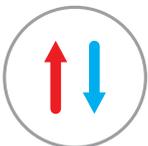




Compact ventilation and air-conditioning units with an integrated automation system, modular structure, and high heat recovery efficiency.



## Properties and functions



Heat recovery with efficiency of 90%



Ventilation within the range 500 - 7500 m<sup>3</sup>/h



Filters M5-F9



Air heating or cooling



Modular structure



Easy assembly



Control system with Plug&Play cabling

# Zenith

Compact ventilation and air-conditioning units with modular structure and high heat recovery efficiency, with an integrated automation system.

 **Frapol**®  
AIR HANDLING VENTILATION

## Zenith structure

### 1 Self-supporting casing

Casing made of thin steel plates, smooth inside, covered with an Aluzinc steel, owing to which it is resistant to corrosion. On the outside, steel is coated to be highly resistant to mechanical damage. Thermal insulation is provided by 50 mm thick mineral wool.



### 2 EC fan

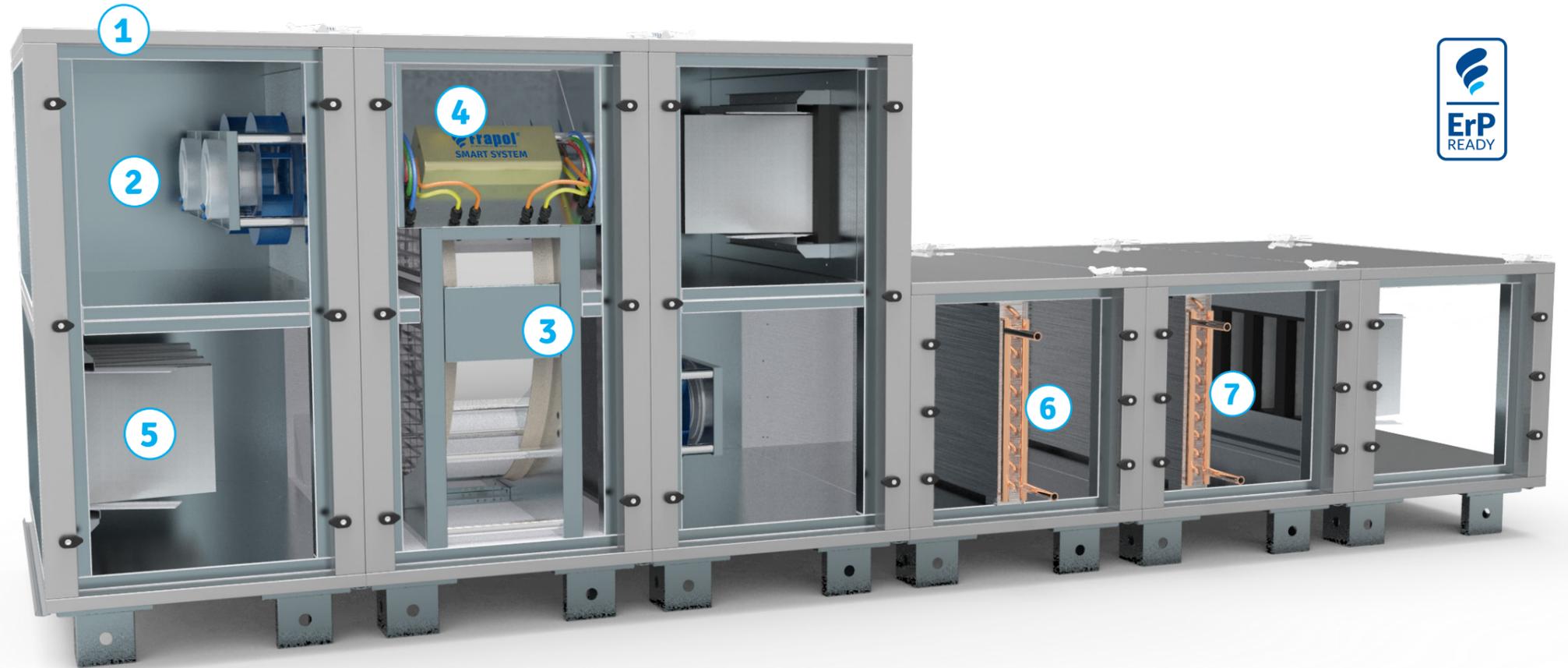
Zenith ventilation unit is equipped with fans with EC engines to allow speed regulation while preserving high output and power savings within the full range of operating performance. EC fans have a compact structure, longer life, and smooth speed regulation, while FlowGrid® nozzles significantly reduce noise levels.

### 3 Heat exchanger (recuperator)

Heat recovery in Zenith units occurs via a "Multivoluminus" counter-flow heat exchanger or a rotary heat exchanger. Both such systems assure high efficiency of heat recovery from used air, while preserving low airflow resistance.

### 4 Control system - Frapol-SMART

The integrated control system allows for complete monitoring and smooth control of unit operating parameters on a colour touchscreen. The control system is also compatible with an application permitting remote control of the unit via a computer or a mobile device.



## Frapol® SMART



Cables are conducted between the walls of the casing, and cable connections are made using quick-release couplings of IP 67 class. The controller has been tested and is safe in the aspect of EMC and LVD Directives.



**UNIT + AUTOMATION + FACTORY CABLING + SIMPLE START**

### 5 Bag filter

Air filtration is carried out using large area bag filters M5. The device can be equipped with class F7/F9 filters to separate harmful PM2,5 and PM1 dust particles.

### 6 Cooling coil 7 Heating coil

Zenith units can be equipped with air cooling or heating section. Cooling is assured by fin-type heat exchangers with liquid medium (water, glycol solution), or R410A cooling agent. Air heating can occur via an electric heating coil, or a fin-type heat exchanger with liquid medium.

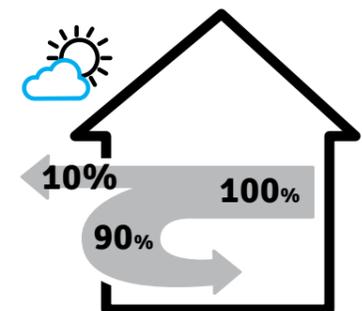
## Zenith - additional properties and advantages

### SELECTION PROGRAMME

State-of-the-art, simple and intuitive selection of an optimal ventilation and air-conditioning unit



## HEAT RECOVERY WITH EFFICIENCY OF 90%



## Modular structure

Zenith unit is composed of modules that can be configured and placed in a manner optimal to the user. The main module can be furnished with a noise silencer, cooling coil, heating coil, and secondary air filtration. The units are supplied in separate function sections. Assembly involves coupling the sections and connecting the automation cables. The installation is very quick and easy.



## Technical data

		Z20	Z40	Z70
Nominal capacity	[m³/h]	2000	4000	7000
Capacity range	[m³/h]	500-2500	1000-4500	2000-7500
Nominal external static pressure	[Pa]	200	200	200
External static pressure range	[Pa]	50-500	50-500	50-500
Fan capacity	[KW]	0,2-2,0	0,5 - 3,6	0,8-6,0
Nominal heat recovery efficiency				
Counter-flow heat exchanger	[%]	86	87	89
Rotary heat exchanger	[%]	84	84	83
Nominal capacity of heating coil	[KW]	23	45	70
Nominal capacity of cooling coil	[KW]	18	40	55

## Dimensions

		Z20	Z40	Z70
L1	[mm]	550	550	550
L2		550 (1300*)	550 (1300*)	550 (1300*)
B		1000	1350	1700
H		1000	1350	1700
h		500	675	850

\*the dimension refers to counter-flow heat exchanger section

