

Flat air-handling units



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Why to choose AeroMaster FP?

Air-conditioning units AeroMaster FP are intended for air handling and air conditioning of administration, commercial, restaurant and other rooms. The AeroMaster FP air-conditioning units reach excellent noise parameters thanks to a sandwich panel construction and optimized number of fans. The units are intended for an installation in rooms without ceiling because of its aesthetical design. In case of installation in ceiling its low height would be very appreciated by users. Advantages of AeroMaster FP air-conditioning units are easy installation and a very fairly price.

AeroMaster FP function

- Air-flow range from 600 to 4.000 m³/h
- Pressure difference of fans up to 1000 Pa
- Temperature range of inlet air
- 40°C to + 40°C
- Universal application from a simple air-handling to a full-value and saving air-conditioning.
- High variability thanks to a modular construction with multifunctional sections
- Duct connection without profile narrowing

Excellent parameters

- Excellent parameters thanks to a frameless construction (EN 1886)
- Robust and stable – mechanical strength 2A
- Tight means: saving
 - casing air leakage, class A
 - filter bypass leakage $k < 1\%$
- Temperature saving
 - thermal bridging, class TB2
 - thermal transmittance, class T3
- Silent – acoustic insulation of casing $D_{p,r,w} = 28$ dB

Operation – saving, comfortable, safe

- Heat recovery
- Mixing (circulation) from bellow and side
- Fans with optional output control
- Air output control
- Compatibility with VCB, WebClima control units
- Build-in switch electronic of the electrical heater for the sectional and PWM output control.

Practicality

- Simple and time-tested suspension and connection of sections inside of the unit
- Totally smooth inside surface
- Easy access to the sections
- Alternative side connection (most of the built-in parts can easily be connected from both sides)
- Integrated sensors (according to wish)

Design for demanding applications

- Inner casing – steel plate zinc-coated
- Inner casing – steel plate zinc-coated, alternatively colored coating RAL 9002

Control

- You can choose the control system VCB, WebClima or frequency inverter optimally according to
 - the type of unit
 - your demands on control
- The characteristics of components are compatible with the control systems
 - exact PI output control of the water heating

Guarantee

- ES declaration of conformity authorized person TÜV Süd Czech
- Certified quality system according to ISO 9001
- 2 year standard guarantee
- Prolonged 5 year guarantee

Software support

- AeroCAD is a unique graphical CAD system offering
 - unsurpassed graphic excellence
 - simulation in „real“ space
 - multilevel control of the project
 - unlimited number of active devices in project
 - fast selection of predefined projects in applications AeroCAD

Prompt delivery = your advantage

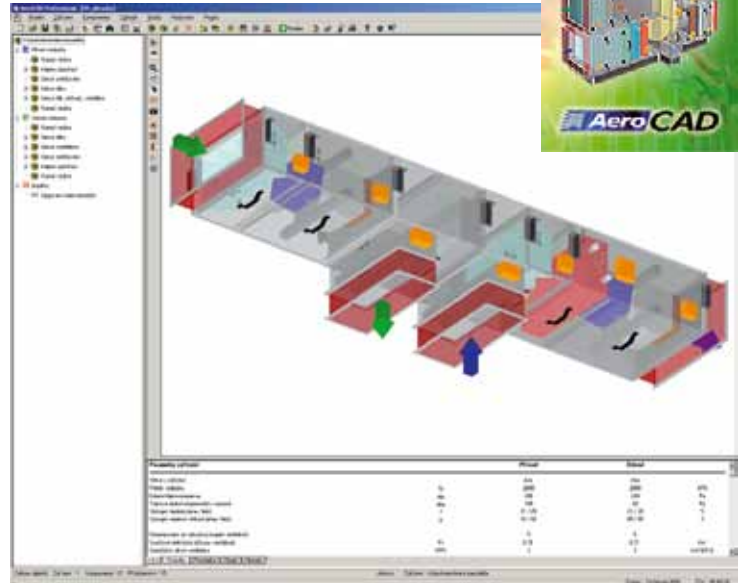
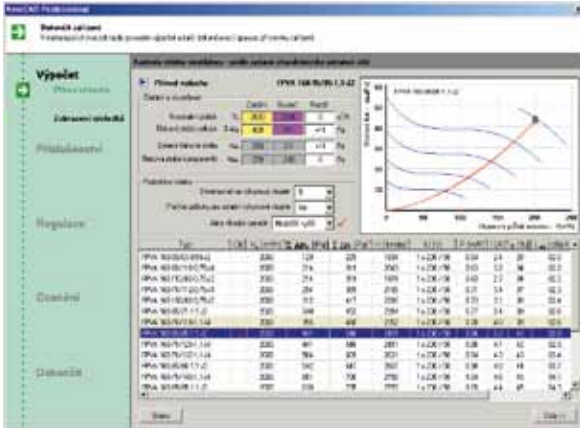
- Basic versions are being delivered from stock 3 days after confirmation of order.
- Provided you buy also our control system you spare your logistics costs.

