

# Wentilo ICON heat recovery unit IT250 E4



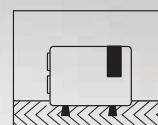
The **airCare+**  
antibacterial  
coating



Made in **Poland**



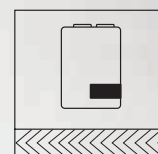
ASSEMBLY OPTION



Standing A



Standing B



Hanging

Quality certificate



## 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 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

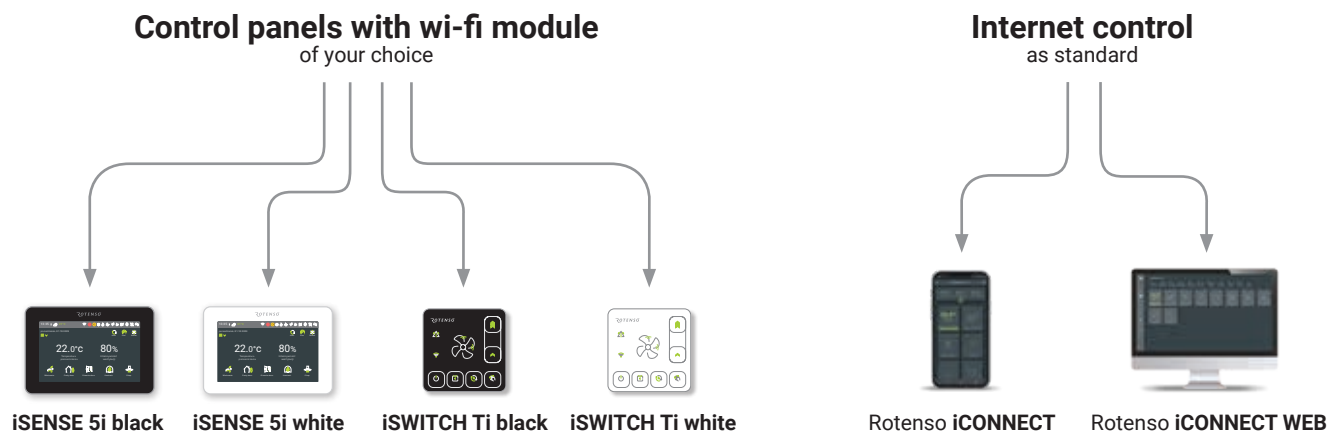


**airCO2**  
sensor



**airRH**  
humidity  
sensor

# MyRotenso control options

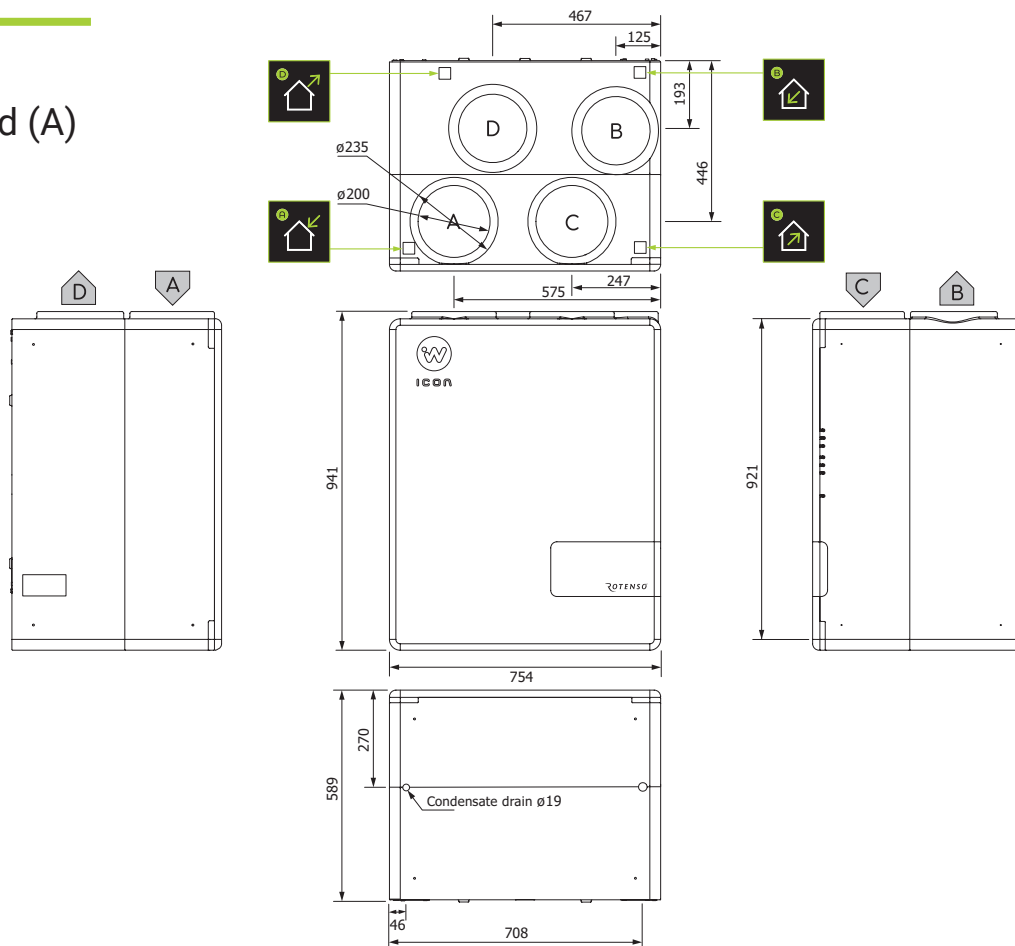


## Technical specifications

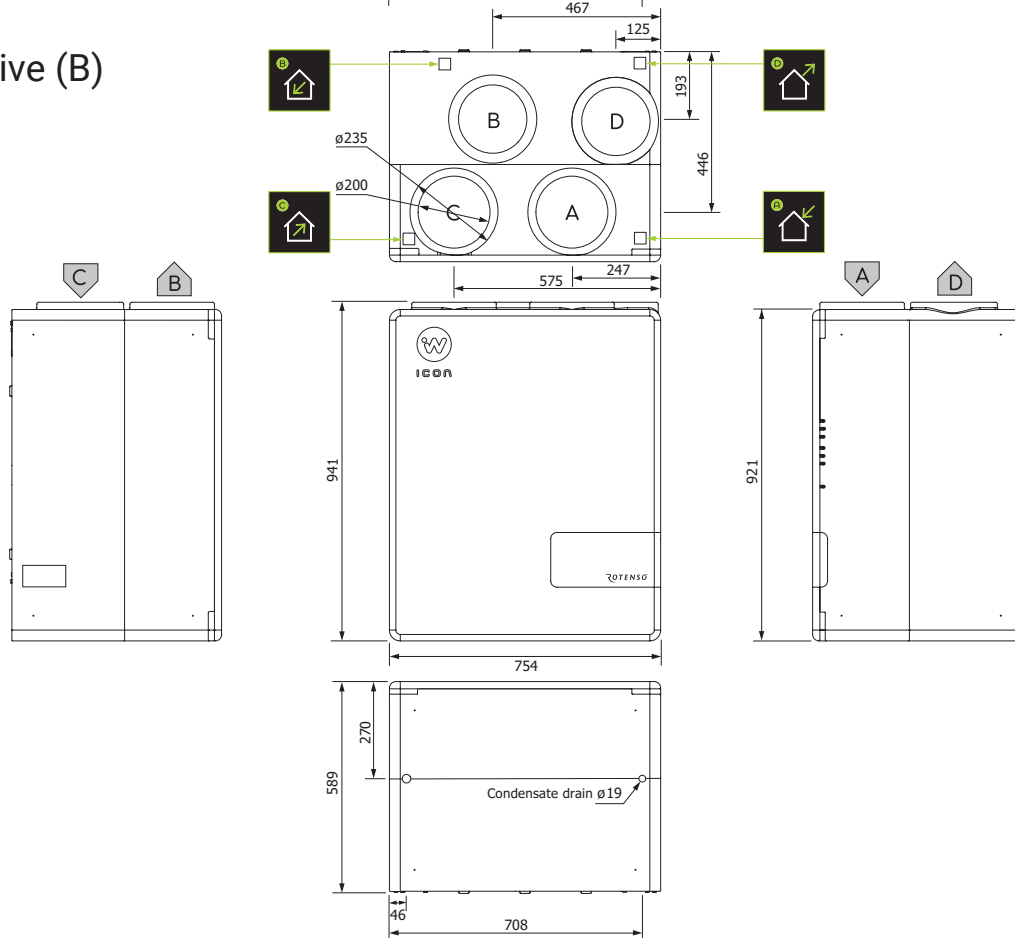
| Parameter                                                                                                    |                                      | Wentilo ICON IT250 E4                  |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|
| Maximum flow rate                                                                                            | m³/h                                 | 250                                    |
| External static pressure                                                                                     | Pa                                   | 200                                    |
| Reference flow rate                                                                                          | m³/h                                 | 175                                    |
| Minimum flow rate                                                                                            | m³/h                                 | 58                                     |
| Maximum heat recovery efficiency                                                                             | %                                    | 92                                     |
| Heat recovery efficiency at reference flow rate                                                              | %                                    | 88                                     |
