



Energy efficient ventilation equipment





KOMFOVENT – Energy Efficient Air Handling Units

KOMFOVENT is a trademark for ventilation products produced by the company AMALVA.

KOMFOVENT stands for comfort, healthy indoor climate, efficiency and productivity. We are responsible for high quality and reliable operation of our products. The most efficient solutions are achieved with our contemporary manufactured production and we ensure – KOMFOVENT WORKS PROPERLY.

AMALVA is a constantly growing European company. More than 15 years we are dedicating all our energy to create and offer innovative products which could satisfy the most demanding customers. We are proud of employing 430 people and owning of 30 000 m² of advanced, modern and brand new automated production area. High level of quality, a deep respect to the environment with a trust for a better and cleaner world and occupational health and safety – that is the target our company adheres to.

Located in the Northern part of Europe, company AMALVA got perfect experience from Scandinavian countries, which have long professional history in the ventilation field.

AMALVA is actively applying and refers to mostly requestive and strict quality standards for the produced ventilation equipment offering only energy efficient ventilation solutions. KOMFOVENT equipment is EUROVENT certified, TÜV approved and confirms all required EU norms and regulations. Passive House Institute Certificate is also available for some range of the units. AMALVA is the member of German Association of ventilation equipment producers RLT and company operational system complies with requirements of the quality and environment standards ISO 9001 and ISO 14001.

Every year the investments are being made for the acquisition of the new modern machinery, tools, and personnel training with the main goal – to produce and offer only high quality products. Using knowledge and skills of our local engineers and specialists together with gained different experience from our foreign partners give us possibilities to offer the best technical solutions.

For us growing is about moving forward together with our customers, sharing the same values, meeting their needs and expectations. Together with our partners we are going towards new and more ambitious goals.



Projects

KOMFOVENT energy efficient air handling units are being exported to 30 countries. Wide range of the units and their functional possibilities allow applying the equipment in different type of the projects: residential, public, hospitals, shopping malls, industrial buildings. Efficient equipment performance and innovative automatic control corresponds and may satisfy the mostly demanding requirements.

Hospital TILKKA
Helsinki, Finland



The Four Courts,
Dublin,
Ireland



LONDON MORPETH
school
London, UK



Hotel Radisson SAS
Copenhagen,
Denmark



Offices
building
Vilnius,
Lithuania

Shopping centre
ATLANTIC CITY
St. Petersburg,
Russia



Restaurant
LE BOEUF ROUGE
Crassier, Switzerland



Apartment houses
Tallinn, Estonia



Hotel
SPINETTA
MARENGO
Alessandria,
Italy

Sport complex
ŠIAULIŲ ARENA
Šiauliai, Lithuania





Energy Efficient Air Handling Units Komfovent DOMEKT

DOMEKT series air handling units are designed for the ventilation of residential premise that possess an area from 40 m² till 250 m².

A compact and universal air handling units’ design helps to integrate them in a kitchen furniture. It is also possible to hang the units on the wall, ceiling, or to put it on the floor. Special design of the units – no need to specify the inspection side – it is both right and left hand in one.

Features and benefits of DOMEKT units:

- Two functions in one DOMEKT unit:
 - Premise ventilation i.e. air supply to premise removing it and recovering the heat;
 - Extraction of the used air from a cooker or a toilet at the same time keeping air supply/exhaust balance in the premise.
- Helps to save up to 92% of heat.
- PLUG & PLAY concept – units are fully prepared for installation.
- DOMEKT air handling units are especially silent.
- Energy saving high performance EC fans in all DOMEKT units.
- Integrated automatic control C4.
- A modern touch sensitive control panel C4 PLUS.
- Control via Smartphone available.



