



*Air for life*

## Technical Data Sheet

Flair 225  
English



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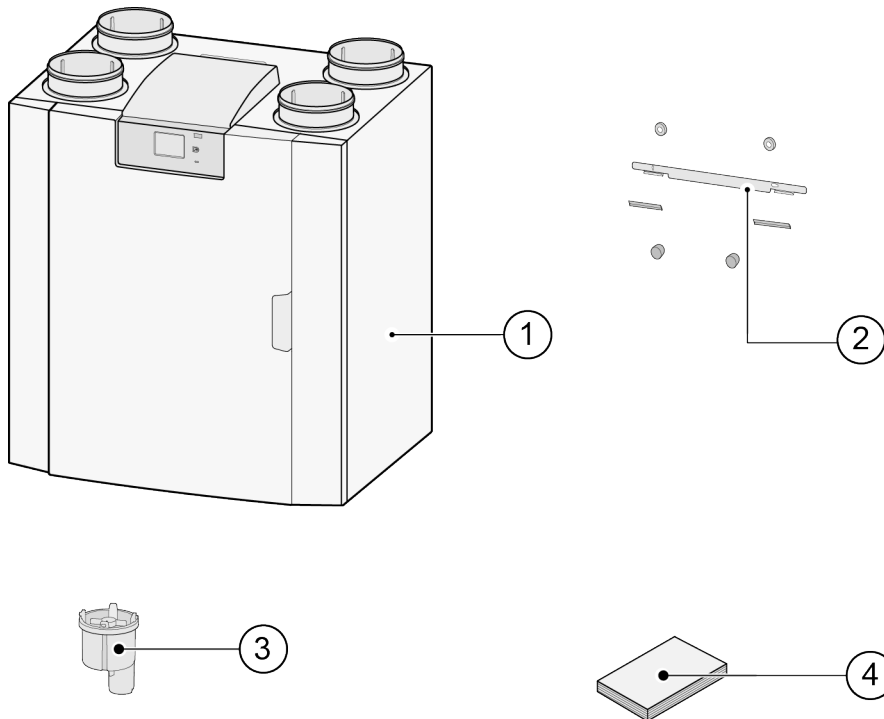
# 1 Delivery

## 1.1 Delivery size

Before installation of the heat recovery appliance is started, check that it has been supplied in complete and undamaged condition.

*The delivery size of the heat recovery appliance type Flair 225 consists of the following components:*

1. Heat recovery appliance
2. Wall mounting bracket consisting of:
  - 1x mounting bracket
  - 2x protective caps
  - 2x rubber strip
  - 2x rubber rings
3. Siphon
4. Documentation set consisting of:
  - 1x installation instructions
  - 1x occupant's instructions



