

Wentilo ICON heat recovery unit

IT250 E4 | IT350 E4 | IT450 E4



The **airCare+**
antibacterial
coating



Made in **Poland**



Quality certificate



For:

IT250 E4

IT350 E4

IT450 E4

Features



Effective
protection



Temperature
comfort



Surprisingly quiet
device



Healthy breathing



Higher energy
efficiency
standard



Control your unit
however and
wherever you want



Puristic
design



Moisture recovery
or removal



Low weight
and compact
dimensions



I am simple
for you



The power
of technology

Technologies



The **iNOFRAME**
technology
platform



iCARE air filtration
and purification



iENTHALPY
heat and
moisture
recovery



iFLOW
airflow



Automatic
bypass **iDIRECT**



iHEAT anti-freeze
protection



iSENSOR
demand
control



iCLIMATE
climate adaptation
technology*



iCOMFORT
air cooling and
heating*



iLEAD
condensate
drain



iPURE filter
contamination
monitoring



iBALANCE airflow
balancing

Equipment



airENTHALPY
heat exchanger



Supply air filtration
G4 ISO Coarse 75%



Supply air filtration
F7 ePM1 70%



Extract air filtration
M5 ePM10 55%



The **airCare+**
antibacterial
coating



airFLOW
fan



Automatic
bypass
airDIRECT



airHEAT
preheater



iEDGE SMART
control system



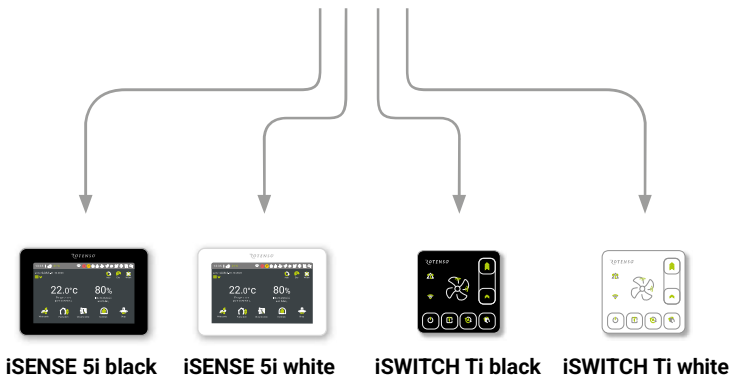
airCO₂
sensor



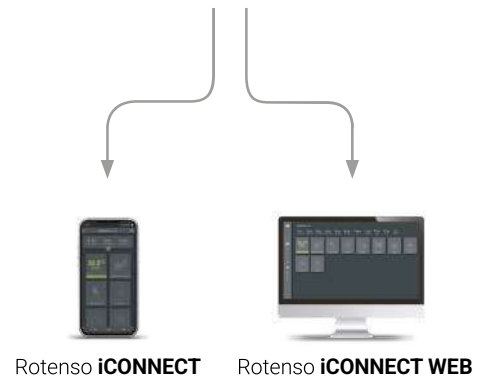
airRH
humidity
sensor

MyRotenso **control options**

Control panels with wi-fi module of your choice



Internet control as standard

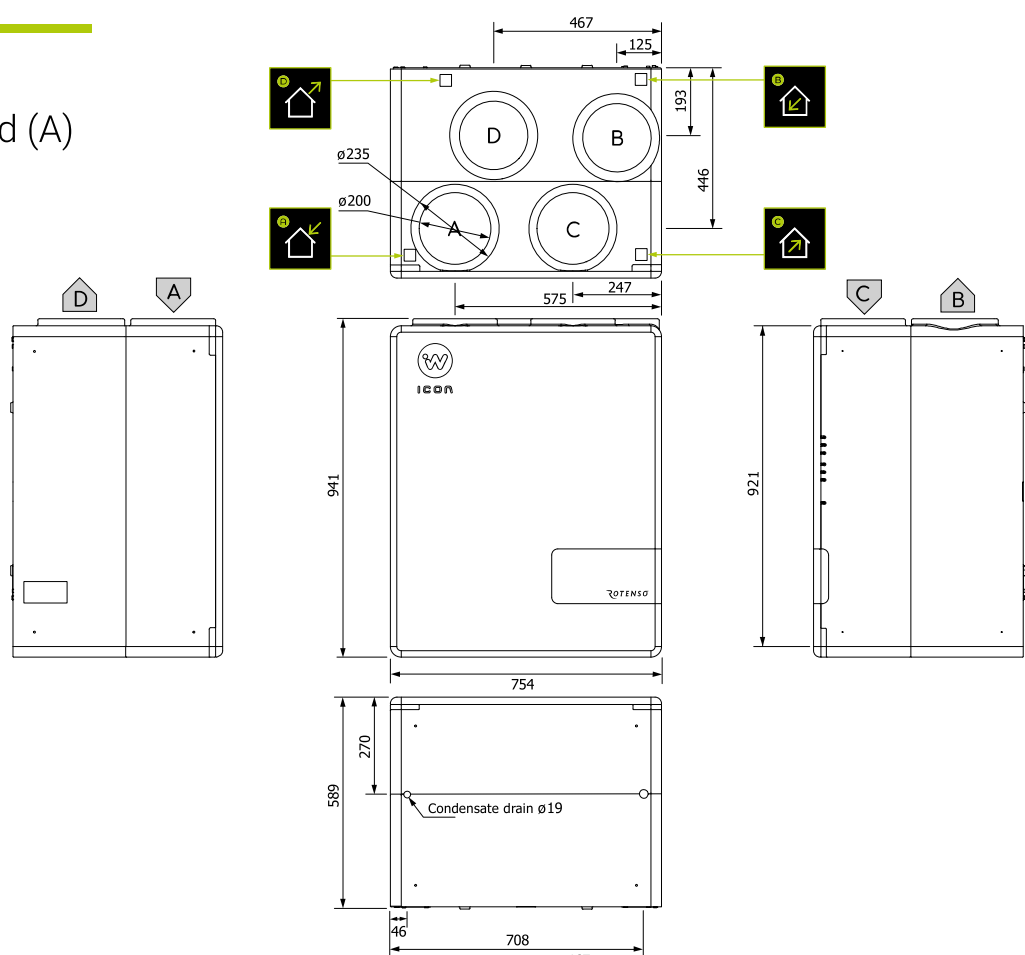


Technical **specifications**

Parameter		Wentilo ICON IT250 E4	Wentilo ICON IT350 E4	Wentilo ICON IT450 E4
Maximum flow rate	m³/h	250	350	450
External static pressure	Pa	200	250	300
