

Komfovent DOMEKT residential ventilation units



ErP 2018
EcoDesign

Capacity range
from 50 to 1000 m³/h

- Simple & convenient selection**
Detailed information on all units can be found in the DOMEKT selection software or on our website komfovent.com, where you can quickly select the unit tailored to your needs.
- Wide range**
Depending on your installation plans, you can choose the most appropriate model: horizontal, vertical or flat. Non-freezing rotary or high efficiency counterflow plate heat exchangers are available. All units are equipped with electrical heaters. Water heater is available as an option.
- Plug & Play**
DOMEKT ventilation units require minimum maintenance – an intelligent automation C6 which is integrated in all ventilation units does all the work for you. Factory settings are fully tested and predefined – just turn on and use. An advanced user can change all the settings according to individual preferences.
- Reliability and durability**
The housing of the units is made of galvanized steel with a powder coated finish. Fan motors are protected from moisture and dust, and equipped with long life bearings.
- Low noise level**
Only perfectly balanced fans with unique geometry are used in DOMEKT units. All of the unit's components are aerodynamically matched. Mineral wool filled housing and special composite materials ensure unit's silent operation.
- Energy recovery**
DOMEKT series are equipped with only the most efficient EC (electronically commutated) fans, high efficiency rotary and counter flow plate heat exchangers, filters with huge filtering area and intelligent automation C6. All these components dramatically reduce energy consumption while maintaining a comfortable indoor climate.
- Integration to BMS**
All KOMFOVENT air handling units have fully implemented Modbus and BACnet protocols, which allows easy integration to any desired Building Management Systems.
- Connectivity to WEB**
The units can be controlled not only by panel, but also via a web browser on your computer or mobile devices. **Komfovent Home** application was specially developed for more convenient control.

Automatic control system C6 SMART HOME

- ✓ Intuitive control
- ✓ Ready for home use
- ✓ Integrated power meter
- ✓ Integrated web server
- ✓ Only 1 W energy consumption in standby mode



CONTROL PANEL C6.1

- Colored LED touch screen
- Indication and setting of all parameters from the panel
- Time, temperature and humidity indication on screen saver

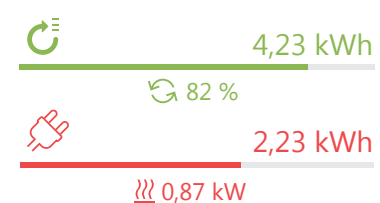


CONTROL PANEL C6.2

- Modern panel with touch buttons
- Factory preset parameters
- Smart and easy control

Unit energy counters

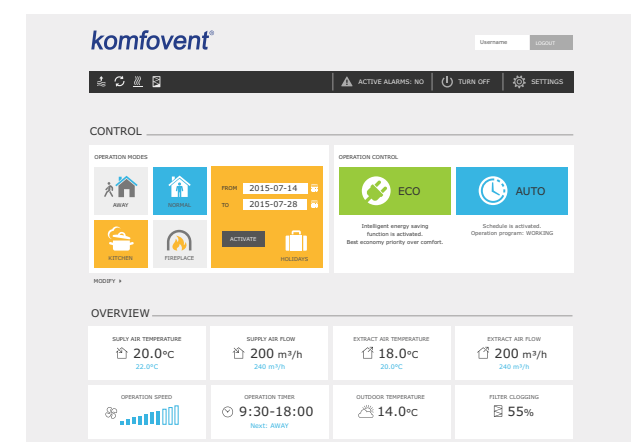
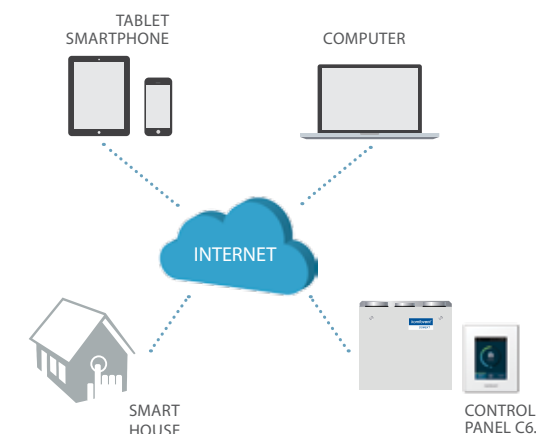
- Efficiency of recovery and power consumption indication gives the possibility to monitor and set up unit operation in a proper way.
- Energy counters helps to determine operation costs of the air handling unit and additional heater.