Great price

- Just try it...

Perfect and comprehensive project

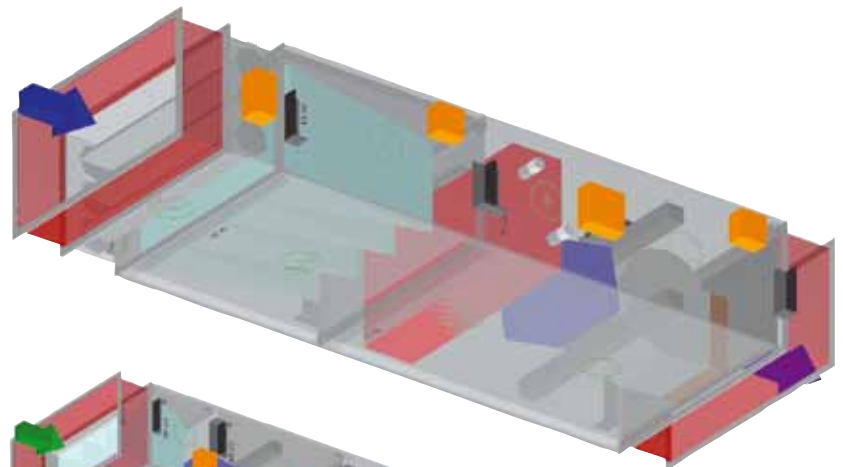
Unique comprehensive graphical projecting and calculation program AeroCAD is at your disposal when projecting AeroMaster FP units.