Reference flow rate	m³/h	175	245	315
Minimum flow rate	m³/h	58	64	46
Maximum heat recovery efficiency	%	92	93	96
Heat recovery efficiency at reference flow rate	%	88	82	79
Sound power level	dB(A)	48	54	58
Energy efficiency class		A+	A+	A
Power input at reference flow rate	W	33	52	81
Filters	Supply air from outside the building	Anti-pollen filter iCARE G4 Coarse 75%		
	Supply air from outside the building	Anti-smog filter iCARE F7 ePM1 70%		
	Extract air from the room	Anti-pollen filter iCARE M5 ePM10 55%		
Heat exchanger		Counterflow plate	Counterflow plate	Counterflow plate
Bypass		100% bypass	100% bypass	100% bypass
AEC (Annual Electricity Consumption) according to the with Commission Delegated Regulation (EU) No 1254/2014	kWh/a	145	157	181
AHS (Annual Heating Savings) according to the with Commission Delegated Regulation (EU) No 1254/2014	kWh/a	4648	4534	4470
Recommended dwelling area	m²	100 - 125	125 - 150	150 - 200
AEC for the recommended dwelling area	kWh/a	130 - 174	158 - 204	192 - 304
AHS for the recommended dwelling area	kWh/a	4667 - 5793	5799 - 6907	6878 - 9029
Electric power input of the fan drive at maximum flow rate	W	67	117	192
Preheater		As standard	As standard	As standard
Steady-state preheater power	W	1350	1350	1800
Temperature change at the preheater at maximum flow rate	°C	16	12	12
Power supply	V, Hz	230, 50	230, 50	230, 50
Rated current	A	7	7	10
Net dimensions	mm	940 × 591 × 754	940 × 591 × 754	940 × 591 × 754
Gross dimensions	mm	995 × 635 × 850	995 × 635 × 850	995 × 635 × 850
Net weight	kg	30	30	30
Gross weight	kg	34	34	35
Spigot diameter	mm	200	200	200
Condensate drain diameter	mm	20	20	20
Operating temperature range in the room	°C	5 - 45	5 - 45	5 - 45