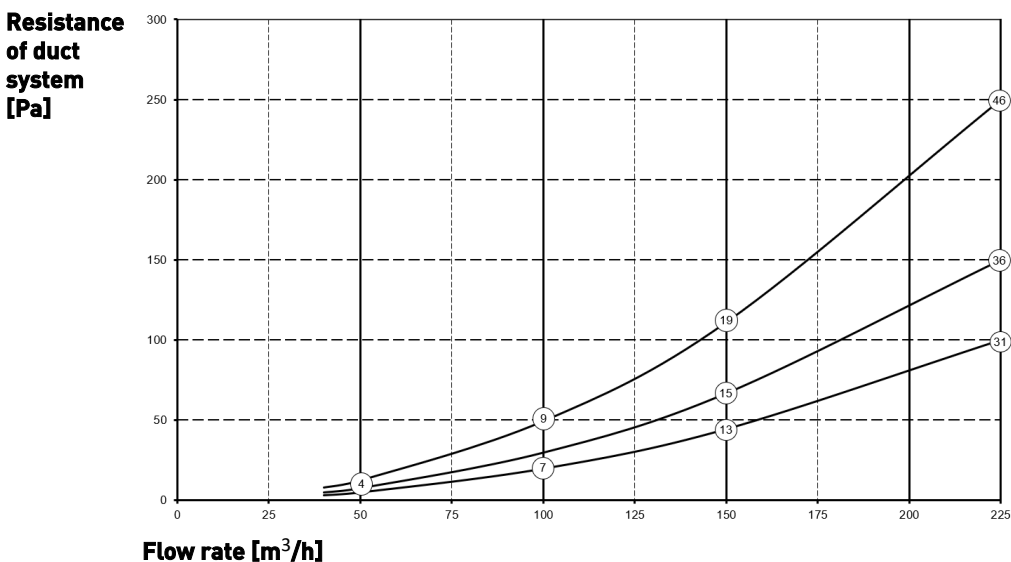
# 2 Version

## 2.1 Technical information

| Flair 225                                   |   |      |       |       |       |       |       |       |       |       |
|---|---|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Supply voltage [V/Hz]                       | 230V/50Hz   |      |       |       |       |       |       |       |       |       |
| Dimensions (w x h x d) [mm]                 | 600 x 650 x 455   |      |       |       |       |       |       |       |       |       |
| Duct diameter [mm]                          | ø125  |      |       |       |       |       |       |       |       |       |
| Ext. diameter condensate discharge [mm]     | ø32   |      |       |       |       |       |       |       |       |       |
| Weight [kg]                                 | 29  |      |       |       |       |       |       |       |       |       |
| Filter class                                | ISO Coarse 60% (ISO ePM1.0 50% for the air supply optional) |      |       |       |       |       |       |       |       |       |
| Fan setting (factory setting)               | 0   | 1    |       | 2     |       | 3     |       | max   |       |       |
| Factory setting [m³/h]                      | 40  | 50   |       | 100   |       | 150   |       | 225   |       |       |
| Permissible resistance of duct system [Pa]  | 3   | 8    | 5     | 12    | 20    | 49    | 44    | 111   | 100   | 250   |
| Rated power (excl. preheater) [W]           | 7.9   | 8.3  | 8     | 8.7   | 13.2  | 17.3  | 26.2  | 37.9  | 61.5  | 92.2  |
| Rated current (excl. preheater) [A]         | 0.10  | 0.11 | 0.10  | 0.10  | 0.13  | 0.16  | 0.22  | 0.32  | 0.48  | 0.70  |
| Max. rated current (incl. preheater on) [A] | 3.8   |      |       |       |       |       |       |       |       |       |
| Rated power preheater [W]                   | 1000  |      |       |       |       |       |       |       |       |       |
| Cos φ                                       | 0.336   | 0.34 | 0.357 | 0.363 | 0.447 | 0.460 | 0.507 | 0.521 | 0.522 | 0.572 |
| Sound power                                 |   |      |       |       |       |       |       |       |       |       |
| Ventilation capacity [m³/h]                 |   |      |       | 50    | 100   | 100   | 150   | 150   | 225   | 225   |
| Sound power level Lw(A)                     | Static pressure [Pa]  |      |       | 25    | 25    | 50    | 50    | 100   | 100   | 150   |
|   | Casing radiation [dB(A)]                                    |      |       | 28    | 31    | 33.5  | 38.5  | 40.5  | 45.5  | 47    |
|   | Duct 'From dwelling' [dB(A)]                                |      |       | <30   | <34.5 | <36.5 | 44    | 43    | 47.5  | 48.5  |
|   | Duct 'To dwelling' [dB(A)]                                  |      |       | 43.5  | 48.5  | 50.5  | 55    | 57.5  | 62.5  | 64.5  |

\*) Duct noise including end correction

In practice the value may differ by 1dB(A) through measurement tolerances.