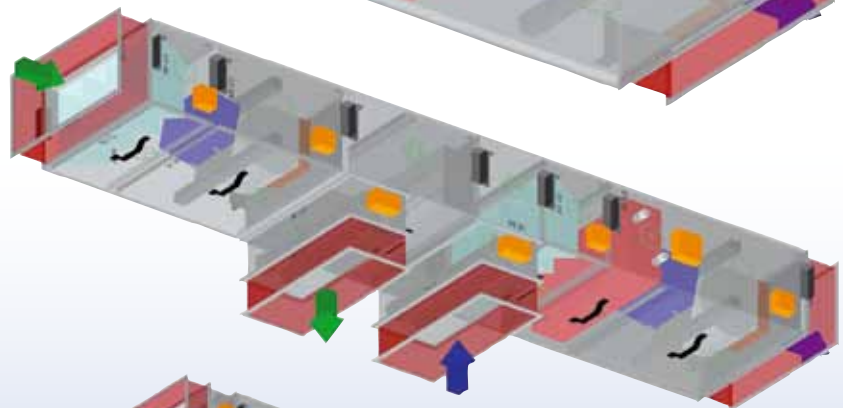
Calculation of fan parameters

Projected device

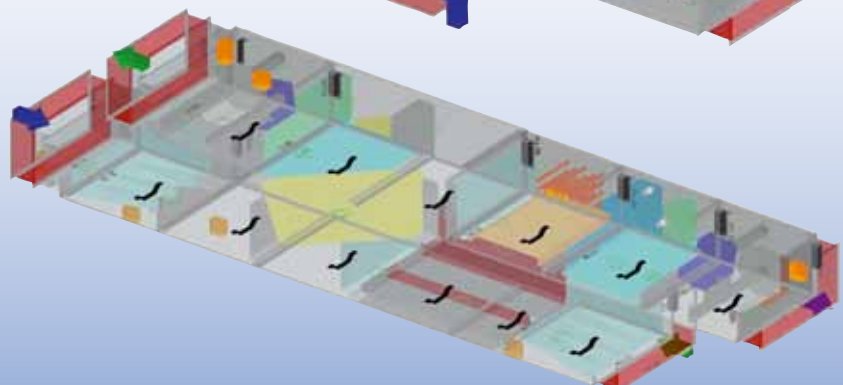
example of arrangement with inlet, outlet and mixing