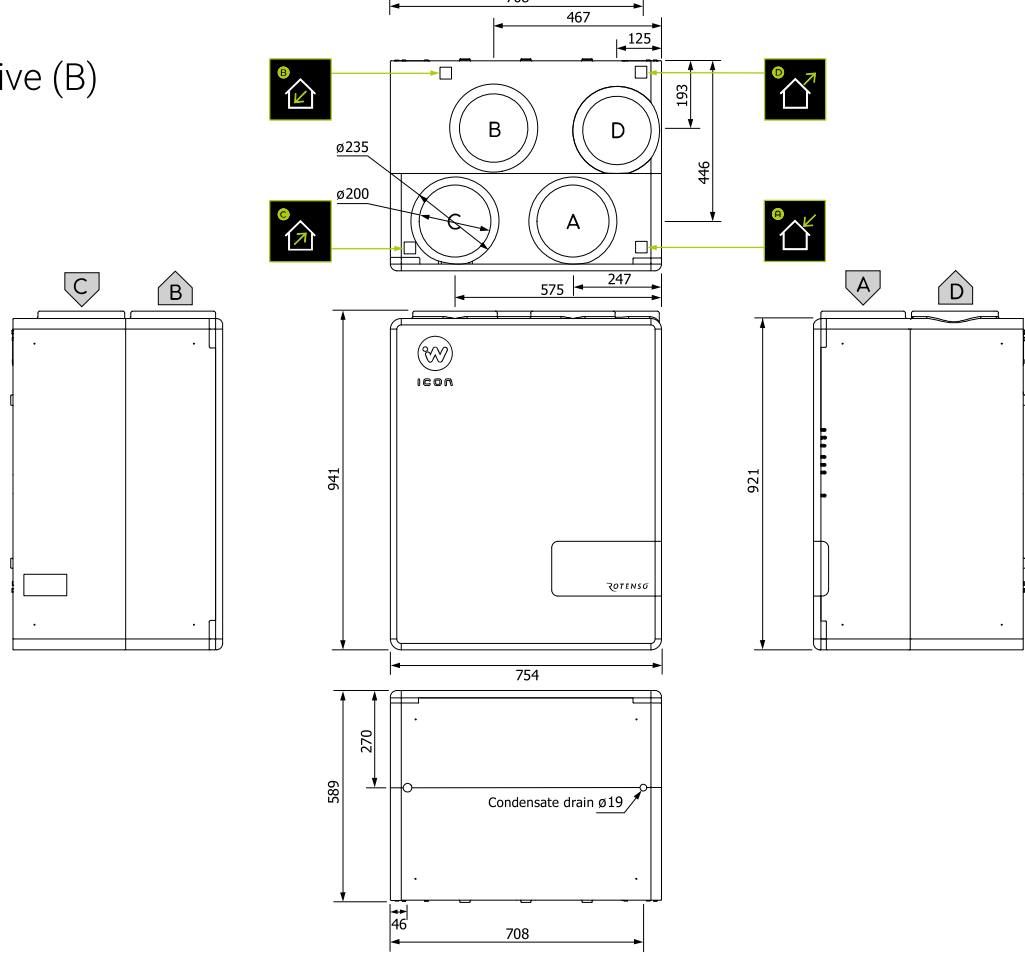
IT execution sides

Standard (A)