| Sound power level                                                                                            | dB(A)                                | 48                                     |
| Energy efficiency class                                                                                      |                                      | A+                                     |
| Power input at reference flow rate                                                                           | W                                    | 33                                     |
| 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                      |
| Bypass                                                                                                       |                                      | 100% bypass                            |
| AEC (Annual Electricity Consumption) according to the with Commission Delegated Regulation (EU) No 1254/2014 | kWh/a                                | 145                                    |
| AHS (Annual Heating Savings) according to the with Commission Delegated Regulation (EU) No 1254/2014         | kWh/a                                | 4648                                   |
| Recommended dwelling area                                                                                    | m²                                   | 100 - 125                              |
| AEC for the recommended dwelling area                                                                        | kWh/a                                | 130 - 174                              |
| AHS for the recommended dwelling area                                                                        | kWh/a                                | 4667 - 5793                            |
| Electric power input of the fan drive at maximum flow rate                                                   | W                                    | 67                                     |
| Preheater                                                                                                    |                                      | As standard                            |
| Steady-state preheater power                                                                                 | W                                    | 1350                                   |
| Temperature change at the preheater at maximum flow rate                                                     | °C                                   | 16                                     |
| Power supply                                                                                                 | V, Hz                                | 230, 50                                |
| Rated current                                                                                                | A                                    | 7                                      |
| Net dimensions                                                                                               | mm                                   | 940 × 591 × 754                        |
| Gross dimensions                                                                                             | mm                                   | 995 × 635 × 850                        |
| Net weight                                                                                                   | kg                                   | 30                                     |
| Gross weight                                                                                                 | kg                                   | 34                                     |
| Spigot diameter                                                                                              | mm                                   | 200                                    |
| Condensate drain diameter                                                                                    | mm                                   | 20                                     |
| Operating temperature range in the room                                                                      | °C                                   | 5 - 45                                 |

