

Date: 26/08/2013

Subject to change in the interest of technical progress.

Technical Data

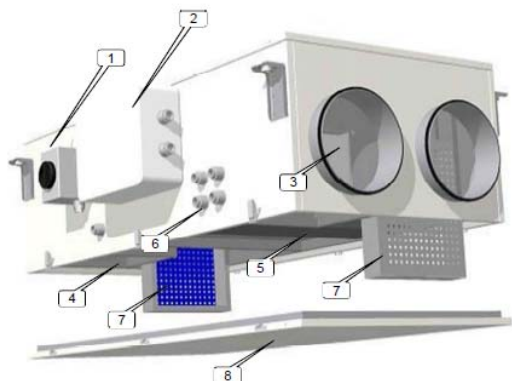
Mechanical Ventilation Heat Recovery Unit

maxi flat 2000



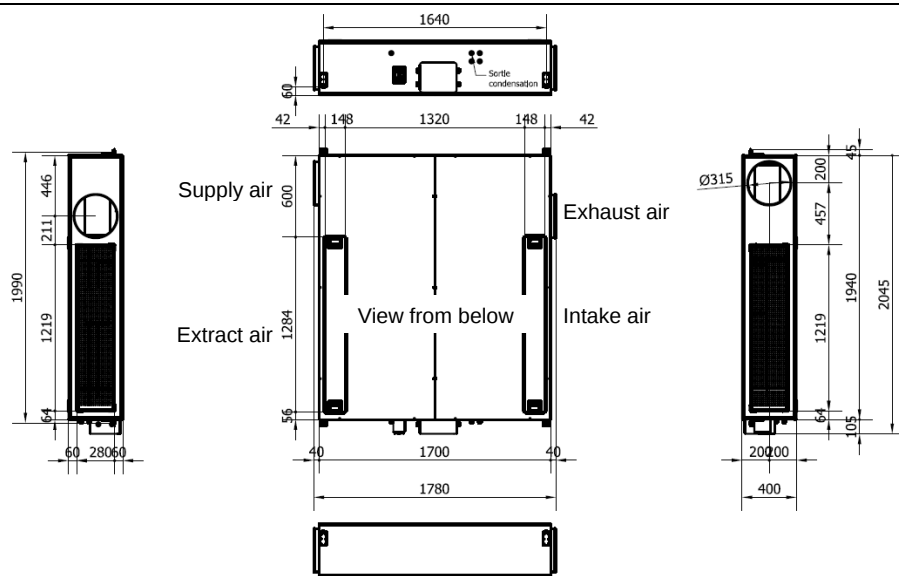
Unit design of the product line (fig. maxi flat 450):

Product photo:

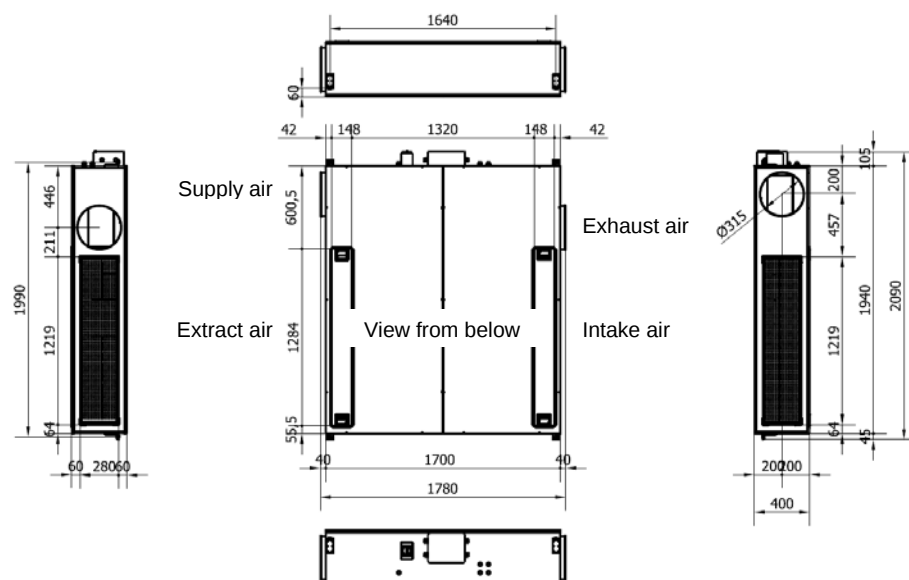


- 1 Main switch for power supply fans and control
- 2 Centralized wiring box of the CB4 TAC4 DG circuit (factory pre-wired)
- 3 Supply fan (right device design at maxi flat 450)
- 4 Exhaust fan (right device design at maxi flat 450)
- 5 Air/air – heat exchanger and bypass
- 6 Cable gland for performing condensate hose
- 7 Filter
- 8 Access door for each filter

