

The unit involves replaceable G3 class air filters (for fine dust).

As a result of the unit's high efficiency, during periods of extreme frost the heat exchanger might suffer from freezing; for this reason the unit is equipped with an automatic defrosting function. The heat exchanger freezing can be prevented by installing an air duct heater on the intake air duct – see the Air Duct Heaters chapter.

A compact size and a very low noise level are the big advantages of this unit.

Code: 10335

Performance modes

3 performance modes (speeds) are preset in the unit. Preset values can be changed freely in relation to the space to be ventilated. Switching between low and medium speed modes is automatic following the preset time program. High speed mode (boost) can be switched on either periodically, or by schedule, or by pressing a key. The boost mode start can be also automatic, e.g. by turning on the light in toilet.

Technical Data

PERFORMANCE DATA

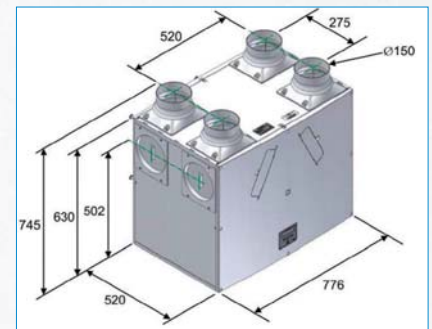
Max. air flow rate *	490 m ³ /h
Heat recovery efficiency	max. 92%
Energy Efficiency Class	A+
Low air flow	20% (preset)
Medium air flow	30% (preset)
High air flow	50% (preset)
Purge	100%

*flow rates for specific installations shall be modified by performance diagrams

ACOUSTIC DATA

Sound level (at 3 m distance)	24 dB(A) for medium air flow
	34 dB(A) for high air flow

Dimensions



Accessories

The inbuilt control panel permits connection of external control elements, e.g. a humidity sensor or a carbon dioxide sensor. A remote control panel can be connected as well which is suitable in installations where the unit is located at a not easily accessible place.

Air flow settings with respect to the total floor area of ventilated rooms.

Max. ventilated room		Low air flow		Medium air flow		High air flow (boost)	
living area	space volume	setting	[m ³ /h]	setting	[m ³ /h]	setting	[m ³ /h]
150 m ²	375 m ³	10%	40	40%	150	60%	250
170 m ²	425 m ³	15%	60	45%	170	70%	280
200 m ²	500 m ³	25%	90	50%	200	80%	330
230 m ²	575 m ³	30%	120	60%	250	100%	380



Sentinel Kinetic Horizontal 200ZPH

A central heat recovery ventilation unit, designed for continuous ventilation of family homes and flats of living area up to 120 sqm.

Kinetic Horizontal 200 ZPH HRV Units are equipped with an integrated digital controller, automatic bypass, humidity sensor and a condensate discharge point. For the most comfortable ventilation, also carbon dioxide sensors, humidistats, PIR sensor and similar can be added.

Horizontal 200 ZPH HRV Units, just 200 mm high, offer many variants for placing inside the rooms to be ventilated. They are especially suitable for installation into a ceiling void, or freely under the ceiling and into roof framing. In order to minimize heat loss and permit installation into unheated rooms, the unit is fully thermally insulated.

Two G3 filters are integrated in Kinetic Advance units for the sake of a healthy climate inside the building.

Due to the high efficiency of the unit, the heat exchanger could suffer from ice formation under extreme frost. For this reason the unit is equipped with an automatic defrost function. A frozen heat exchanger can be also prevented by installing an air duct heater in the intake air duct – see the chapter Air duct heaters.

A cooler outdoor air can be used to help cool the building via the integrated summer bypass.

Code: 16709

Technical Data

PERFORMANCE DATA

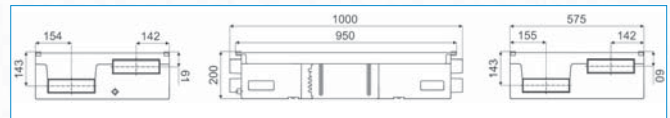
Max. air flow rate *	168 m ³ /h
Heat recovery efficiency	max. 86 %
Energy Efficiency Class	A
Low air flow	20 % (preset)
Medium air flow	30 % (preset)
High air flow	50 % (preset)
Purge	100 %

**flow rates for specific installations shall be modified by performance diagrams*

ACOUSTIC DATA

Sound level (at 3 m distance)	20,8 dB(A) for medium air flow
	27,7 dB(A) for high air flow

Dimensions



Performance modes

A different ventilation intensity can be programmed for different day times. The unit comes with a digital controller that can be placed inside the dwelling and used for a quick change in ventilation modes depending on the individual needs of the user. The integrated humidity sensor increases speed in proportion to relative humidity levels.