# IT execution sides

## Standard (A)

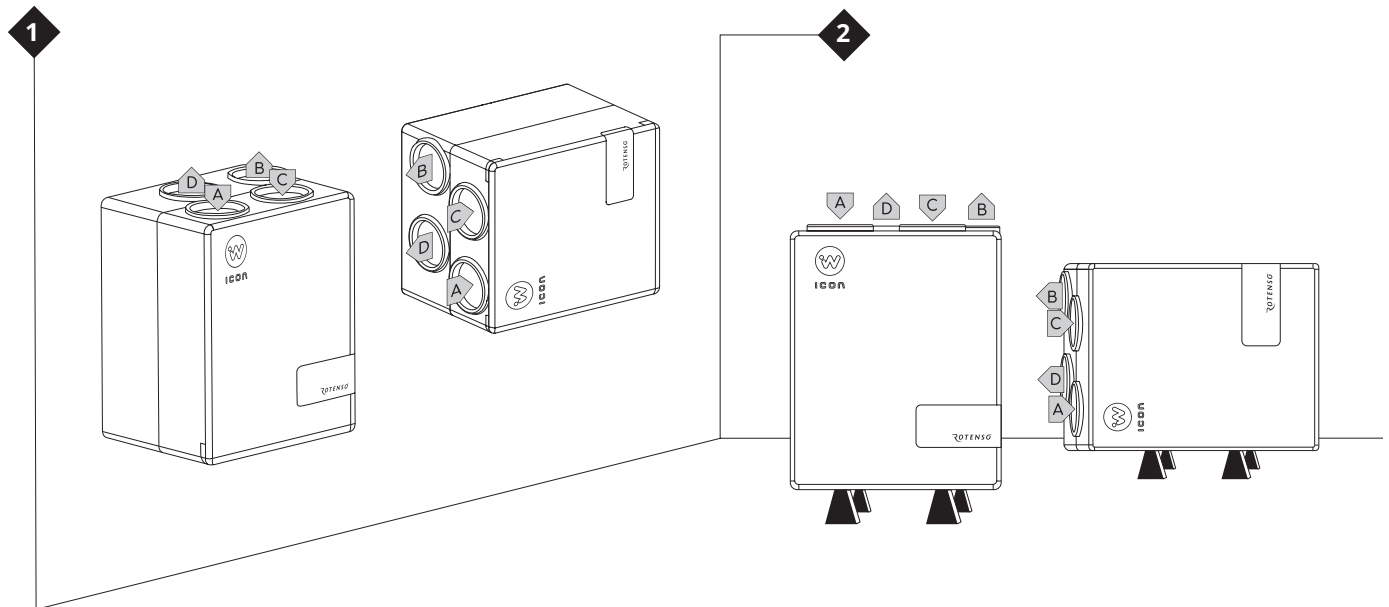


## Alternative (B)

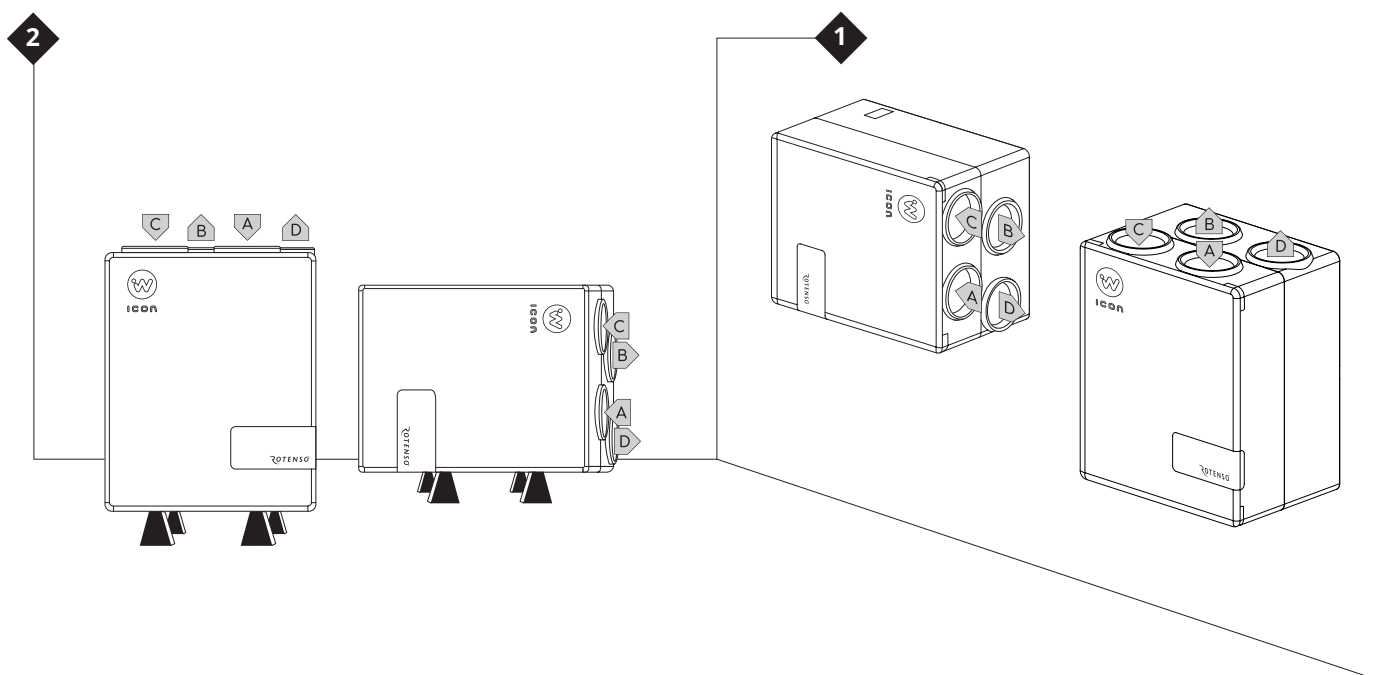