Unit dimensions:



Right device design



Left device design

Technical Spezifikation:	
Air flow:	100 –2000 m³/h
Demension (LxWxH):	(1700 x 2045 x 400) mm
Weight:	302 kg (Base unit without any additional components)
Duct connection:	DN 315 Supply air and exhaust air, Rectangle duct (1219 x 280) mm Intake air and extract air
Electrical connection:	Fans and control devices: 1 x 230 V, 50/60 Hz; on main switch (pre-wired with centralized wiring box) Electric pre-heating, optionally: 3 x 400 V +N, 50/60 Hz;; separate main switch (pre-wired with main switch)
Power input:	2200 W (Base unit without any additional components)
IP Code (acc. to DIN 40050):	IP 44 (Fany) IP 20 (RC TAC4 REC)
Operating range:	-20°C (lower value if option KWin) to +50°C
Heat exchanger:	Aluminum cross counterflow heat exchanger, sea water resistand
Fans:	EC direct current radial fans
Filter:	Filter G4 (Intake air and extract air), optional F7 (Intake air)
Housing:	Compact housing made of an anodised aluminium structure and acoustically and thermally insulated panels in painted steel on the outside (RAL9002) and galvanised steel inside.
Condensate drain:	Stainless steel drip pan, condensate pump and condensate hose Ø 6 mm (1/4") ID
Summer operation:	motorized summer bypass, temperature-controlled, heat exchanger is 100% shut off

Operating Data:

air flow	Heat exchanger efficiency ¹⁾	Supply air temperature ¹⁾ (after exchanger)	SFP	Power absorbed ²⁾	Sound pessure level ²⁾ (open field in 3 m distance)
m³/h	%	°C	W/m³/h	W	dB(A)
500	95,5	20,6	0,08	40	19,8
1000	93,4	19,9	0,21	213	30,9
1500	92,1	19,5	0,40	606	38,5
2000	91,1	19,2	0,65	1293	44,6

¹⁾ Values for supply and extract air volume flow at $t_{Au} = -10\text{ °C}$, $\varphi_{Au} = 90\text{ % r.F.}$ and $t_{Ab} = 22\text{ °C}$, $\varphi_{Ab} = 50\text{ % r.F.}$

²⁾ at external pressure of 100 Pa

TAC4 control system:

- Fan airflow management (accurate knowledge of fan's working point)
 - Management of time slots depending from the control units
 - Signaling/information for all alarms
 - Fire alarm management
 - Boost function
 - Automatic bypass control (freecooling)
 - Automatic opening and closing motrised dampers (option)
 - Automatic anti-freeze protection of the counterflow
 - Regulation of external post-heating/cold coil (option)
 - Display of all the operating parameters
 - Control and display systems via WEB pages (TCP/IP or GPRS modules)
- Networking units via MODBUS, KNX, or BACnet communication

Control options / communications:

RC TAC4, Remote Control with LCD



Size: 122 x 66 mm

Cable to the control unit: IYSTY 2x2x0,6; max. 1000 m; by costumer

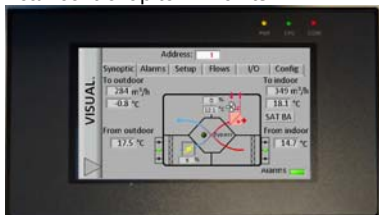
TCP/IP TAC4 MODULE

This is a communication module in TCP/IP with built-in web server
This module can be combined with an RC but not with a GRC



GRCTAC4, Grafic Remote Control with touch display

- can control up to 247 units



Size: 152 x 87 mm

Cable to the control unit: IYSTY 2x2x0,6 with RS-232-connector; 3 m

GPRS TAC4 MODULE

This is a communication module in GPRS with built-in web server
This module can be combined with an RC but not with a GRC



SAT TAC4 MODBUS MODULE
MODBUS RTU communication circuit to be plugged in the TAC4 regulation circuit.

