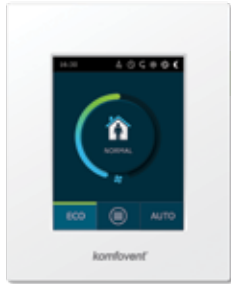


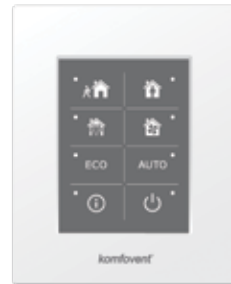
Automatic control system C6 for DOMEKT units

C6 SMART HOME



Panel C6.1

- Colored touch-sensitive LED display
- Indication of parameters
- Setting of all parameters from the panel



Panel C6.2

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

C6 automation allows you to intelligently adjust the air handling unit's operating modes – in this way automation allows you to save energy while ensuring the desired comfort level.

For both: beginners and advanced users

User-friendly interface enables intuitive navigation and control of the unit. Core philosophy behind the design of C6 was so the ventilation unit would operate properly without constant adjustments from the user. Different ventilation modes are optimized for user's daily needs. Automatic air quality control selects the most appropriate mode and ensures the comfort conditions in the room.

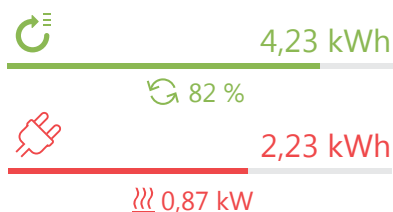
Advanced users can control unit's operation according to his needs, as many settings and control possibilities are provided as well.

Control options

- Possibility to choose from two control panels
- Control via web browser / smartphone
- Ability to control via BMS (Modbus, BACnet)

Energy counters

- Real time energy consumption indicator
- Possibility to observe the running costs of ventilation unit
- Heat recovery counter



Operating modes

- 8 preset modes
- Intelligent energy saving algorithms
- Automatic air quality control with optional AQ sensor
- Extensive weekly schedule



For advanced users

- Advanced users are able to set and control a wide range parameters available to ventilation unit in order to meet their needs
- Airflow control: CAV / VAV / DCV
- Intensity control by air quality, CO₂, humidity level
- Many others possibilities



Smart control functions	
Supply air temperature control	The unit supply a user-defined temperature air
Extract air temperature control	The unit automatically delivers air at a temperature so that the set temperature of the exhaust air is maintained
Room air temperature control	The unit supports the user-set ambient room temperature, according to the temperature sensor located in the panel
Temperature balance control	The temperature support value of the supply air is automatically set on the basis of the current extract air temperature, i.e. the extract air temperature and the supply air temperature will be the same
Constant air volume control (CAV)	The unit supplies and extracts a constant air volume as set by the user, regardless of changes in the ventilation system
Variable air volume control (VAV)*	The unit supplies and extracts air volume correspondingly to the ventilation requirements in different premises
Directly controlled volume (DCV)	The air volumes are controlled by direct external control signals
External water coil control	There is estimated an additional water duct heater or cooler control that can be activated by the user on the control panel
External DX unit control	There is estimated an additional external direct expansion (DX) unit control that can be activated by the user on the control panel
Weekly operation schedule	It is possible to choose one of the four pre-set weekly operation schedules. If necessary, the schedule can be modified
Holidays planning	The user can set the holiday dates for period when he is away. Then the unit will not operate for most of the time, but ventilate the premises occasionally
Air quality control*	Upon connecting the external air quality/humidity sensors, the ventilation intensity is chosen automatically. In this way, the maximum room comfort is ensured with the minimum energy cost
Operation on demand*	The ventilation unit will operate when the air quality in the premises exceeds the set levels
Cool recovery	During the summer season, in the conditioned premises cool from extract air is returned back into the premises
Temperature saving function	The automatic function attempts to maintain comfortable temperature conditions in the premises by reducing the ventilation intensity, i.e. it prevents excessive cooling down or overheating of the premises
Free cooling	When the room temperature air exceeds the set value, and the outdoor temperature is lower than the room temperature, the heat recovery and the other heating/cooling processes is blocked automatically and freecooling are performed only by fans
Ventilation control by external contacts	Air flow can be controlled by three external contacts, each of which can be assigned to different ventilation intensity
Control via internet browser	When the device is connected to the computer network or the Internet, the user-friendly web interface allows the operator to control the equipment with a computer or with another mobile device
Control with smartphones	The "Komfovent Home" mobile app has the same interface as the control panel and allows the user to control the ventilation unit from any point
Safety functions	
Filter clogging indication	Clogging of the air filters is measured depending on the duration and intensity of the unit's operation. The user is informed by a message, when it is time to change air filters
Water mixing system warming-up	For units with additional external water heaters/coolers, the circulation pump and mixing valve motion system is provided
Rotor warm-up and cleaning function	In order to prevent the eventual contamination of the stopped rotary heat exchanger, the unit has a periodical forced activation
Heat exchanger frost protection	Units with a counter-flow plate heat exchanger have a primary elected heater that is controlled as needed, and is operated only at the capacity to ensure frost protection. In this way, the ventilation unit can operate in low outside temperatures
Heat exchanger failure indication	In units with plate or rotary heat exchanger, a control system monitors the thermal efficiency, and if it does not reach the stated level, a fault is indicated
Water heater frost protection	This ensures the maximum reduction of the possibility of water freezing during the unit's operation. When the unit is switched off, warm water circulation is supported
Electric heater overheat protection	If there is danger of overheating, heater shuts down automatically. When unit is shut down during the heating operation, fans will continue to operate for set time period
Low air flow indication	If the ventilation unit does not reach the set air volume during the specified time, the unit's operation is stopped
Emergency shut down in case of fire	The external fire alarm is provided when the unit is connected to the building fire alarm system. There is also an internal fire alarm to detect an increased temperature inside the air handling unit or the ventilation system
Emergency shut down when temperature reaches critical limits	When the supply air temperature drops below or exceeds the permitted value, the unit is stopped
Intelligent self-diagnostic	Self-check function of controller and elements of the air handling unit. If a fault is detected, controller terminates the operation of the unit and warns about such a fault using the respective informative messages

* – these functions require additional accessories.