example of arrangement with inlet



example of arrangement with inlet, outlet and plate heat exchanger



Flat air-handling units

AeroMaster
FP



all functions



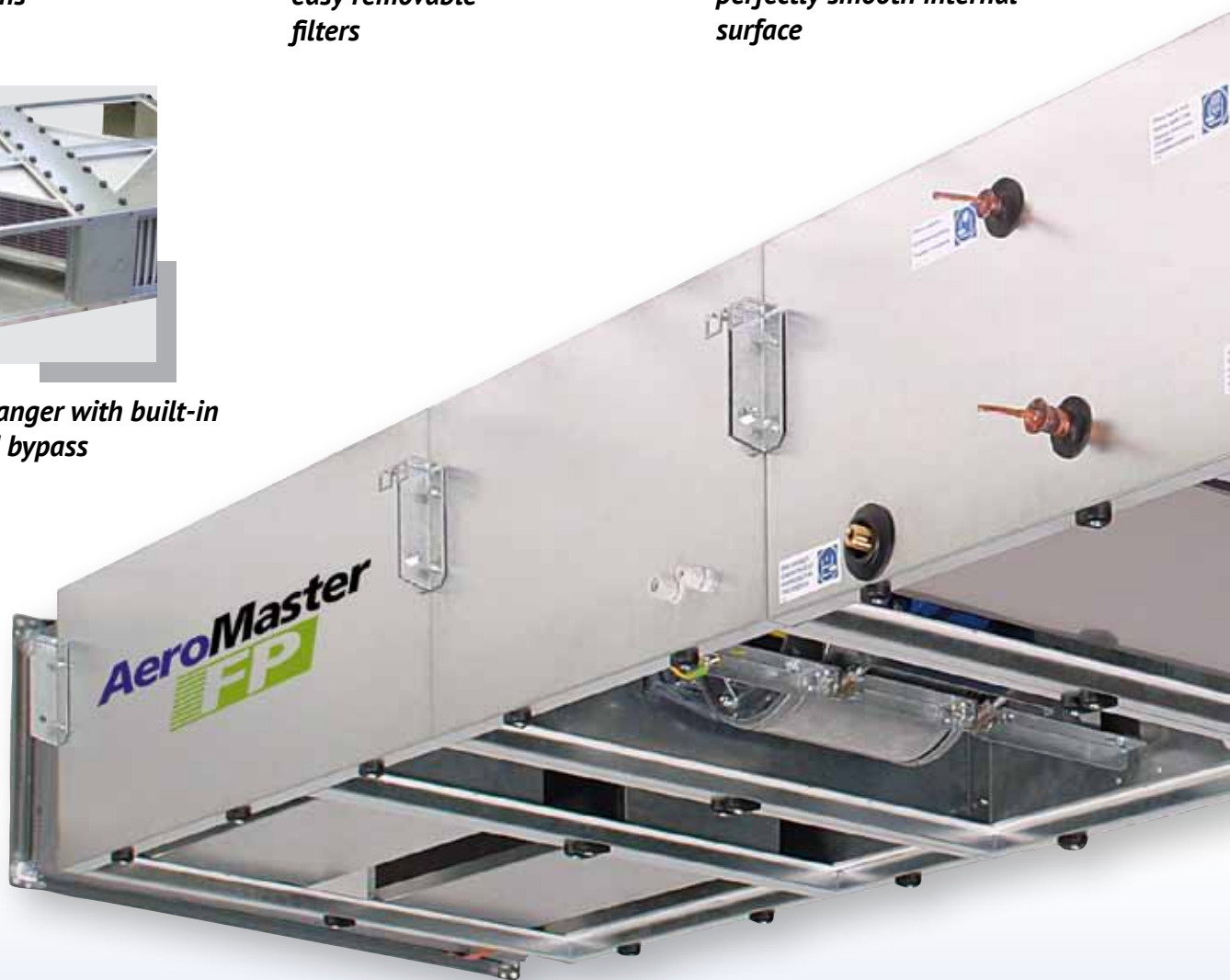
easy removable filters



perfectly smooth internal surface

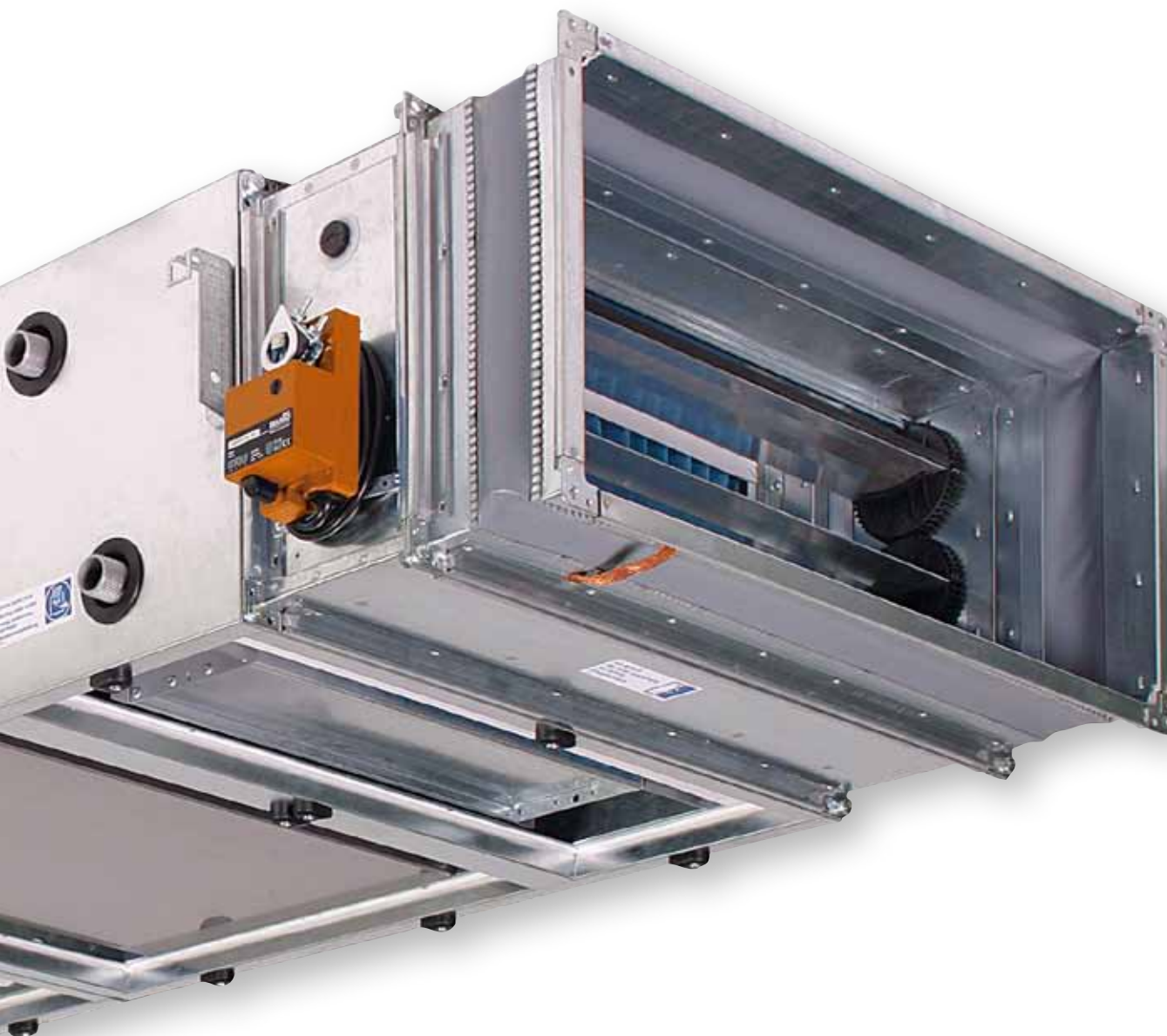


heat exchanger with built-in filters and bypass



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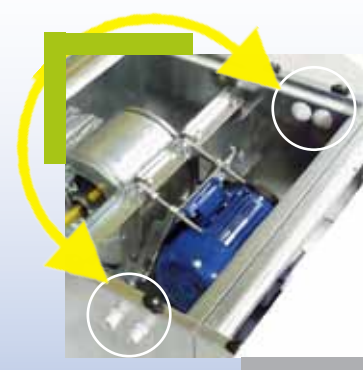
AeroMaster
FP



efficient fans



*el. heaters with
switching electronics*



*ready for change
of service access side*

Flat air-handling units

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insulation and sound-proof casing