Various operation modes

- 8 operation modes are pre-set for all situations.
- Intelligent energy saving mode ensures minimum power consumption.
- Automatic air quality control selects the most appropriate mode and ensures the comfort conditions in the room.

Remote control



- Full monitoring of the parameters, energy consumption, air quality results and a lot of other useful information is available in the user friendly web interface.
- **Komfovent Home** application for replicates control panel possibilities and allows to control your home ventilation from any place, wherever you are.



DOMEKT

intelligently controlled
residential ventilation

DOMEKT air handling units. Specifications

| UNIT SIZE | | 200 | 250 | | 300 | 400 | | | 450 | 500 | | | 600 | 650 | 700 | | | | | 800 | 1000 | UNIT SIZE | | | | |
|--|-------|--------------|--------------------------|--------------------|--------------------|--------------------------|--------------------------|----------------|--------------------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------|--------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------|--------------------|--------------------|-----------------|----------------------------------|---|------|
| AHU type | | Domekt R | Domekt R | Domekt CF | Domekt CF | Domekt R | Domekt R | Domekt R | Domekt R | Domekt CF | Domekt R | Domekt R | Domekt R | Domekt CF | Domekt R | Domekt S | Domekt R | Domekt R | Domekt R | Domekt CF | Domekt CF | Domekt CF | Domekt S | Domekt S | AHU type | |
| Heat exchanger type | | rotary | rotary | counter cross-flow | counter cross-flow | rotary | rotary | rotary | rotary | counter cross-flow | rotary | rotary | rotary | counter cross-flow | rotary | supply air unit | rotary | rotary | rotary | counter cross-flow | counter cross-flow | counter cross-flow | supply air unit | supply air unit | Heat exchanger type | |
| AHU version | | vertical [V] | flat [F] | vertical [V] | flat [F] | vertical [V] | vertical [V] | horizontal [H] | flat [F] | vertical [V] | vertical [V] | vertical [V] | horizontal [H] | flat [F] | horizontal [H] | flat [F] | vertical [V] | horizontal [H] | flat [F] | vertical [V] | horizontal [H] | flat [F] | flat [F] | flat [F] | AHU version | |
| SEC | | A | A | A | A | A | A+ | A | A | A+ | A | A | A | A | A | B | A | A | A | A+ | A+ | A | B | B | SEC | |
| Reference flow rate | m³/s | 0,05 | 0,047 | 0,041 | 0,06 | 0,063 | 0,056 | 0,082 | 0,092 | 0,076 | 0,092 | 0,123 | 0,120 | 0,1013 | 0,114 | 0,125 | 0,149 | 0,131 | 0,133 | 0,1239 | 0,1266 | 0,14 | 0,161 | 0,194 | m³/s | |
| | m³/h | 180 | 170 | 149 | 207 | 227 | 202 | 295 | 331 | 273 | 331 | 441 | 441 | 365 | 386 | 449 | 536 | 472 | 479 | 446 | 456 | 504 | 578 | 700 | m³/h | |
| Maximal air flow at 100 Pa | m³/h | 258 | 240 | 211 | 295 | 324 | 287 | 422 | 472 | 390 | 472 | 630 | 617 | 521 | 584 | 642 | 764 | 675 | 686 | 637 | 651 | 720 | 826 | 1000 | m³/h | |