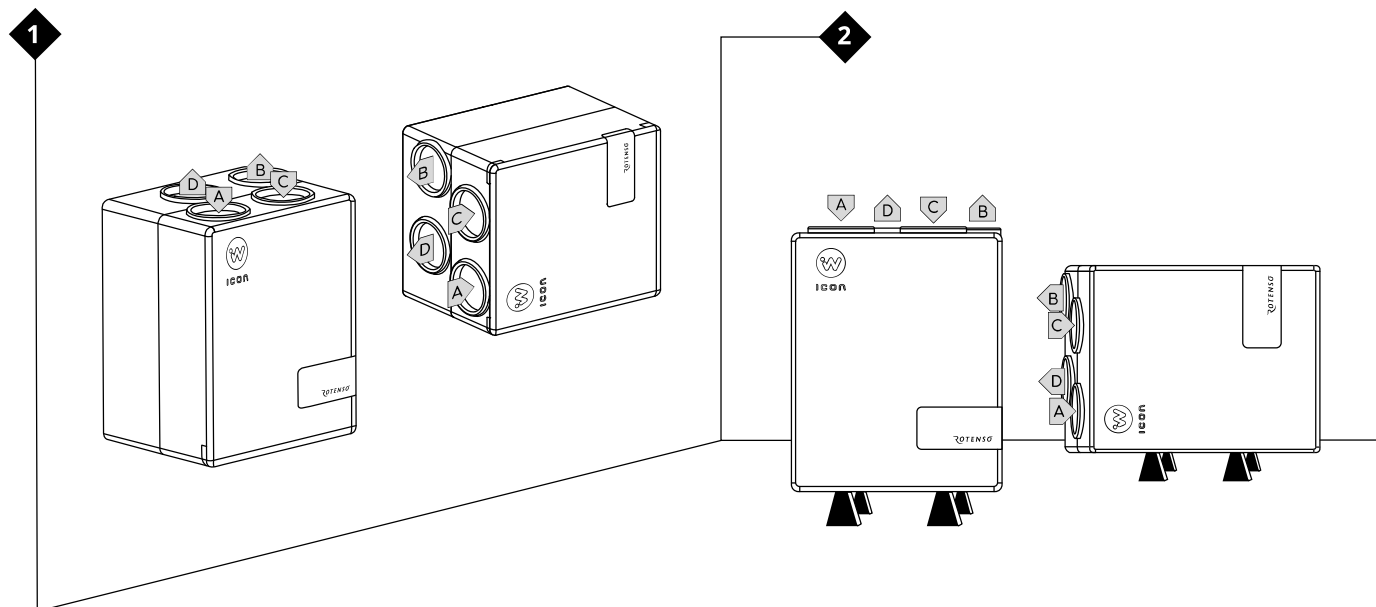
172

Alternative (B)