HR 100 R and HR 100 RS

Central HRV units intended for ventilation of small flats or single rooms, featuring 2 speed modes – low and high. They need an external switch for control, mostly a plain rocker switch on a wall or a humidistat.

Both the HRV unit and air ducts are usually installed into a ceiling void or unused attic.

HR 100 R is suitable for attic-room installations. The service panel is located on its upper side.

Code: 7483

HR 100 RS is suitable for ceiling void installations or for ceiling mount. The service panel is located on its bottom.

Code: 10308

Technical Data

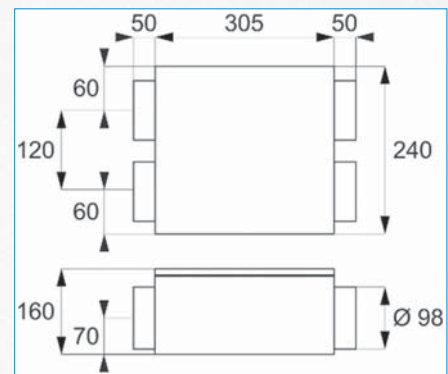
PERFORMANCE DATA

Air flow	66 m ³ /h (max. air flow) 48 m ³ /h (current air flow)
Heat recovery efficiency	max. 70%

ACOUSTIC DATA

Sound level (at 3 m distance)	20 dB(A) for current air flow 30 dB(A) for max. air flow
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Dimensions



Accessories

G3 class air filters (fine dust) and insulation kits for heat loss reduction are available as accessories.

■ SINGLE-ROOM HRV UNITS



HR 100 W and HR 30 W

Single-room HRV units intended for ventilation of single rooms (living rooms, kitchens, bathrooms, toilets etc.). They feature 2 speed modes – low and high, and an external switch is needed for control, mostly a plain rocker switch on a wall or a humidistat.

This unit is designed to be installed in a wall, its suitable thickness is between 220 and 280 mm (up to 500 mm with an extension, see Accessories).

Code:

HR 100 W 6955

HR 30 W 6954

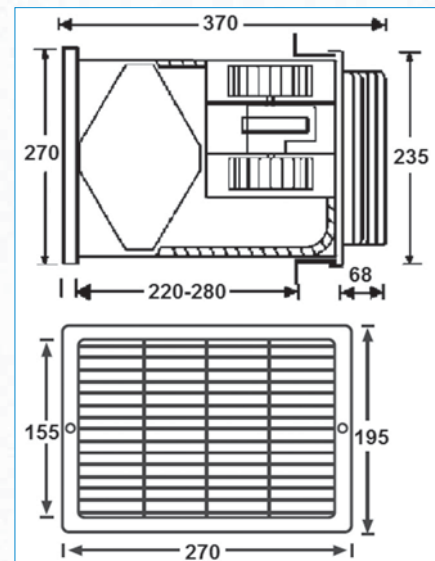
Technical Data

PERFORMANCE DATA	HR 100W	HR 30W
Low air flow - intake	38 m ³ /h	30 m ³ /h
Low air flow - exhaust	43 m ³ /h	35 m ³ /h
High air flow - intake	69 m ³ /h	40 m ³ /h
High air flow - exhaust	77 m ³ /h	50 m ³ /h
Heat recovery efficiency	max. 70%	max. 70%

ACOUSTIC DATA

Sound level (at 3 m distance)	20 dB(A) for low air flow	
	35 dB(A) for high air flow	28 dB(A) for high air flow

Dimensions



Accessories

EXT100 Extension is available that permits installation into thicker walls, 280-500 mm.

ROUND FLEXIBLE DUCTS

Ducting can be bent easily so no elbows are needed. These hoses are delivered in one- or two-layer versions, with 25 cm thick insulation.

