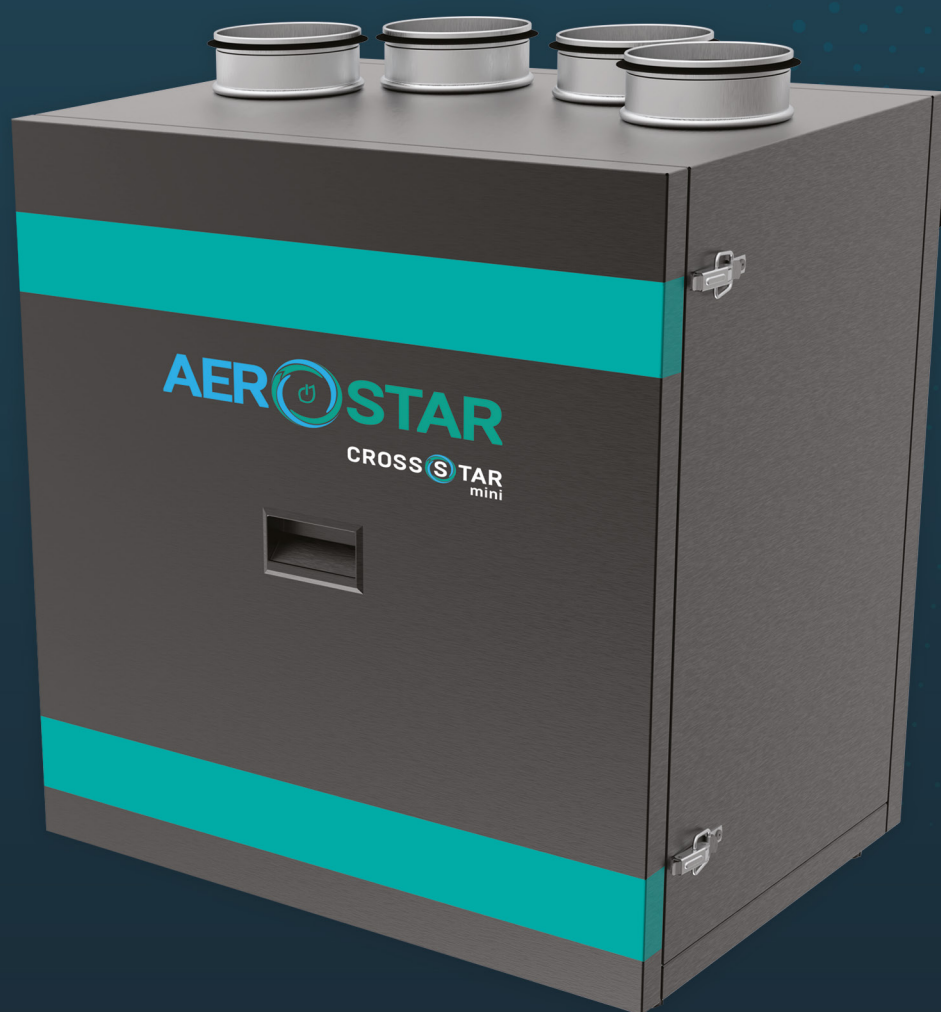


CrossStar mini EC XV

Multifunctional Air Handling Unit

AIRFLOW RATE – UP TO 400 M³/H





TYPE OF UNIT

Energy-saving supply and exhaust unit with rotary heat exchanger

AIRFLOW RATE

up to 400 m³/h

APPLICATION



Private houses and multi-room apartments.



Small offices or rooms that require general ventilation and extraction in the food preparation area.

FEATURES:



Control the unit anytime from anywhere in the world using any convenient device. Just connect the unit to the power supply and install the air duct system.



Efficient energy use due to highly energy-efficient components.



Ultra-compact housing.
No commissioning required (plug-and-play installation).

Suitable for installation in any technical room.



INSTALLATION

- ▶ This unit has vertical air duct connections.
- ▶ Designed for indoor installation.
- ▶ Can be installed on the floor or as a suspended unit (equipped with adjustable feet and a special bracket on the rear panel).

ADDITIONAL OPTIONS:

- ▶ Option to apply lacquer coating on the inner panel surfaces for additional protection.
- ▶ Option to paint in any RAL palette color.
- ▶ Air duct connection Ø 125 mm.