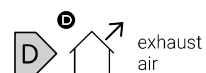
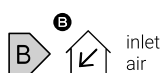
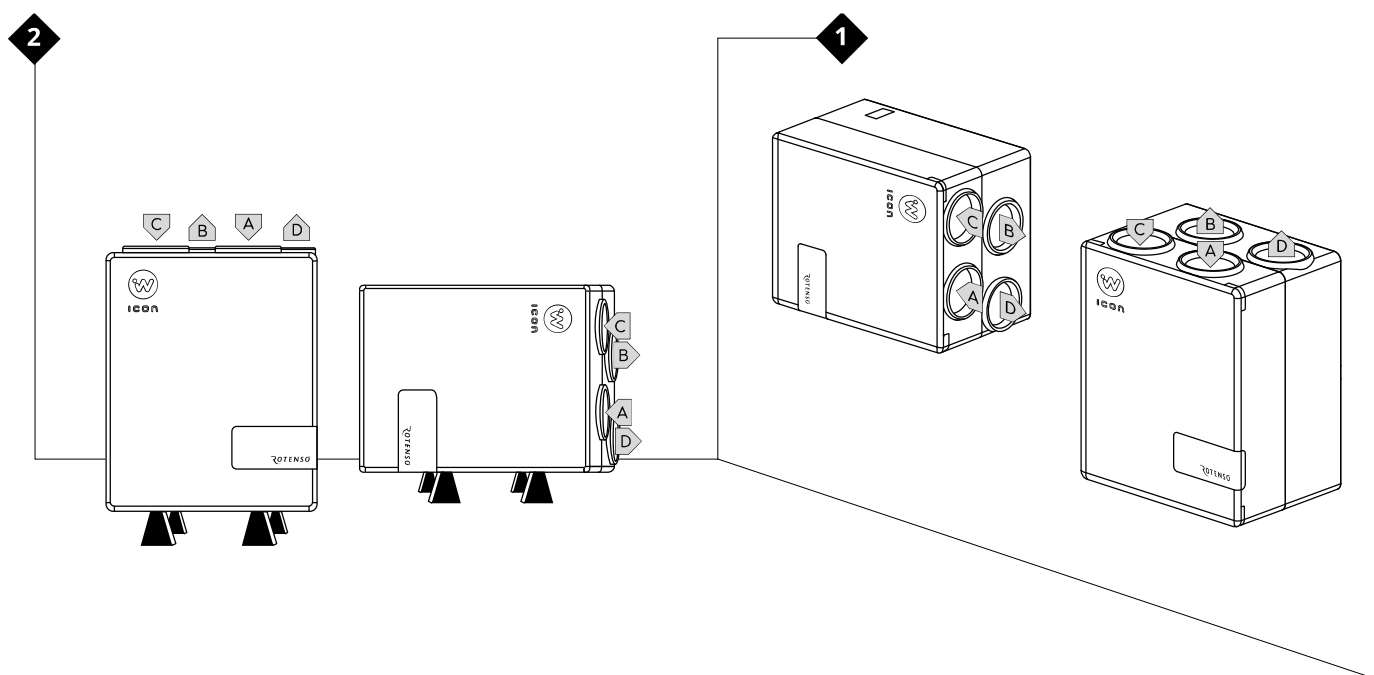
IT mounting options

For the standard execution side (A)

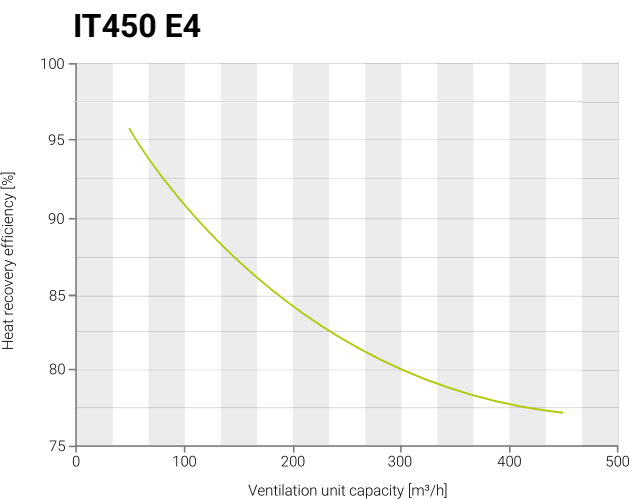
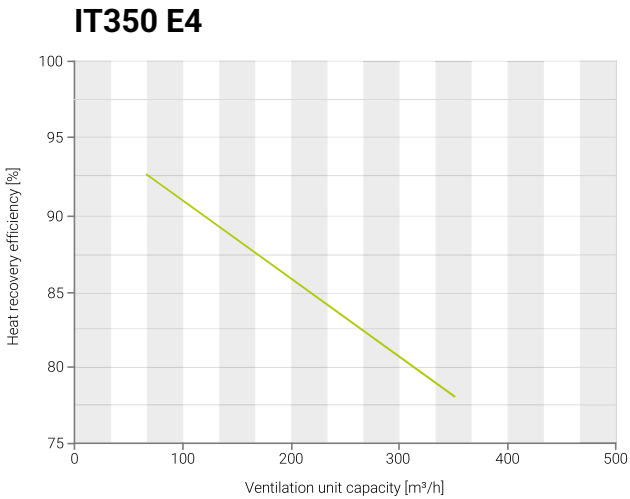
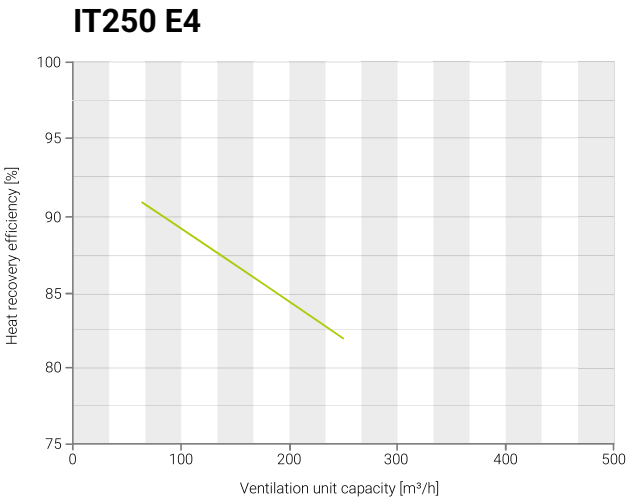


