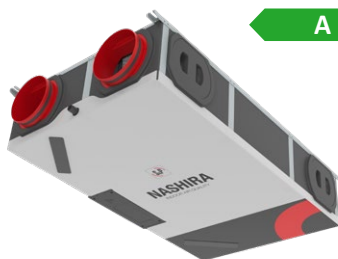
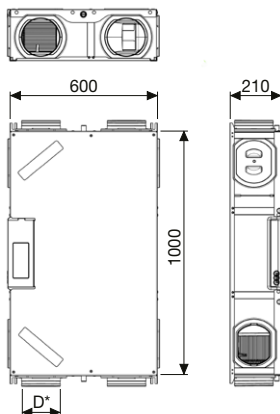


NASHIRA



enthalpy exchanger



* diameter D:
 NASHIRA 150 – 125 mm
 NASHIRA 200 – 160 mm



EC motor


 max. efficiency
 recovery

 energy efficient
 ventilation system

 reversible
 design

Video



montage

Technical parameters

Cabinet

is made of durable high-density EPP. The front metal panel is powder-coated white. The circular connection sockets are Ø 125 mm (NASHIRA 150) or 160 mm (NASHIRA 200) with the possibility of turning them into the sides of the unit. The sockets are equipped with a double-lip seal. Inspection access is from the bottom of the unit.

Fans

On the discharge and suction sides, radial fans with backward-curved blades are installed.

The motors

are single-phase EC 230 V/50 Hz.

Heat recovery

The counter-flow plate exchanger is made of aluminum, efficiency up to 94%. NASHIRA E is equipped with a counter-flow enthalpy exchanger with a temperature efficiency of up to 90%, moisture transfer up to 78%. The exchanger is accessible after dismantling the front wall of the unit. For summer operation, the unit is equipped with an exchanger bypass.

Filter

A G4 filter (ISO coarse 65%) is fitted as standard for fresh and exhaust air intake. M5, F7, F9, CA (activated carbon filter) filters can be supplied as accessories for fresh air intake.

Control

The unit is fitted with 4 temperature sensors and one relative humidity sensor, based on which the unit can operate in autonomous mode without the need for user intervention. The remote control allows for fan speed adjustment, manual by-pass control, activation of automatic operation and filter clogging signaling. A wireless control kit can be supplied as an accessory. Other unit settings are made using DIP switches and potentiometers on the controller control board after removing the front cover. The unit can also be controlled using a mobile or web application (Connectair platform), via Modbus or an external 0–10 V signal. The unit has a contact on the board to activate the BOOST function. The parameters of the BOOST function can be set using the Modbus protocol.

Electrical connection

A three-core 230 V / 50 Hz power cable is output from the unit, which is not terminated with a plug (connection to the box).

Installation

The unit is intended for horizontal installation under the ceiling in interior spaces. By switching the DIP switch, it is possible to configure the mirror location of the nozzles on the unit. The required ambient temperature is at least 12 °C. The unit must be installed in such a way as to ensure sufficient space for removing the front of the unit, replacing

filters, connecting the condensate drain to a waste with a siphon odor trap and for performing periodic inspections of the electrical installation. In the case of mounting the unit above the false ceiling, an inspection opening for operation is required.

Noise

The tables show the sound power level at the nozzles and the casing.

Accessories

- ED Flex® System circular ducts
- AIRSENS-CO2 intelligent CO2 sensor,
- SPCM Lite M communication module
- SONOULTRA flexible silencer
- SF-P 138 siphon with cap
- KIT RF NASHIRA wireless control

Instructions

The unit is not equipped with its own heater. If you require additional heating of the supply air, you can use our MBE and MBW pipe heaters with appropriate control elements. Units with an enthalpy exchanger can be operated without condensate drainage if the prescribed conditions are met (outdoor environment T > -4 °C, indoor environment T < 22 °C, r.h. < 60%).