Capacity range
from 50 to 600 m³/h

Quick Komfovent DOMEKT unit selection

DOMEKT REGO – air handling units with rotary heat exchanger		200VE/VW* Vertical	400VE/VW* Vertical	450VE-B Vertical <i>Passive House</i>	250PE/PW* Suspended	400PE/PW* Suspended	600HE/HW* Horizontal
Residential area	m²	~120	~160	~180	~120	~200	~250
Supply and exhaust air flow	m³/h	250	300	167–308	240	450	600
under pressure	Pa	100	100	49–169	100	100	100
Fan type	EC						

DOMEKT RECU – air handling units with plate heat exchanger		300VE/VW* Vertical	400VE/VW* Vertical <i>Passive House</i>	450VE/VW* Vertical	500PE/PW* Suspended
Residential area	m²	~120	~180	~180	~250
Supply and exhaust air flow	m³/h	300	129–256	430	670
under pressure	Pa	100	49–169	100	100
Fan type	EC				

Notes: E–electrical heater, W–hot water heater.
* Duct mounted water air heater must be ordered additionally to be installed in the duct.

DOMEKT REGO
air handling units
with rotary
heat exchanger

DOMEKT RECU
air handling units
with plate
heat exchanger



Energy Efficient Air Handling Units Komfovent KOMPAKT

Komfovent KOMPAKT series offers the standardized range of air handling units with heat recovery by rotary or plate exchanger, or just supply air units. Units' air flow performance ranges from 400 m³/h to 8 000 m³/h, and can be used for various application areas: dwelling, public, and industrial.

All KOMPAKT units are based on the principle of PLUG & PLAY: each unit has the integrated control system and is delivered with a complete automatic control installed and prewired inside the unit. A modern control panel with touch-sensitive buttons is included in each KOMPAKT unit supplied.

Due to the availability of clever design and functions the units offer a great opportunity to keep running costs low, they are safe, reliable and durable in operation. The air is filtered and supplied clean and fresh to the premises, which is especially advisable to allergic people.

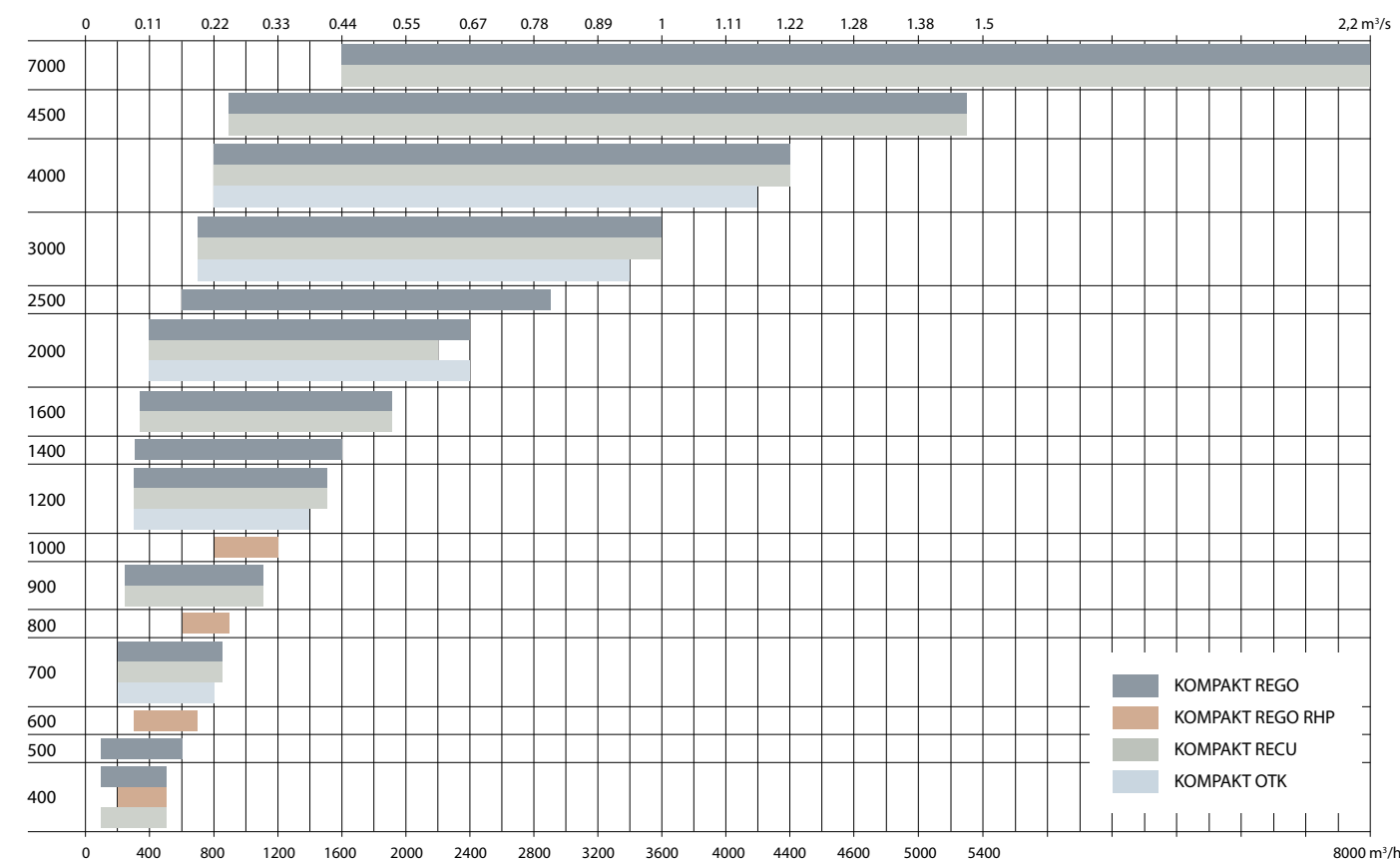
Features and benefits of KOMPAKT units:

- Smart design with fully integrated automatic control C5 – PLUG&PLAY solution.
- Low energy consumption.
- Helps to save up to 92% of heat.
- Efficient operation due to high thermal efficiency of the units.
- Silent operation.
- Compact sizes and universal 8 connections' construction allow convenient and easy mounting.
- Wide choice of automatic control functions already included as a standard – no options are needed.
- Integrated web server for clever control.
- Control via Smartphone available.



Capacity range
from 200 to 8 000 m³/h

Air flow



KOMPAKT REGO
units with rotary
heat exchanger

KOMPAKT REGO RHP
units with rotary heat
exchanger and heat pump

KOMPAKT RECU
units with plate
heat exchanger

KOMPAKT OTK
flat air supply
units



Energy Efficient Air Handling Units Komfovent VERSO

Komfovent VERSO units have nine main sizes for the air flow from 1 000 m³/h to 34 000 m³/h. Units can be with heat recovery or just air supply units. VERSO ensures best performance and required operation parameters being design in very compact dimensions: up to size 70 each section size allows bringing it through a standard 900 mm wide door opening.

For customers' convenience air heaters, coolers and dampers are mounted outside the unit as a separate section that gives flexibility in mounting and saving the installation area. Indoor and outdoor mounting is possible. Units have a complete integrated automatic control, ensuring lower exploitation and installing costs on site, just PLUG & PLAY.