173

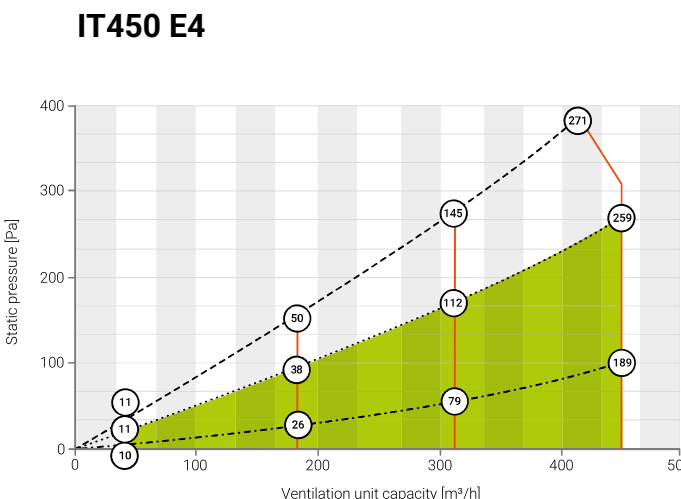
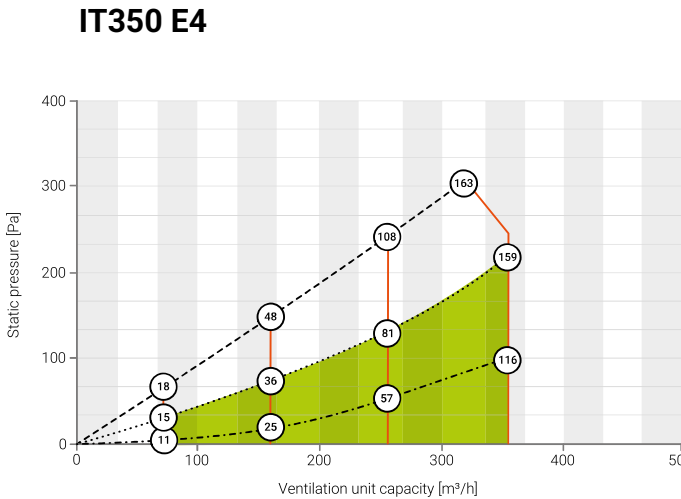
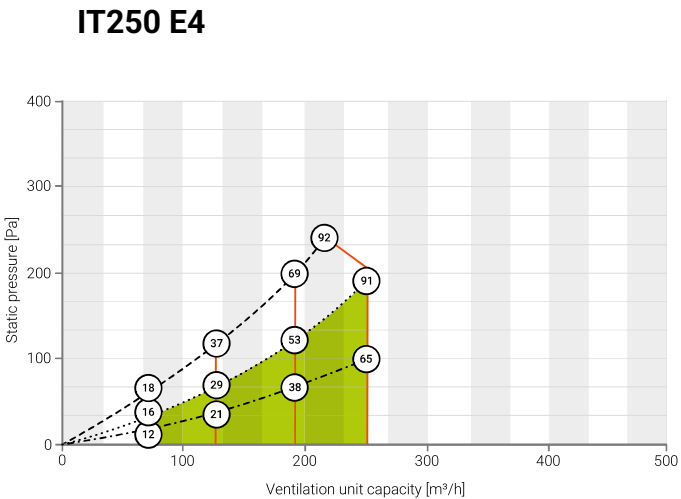
For alternative execution side (B)