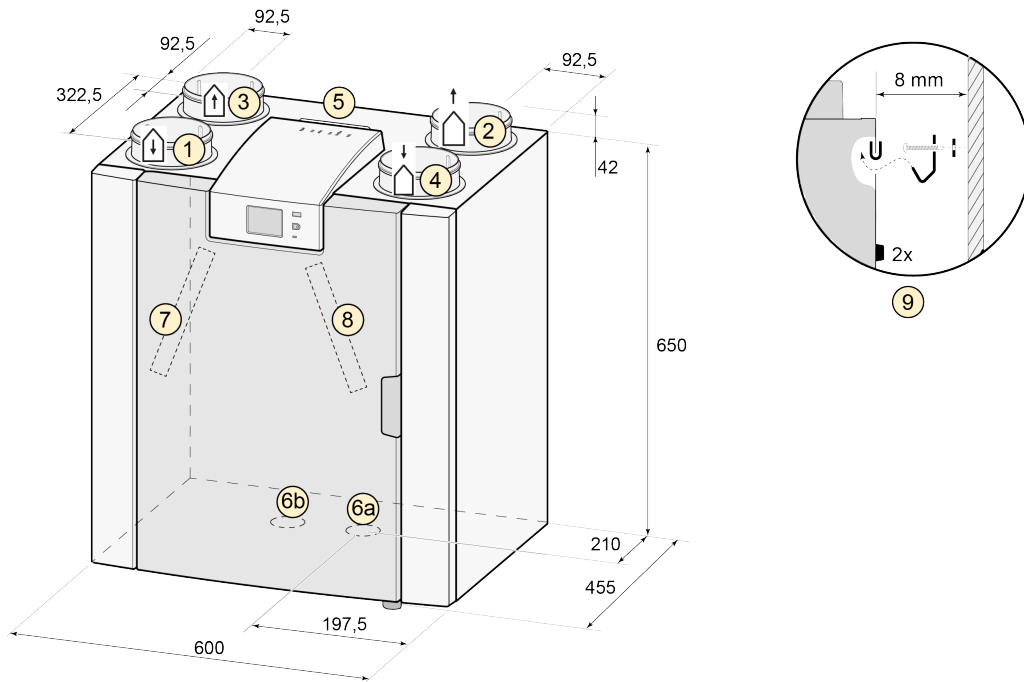
### Note:

The stated value in the circle is the capacity (in Watt) per fan.

## 2.2 Connections and dimensions

The Flair appliance is available in a left-hand and right-hand version. With a left-hand version the “warm” connections (from dwelling 3 and to dwelling 1) are on the left-hand side of the appliance; the condensate discharge is then mounted at the right-hand opening below the appliance. With a right-hand version the “warm” connections (1 & 3) are on the right-hand side of the appliance.