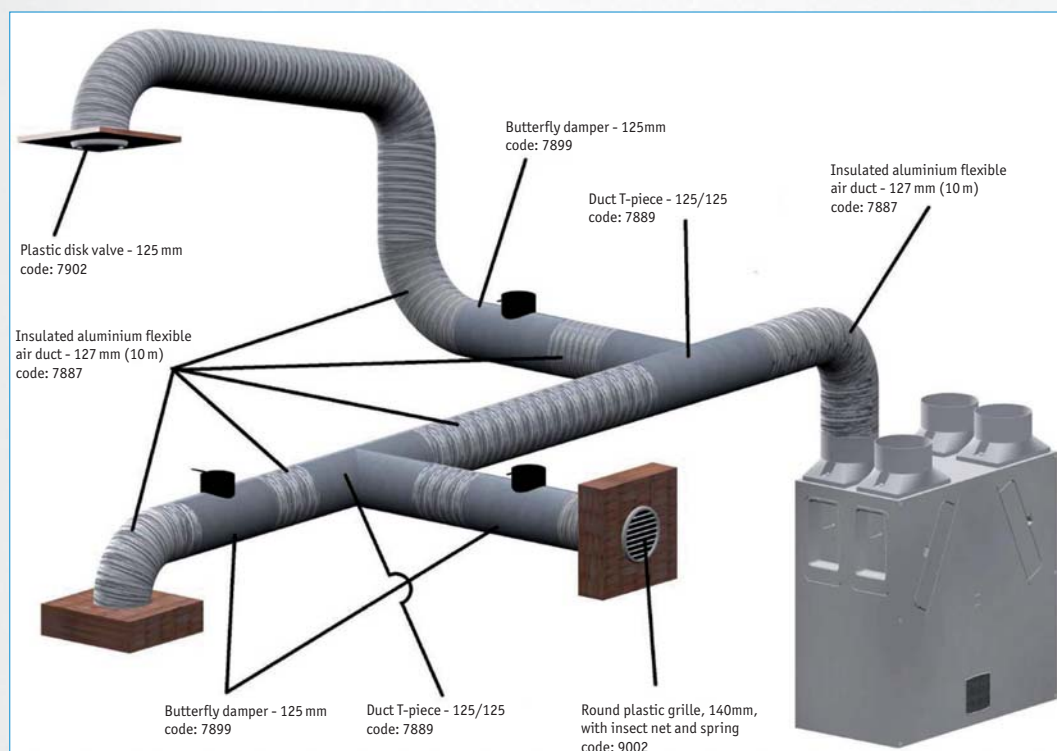
The duct size depends on the air volume to be transported (unit size):

HR100R.....	DN 100 mm
Sentinel Kinetic B.....	DN 125 mm
Sentinel Kinetic B Plus.....	DN 150 mm-backbone duct, for branches 125mm is sufficient
Sentinel Kinetic Horizontal.....	200x60 mm
Sentinel Kinetic Advance.....	DN 125 mm

For HR 100R and in confined spaces also for Sentinel models, the ducts supplying air to small rooms under 15 sqm can be reduced even to 100mm in diameter.

Metal adapters are used to make branches or transitions. A flexible duct shall be shifted onto the adapter and fixed with a hose band or a duct tape.

Installation example with round air ducts



Through the wall ducts

Round plastic duct shall be fitted into a wall and fixed with mortar. Its outer diameter shall correspond to the flexible duct diameter. About 3 cm of the rigid duct shall be left protruding from the wall, enabling the flexible duct be shifted on it.