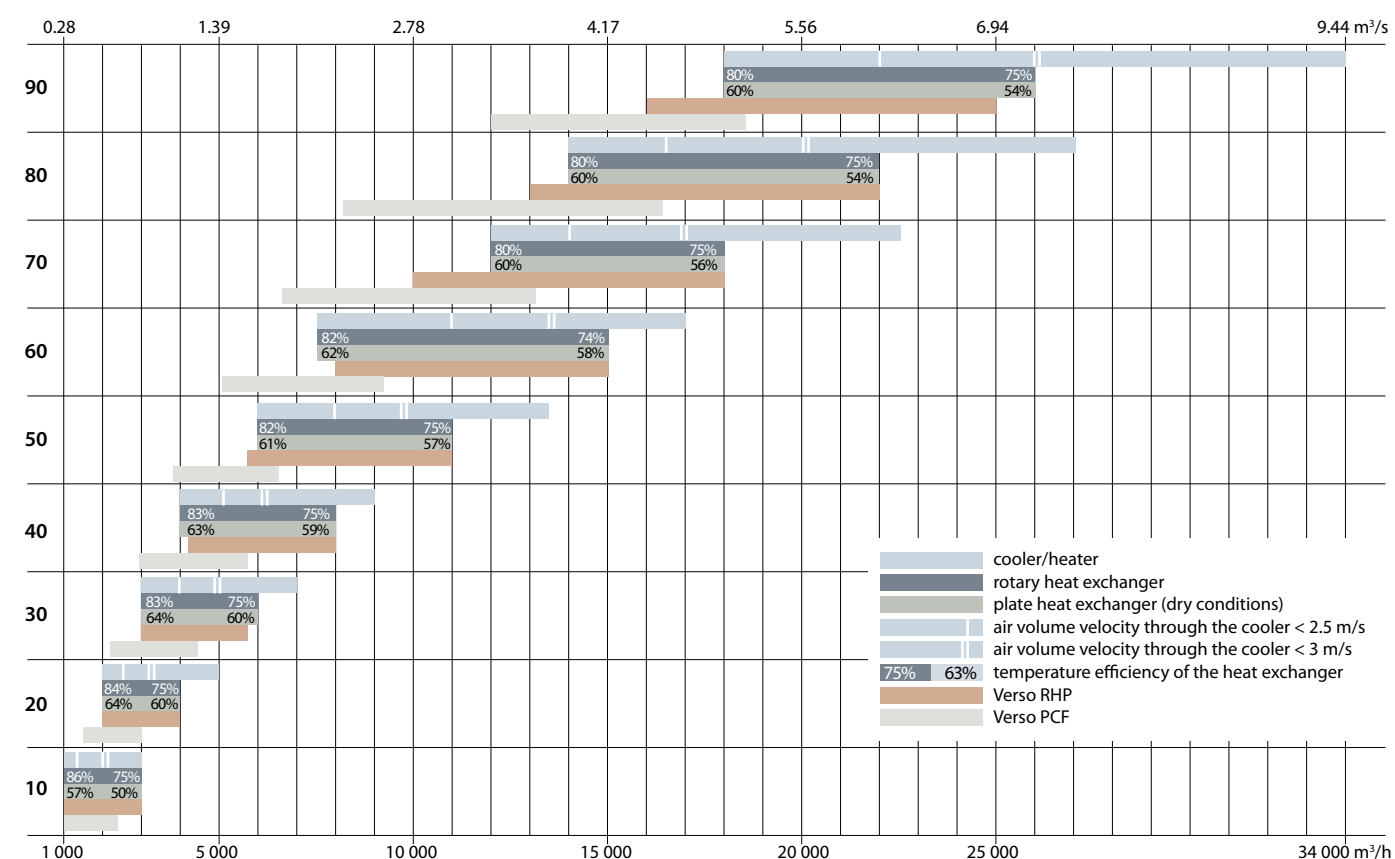
Features and benefits of VERSO units:

- All units are completely prewired and have an integrated automatic control C5.
- Innovative units with integrated reversible heating/cooling pump.
- Wide choice of control functions is already included as a standard feature.
- Extremely silent in operation.
- Low energy consumption.
- Energy efficiency tested and approved by EUROVENT.
- Fans are balanced statically and dynamically to avoid vibration and ensure silent operation.
- All casings are powder painted.
- Steady baseframe with on-site regulation possibilities.
- Easy and quick assembling on-site.
- Integrated web server for clever control.
- Control via Smartphone available.



Capacity range from
1 000 to 34 000 m³/h

Air flow



VERSO-S
air supply units

VERSO-R
air handling units
with a rotary heat
exchanger

VERSO-P
air handling units
with a plate heat
exchanger

VERSO-RHP*
air handling units with
a rotary heat exchanger
and a heat pump system

* This unit not included in the software
Eurovent certified.

VERSO-PCF
air handling units with
a counter cross-flow
plate heat exchanger





Energy Efficient Air Handling Units Komfovent KLASIK

Ventilation equipment KLASIK is a bespoke type air handling units in 14 sizes with airflows ranging from 1 000 m³/h to 90 000 m³/h (0,3 m³/s to 25 m³/s). Unit of bigger capacity (90 000 m³/h and more) are also available and can be selected according to individual inquiries. Wide range of the KLASIK units and their functional possibilities allow applying the equipment in different type of the projects: residential, public, shopping malls, industrial buildings. Units could be also offered as hygienic equipment for clean premise ventilation.

Air handling units KLASIK consist of system of modules which quantity and their functional purpose depends on requirements of the customer and features of the project. Equipment may be offered with heat recovery or just as air supply or exhaust equipment. From the constructional point of view and depending on customer needs units may be monoblock (consisting of one common section in one level) and modular (consisting of several sections or modules). All units are designed and made according LST, EN (EN 13053, EN 13779, EN 1886), VDI (VDI 6022, VDI 3803/1), RLT (RLT 01) standards. Participate in EUROVENT program for KLASIK selection software.

