

AirSmart

ICTUS C450

Productdetails



Mechanical Ventilation with Heat Recovery
(MVHR) for ceiling mounting



ICTUS C450

The ICTUS C450 is a lightweight, next-generation ventilation unit with heat recovery. With an airflow capacity of up to 450 m³/h, the unit is perfect for family homes and apartments. This model can be mounted to both ceilings and walls and can be used in renovation and new projects. During the summer months, the 100% bypass function can be used for free cooling.

Key features:



Capaciteit: **490 m³/h** @100Pa, **475 m³/h** @150Pa, **450 m³/h** @200Pa



Heat recovery efficiency **79,9% - 81,5%**



EC motors – **low energy** consumption



Whisper Quiet



Filters **G4** – Option **F7**



Summer bypass for **free cooling** – full automatic



Communication via **Wifi - Modbus**



Ceiling mounting or **wall**



Wireless 4-stage controller with LED communication



Left/right software interchangeability



Constantflow



Technical details (ERP – ECODESIGN)

Type	AirSmart ICTUS C450
Type of unit	Ventilation with heat recovery
Model	450P
Ventilator type	DC
Utility power	220-230 VAC
Max. power (A)	1.35
Frequentie	50 Hz
Max. airflow at 100 Pa pressure	490 m ³ /h
Max. airflow at 150 Pa pressure	475 m ³ /h
Max. airflow at 200 Pa pressure	450 m ³ /h
Steering	With 4 stage switch Via APP (Android & IOS) Demand control CO ₂ , RH, motion, ...
Type of ventilator control	Automated control
Constant flow	Certified constant flow with NTC



Technical details	
Control	Centralized steering Measured locally with CO ₂ , VOC , RH
Filtertype	G4 (optional F7)
Indication for filter cleaning or renewal	Filter alarm via LED indication on the unit or via APP Filters need to be cleaned every 3 months and replaced once a year.
Casing material	EPP (expanded polypropylene)
Bypass	100%
Bypass steering	Automated, based on the outside temperature
Heat exchanger	Counterflow plastic plate
Mounting	Mounting brackets with vibration dampers
Connector extraction (mm)	2 x diam. 180
Connector pulsion (mm)	2 x diam. 180
Max. electrical power (W)	332W
Dimensions (HxWxD)	1065mm x 770mm x 327mm
Weight	15 KG



Accoustic performance dB(A) m ³				
Airflow m ³ /h	365 m ³ /h	405 m ³ /h	451 m ³ /h	501 m ³ /h
Sound pressure EPP case	48,4	50,9	54,3	58,6
Sound pressure extraction duct	47,5	49,8	53,8	56,1
Sound pressure pulsion duct	57	61,2	65,2	70,2
Energy efficiency				
Airflow m ³ /h	365 m ³ /h	405 m ³ /h	451 m ³ /h	501 m ³ /h
Thermal efficiency in % - EN 308	81,5%	80,8%	80,3%	79,9%
Max power	166W/ventilator			
Bypass	100%			

Performance curve ICTUS C450