* Airflows:

A – Fresh air intake from outside
B – Supply air to the room

C – Exhaust air from the room
D – Exhaust air discharge to outside

CROSSSTAR MINI 200 XV INSTALLATION

Width:	mm	439	Height:	mm	680+80 (legs and accessories)
Total depth:	mm	600	Total weight:	kg	53
Rated power consumption: 0.1 kW					

Unit dimensions, weight and configuration are preliminary and can be optimized upon request.

CROSSSTAR MINI 400 XV INSTALLATION

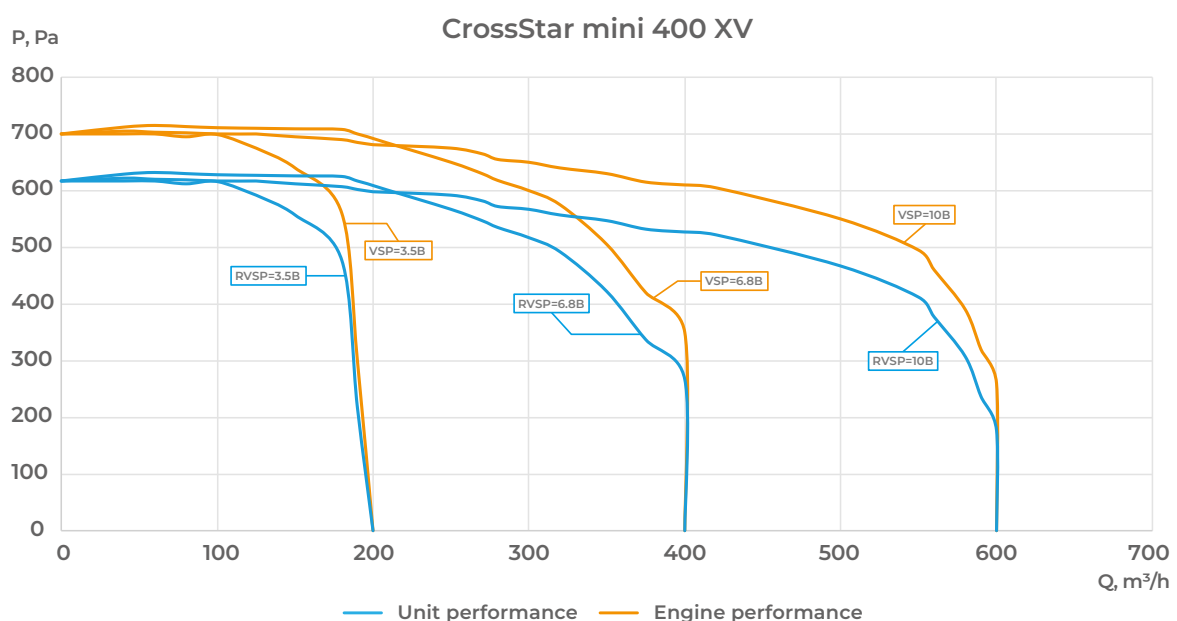
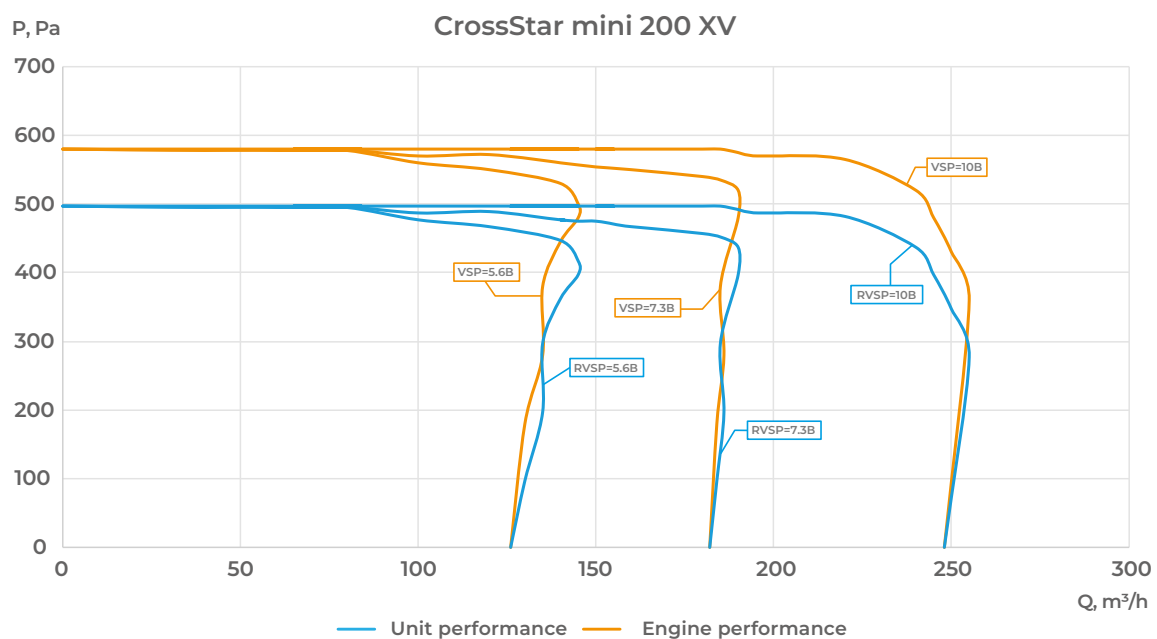
Width:	mm	479	Height:	mm	750+80 (legs and accessories)
Total depth:	mm	680	Total weight:	kg	58
Rated power consumption: 0.2 kW					

