

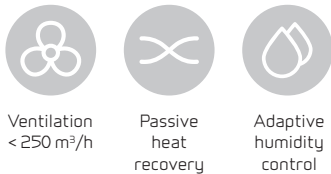
Comfort 250 Top

The Comfort 250 Top is an energy-efficient ventilation unit with heat recovery, designed for residential and small commercial buildings with a ventilation requirement of up to 250 m³/h. The unit features a unique boost function for range hood operation, allowing the capacity to increase by 50 m³/h, reaching a total airflow of 300 m³/h at 200 Pa external pressure loss.

With its compact dimensions, the Comfort 250 Top can be installed in a standard 60 cm wide cabinet, making it particularly suitable for smaller installations. The control panel is integrated into the front for easy access but can be relocated if needed.

The Comfort 250 Top is also available in a Polar version, equipped with a 600 W self-regulating preheating element. The preheating element protects the unit during cold outdoor temperatures by warming the supply air and preventing frost formation in the heat exchanger.

Control: CTS400



Ventilation
< 250 m³/h

Passive
heat
recovery

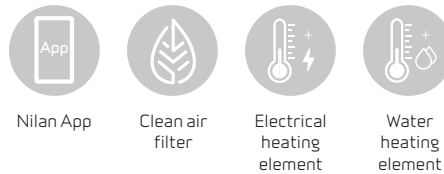
Adaptive
humidity
control

 MADE IN DENMARK

Dimensions (W x D x H)	559 × 550 × 790 mm
Weight	36 kg
Plate type casing	Aluzinc steel plate
Heat exchanger type	Polyethylenerephthalat counterflow heat exchanger
Fan type	EC, constant rotation
Filter class	Greencycle ISO 16890 Coarse 75% (G4)
Duct connections	Ø 160 mm
Condensate drain	PVC, Ø 20×1,5 mm
Leakage classification (1*)	A1



CTS400 Options



Nilan App

Clean air
filter

Electrical
heating
element

Water
heating
element

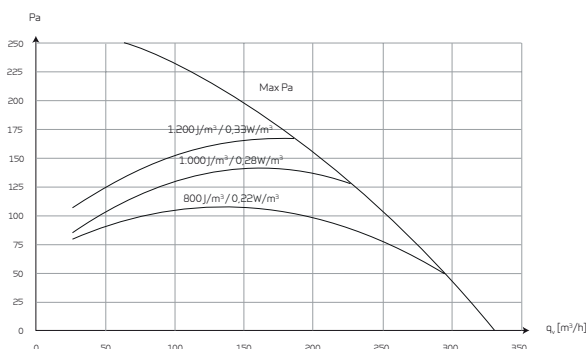
Supply voltage	230 V (±10%), 50/60 HZ
Max. input/power	148 W / 0.6 A
Max. input/power (incl. electrical pre-heating element)	748 W / 3.3 A
Tightness class	IP31
Standby power	4 W
Ambient temperature	-20/+40 °C
Heat loss (2*)	0,64W/m ² .K
Heat loss classification	T2

*1 Testet according to EN13141-7

*2 Testet according to EN1886

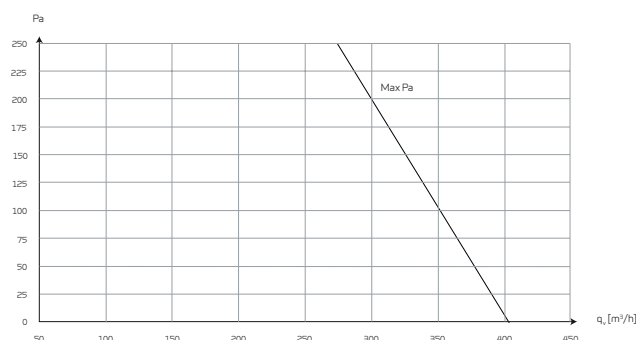
FOR PROJECTS ONLY

Capacity



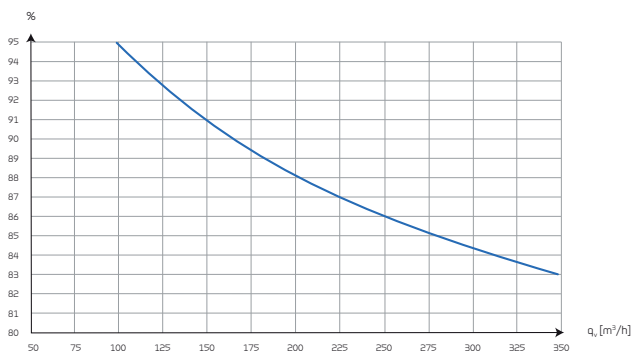
Capacity of standard unit as a function of q_v and $P_{t,ext}$. Acc. EN 13141-7 for standard units with ISO Coarse >75% (G4) filters and without heating element. SEL values comprise the unit's total power consumption.

Capacity (boost function)



The CTS400 has fan speed levels 5 and 6, both of which are connected with user selection 1 and 2. In this way, you can boost the air volume when eg. there is a cooker hood connected.

Temperature efficiency



Temperature efficiency for units with counterflow heat exchanger according to EN13141-7 (dry).

Sound data

Octave band Hz	Surface dB(A)	Supply air dB(A)	Extract air dB(A)	Discharge dB(A)	Outdoor air dB(A)
63	-	32.1	42.8	30.1	41.4
125	-	41.6	52.3	41.5	51.3
250	-	46.4	52.9	45.4	52.2
500	-	46.0	47.1	44.0	45.8
1.000	-	38.2	43.5	36.8	42.5
2.000	-	33.4	43.6	32.6	42.3
4.000	-	25.2	37.6	23.4	35.7
8.000	-	12.0	29.4	10.4	28.2
Total ±2	44.8	50.9	57.2	49.4	56.2
LpA	36.8				

Sound data for $q_v = 126 \text{ m}^3/\text{h}$ and $P_{t,ext} = 100 \text{ Pa}$ according to EN3744 for surfaces and EN 5136 for ducts.

Sound data

Octave band Hz	Surface dB(A)	Supply air dB(A)	Extract air dB(A)	Discharge dB(A)	Outdoor air dB(A)
63	-	37.9	44.4	35.0	42.8
125	-	42.8	53.2	42.8	51.8
250	-	50.2	56.3	49.0	55.2
500	-	53.9	52.6	51.0	51.1
1.000	-	46.7	51.7	45.7	50.0
2.000	-	42.5	52.9	41.4	51.1
4.000	-	35.9	48.7	33.9	46.3
8.000	-	26.3	44.0	24.3	42.1
Total ±2	49.5	56.6	61.1	54.6	59.7
LpA	41.5				

Sound data for $q_v = 250 \text{ m}^3/\text{h}$ and $P_{t,ext} = 100 \text{ Pa}$ according to EN3744 for surfaces and EN 5136 for ducts.

Accessories

- Electrical pre-heating element
- Electrical heating element
- Water heating element
- EM-box
- DBTU damper
- Connection box
- Connection box for CTS400
- Connection box for user selection and EM-box by fire automatics
- Heating cable
- Vibration absorbers
- Flexible silencing
- Pollenfilter ISO 16890 ePM1 55% (F7)
- Cooker hood filter box
- Gateway with App solution
- Plinth (Elevation base)

At www.en.nilan.dk you can find more information e.g. design data, dimensional drawings, installation instructions and ecodeign data.

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