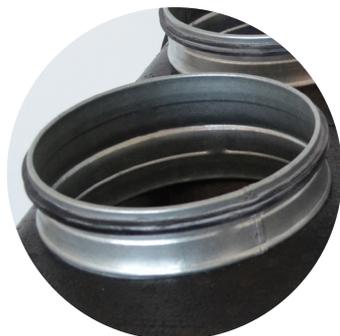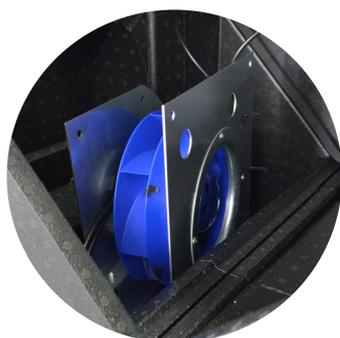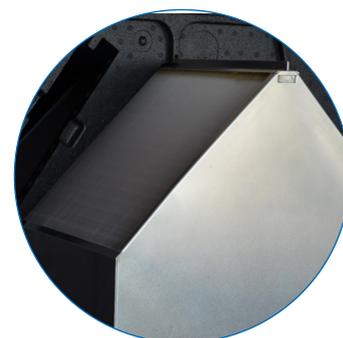# 14 THINGS YOU NEED TO KNOW ABOUT PREMAIR-450

INTERCHANGEABLE SPIGOT DESIGN

MODULATING BYPASS

2x ENERGY SAVING EC FANS

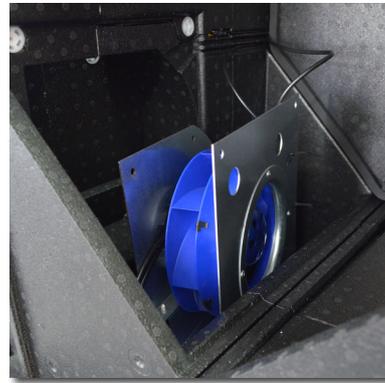**COUNTERFLOW HEAT EXCHANGER MADE OF PET MATERIAL**

STATE-OF-THE-ART EPP CASING

2x FINE PLEATED FILTERS

1. **Energy saving EC fans with high static pressure: 1000Pa**

- the arrangement of fans and supply-exhaust spigots was specifically designed to achieve the highest unit efficiency: 90.3%
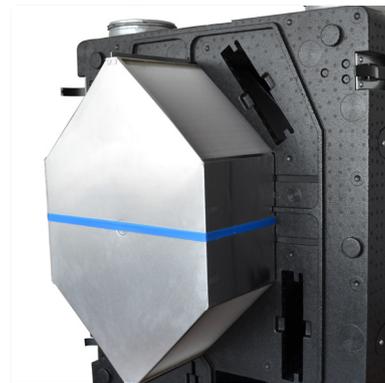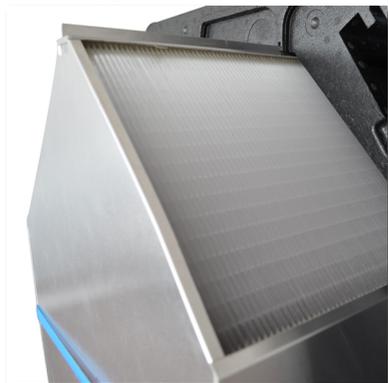

2. **Modulating By-pass**

- enables the unit operation with free-cooling and free-heating functions.

3. **Auto Restart**

- if the main power has been cut, the operation settings remain, after the power is restored, the unit restarts automatically according to the memory.

4. **Certified counterflow heat exchanger**

- made of high efficiency material PET (Eurovent certified),
- sealing material hygienically tested and microbial inert according to DIN EN ISO 846.

5. **State-of-the-art casing made of expanded polypropylene (EPP)**

- lightweight construction – only 32kg
- high thermal insulation, no thermal bridges
- high acoustic insulation

6. **It's possible to install an additional condensation drain:**

- good solution when the A/C system is installed at home

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7. Interchangeable spigot design:

- the unit is supplied with steel duct spigots with seals, which can be easily replaced with: reducers or bends

1,5D PRESSED BEND

PRESSED BEND

FOAM INSULATED BENDS

- on the metal spigot You can install, e.g. EPP ducts and fittngs
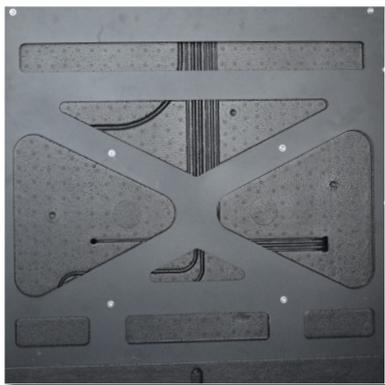
EPP BEND

EPP CONNECTOR

EPP DUCT

8. Wall and floor mounting:

- standard set includes: mounting rack, mounting feet (4 pcs), wall plugs and condensation drain

9. G4 Filter(standard):

- G4 pleated panel filters creates a larger media surface for air filtration and ensures lower pressure drops,
- filters are classified as in the ISO Coarse 70% according to ISO 16890.

10. F7 Filters (option):

- classified as a fine filter according to EN 779:2012 norm
- classified as ePM1 55% in accordance with new standard ISO 16890.

11. Modern automation:

- advanced wireless communication
- unit control via sensors
- LAN gateway for Internet connection and control via a mobile application (Android, iOS)
- available for download in Google Play and App Store: PremAIR

12. Intelligent Demand Control Ventilation (DCV)

- the use of CO_2 and RH sensors allows automatic adjustment with stepless control

13. It's possible to connect a 1.5kW electric preheater

heater plug

HDE-160-1,5 ELECTRIC HEATER

14. A full range of dedicated accessories

- standard:

CONTROLLER
HRQ-PremAIR-BUT-LM11

2x FILTERS
HRQ-PremAIR-FILT-G4

- optional

FILTER F7
HRQ-PremAIR-FILT-F7

CONTROLLER
HRQ-PremAIR-BUT-LM04

SENSOR CO$_2$
HRQ-PremAIR-SENS-CO2

SENSOR RH
HRQ-PremAIR-SENS-RH

GATE
HRQ-PremAIR-SENS-GATE

HEATER
HRQ-PremAIR-HDE-160-1,5

SILENCER
SIL-100-160-1000

ANTI-SMOG FILTER
MOCarz

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