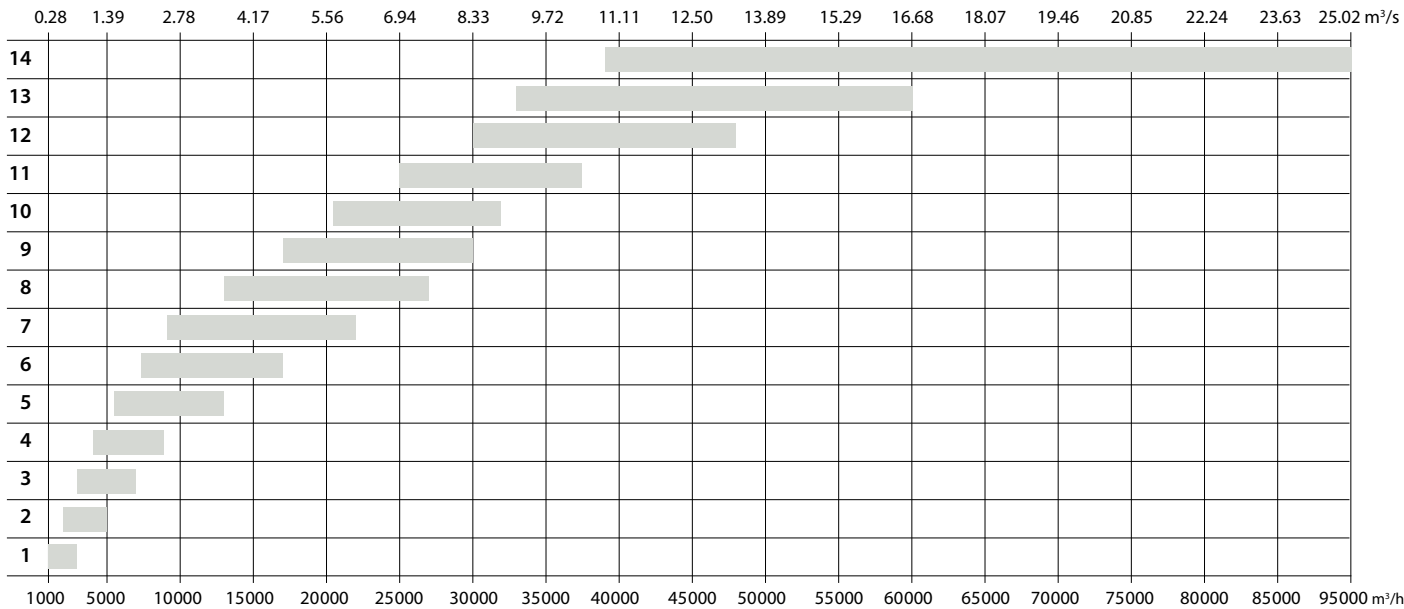
- Features and benefits of KLASIK units:**
- Unique solutions available.
 - Flexible performance and functionality possibilities.
 - Efficient operation ensured by reliable components.
 - Tight and stable casing with perfect insulation.
 - High efficiency and silent operation.
 - Smart automatic control C5 with wide choice of functional possibilities.
 - Integrated web server for clever control.
 - Control via Smartphone available.



The photo is intended for informational purposes only, exact details may vary.

Capacity range from
1 000 to 90 000 m³/h

Air flow



KLASIK REGO
air handling units
with rotary heat
exchanger

KLASIK RECU
air handling
units with cross-
flow plate heat
exchanger

KLASIK DSVI
air handling units
with glycol heat
exchanger

KLASIK OTK
supply or exhaust
air handling unit
without heat
recovery

KLASIK OTM
(DSVIM, RECUM)
air handling units for
medical and hygienic
premise ventilation