# IT mounting options

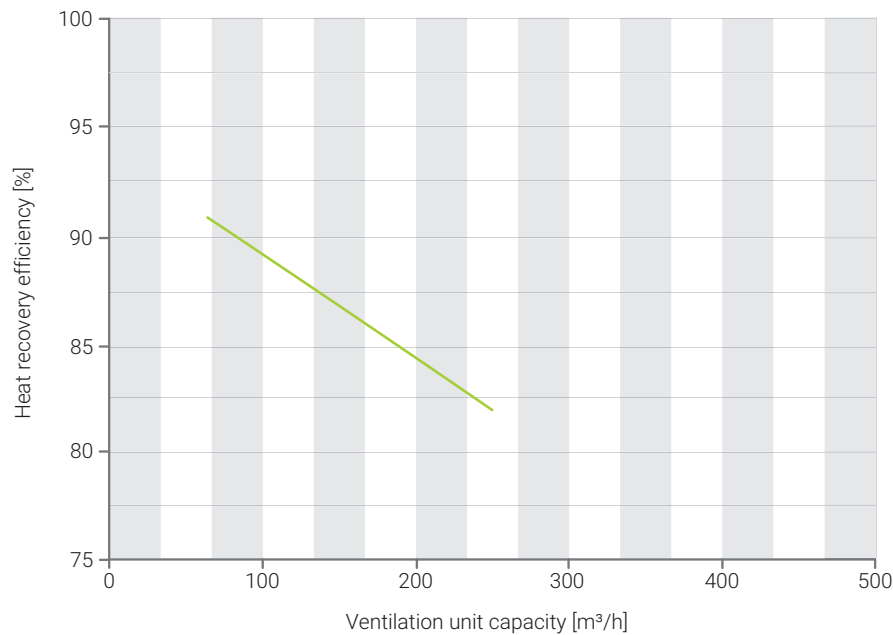
For the standard execution side (A)



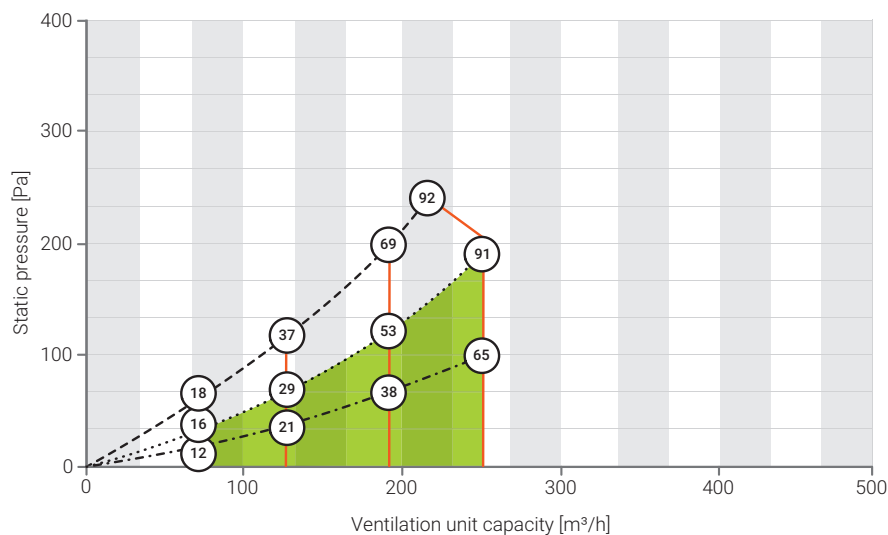
For alternative execution side (B)