| Dimensions | B, mm | 320 | 605 | 510 | 604 | 502 | 495 | 515 | 700 | 600 | 535 | 645 | 645 | 1045 | 570 | 475 | 645 | 647 | 870 | 495 | 494 | 875 | 475 | 700 | B, mm | |
| | H, mm | 625 | 310 | 700 | 294 | 610 | 547 | 565 | 330 | 800 | 610 | 950 | 700 | 295 | 600 | 297 | 950 | 700 | 420 | 1220 | 790 | 344 | 350 | 350 | H, mm | |
| | L, mm | 600 | 845 | 595 | 1250 | 598 | 600 | 650 | 1170 | 598 | 680 | 1070 | 930 | 1400 | 1130 | 873 | 1070 | 930 | 1240 | 1020 | 1500 | 1365 | 973 | 893 | L, mm | |
| Unit weight | kg | 42 | 40 | 41 | 52 | 28 | 50 | 45 | 67 | 54 | 60 | 113 | 86 | 93 | 80 | 35 | 114 | 87 | 93 | 100 | 115 | 81 | 37 | 46 | kg | |
| Duct connections | mm | ∅ 125 (6x) | ∅ 125 (1x) ∅ 160 (4x) | ∅ 125 (4x) | ∅ 160 (4x) | ∅ 100 (1x) ∅ 160 (4x) | ∅ 125 (1x) ∅ 160 (4x) | ∅ 160 (4x) | ∅ 125 (1x) ∅ 200 (4x) | ∅ 160 (4x) | ∅ 125 (1x) ∅ 160 (4x) | ∅ 125 (1x) ∅ 250 (4x) | ∅ 125 (1x) ∅ 200 (4x) | ∅ 200 (4x) | ∅ 125 (1x) ∅ 200 (4x) | ∅ 160 (2x) | ∅ 125 (1x) ∅ 250 (4x) | ∅ 125 (1x) ∅ 250 (4x) | ∅ 125 (1x) ∅ 250 (4x) | ∅ 200 (4x) | ∅ 250 (4x) | ∅ 250 (4x) | ∅ 200 (2x) | ∅ 250 (2x) | mm | |
| Thermal efficiency of heat recovery | % | 82 | 81 | 89 | 86 | 83 | 86 | 84 | 81 | 88 | 85 | 85 | 85 | 87 | 83 | — | 83 | 84 | 83 | 88 | 88 | 82 | — | — | % | |
| Max. operating current with electric air heater | A | 4,7 | 6,1 | — | 8,3 | 4,0 | 5,5 | 6,3 | 7,3 | 10,5 | 7,2 | 7,3 | 7,3 | 11,7 | 7,3 | 14,7/10,4 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 11,7 | 10,3/14,6 | 14,6/23,3 | A |
| Supply voltage | V/Hz | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 3~400 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | 1~230 | HE 1~230 HE 3~400 HW 1~230 | HE 3~400 HW 1~230 | V/Hz |
| Electric power input of the fan drive at reference flow rate | W | 27 | 43 | 33 | 32 | 34 | 23 | 55 | 72 | 33 | 72 | 77 | 73 | 67 | 77 | 63 | 76 | 77 | 76 | 73 | 72 | 70 | 75 | 82 | W | |
| Electric power input of the fan drive at maximum flow rate | W | 66 | 90 | 90 | 89 | 90 | 71 | 126 | 165 | 91 | 170 | 144 | 180 | 171 | 179 | 172 | 181 | 179 | 176 | 179 | 178 | 177 | 181 | 182 | W | |
| Heater type: E – electric, W – water | | E | E | — | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E/W | E/W | Heater type: E – electric, W – water | |
| Electric air heater capacity | kW | 0,8 | 1,0 | — | 0,5 / 1 | 0,5 | 1,0 | 1,0 | 1,0 | 0,5 / 1,5 | 1,0 | 1,0 | 1,0 | 0,5 / 1,5 | 1,0 | 3,0/6,0 | 2,0 | 2,0 | 2,0 | 0,5 / 1,5 | 0,5 / 1,5 | 0,5 / 1,5 | 6,0/9,0 | 9,0/15,0 | kW | |
| Control panel type | | C4.1 | C6.1 / C6.2 | C4.1 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C5.1 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C6.1 / C6.2 | C5.1 | C5.1 | Control panel type | |

- Thermal insulation thickness – 50 mm.
- Standard filter class (supply/exhaust) M5, F7 class air filters – on request.
- Units color – RAL 9010.

