

Heat recovery unit

FUTURA

Technical Sheet



Functions and applications

The Futura heat recovery unit is designed for controlled ventilation and treatment of the indoor environment of residential premises. It ensures recovery of heat and humidity, filters supplied air, helps maintain optimum humidity and provides after-cooling by means of an integrated fully automatic by-pass in summer (in the night mode). The unit is equipped with an enthalpy exchanger with the aim to also use the latent heat from humidity.

Unit setup	The heat recovery unit is installed in a vertical position on the wall in a room with a guaranteed min. temperature of +10 °C. In front of the unit, a sufficient handling space must be available for trouble-free access, maintenance and service, throughout its service life.
Unit body	The internal structure of the heat recovery unit is made of monolithic EPP (expanded polypropylene) without thermal bridges.
Heat exchanger	Enthalpy counter-current exchanger with humidity recovery control.
Filtration	In the heat recovery unit, 2 filters are installed, an F7 filter at the air supply and exhaust. The necessity to replace filters is indicated automatically and it depends on the air quality in the environment where the system is used (approx once every 2 - 6 months). You can supplement the filters with an optional carbon filter, which is directly inserted into the unit under the supplied air filter.
Connecting pipes	The unit is equipped with 4 EPP Ø 150 mm flanges. For the supply as well as exhaust from/into the outdoor environment EPP pipes must be used to prevent undesired condensation from occurring inside the supply and exhaust pipes.
Icing protection	The operating temperature range without the need of preheating is from -19 °C to +45 °C. Within this temperature range, no supplementary icing protection is required.
Electric connection	Power supply 230 V/50 Hz, 6 A. For the heat recovery unit a 3 x 2.5 mm ² double socket and cables for the peripheral devices (LAN, sensors, forced exhaust buttons) are necessary. The system is delivered with a mains connection cable.
Control	Integration in the MyJABLOTRON service, which supports easy control of all the user functions and settings, remote monitoring and administration and automatic alerting to filter replacement and error conditions. Supplied with a wall-mounted control with an integrated CO ₂ sensor (1 piece) as standard.
Summer function	Fully automatic 100% by-pass controlled by the temperature setpoint.
Optional accessories	Cool breeze cooling module, forced exhaust (Boost) buttons with operation indication; Rh, SQA, CO ₂ sensors; VAC material and distribution elements.

Technical parameters

Supplier's name	JABLOTRON LIVING TECHNOLOGY s. r. o.	SPI	0.356 W/(m ³ /h)
Model identification brand used by the supplier	FUTURA	Dimensions (h x w x d)	835 x 995 x 522 mm
Specific Energy Consumption (SEC) in kWh/(m².a) for each applicable climatic zone and each applicable SEC class	A+	Weight	47.5 kg
Declared typology	bidirectional	Condensate	Condensate drain with a HT 32 mm drain pipe, siphon
Drive type	variable speed drive	Electric connection	230 V/50 Hz, 6 A; connection to the electric mains via a socket
Heat recovery system type	recuperative	Operating range without preheating	-19 °C to +45 °C
Heat recovery efficiency	91.4 %	Fans	2x EBM Papst with an integrated electronic unit and constant air flow control
Air flow	100 - 350 m ³ /h	Cooling/heating output	up to 2 kW*/3 kW**
Reference flow	100 m ³ /h	Annual electricity consumption (AEC) (in kWh/m² of electric power/year) ("average", "hot", "cold") at 149 m³/h	2.33 / 1.88 / 7.70
Electric power input of the fan, incl. the motor control equipment at max. flow	320 W	Annual heat savings (AHS) (in kWh of primary energy/year) for individual climate types ("average", "hot", "cold") at 149 m³/h	37 339 / 62 103 / 268 670
Power input	25 - 700 W		
Acoustic power level (at 100 m³/h and 40 Pa)	46 dB		
Reference pressure difference	40 Pa		

* For passive houses only. With the use of the Cool breeze enthalpy cooling module.

** For passive houses only. Depending on the used heat source.

ANY CHANGES RESULTING FROM TECHNICAL DEVELOPMENT ARE RESERVED.



Mobile application manual

JABLOTRON LIVING TECHNOLOGY

Download the **JABLOTRON LIVING TECHNOLOGY** app with a 3D model of the Futura. See how easy it is to take a close view at Futura and introduce it to your customers in this novel, attractive and effective manner.

1. Download the **JABLOTRON LIVING TECHNOLOGY** application into your Android or iOS device free of charge. You will find it in Google Play and in Apple App Store. To download the application easily, you can use the QR code on this page.



2. If you want to view Futura in the Augmented Reality (AR) mode, you will need a device with a camera and a **marker**. You can use this manual as the marker. This will let the application recognize how it should insert the virtual 3D model of Futura into real space. Switch into the **AR** view in the application and point at this printed manual.

If you want to download and print the marker, it is available at

➔ rekuperace.jablotron.cz/download/marker



3. To avoid operation problems, we recommend you that the marker should not be creased and the light conditions should be good. **The dimmer or darker** it is, the **more noise** there is in the image and the positioning of the virtual 3D model of Futura may not be ideal. We can also **recommend you not to shake the device** as the application may lose the sense of where the marker is exactly situated and the 3D model of Futura may get positioned incorrectly.