# Heat recovery efficiency

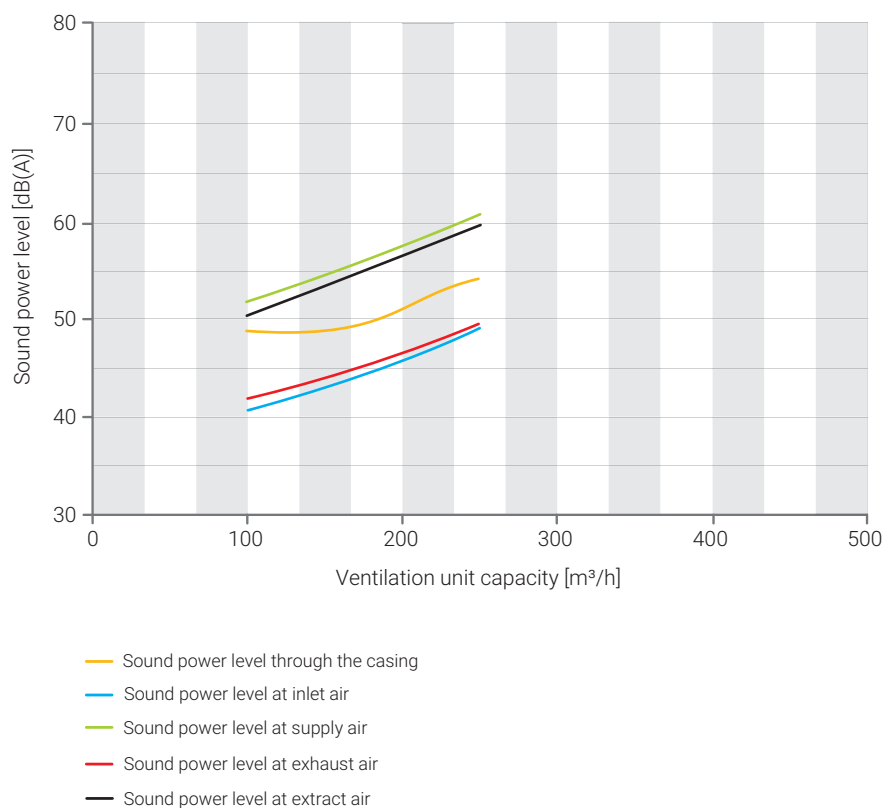


# Flow characteristics



- 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
- ⑱ Power consumption [W]

# Acoustic characteristics



# Accessories

|     | Product code        | Trade name                                                        | IT250 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                  | • <sup>1</sup>   |
| 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 A 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                         | • <sup>1,2</sup> |
| 12. | RWA0201.00.0003.A00 | iHEAT Cube E 200 1.8 electric duct heater                         |                  |
| 13. | RWA0201.00.0004.A00 | iHEAT Cube E 200 3.0 electric duct heater                         |                  |
| 14. | RWA0202.00.0001.A00 | iMULTI Cube F 200 III DX duct heater-cooler                       | • <sup>1,2</sup> |
| 15. | RWA0203.00.0001.A00 | iMULTI Cube W 200 III water duct heater-cooler                    | • <sup>1,2</sup> |
| 16. | RWA0204.00.0001.A00 | Control valve VXP45.10-1.6 with actuator                          | • <sup>1</sup>   |
| 17. | I26Xo               | IMOTO I26Xo condensing unit                                       | • <sup>1</sup>   |
| 18. | I35Xo               | IMOTO I35Xo condensing unit                                       | • <sup>1</sup>   |
| 19. | I50Xo               | IMOTO I50Xo condensing unit                                       |                  |
| 20. | RCU-AHUBOX-1C       | RCU-AHUBOX-1C communication module                                | •                |
| 21. | RWA0601.00.0001.A00 | iSTEAM duct humidifier                                            | •                |
| 22. | RWA0101.00.0001.A00 | iEDGE E 2.2 PCB module                                            | •                |
| 23. | RWA0301.IT.0001.A00 | airENERGY IT heat exchanger                                       | •                |
| 24. | RWA0402.IT.0001.A00 | iCARE ACTIVE IT carbon filter                                     | •                |
| 25. | RWA0711.00.0005.A00 | GWC iGROUND CUBE 200 damper                                       | • <sup>1,2</sup> |
| 26. | RWA0711.00.0006.A00 | GWC iGROUND CUBE 250 damper                                       | • <sup>1,2</sup> |

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