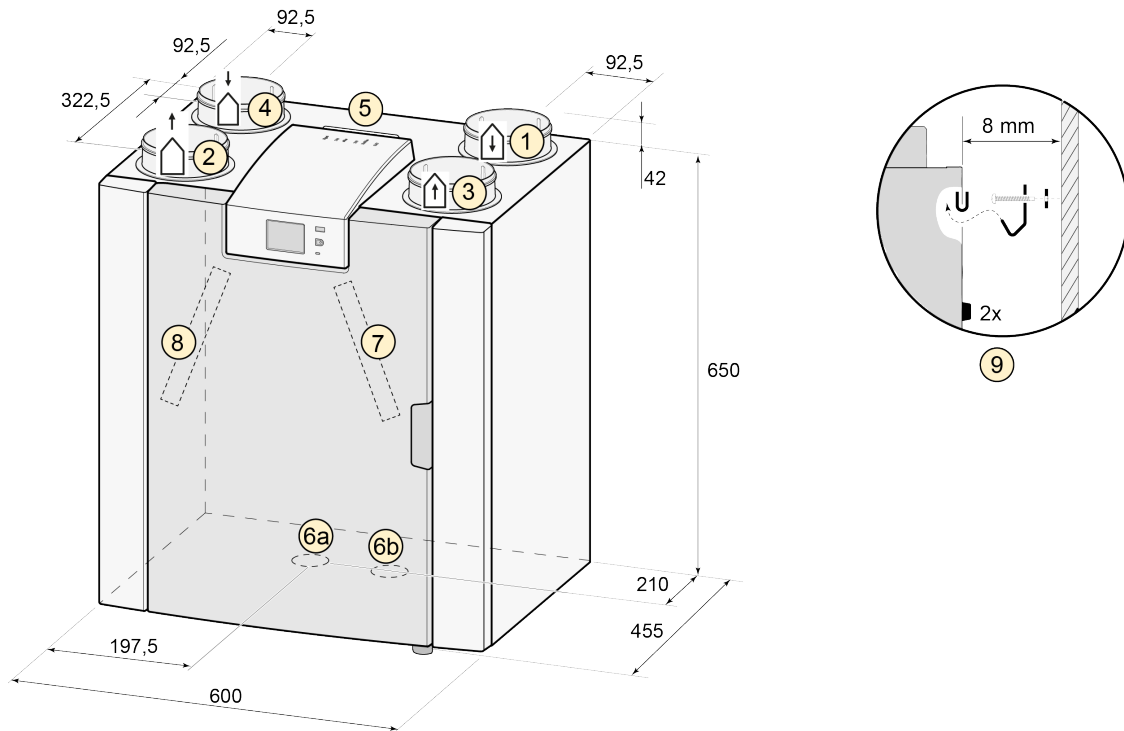
### Left-hand version



All dimensions in millimeters. Diameter of all collars is 125 mm

|           |  |  |
|-----------|--|--|
| <b>1</b>  | Supply air   |  |
| <b>2</b>  | Exhaust air  |  |
| <b>3</b>  | Extract  |  |
| <b>4</b>  | Outdoor air  |  |
| <b>5</b>  | Electrical connections   |  |
| <b>6a</b> | Siphon connection  |  |
| <b>6b</b> | Sealing cap unused condensate discharge connection; do not remove! |  |
| <b>7</b>  | Extract air filter   |  |
| <b>8</b>  | Supply air filter  |  |