Automatic Control System KOMFOVENT

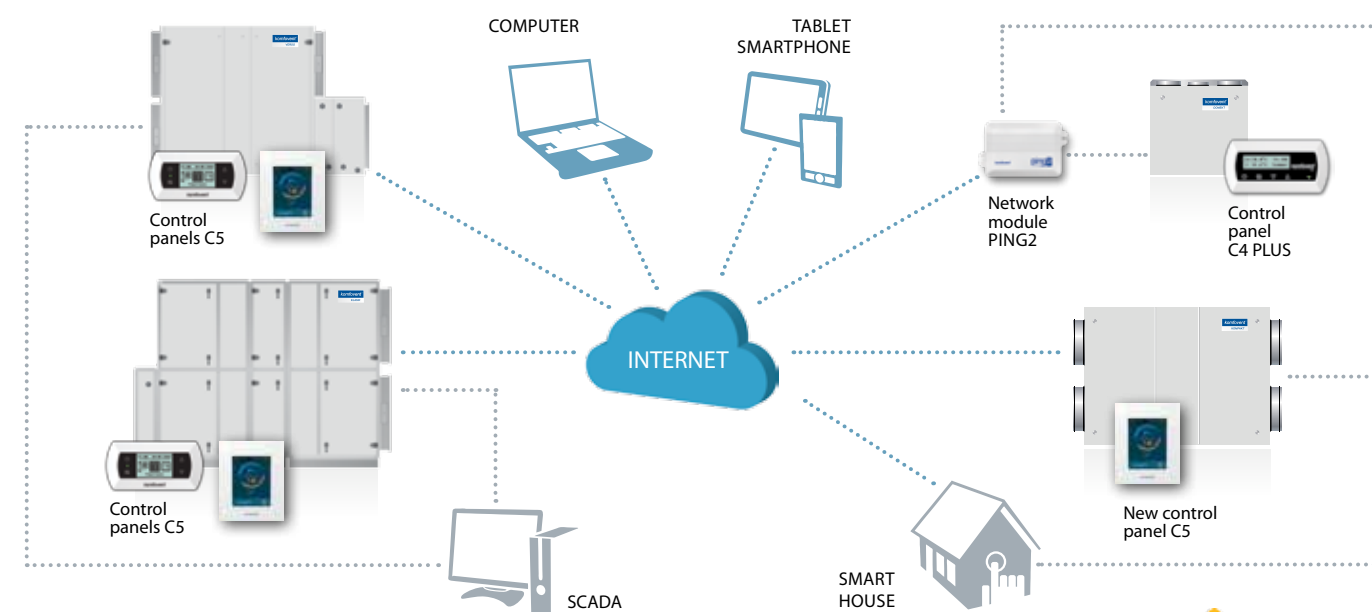
Fully integrated control system KOMFOVENT ensures safe operation of the air handling unit, controls preset ventilation system parameters and optimize unit operating costs.

KOMFOVENT air handling units are offered by the principle PLUG & PLAY, without any external electrical boxes, ready for operation. To ensure reliable operation, reduce installation work costs and other expenses, automatic control is fully integrated in the air handling unit and the system of connected automatic elements ensures quick and easy assembling of the unit. Everything is already prewired and tested in the manufacturing site. Only the modern and attractive design control panel must be installed inside the building in any user-convenient place.

Each series of the air handling units have specially adapted KOMFOVENT controller, which in the best way ensures functionality and operational needs of the air handling unit.

Smartly designed controllers' algorithms allow wide range of functional possibilities, which ensure energy saving of the system at the same time let to maintain and keep comfort conditions in the ventilated premises: air quality control, operation on demand, summer night cooling, VAV, CAV and many others.

Implemented Modbus and BACnet protocols allow easy integration of KOMFOVENT air handling units to any desired Building Management Systems.



All controllers are easy in operation, have convenient user-friendly menu, LCD display enables to monitor various parameters, touch-sensitive buttons allow pleasant and convenient setting operation modes of the unit by soft touching.

KOMPAKT, VERSO and KLASIK units have integrated web server for controlling and monitoring the AHU's operation via internet. Remote control for DOMEKT units is available after connecting additional network module PING2.

AHU can be controlled via a web browser on your computer or mobile devices. Application softwares for Android Smartphones are specially developed for more convenient control. User-friendly interface enables clear and easy monitoring of air handling unit operation.

Download mobile applications from Google Play or scan the QR codes below:



"Komfovent"
application for units
with integrated
C5 control system



"Komfovent Home"
application for units
with integrated
C4 control system



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