



Air for life

Technical Sheet

Flair 325

Heat recovery appliance



General information

The Flair 325 and the Flair 325 Plus is a ventilation unit for the balanced ventilation of dwellings with heat recovery.

Features:

- Maximum capacity 325 m³/h
- High return plastic heat exchanger
- Filters ISO Coarse 60%
- Modular electric preheater
- Automatic bypass valve
- Touchscreen
- Adjustable air quantity
- Filter indication on the appliance and the possibility of a filter indication on the multiple switch
- An intelligent frost protection including modular preheater
- Low sound level
- Constant flow control

The Flair 325 is available in two types:

- **the "Flair 325"**
- **The "Flair 325 Plus"**

The Flair 325 Plus has, compared with standard Flair 325, an extra pcb giving this more functions/ connection possibilities (→).

These installation instructions describe both the standard Flair 325 and the Flair 325 Plus.

The Flair 325 and the Flair 325 Plus are available in **Left-hand** and **Right-hand** versions; it is not possible to convert the left and right-hand models into one another.

For the correct connection ducts and dimensions (→).

It is possible, however, to later equip the appliance with a Plus pcb.

The appliance comes ready to plug in with a 230 V mains plug.

Technical info

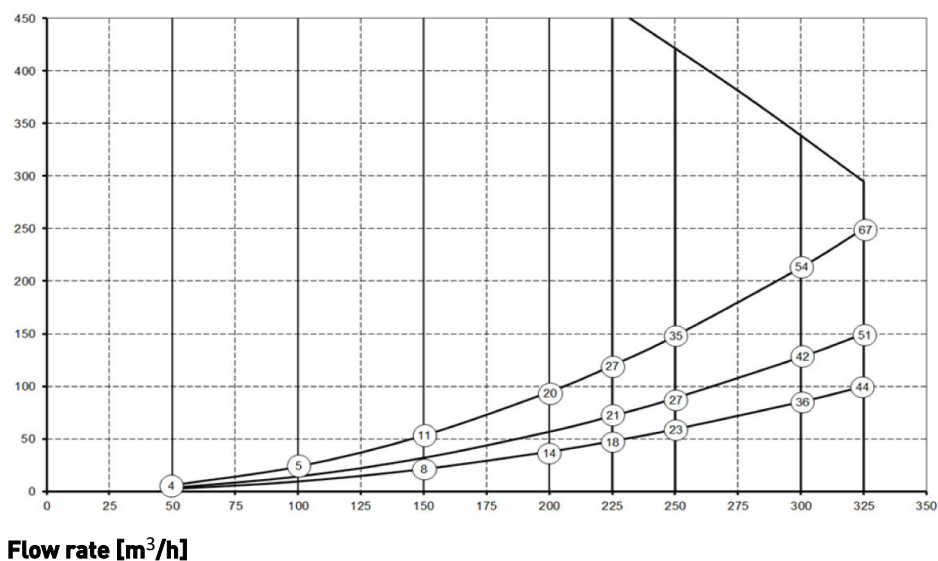
Technical information

Flair 325 (Plus)											
Supply voltage [V/Hz]	230V/50Hz										
Dimensions (w x h x d) [mm]	4-0 Version						2-2 Version				
	750 x 650 x 560						750 x710 x 560				
Duct diameter [mm]	ø160										
Ext. diameter condensate discharge [mm]	ø32										
Weight [kg]	37										
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]	50		100		150		250		325		
Permissible resistance of duct system [Pa]	2	6	9	24	21	53	59	148	100	250	
Rated power (excl. preheater) [W]	6.1	6.6	7.9	10.3	15.1	21.0	46.6	69.1	87.5	133.4	
Rated current (excl. preheater) [A]	0.08	0.08	0.09	0.11	0.15	0.21	0.41	0.59	0.73	1.07	
Max. rated current (incl. preheater switched on) [A]	6										
Cos φ	0.341	0.343	0.389	0.394	0.430	0.439	0.492	0.507	0.521	0.542	
Sound power											
Ventilation capacity [m³/h]				100	150	150	200	200	250	325	
Sound power level Lw(A)	Static pressure [Pa]			25	25	50	50	100	150	150	
	Casing radiation [dB(A)]			27	34	35	40	41	46	51	
	Duct “From dwelling” [db(A)]			32	40	38	46	44	49	55	
	Duct ‘To dwelling’ [db(A)]			44	49	51	55	57	62	69	

*) Duct noise including end correction

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

Resistance of duct system [Pa]



Note:

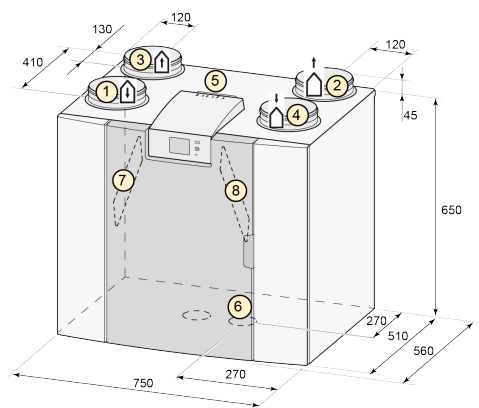
The stated value in the circle is the capacity (in Watt) per fan.