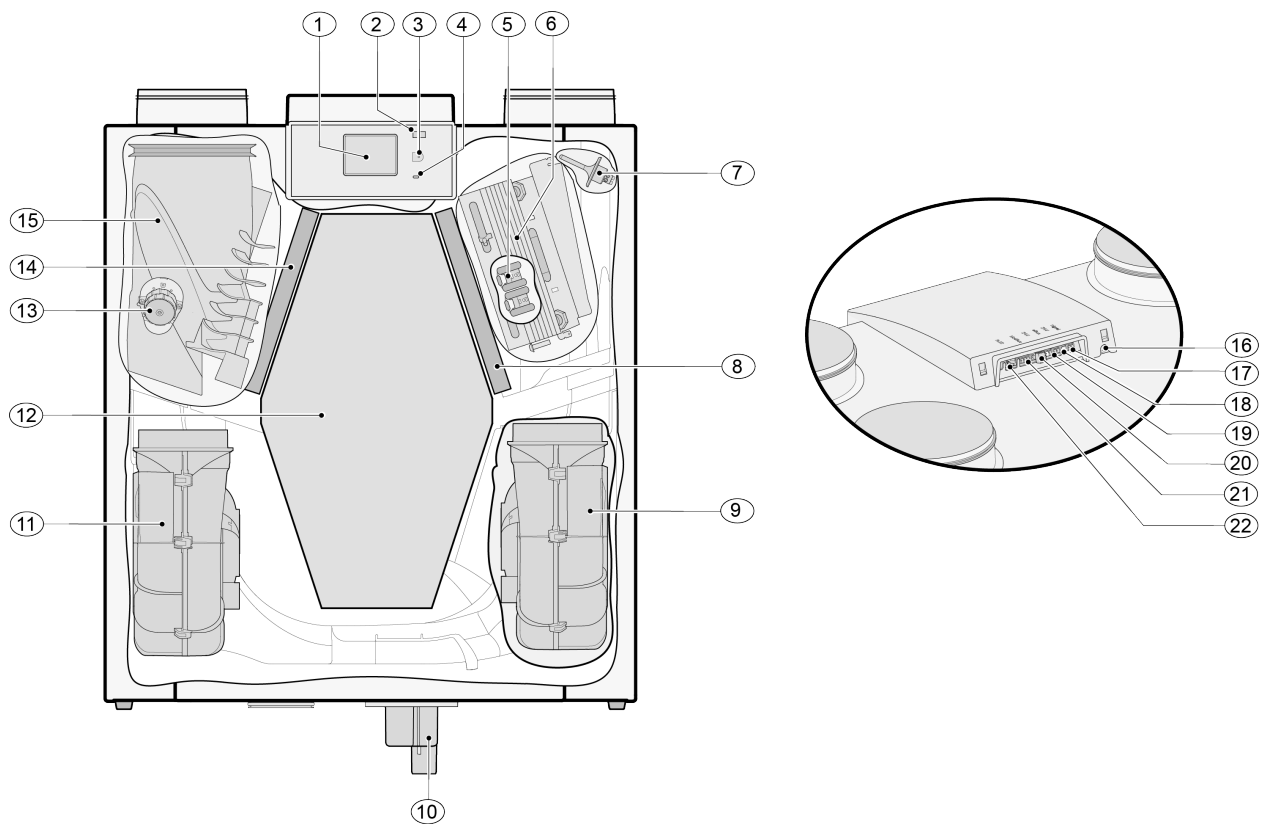
Right-hand version



All dimensions in millimeters. Diameter of all collars is 125 mm

|           |  |  |
|-----------|--|--|
| <b>1</b>  | Supply air   |  |
| <b>2</b>  | Exhaust air  |  |
| <b>3</b>  | Extract  |  |
| <b>4</b>  | Outdoor air  |  |
| <b>5</b>  | Electrical connections   |  |
| <b>6a</b> | Siphon connection  |  |
| <b>6b</b> | Sealing cap unused condensate discharge connection; do not remove! |  |
| <b>7</b>  | Extract air filter   |  |
| <b>8</b>  | Supply air filter  |  |

## 2.3 Exploded view of appliance



The appliance shown above is a left-hand version: in the case of a right-hand version, the connector of the preheater, bypass valve and the siphon connector are installed in mirror image!

|    |                              |    |                                     |
|----|------------------------------|----|-------------------------------------|
| 1  | Touchscreen                  | 12 | Heat exchanger                      |
| 2  | USB connector (X13)          | 13 | Motor bypass valve                  |
| 3  | Service connector            | 14 | Exhaust air filter                  |
| 4  | LED indicator                | 15 | Bypass valve                        |
| 5  | Maximum protection preheater | 16 | Power cable 230 volt                |
| 6  | Preheater                    | 17 | Relay output (X19 )                 |
| 7  | Temperature sensor           | 18 | 24 volt connector (X18)             |
| 8  | Supply filter                | 19 | eBus connector (X17)                |
| 9  | Exhaust fan                  | 20 | 24 volt connector (X16)             |
| 10 | Siphon                       | 21 | Modbus/ Internalbus connector (X15) |
| 11 | Supply ventilator            | 22 | Multiple switch connector (X14)     |

# 3 Service

## 3.1 Exploded view

When ordering parts, in addition to the article code number (see exploded view), please state the heat recovery appliance type, the serial number, the year of production and the name of the part:

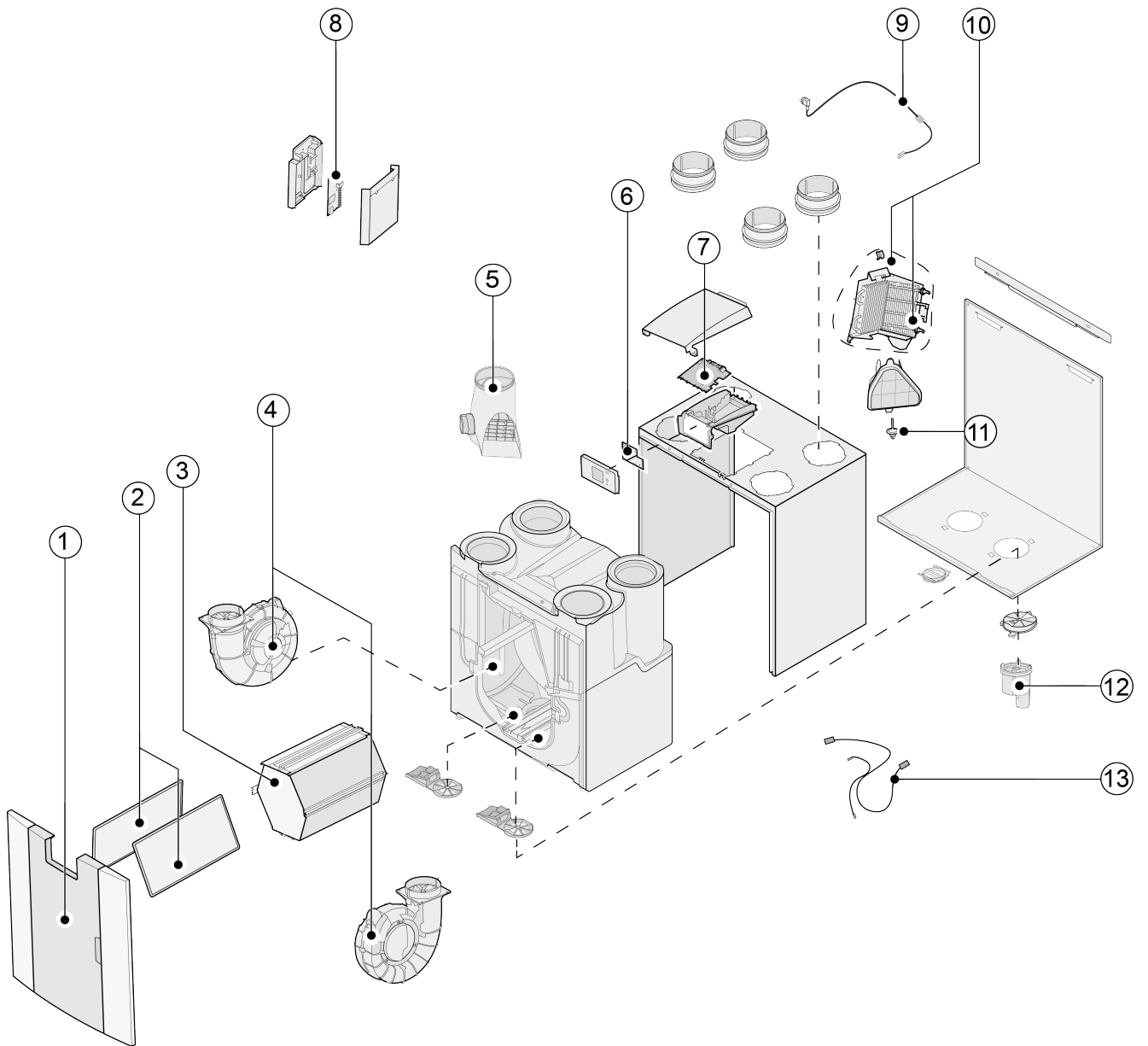
**N.B.:** Appliance type, serial number and year of production are stated on the identification plate behind the plastic front panel on the appliance.

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| Example            |              |
|--------------------|--------------|
| Appliance type     | Flair 225    |
| Serial number      | 428000220201 |
| Year of production | 2023         |
| Part               | Fan          |
| Article code       | 532803       |
| Quantity           | 1            |



## 3.2 Service articles



| No. | Article description   | Article code |
|-----|---|--------------|
| 1   | Front panel complete  | 532799       |
| 2   | Filters (2 items) ISO Coarse 60%  | 532811       |
| 3   | Heat exchanger  | 532795       |
| 4   | Fan (1 item)  | 532803       |
| 5   | Bypass valve with motor complete  | 532797       |
| 6   | Display pcb UBP-2   | 532752       |
| 7   | Appliances manufactured <b>before 01-01-2023</b> : Basic pcb UWA2-B + display | 532750       |
|     | Appliances manufactured <b>after 01-01-2023</b> : Basic pcb UWA2-B            | 532966       |
| 8   | Plus pcb UWA2-E (only applicable with Plus version)                           | 532751       |
| 9   | Mains plug and cable 230 V *  | 532756       |
| 10  | Internal preheater incl. maximum security                                     | 532798       |
| 11  | Temperature sensor NTC 10K  | 531775       |
| 12  | Condensation discharge  | 532762       |
| 13  | Cable set   | 532767       |

\* The power cable is fitted with a circuit board connector. When replacing it, always order a replacement mains cable from Brink.  
**To prevent dangerous situations, a damaged mains connection can only be replaced by a qualified expert.**