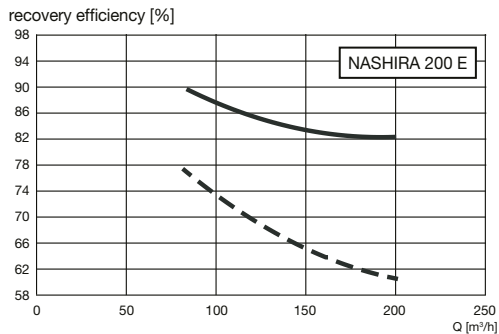
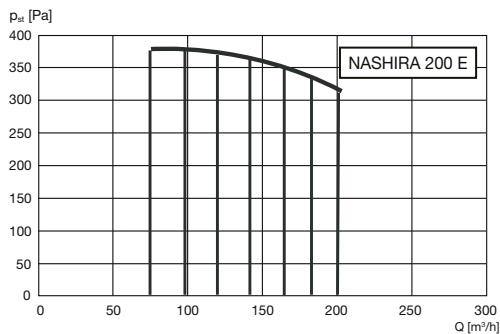
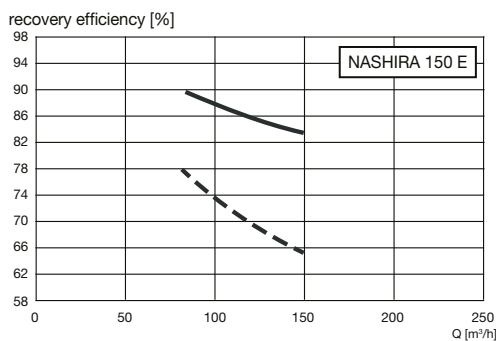
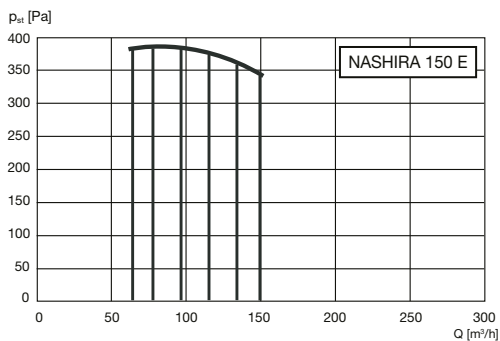
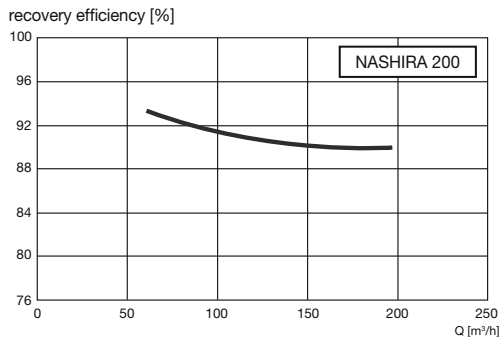
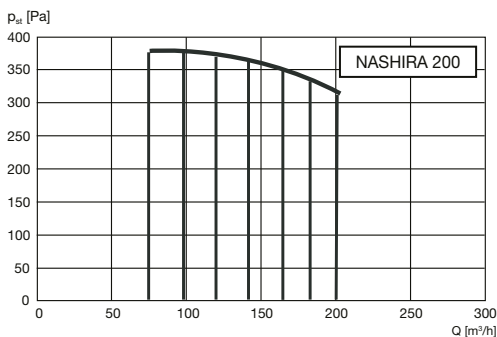
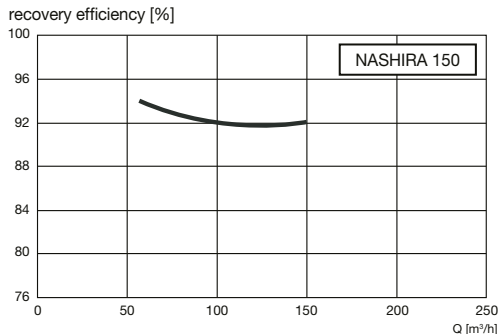
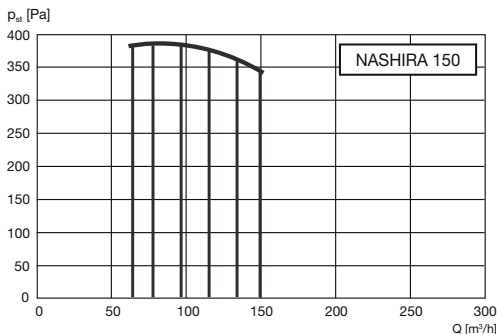
Information

A small unit designed for residential construction or family houses. It is characterized by simple assembly, minimal requirements for operation and maintenance, and very economical operation.

Type	max. flow rate (300 Pa) [m³/h]	voltage [V]	max. power consumption [W]	max. current [A]	acoustic power level* [dB(A)]	max. heat transfer efficiency** [%]	max. moisture transfer efficiency** [%]	weight [kg]
NASHIRA 150	150	230	47	0.2	46	94	–	24.5
NASHIRA 150 E	150	230	47	0.2	46	90	78	28.5
NASHIRA 200	200	230	72	0.3	48	93	–	24.5
NASHIRA 200 E	200	230	72	0.3	48	90	78	28.5

* sound power level at reference flow rate (70% max. flow rate) and external static pressure 50 Pa; ** EN 13141-7

