

CAKE



CAKE VR

*Air-handling Units with Rotary Heat Exchangers*

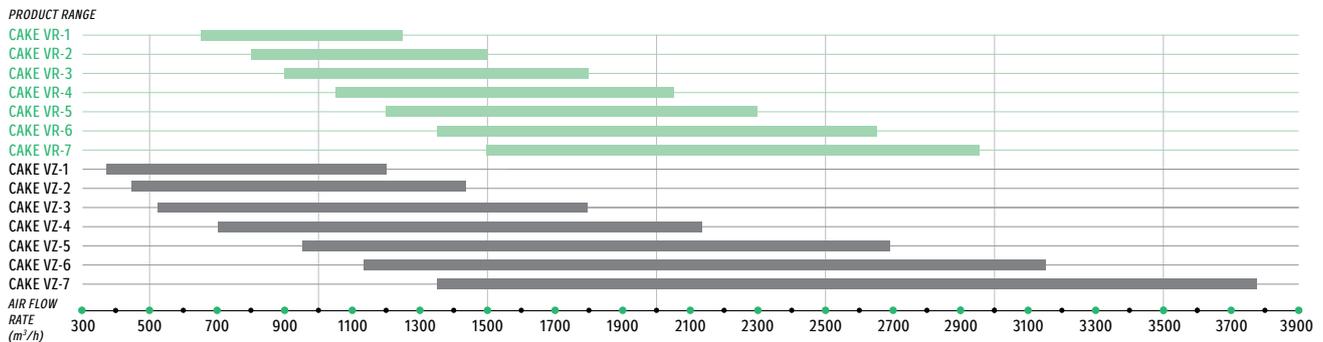
CAKE VZ

*Air-handling Units with Plate Heat Exchangers*

REMAK

COMPACT AIR-HANDLING UNITS WITH HEAT RECOVERY

## PROPERTIES



### SIMPLICITY

- Plug and Play solution for the variant with an integrated control unit
- Option of remote control using the Remak mobile application

### VARIABILITY

- Optional integration of a water or DX cooler
- Optional internal dampers
- Optional wide range of different types and classes of filters
- Both rectangular and round connecting apertures
- Both left-hand and right-hand versions, side variability of inlets and outputs
- Optional type and wave height of the rotary heat exchanger's wheel
- Option for the air-handling unit to be situated outdoors (suitable roofing required)
- Optional control unit: integrated into the air-handling casing/outside the air-handling casing/without control

### QUALITY

- Zero content of silicon-based compounds (provably health and bacteriologically safe solution)
- Precision workmanship of condensate trays
- Lockable safety door closures
- Thermally insulated inter-channel partition walls prevent undesirable heat transfer in the unit and condensation in unwanted places.
- Sophisticated design solution
- Complies with the Ecodesign 2018 requirements
- Heat recovery up to 91 %
- Excellent acoustic and thermal performance of the 50 mm thick casing
- Allowed temperature range -40 °C to +50 °C

## CASING PARAMETERS (in accordance with EN 1886)

|                       |     |
|-----------------------|-----|
| Mechanical strength   | D1  |
| Casing air leakage    | L1  |
| Filter bypass leakage | F9  |
| Thermal transmittance | T2  |
| Thermal bridging      | TB2 |

## SOPHISTICATED FEATURES OF THE CONTROL SYSTEM

Control using an energy administration system and optional remote control by the Remak mobile application is based on the Siemens controller and provides features such as adjustable time schedules and temperature modes, night cooling, temperature start-up, boost, constant air-flow or constant pressure dependent output control, control based on the CO<sub>2</sub> content in the room or connection to the building management system.

## OVERVIEW OF FEATURES

### VARIABILITY OF CUSTOM MADE SOLUTIONS

Optional accessories, dimensions and prices of customised air-handling units can be optimised using the AeroCAD design application.

### INTERNAL COMPONENTS OF THE UNIT

|                            |   |
|----------------------------|---|
| Heat recovery method       | Counter Flow plate heat exchanger,<br>Rotary heat exchanger           |
| Inlet and outlet fan       | EC motors, backward curved fan blades                                 |
| One-stage inlet filtration | Bag and frame filters<br>Coarse 60%, ePM10 60%, ePM2.5 65%, ePM1 70%  |
| Outlet filtration          | Bag and frame filters<br>Coarse 60%, ePM10 60%, ePM10 65%, ePM2.5 65% |
| Heating                    | Water heater, heat pump condenser                                     |

### OPTIONAL ACCESSORY COMPONENTS INSTALLED INSIDE THE UNIT

|                            |   |
|----------------------------|---|
| Cooling                    | Water cooler, DX cooler   |
| Inlet/outlet dampers       | ON/OFF, 0-10 V<br>Rectangular, round                                  |
| Heat exchanger bypass      | ON/OFF, 0-10 V  |
| Mixing*                    | 0-10 V  |
| Auxiliary condensate tray* | On the inlet side behind the heat exchanger<br>Preparation for cooler |

\* Only air-handling units with plate heat exchangers

### OPTIONAL ACCESSORY COMPONENTS INSTALLED OUTSIDE THE UNIT

|  |   |
|--|---|
| Elastic connections                    | Rectangular, round  |
| Inlet/outlet dampers                   | ON/OFF, 0-10 V<br>Rectangular, round                          |
| Condensate drainage siphon             | Lower condensate drainage from the unit,<br>optionally heated |
| Base frame                             | Fixed, adjustable   |
| Mixing set                             | Standard or inverted connection                               |
| Pre-heating                            | Water/electric  |
| Two-stage inlet filtration             | ePM1 80% Bag filter   |
| Noise attenuator                       | Splitter attenuator   |
| Humidifier                             | Steam humidifier  |
| Electric heating*                      | ON/OFF, 0-10 V  |
| Filtration of coarse dirt and aerosols | Grease filter (metal) with a collection tray                  |

\* depending on the choice of control unit

„OUR COMPACT UNIT IS SMALL,  
SIMPLE AND COST-EFFECTIVE.  
WE DELIVER CATALOGUE  
AS WELL AS CUSTOMISED  
SOLUTIONS, AND THIS UNIT  
CAN BE ADAPTED TO SPECIFIC  
SHAPE AND DIMENSION  
REQUIREMENTS.“

solution for a better environment

Remak a.s.  
Zuberská 2601, 756 61  
Rožnov pod Radhoštěm

T +420 571 877 778  
F +420 571 877 777  
[www.remak.eu](http://www.remak.eu)