ROUND FLEXIBLE AIR DUCTS

Round hoses

Code



Single layer aluminium flexible air duct, 100 mm x 5 m

7743

Single layer aluminium flexible air duct, 125 mm x 5 m

7589

Single layer aluminium flexible air duct, 150 mm x 5 m

7886



Insulated aluminium flexible air duct, 102 mm x 10 m

8000

Insulated aluminium flexible air duct, 127 mm x 10 m

7887

Insulated aluminium flexible air duct, 152 mm x 10 m

7888

Insulated aluminium flexible air duct, 203 mm x 10 m

8037

Fittings

Code



Duct coupler, 100 mm

8854

Duct coupler, 125 mm

7894

Duct coupler, 150 mm

7895



Duct reducer, 125/100

7896

Duct reducer, 150/125

7897

Duct reducer, 150/100

16653

Duct reducer, 200/150

7904



Duct T-connector 100/100

7769

Duct T-connector 125/100

7721

Duct T-connector 125/125

7889

Duct T-connector 150/100

7890

Duct T-connector 150/125

7908

Duct T-connector 150/150

7891

Components

Code



Butterfly damper, 100 mm

7898

Butterfly damper, 125 mm

7899

Butterfly damper, 150 mm

7900



Airtight butterfly damper, 100 mm

7771

Airtight butterfly damper, 125 mm

10872

Airtight butterfly damper, 150 mm

11565

SANIFLEX FLEXIBLE ROUND ANTIBACTERIAL DUCTS

Saniflex is flexible round antibacterial thermally insulated ducting. The inner air duct is a foil made of self-extinguishing poly-olefin resins with silver ions that prevent growth of a wide range of microorganisms. The next layer is formed by a 25 mm thick thermal insulation of mineral wool with a plastic outside jacket that offers excellent vapour barrier, preventing moisture condensation.

Saniflex is suitable also for more demanding applications in air distribution, air conditioning and heating.