# 5 ERP values

| Technical information sheet Flair 225 in accordance with Ecodesign (ErP), no. 1254/2014 (Annex IV) |   |   |           |   |                                   |
|--|---|---|-----------|---|-----------------------------------|
| Manufacturer:  |   | Brink Climate Systems B.V.  |           |   |                                   |
| Model:   |   | Flair 225   |           |   |                                   |
| Climate zone   | Type of control                             | SEC Value in kWh/m <sup>2</sup> /a  | SEC Class | Annual electricity consumption (AEC) in kWh | Annual heating saved (AHS) in kWh |
| Average  | manual                                      | -40,78  | A         | 258   | 4655                              |
|  | clock control                               | -41,42  | A         | 237   | 4667                              |
|  | 1x sensor (RV/CO <sub>2</sub> /VOC)         | -42,62  | A+        | 199   | 4692                              |
|  | 2 or more sensors (RV/CO <sub>2</sub> /VOC) | -44,71  | A+        | 135   | 4741                              |
| Cold   | manual                                      | -79,92  | A+        | 795   | 9107                              |
|  | clock control                               | -80,68  | A+        | 774   | 9131                              |
|  | 1x sensor (RV/CO <sub>2</sub> /VOC)         | -82,12  | A+        | 736   | 9179                              |
|  | 2 or more sensors (RV/CO <sub>2</sub> /VOC) | -84,68  | A+        | 672   | 9275                              |
| Hot  | manual                                      | -15,73  | E         | 213   | 2105                              |
|  | clock control                               | -16,30  | E         | 192   | 2111                              |
|  | 1x sensor (RV/CO <sub>2</sub> /VOC)         | -17,37  | E         | 154   | 2122                              |
|  | 2 or more sensors (RV/CO <sub>2</sub> /VOC) | -19,19  | E         | 90  | 2144                              |
| Type of ventilation unit:  |   | Balanced residential ventilation appliance with heat recovery   |           |   |                                   |
| Fan:   |   | EC - fan with infinitely variable control   |           |   |                                   |
| Type of heat exchanger:  |   | Recuperative plastic cross-counterflow heat exchanger   |           |   |                                   |
| Thermal efficiency   |   | 92 %  |           |   |                                   |
| Maximum flow rate:   |   | 225 m <sup>3</sup> /h   |           |   |                                   |
| Maximum rated power:   |   | 118 W   |           |   |                                   |
| Sound power level L <sub>wa</sub> :  |   | 39 dB(A)  |           |   |                                   |
| Reference flow rate:   |   | 158 m <sup>3</sup> /h   |           |   |                                   |
| Reference pressure:  |   | 50 Pa   |           |   |                                   |
| Specific Power Input (SEL):  |   | 0,17 Wh/m <sup>3</sup>  |           |   |                                   |
| Control factor:  |   | 1.0 in combination with multiple position switch  |           |   |                                   |
|  |   | 0.95 in combination with clock control  |           |   |                                   |
|  |   | 0.85 in combination with 1 sensor   |           |   |                                   |
|  |   | 0.65 in combination with 2 or more sensors  |           |   |                                   |
| Leakage*   | Internal                                    | 0.70 %  |           |   |                                   |
|  | External                                    | 1.80 %  |           |   |                                   |
| Position dirty filter indication:  |   | On the display of the appliance / on the multiple position switch (LED) / on the Brink Air Control.<br><b>Attention!</b> For optimal energy efficiency and a proper operation, a regular filter inspection, cleaning or replacement is necessary. |           |   |                                   |
| Internet address for Assembly instructions:  |   | <a href="https://www.brinkclimatesystems.nl/support/downloads">https://www.brinkclimatesystems.nl/support/downloads</a>   |           |   |                                   |
| Bypass:  |   | Yes, 100% Bypass  |           |   |                                   |

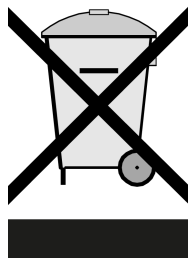
\* Measurements executed by TZWL according to the EN 13141-7 standard

| <b>Classification from 1 January 2016</b> |                              |
|---|------------------------------|
| SEC class ("Average climate zone" )       | SEC in kWh/m <sup>2</sup> /a |
| A+ (Most efficient)                       | SEC < -42                    |
| A   | -42 ≤ SEC < -34              |
| B   | -34 ≤ SEC < -26              |
| C   | -26 ≤ SEC < -23              |
| D   | -23 ≤ SEC < -20              |
| G (Least efficient)                       | -20 ≤ SEC < -10              |

# 6 Recycling

## **Recycling**

Sustainable materials are used in the manufacture of this appliance. The packaging should be disposed of in a responsible manner and in accordance with governmental regulations.







**Brink Climate Systems B.V.**

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