Connections and dimensions

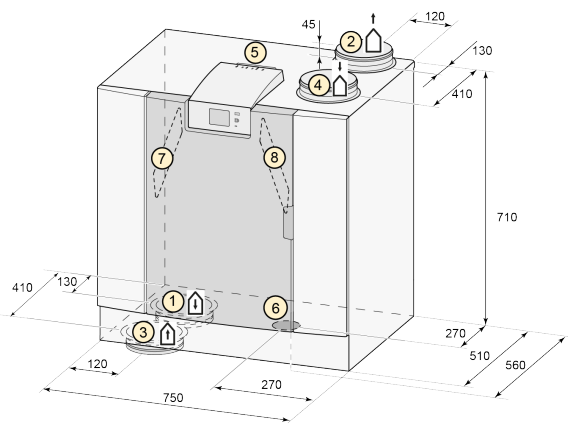
The Flair appliance is available in a left-hand and right-hand version. With a left-hand version the “warm” connections (from dwelling 3 and to dwelling 1) are on the left-hand side of the appliance; the condensate discharge is then mounted at the right-hand opening below the appliance. With a right-hand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

Left-hand version

4-0 connections

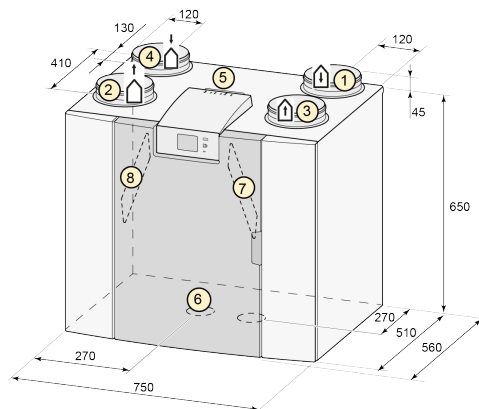


2-2 connections

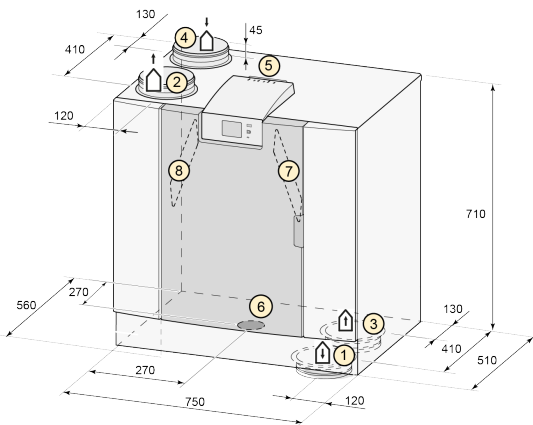


Right-hand version





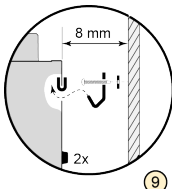
4-0 connections



2-2 connections



All dimensions in millimeters. Diameter of all collars is 160 mm

1	To dwelling		2	To outside		3	From dwelling		4	From outside	
5	Electrical connections										
6	Siphon connection										
7	Exhaust air filter										
8	Supply air filter										
9	Mounting										

Service parts

4-0 Version		2-2 Version
No.	Article description	Article code
1	Front panel complete	532763
2	Filters (2 items) ISO Coarse 60%	532716
3	Heat exchanger	532754
4	Fan (1 item)	532759
5	Bypass valve with motor complete (4-0 version)	532760
	Bypass motor complete (2-2 version)	531778
6	Display pcb UBP-2	532752
7	Basic pcb UWA2-B	532750
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	532761
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.

Certificates

EN 13141-7:2010 Certificate

KF.82.01.257.AD.01
18.05.18



Declaration of conformity regarding the determination of energetic efficiency according to EN 13141-7:2010

On behalf of Brink Climate Systems B.V. the determination of energetic efficiency was conducted by Europäisches Testzentrum für Wohnungslüftungsgeräte (TZWL) e. V. in Dortmund, Germany.

Tests were carried out according to:

- EN 13141-7:2010; Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings

Technical data of the tested unit:

Manufacturer:	Brink Climate Systems B.V.
Type:	Flair 325 4/0 L EU
Serial Number:	430000180301
Year of construction:	2018
Power supply:	230 V ~ 50 Hz
CE-Label:	Yes
Maximum volume flow:	325 m³/h

Results, energetic efficiency 7°C:

Air flow [m³/h]	Temperature ratio, supply air $\eta_{t,su}$ [%]	Total electric power consumption P_E [W]	Specific electric power consumption [W/m³/h]
51	98,4	11,7	0,23
224	90,8	34,7	0,15
325	90,5	79,2	0,24

Results, energetic efficiency 2°C:

Air flow [m³/h]	Temperature ratio, supply air $\eta_{t,su}$ [%]	Total electric power consumption P_E [W]	Specific electric power consumption [W/m³/h]
50	97,7	11,5	0,23
225	94,0	37,0	0,16
327	93,2	86,8	0,27

Results of performance tests of aerodynamic characteristics, of heat recovery characteristics and of the effective power consumption are taken from tests with number M.82.01.257.AD.