Air ducts

Code



Thermally insulated antibacterial air duct 127 mm x 10 m

16068

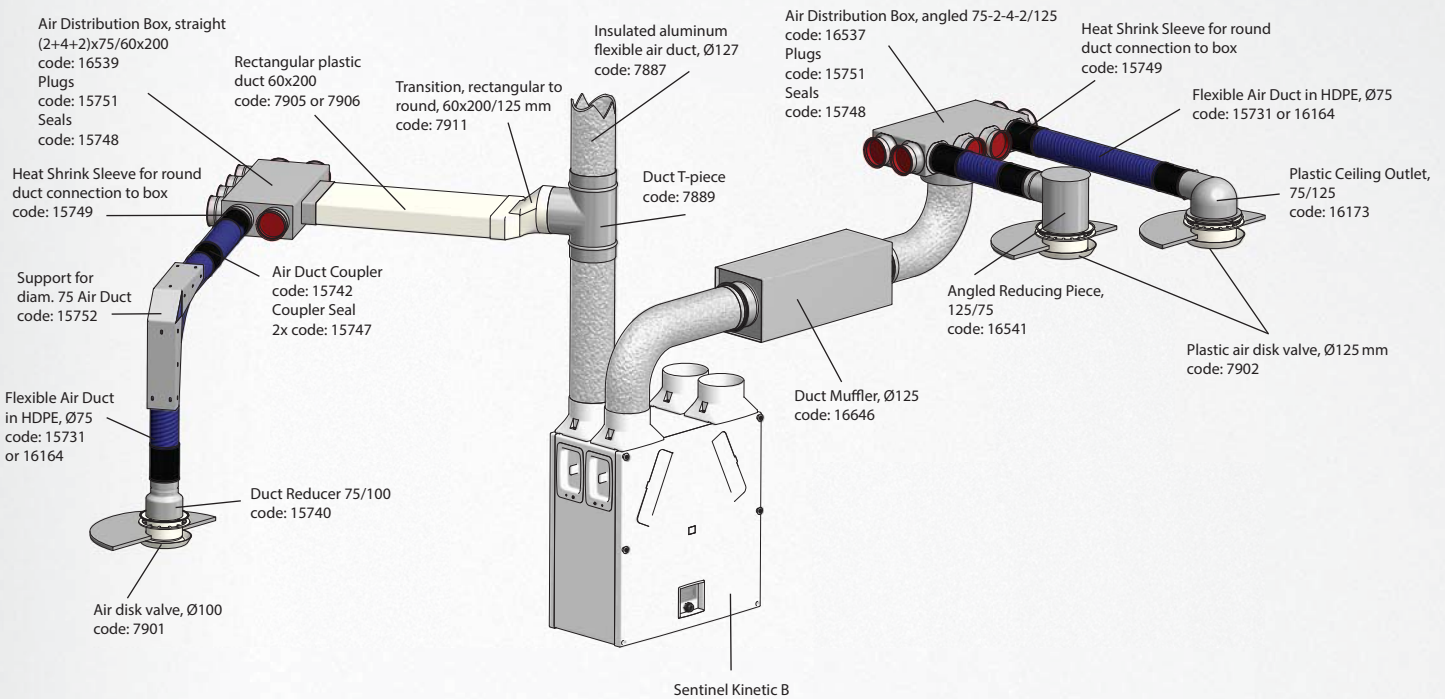
HIGHLY RESISTANT FLEXIBLE PE AIR DUCTS

Air ducting made of special polyethylene, its inner wall with smooth surface offers low pressure drop for air transport and easy cleaning. Its small diameter (75 mm) permits easy installation into suspended ceiling. High mechanical resistance enables also installation into floors, to concrete screed. The duct material contains ions of silver that ensure antistatic, antibacterial and antifungal protection.

Advantages:

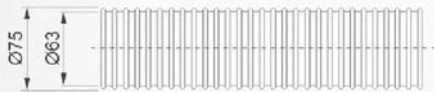
- minimum pressure drop
- easy cleaning
- simple handling and installation
- noise suppression
- hygienic protection
- long service life

Installation example with round ducting



Flexible pipes

Delivered in 10 or 50m bulk pack, ends plugged.



Distribution boxes

Designed as connection parts for separate branches of FLX-HDPE-A ducts, connection for flexible aluminium air ducts.



HIGHLY RESISTANT FLEXIBLE PIPING

Round air pipes

Code



ø 75 Air Duct, antibacterial - 50 m (FLX-HDPE-A-75)	15731
ø 75 Air Duct, antibacterial - 10 m (FLX-HDPE-A-75-10)	16164

Air distribution boxes

Code



Air Distribution Box, angled, 3x75/125 (FLX-PRO-75-3)	15733
Air Distribution Box, angled, (1+3+1)x75/125	16536
Air Distribution Box, angled, (2+4+2)x75/125	16537
Air Distribution Box, angled, (2+4+2)x75/150	16538
Air Distribution Box, angled, long, 3x75/125 (FLX-PRO-L-75-3)	15735
Air Distribution Box, straight, (1+3+1)x75/60x200	16540
Air Distribution Box, straight, (2+4+2)x75/60x200	16539
Air distribution box, straight, long, 2x75/125 (FLX-PRO-PL-75-2)	15736
Air distribution box, straight, long, 3x75/125 (FLX-PRO-PL-75-3)	15737

Plastic Air Disc Valves

Code



Plastic Ceiling Outlet, 125/75	16173
Plastic air duct disk valve, 100 mm	7901
Plastic air duct disk valve, 125 mm	7902