Characteristics



Q – flow rate in m³/h
 p_{st} – static pressure in Pa

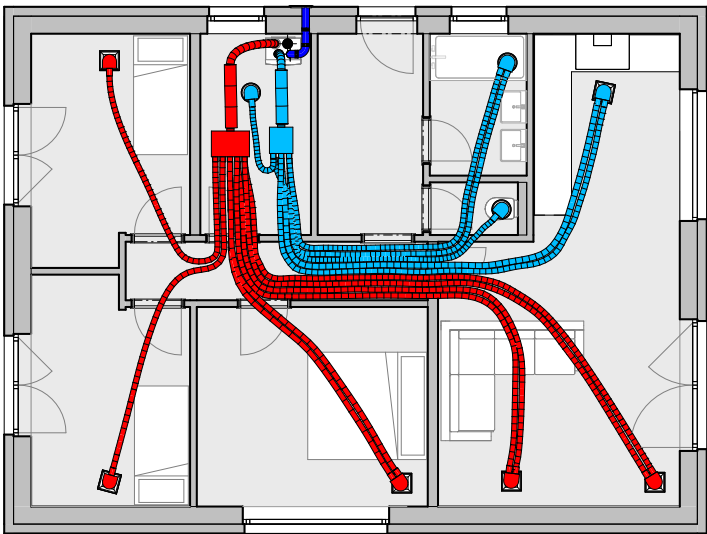
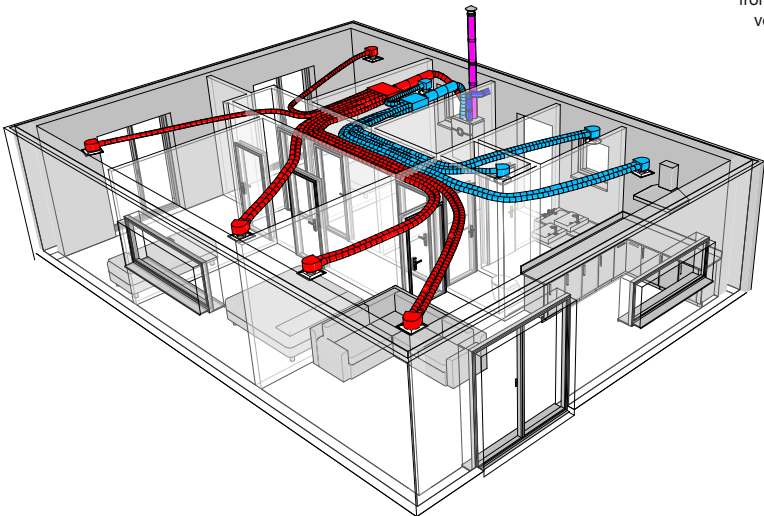
— heat recovery efficiency
- - - moisture recovery efficiency

Sound power level L_{WA} in octave bands [db(A)]

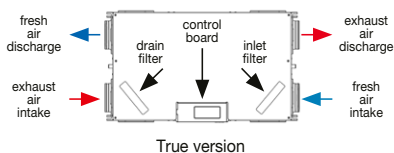
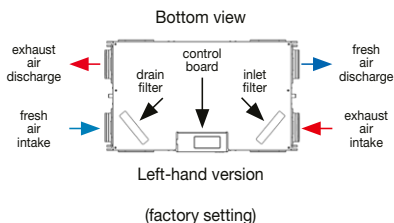
NASHIRA 150 / 150 E (for rated speed 105 m³/h)										NASHIRA 200 / 200 E (for rated speed 140 m³/h)									
Hz	63	125	250	500	1000	2000	4000	8000	L_{WA}	Hz	63	125	250	500	1000	2000	4000	8000	L_{WA}
fresh	23,2	28,9	30,4	33,9	32,8	28,5	28,7	28,0	39,3	fresh	23,6	29,5	33,2	36,9	37,0	31,5	29,8	28,1	42,2
supply	24,8	37,8	40,5	47,7	53,0	44,2	38,8	31,9	54,9	supply	26,6	39,6	43,6	51,1	57,1	49,1	44,9	38,7	59,0
exhaust	23,2	28,9	30,4	33,9	32,8	28,5	28,7	28,0	39,3	exhaust	23,6	29,5	33,2	36,9	37,0	31,5	29,8	28,1	42,2
waste	24,8	37,8	40,5	47,7	53,0	44,2	38,8	31,9	54,9	waste	26,6	39,6	43,6	51,1	57,1	49,1	44,9	38,7	59,0
to the surroundings	27,3	36,3	37,4	39,9	41,7	35,9	33,4	28,6	46,0	to the surroundings	26,9	37,7	39,0	42,7	44,2	38,0	34,5	28,9	48,3

Additional images

Complete air duct system
from ELEKTRODESIGN
ventilatory spol. s r.o.



Additional images



The remote control allows:

- speed change
- automatic or manual operation
- filter clogging alarm
- bypass activation

KIT RF NASHIRA –
wireless control kit



communication module
SPCM Lite M

EASYVENT
selection program

For information on acoustic performances on the throats and the shell at the desired operating point, use the EASYVENT web-based design program.



Connectair®
www.connectairapp.com

remote unit management
using the SPCM module
more info on page 29

Accessories



AIRSENS – intelligent stand-alone
room sensors CO₂, VOC, RH
more info on pages 56–59



SONOULTRA – flexible silencers



SF-P 138 – vacuum siphon with cap



wide range of original filters

other accessories on the sides 30–55