4. At the left side of the display there are several numbered points, each of these points representing **Futura** in a different state of disassembly. So if you want to look what Futura looks like under the “hood”, nothing prevents you.



Print changes reserved. Ask your supplier for information:



An ideal solution for your new home

As the air-tightness of homes continues to improve the risk of excessive moisture levels and reduced indoor air quality rises. This excessive humidity, which is caused by insufficient ventilation, can have a negative impact on the thermal envelope of the building, resulting in moisture damage that jeopardizes the health and vitality of both the structure and its occupants. Controlled ventilation with heat recovery presents an optimum solution.

A heat recovery unit ensures efficient ventilation of your new home; a new building cannot meet comfort and energy goals with natural ventilation alone. Controlled ventilation with heat recovery is the continuous replacement of stale interior air with fresh and filtered air from the outside. In the winter, fresh supply air is warmed by the stale exhaust air as air streams pass through the Futura, resulting in thermally optimized air that has been filtered of dust, pollen and allergens thanks to the included F7 filter.

Your home can be ventilated fully with the windows closed. Naturally you can open them whenever you wish to, but in seasons when it is desirable to keep thermal energy inside the house your family can still enjoy fresh air thanks to the continuous air exchange. The ventilation volume of the Futura heat recovery unit is automatically adapted to meet the requirements for optimum indoor air quality based on information from CO₂ sensors. The analogy to lungs has not been chosen randomly; the heat recovery unit represents the lungs of your home and it works in the same way — it ensures air exchange in a natural and automatic manner.

In today's market, there are many high-quality heat recovery units available along with the information to compare them fully. We do not make overstated claims or provide a magic box. We simply use the laws of physics to provide you with effortless control of your indoor air quality, and this is what makes our Futura heat recovery unit superior to other units in many areas.

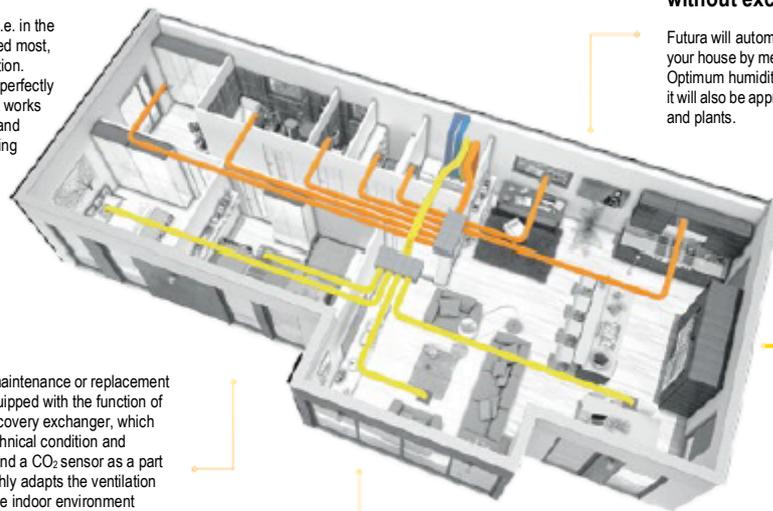
FUTURA

Unrivaled lowest consumption even in frost periods

Futura excels in winter conditions, i.e. in the period when heat recovery is needed most, by minimizing the energy consumption. Thanks to its unique design, which perfectly utilizes the laws of physics, the unit works down to -19 °C without preheating and without imbalance of fans even during strong frosts.

Real indoor comfort without excessive drying

Futura will automatically maintain optimum humidity in your house by means of a controlled enthalpy exchanger. Optimum humidity is important for respiratory health, but it will also be appreciated by your wooden furniture, floors and plants.



Autonomous operation

Futura is smart and will request maintenance or replacement of clogged filters by itself. It is equipped with the function of automatic cleaning of the heat recovery exchanger, which maintains the unit in a perfect technical condition and facilitates routine maintenance. And a CO₂ sensor as a part of the standard equipment smoothly adapts the ventilation power to your requirements for the indoor environment quality.

Compatibility with other Jablotron products

Futura is ready to be interconnected with other products of the company Jablotron. In combination with the Jablotron alarm security system it can monitor the overall energy demands of your house.

Easy control

The unit can be controlled by a simple dial on the supplied wall-mounted control or from anywhere with the convenient MyJABLOTRON mobile application, which informs you about the operation and consumption of your heat recovery unit.

Generous standard equipment

For the basic price, Futura offers above-standard equipment, including a five-year guarantee, F7 pollen filter, CO₂ sensor in the wall-mounted control, built-in heating element and complete management of the unit through the mobile application. The unit can be expanded with more functions - up to 3 wall-mounted controls, 8 CO₂ sensors and supplementary cooling can be connected.

**Ventilation with heat recovery will offer a new perspective on comfortable living for you.
For more information do not hesitate to contact us.**