Accessories

Code



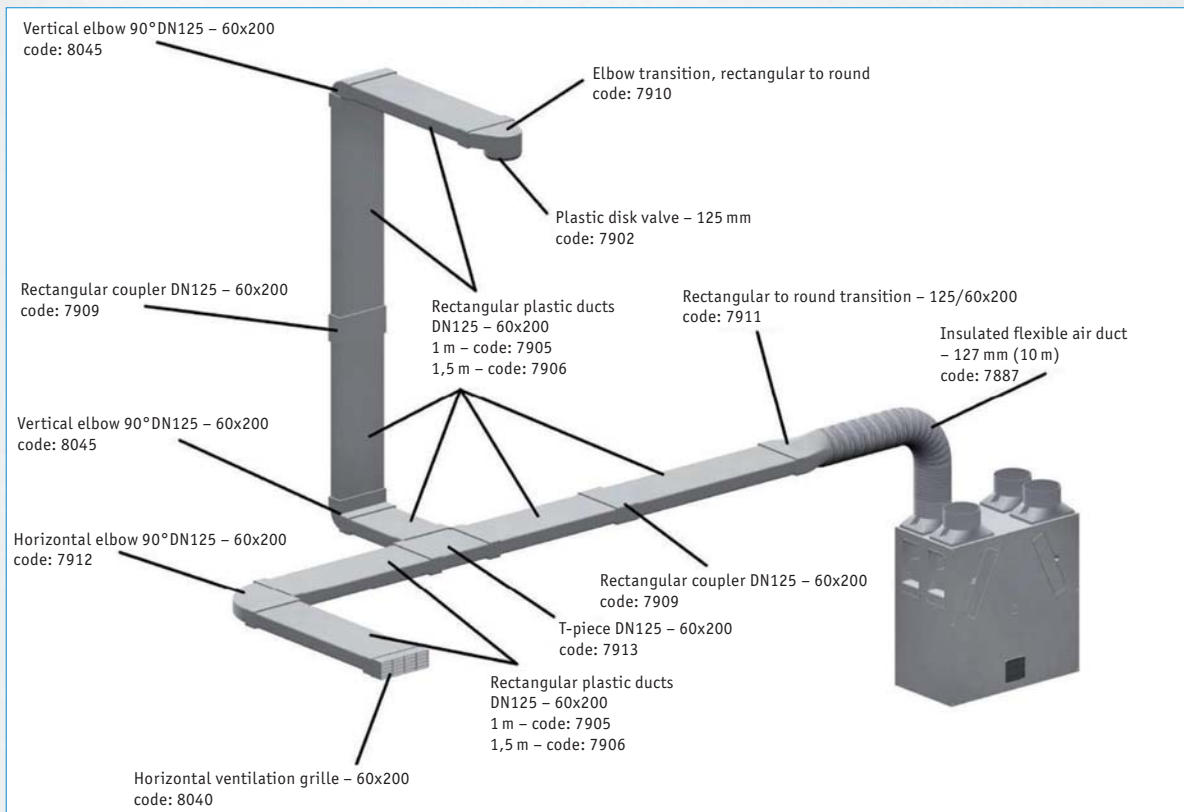
Extension, 125 mm x 0.5 m	16542
Extension, 150 mm x 0.5 m	16706
Butterfly damper (FXL-DAS-75)	16730
90° Bend (FLX-BP-75)	15739
100/75 Adapter (FLX-RPC-100-75)	15740
125/75 Adapter (FLX-RPC-125-75)	15741
Angled Reducing Piece, 125/75 (FLX-RR-75/125)	16541
Support for flexible air duct (FLX-FAX-75)	15752
Flexible Duct Coupler (FLX-MSF-75)	15742
Heat shrink sleeve (FLX-UST-75)	15749
Gasket between flexible duct and box (FLX-USC-75)	15748
Gasket between flexible duct and coupler (FLX-USZ-75)	15747
Air Distribution Box Plug (FLX-CF-PVC-75)	15751
Flexible Duct Plug (FLX-CS-PVC-75)	15750
DUCT Universal adhesive tape - 50 mm x 50 m x 0.15 mm, up to 60 °C	16654
TALE Sealing tape - 50 mm x 50 m x 0.3 mm, up to 120 °C	16655

RECTANGULAR PLASTIC DUCTS

Plastic ducting of 60x200 mm cross section. It is so flat that it can be installed even into constrained ceiling voids or floors. The plastic ducts are rigid so transitions are needed to change the direction or divide the air flow - bends or T-pieces. When installed into an unheated space (attic), additional insulation is needed.

Rectangular plastic ducting connects through so called sockets. Straight sections are slid into the sockets of shaped transitions, and two transitions cannot be connected directly, only through a section of a straight duct.











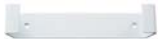
Installation example with rectangular plastic air ducts



■ RECTANGULAR PLASTIC DUCTS

Rectangular plastic ducts

Code



	Rectangular plastic ducts, 60x200, 1 m	7905
	Rectangular plastic ducts, 60x200, 1,5 m	7906
	Rectangular coupler, 60x200 mm	7909
	Elbow transition, rectangular to round, 60x200/125 mm	7910
	Elbow transition, rectangular to round, 60x200/100 mm	8243
	Rectangular to round transition, 125/60x200 mm	7911
	Horizontal elbow 90°, 60x200 mm	7912
	Horizontal elbow 45°, with divisible segments, 60x200 mm	9744
	Vertical elbow 90°, 60x200 mm	8045
	T-piece T, 60x200 mm	7913
	Horizontal ventilation grille, 60x204 mm	11754
	Round plastic duct, 100 mm x 1 m	8852
	Round plastic duct, 125 mm x 1 m	8039
	Round plastic duct, 150 mm x 1 m	16731
	Rectangular duct clip, 204x60 mm	14255

AIR DUCT HEATERS

An air duct heater installs directly into a round duct upstream of the heat recovery unit. It is intended primarily for preventing the unit from entering defrost mode, i.e. from creating a slight negative pressure inside the building. A heater of circa 400W output is sufficient to pre-heat the incoming air. The heater is thermostat-controlled, switching on for low outdoor temperature periods only.