CERTIFICATE
 Certified Passive House Component
 Component-ID 1288vs03 valid until 31st December 2019

Passive House Institute
 Dr. Wolfgang Feist
 64283 Darmstadt
 Germany



Airflow range	69–251 m ³ /h
Heat recovery rate	$\eta_{\text{HR}} = 91\%$
Specific electric power	$P_{\text{el,spec}} = 0.21 \text{ Wh/m}^3$

cool, temperate climate



CERTIFIED COMPONENT
Passive House Institute

Internal leakage	External leakage
2.49%	0.88%

3/4

2/4

2/4 Brink Flair 325

www.passivehouse.com

- ✓ In order to protect a downstream hydraulic heater coil, both fans are switched off in case the supply air temperature drops down to 5 °C.

4/4

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1 Conformity declaration

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Manufacturer: **Brink Climate Systems B.V.**

Address: **Postbus 11**
 NL-7950 AA, Staphorst, The Netherlands

Product: **Flair 325**
 Flair 325 Plus

The product described above complies with the following directives:

- | | |
|-------------------|-----------------------------|
| ◆ 2014/35/EU | (OJEU L 96/357; 29-03-2014) |
| ◆ 2014/30/EU | (OJEU L 96/79; 29-03-2014) |
| ◆ 2009/125/EU | (OJEU L 285/10; 31-10-2009) |
| ◆ 2017/1369/EU | (OJEU L 198/1; 28-07-2017) |
| ◆ RoHS 2011/65/EU | (OJEU L 174/88; 01-07-2011) |

The product described above has been tested according to the following standards:

- | | |
|---------------------|--|
| ◆ EN 55014-1: | 2017 + A11: 2020 |
| ◆ EN 55014-2: | 2021 |
| ◆ EN IEC 61000-3-2: | 2019 + A1:2021 |
| ◆ EN 61000-3-3: | 2013 + A1:2019 |
| ◆ EC 61000-3-3: | 2013/AMD2:2021 |
| ◆ EN 60335-1: | 2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 +
A2:2019 + A14:2019 |
| ◆ EN 60335-2-40: | 2003 + A11 + A12 + A1 + C + A13 + AC:2013 |
| ◆ EN 62233: | 2008 + AC:2008 |

Staphorst, 15-10-2021



A. Hans
Technical Director

2 ERP values

Technical information sheet Flair 325 (Plus) in accordance with Ecodesign (ErP), no. 1254/2014 (Annex IV)					
Manufacturer:		Brink Climate Systems B.V.			
Model:		Flair 325 Plus			
Climate zone	Type of control	SEC Value in kWh/m ² /a	SEC Class	Annual electricity consumption (AEC) in kWh	Annual heating saved (AHS) in kWh
Average	manual	-40.99	A	233	4614
	clock control	-41.59	A	215	4628
	1x sensor (RV/CO ₂ /VOC)	-42.72	A+	181	4657
	2 or more sensors (RV/CO ₂ /VOC)	-44.71	A+	124	4714
Cold	manual	-79.74	A+	770	9026
	clock control	-80.48	A+	752	9054
	1x sensor (RV/CO ₂ /VOC)	-81.88	A+	718	9110
	2 or more sensors (RV/CO ₂ /VOC)	-84.42	A+	661	9222
Hot	manual	-16.17	E	188	2086
	clock control	-16.69	E	170	2093
	1x sensor (RV/CO ₂ /VOC)	-17.66	E	136	2106
	2 or more sensors (RV/CO ₂ /VOC)	-19.33	E	79	2132
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		91%			
Maximum flow rate:		325m ³ /h			
Maximum rated power:		145 W			
Sound power level L _{wa} :		41 dB(A)			
Reference flow rate:		228m ³ /h			
Reference pressure:		50 Pa			
Specific Power Input (SEL):		0.15 Wh/m ³			
Control factor:		1.0 in combination with multiple 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	2.85%			
	External	2.85%			
Position dirty filter indication:		On the display of the appliance / on the multiple switch (LED) / on the Brink Air Control. Attention! For optimal energy efficiency and a proper operation, a regular filter inspection, cleaning or replacement is necessary.			
Internet address for Assembly instructions:		https://www.brinkclimatesystems.nl/international/home/docsearch			
Bypass:		Yes, 100% Bypass			

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

Classification from 1 January 2016	
SEC class ("Average climate zone")	SEC in kWh/m²/a
A+ (Most efficient)	SEC < -42
A	$-42 \leq \text{SEC} < -34$
B	$-34 \leq \text{SEC} < -26$
C	$-26 \leq \text{SEC} < -23$
D	$-23 \leq \text{SEC} < -20$
E (Least efficient)	$-20 \leq \text{SEC} < -10$