Heat recovery efficiency

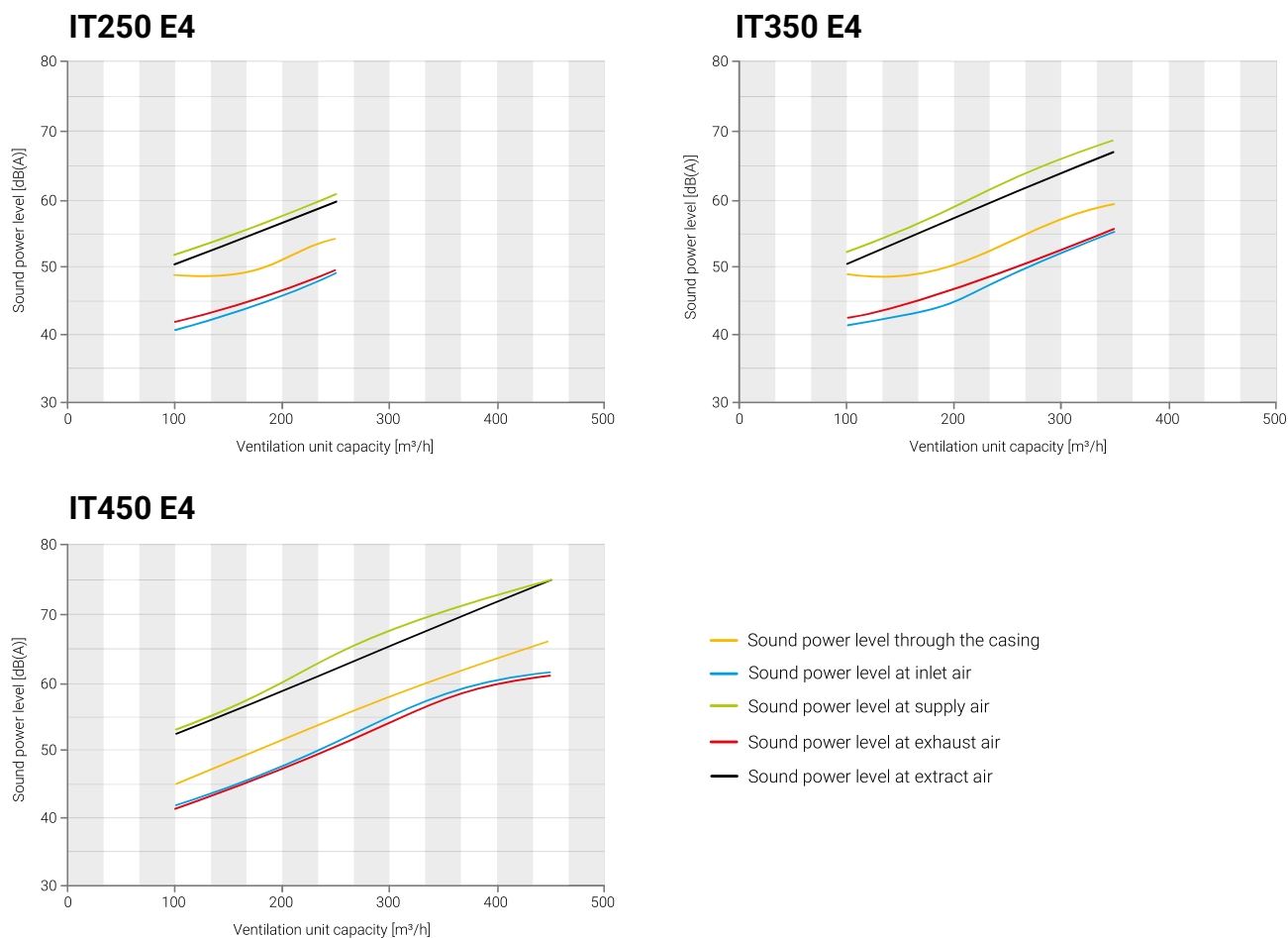


Flow characteristics



- Interaction curve for excessively dirty filters
- ... Interaction curve for dirty filters - to be replaced
- .- Interaction curve for clean filters
- Ventilation intensity - minimum
- Ventilation intensity - for 1/3 capacity range
- Ventilation intensity - for 2/3 capacity range
- Ventilation intensity - maximum
- Recommended collaboration area
- Power consumption

Acoustic characteristics



175

Accessories

	Product code	Trade name	IT250 E4	IT350 E4	IT450 E4
1.	RWA0102.00.0003.AW0	iSWITCH Ti WHITE control panel	•	•	•
2.	RWA0102.00.0003.AB0	iSWITCH Ti BLACK control panel	•	•	•
3.	RWA0102.00.0001.AW0	iSENSE 5i WHITE control panel	•	•	•
4.	RWA0102.00.0001.AB0	iSENSE 5i BLACK control panel	•	•	•
5.	RWA0501.IT.0003.A00	iPIN IT installation kit	•	•	•
6.	RWA0501.00.0001.A00	iFOOT installation kit	•	•	•
7.	RWA0103.00.0001.AS0	MULTI PROBE W2.2 wall mounted air quality sensor	• ¹	• ¹	• ¹
8.	RWA0103.IT.0001.AK0	MULTI PROBE D2.2 ITA duct mounted air quality sensor	•	•	•
9.	RWA0103.IT.0003.AK0	RHT PROBE D2.2 ITA duct mounted humidity and temperature sensor	•	•	•
10.	RWA0103.00.0003.AK0	T PROBE D2.2 duct mounted temperature sensor	•	•	•