Air duct heaters

Code

	Electric air duct heater, 0.4 kW DN 125, incl. an adjustable and safety thermostats, 3m cable	14059
	Electric air duct heater, 0.6 kW DN 150, incl. an adjustable and safety thermostats, 3m cable	14769
	Hot water air duct heater 1.2 kW DN200	9215

Duct noise muffler

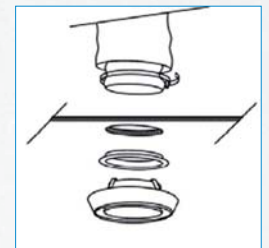
Insulated flexible ducts have very good soundproofing properties. Should there be less than 3m from the unit to the closest outlet, it is advisable to install a duct muffler. *Code 16646.*



Plastic air disk valves






It is advisable to use plastic disk valves for easy installation and proper air distribution in a room. They are user-adjustable from inside the ventilated room and can be mounted into a ceiling or a suspended ceiling, fitted on a plastic transition piece or on a flexible aluminium duct. When connected to a 75mm flexible air duct, a straight steel reducer or a ceiling plastic air disk valve shall be used. The valve diameter depends on the diameter of the ducting and on the size of the ventilated room.

Round grilles may be fitted into walls.



Plastic air disk valves

Code

	Supply and exhaust plastic air disk valve, 100 mm	7901
	Supply and exhaust plastic air disk valve, 125 mm	7902
	Round plastic grille, insect net, 80-125 mm	9002
		100 mm 16647
	Round grille in CrNi stainless steel, insect mesh	125 mm 16648
		150 mm 16649
		100 mm 16650
	Round grille in CrNi stainless steel, bull nose, insect mesh	125 mm 16651
		150 mm 16652
	Vertical terminal 125 mm	175
	Pitched-roof flashing, malleable Al sheet	8014

INSTALLATION COMPONENTS

Hose band and clamp

In order to fix round ducts to their mating adaptors, a hose band is used that is available in 30m coils. Any desired portion of the hose band can be cut off and fitted with a clamp. Hose band code: 9209. Clamp code: 9210.



Duct cleaning spray

Air ducts cleaning is often difficult, for this reason we recommend using a chemical spray. The frequency of chemical treatment depends on the quality of air supplied from outside / extracted from inside the building. The minimum cleaning interval is once a year. Code 10686.



Installation components

		Code
	Humidity sensor for Sentinel Kinetic	10177
	CO ₂ sensor for Sentinel Kinetic	11852
	Remote control, 15m cable, for Sentinel Kinetic	10757
	Wireless boost switch for Sentinel Kinetic	10756
	0-10V Module for Sentinel Kinetic Advance	16607
	WiFi Module for Sentinel Kinetic Advance S	16608
	Docking station for Advance unit control module, incl. 15 m cable	16609
	Voltage-free Extension Module for Sentinel Kinetic Advance, 4 inputs	16610
	Extension Module for Sentinel Kinetic Advance, 2 inputs	16611
	Hygrostat HR-S - 35-95% rel.vlhkosti, mechanický	14334
	Aluminum foil tape 50 mm x 50 m	11515
	Insulation for HR100R HRV unit	11767
	Insulation for HR100RS HRV unit	11768
	Set of 2 G3 filters for Sentinel Kinetic HRV unit	13323
	Set of 2 G3 filters for Sentinel Kinetic B Plus HRV unit	13325
	Set of 2 F5 pollen filters for Sentinel Kinetic HRV unit	13324
	Set of 2 F5 pollen filters for Sentinel Kinetic B Plus HRV unit	13326
	Spare filter fabric for HR30W and HR100W	9001
	Spare filter fabric for HR100R	8136
	G3 filters for Sentinel Kinetic Advance, set of 2	16891
	F5 filters for Sentinel Kinetic Advance, set of 2	16892