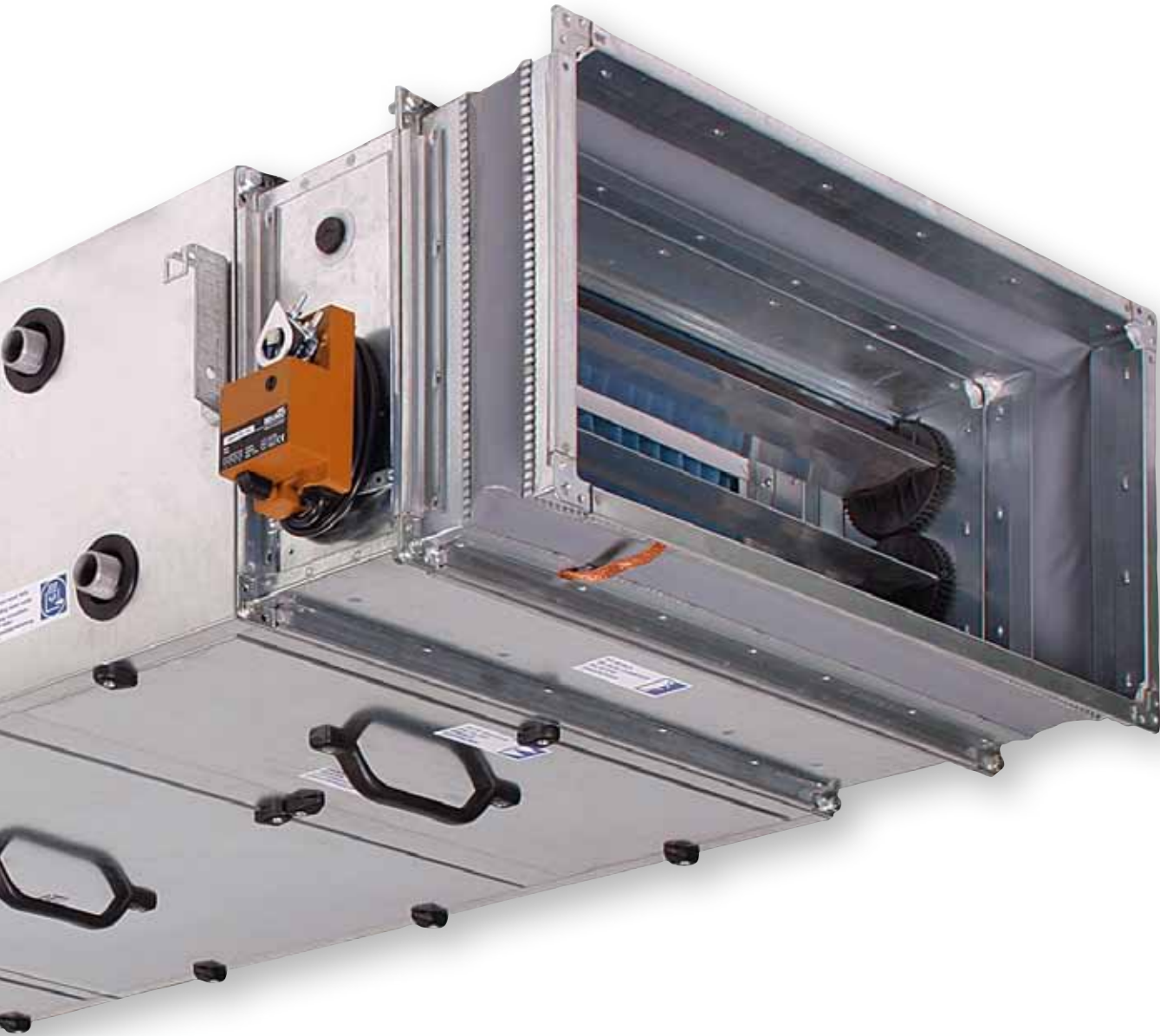


minimal thermal bridges



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simple installation



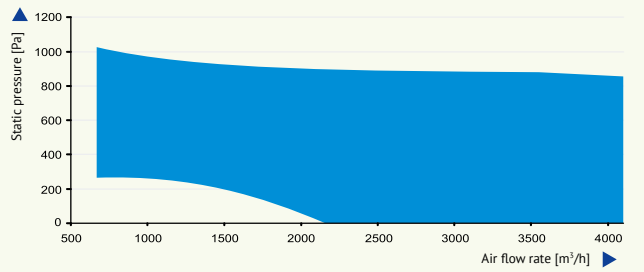
RAL 9002

Varnished metal sheet

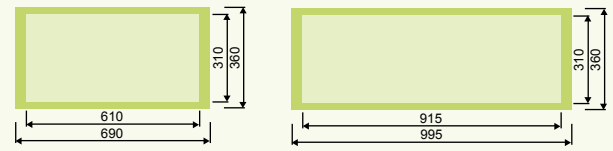
Zinc-coated sheet

alternative surfaces

Air flow rate and pressure loss



Sizes and dimensions

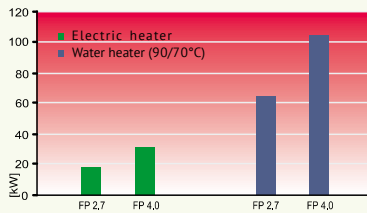


FP 2.7

FP 4.0

Heating

Nominal output powers of heaters
(temperature gradient of water 90/70°C)

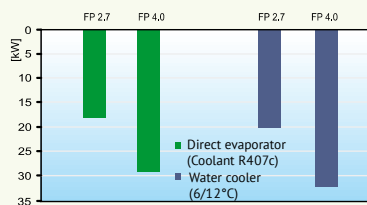


Filtration



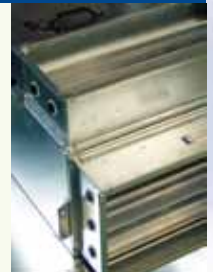
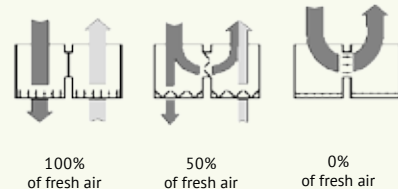
Cooling

Nominal output powers of coolers
(temperature gradient of water 6/12°C)



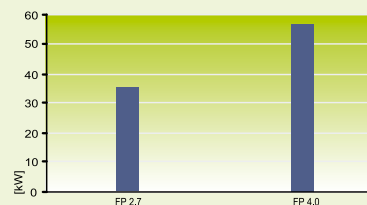
Mixing

Illustration of mixing function



Heat recovery

High-performance heat exchangers
(energy saving in relation to water heater output power)



Noise attenuation

Attenuation of noise attenuators