Unit dimensions, weight and configuration are preliminary and can be optimized upon request.

FANS:

EC FANS

Direct-drive fan assembly. The impeller is mounted directly on the motor shaft, which **increases the fan's efficiency**. This unit uses two EC fans. Across a wide operating range, they maintain a constant airflow even as filters become clogged, consistently supplying the user with the required amount of fresh, clean air.



*The unit's performance is given taking into account the calculated pressure drop across the filter. The fan's performance without a filter is provided for comparison.

- ▶ EC motors offer higher reliability.
- ▶ The integrated electronic control system allows speed adjustment according to airflow requirements while maintaining high efficiency.

FILTERS:

Prevents dust particles from penetrating through the filter material.



CASSETTE FILTER

- ▶ Durable galvanized metal frame.
- ▶ Filter media is fixed on a mesh.
- ▶ Made of polyester fibres.

Filter energy efficiency class: D

G4 - (ISO Coarse 70%)
M5 - (ISO ePM10 85%)
F7 - (ISO ePM1 70%)



POCKET FILTER

- ▶ Pocket design **increases filtration area** and ensures maximum efficiency.
- ▶ The frame is made of durable PVC plastic.

Filter energy efficiency class: D

G4 - (ISO Coarse 70%)
M5 - (ISO ePM10 85%)
F7 - (ISO ePM1 70%)

RECUPERATOR

The recovery system allows the thermal energy of exhaust air from the room to be reused to heat and cool the air from the street.

The use of a recuperator allows for the **recovery of up to 85% of the energy in the exhaust air.**

- ▶ Condensation
- ▶ Enthalpy

ROTARY RECUPERATOR

In rotary recuperators, heat transfer from the exhaust supply air is carried out using a moving matrix with various types of coatings.

The rotary recuperator matrix consists of two layers of aluminum foil, smooth and corrugated, alternately applied to each other.

The efficiency of recovery will vary depending on the height of the corrugated belt and the rotation speed of the wheel.



CONVENIENT CONTROL OF THE UNIT FROM A SMARTPHONE USING THE AEROSTAR APP

Gives you the ability to:

- ▶ monitor the operating parameters of the equipment
- ▶ change settings
- ▶ receive notifications about emergencies
- ▶ consult with the AEROSTAR service team



FOR **ANDROID**
DEVICES



FOR **IOS**
DEVICES

In the CrossStar mini unit, operation with a kitchen hood is provided. When the controller receives a signal to turn on the kitchen hood, the dampers of the supply and exhaust air channels open, and the unit's fans change speed. The supply fan switches to maximum, while the exhaust fan reduces speed. Optional control of the kitchen hood damper drive — open/close — is available.



CONNECTION
TO THE KITCHEN
HOOD IS OPTIONAL



Solutions that work



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