11.	RWA0201.00.0002.A00	iHEAT Cube E 160 1.8 electric duct heater	• ^{1,2}	• ^{1,2}	
12.	RWA0201.00.0003.A00	iHEAT Cube E 200 1.8 electric duct heater			• ^{1,2}
13.	RWA0201.00.0004.A00	iHEAT Cube E 200 3.0 electric duct heater			• ^{1,2}
14.	RWA0202.00.0001.A00	iMULTI Cube F 200 III DX duct heater-cooler	• ^{1,2}	• ^{1,2}	• ^{1,2}
15.	RWA0203.00.0001.A00	iMULTI Cube W 200 III water duct heater-cooler	• ^{1,2}	• ^{1,2}	• ^{1,2}
16.	RWA0204.00.0001.A00	Control valve VXP45.10-1.6 with actuator	• ¹	• ¹	• ¹
17.	I26Xo	IMOTO I26Xo condensing unit	• ¹	• ¹	
18.	I35Xo	IMOTO I35Xo condensing unit	• ¹	• ¹	• ¹
19.	RCU-AHUBOX-1C	RCU-AHUBOX-1C communication module	•	•	•
20.	RWA0601.00.0001.A00	iSTEAM duct humidifier	•	•	•
21.	RWA0101.00.0001.A00	iEDGE E 2.2 PCB module	•	•	•
22.	RWA0301.IT.0001.A00	airENERGY IT heat exchanger	•	•	•
23.	RWA0402.IT.0001.A00	iCARE ACTIVE IT carbon filter	•	•	•
24.	RWA0711.00.0005.A00	GWC iGROUND CUBE 200 damper	• ^{1,2}	• ^{1,2}	• ^{1,2}
25.	RWA0711.00.0006.A00	GWC iGROUND CUBE 250 damper	• ^{1,2}	• ^{1,2}	• ^{1,2}

¹ - iEDGE module E 2.2 required, ² - T PROBE D2.2 duct mounted temperature sensor required, ³ - for execution side A, ⁴ - for execution side B