

Technical Sheet

Flair 325 Heat recovery appliance English



Sir for Life

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 (\rightarrow) .

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 (\rightarrow Connections and dimensions page 4).

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.

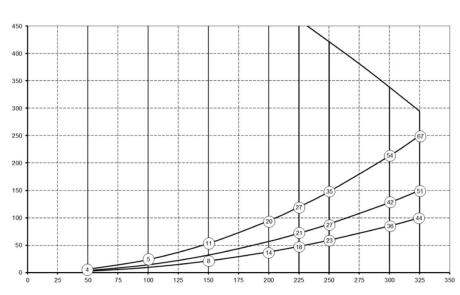
Technical information

Technical information

Flair 325 (Plus)											
Supply voltage [V/Hz]			230V/50Hz								
Dimensions (w x h x d) [mm]		750 x 650 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	144.5
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 [m ³ /h]					100	150	150	200	200	250	325
Static pressur		e [Pa]		25	25	50	50	100	150	150	
Sound power level Lw(A)	Casing radiation [dB(A)]			27	34	35	40	41	46	51	
	Duct "From dv	Duct "From dwelling' [db(A)]		32	40	38	46	44	49	55	
Duct 'To dwell		ing' [db	(A)]		44	49	51	55	57	62	69

^{*)} Duct noise including end correction

Resistance of duct system [Pa]



Flow rate [m³/h]

Note:

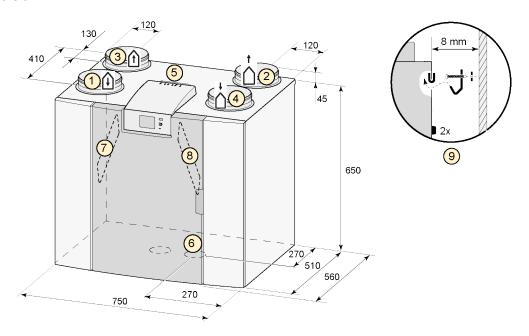
The stated value in the circle is the capacity (in Watt) per fan.

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

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.

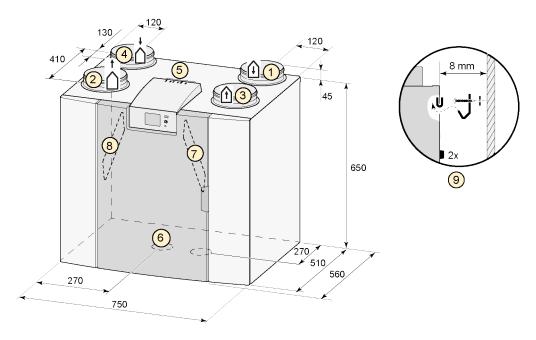
Left-hand version



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

1	To dwelling	Û
2	To outside	$\stackrel{\dagger}{\triangle}$
3	From dwelling	$\hat{1}$
4	From outside	\triangle
5	Electrical connections	
6	Siphon connection	
7	Exhaust air filter	
8	Supply air filter	
9	Mounting	

Right-hand version



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

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

Service parts

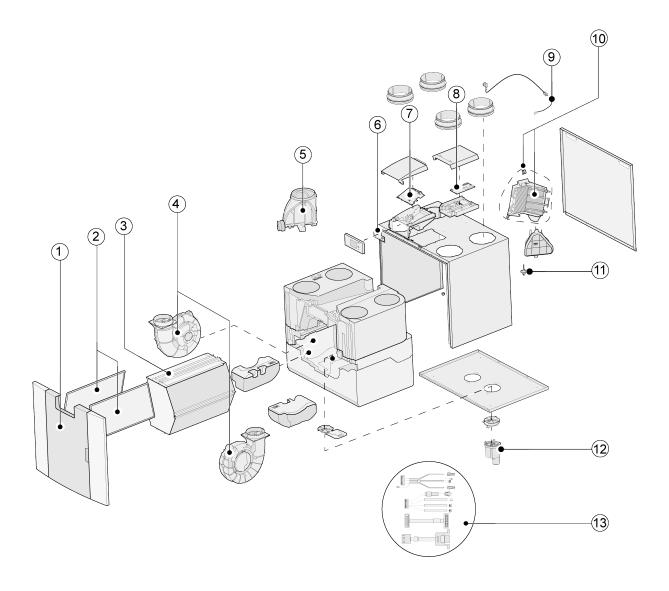
Exploded view

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.

Example					
Appliance type	Flair 325 Plus				
Serial number	430000184701				
Year of production	2019				
Part	Fan				
Article code	532759				
Quantity	1				

Service articles



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	532760
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

Conformity declaration

Conformity declaration

Manufacturer: Brink Climate Systems B.V.

Address: Postbus 11

NL-7950 AA, Staphorst, The Netherlands

Product: Heat recovery appliance type:

Flair 325 Flair 325 Plus

The product described above complies with the following directives:

◆ 2014/35/EU (low voltage directive)

◆ 2014/30/EU (EMC directive)

◆ RoHS 2011/65/EU (substances directive)

◆ 2009/125/EG (1253/1254 EU (EU ErP directive))

The product bears the CE label:

CE

Staphorst, 24-11-2017

M. Schouten Managing Director

1 ERP values

Technical in	formation sheet Flair 325 (Plus) in acc	ordance with Ecodes	ign (ErP), no. 1254/2014	(Annex IV)		
Manufacturer:		Brink Climate	Brink Climate Systems B.V.				
Model:		Flair 325 (Plu	Flair 325 (Plus)				
Climate zone	Type of control	SEC Value in kWh/m²/a	SEC Class	Annual electricity consumption (AEC) in kWh	Annual heating saved (AHS) in kWh		
Average	manual	-40.99	А	233	4614		
	clock control	-41.59	А	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	-85.11	A+	770	9026		
	clock control	-85.85	A+	752	9054		
	1x sensor (RV/CO ₂ /VOC)	-87.25	A+	718	9110		
	2 or more sensors (RV/CO ₂ /VOC)	-89.79	A+	661	9222		
Hot	manual	-15.72	E	188	2086		
	clock control	-16.24	E	170	2093		
	1x sensor (RV/CO ₂ /VOC)	-17.21	E	136	2106		
	2 or more sensors (RV/CO ₂ /VOC)	-18.88	Е	79	2132		
Type of ventil	ation unit:	Balanced reside	Balanced residential ventilation appliance with heat recovery				
Fan:		EC - fan with in	finitely va	ariable control			
Type of heat exchanger:		Recuperative p	lastic cro	ss-counterflow hea	t exchanger		
Thermal effici	iency	91%					
Maximum flo	w rate:	325m³/h	·				
Maximum rat	ed power:	144.5 W	-				
Sound power		41 dB(A)					
Reference flo	w rate:	228m³/h	· · ·				
Reference pre			50Pa				
Specific Powe			0.15 W/m³/h				
Control factor	r:		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 Brink Air Attention! For operation, a reg	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				
Internet address for Assembly instructions:			necessary. http://www.brinkclimatesystems.nl/nl/professionals				
			Yes, 100% Bypass				
Bypass:		103, 100% bypa	162, 100% phass				

^{*} 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			
А	-42 ≤ SEC < -34			
В	-34 ≤ SEC < -26			
С	-26 ≤ SEC < -23			
D	-23 ≤ SEC < -20			
G (Least efficient)	-20 ≤ SEC < -10			

EN 13141-7:2010 Certificate

KF.82.01.257.AD.01 18.05.18



Declaration of confirmity 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

Year of construction:

430000180301

Serial Number:

2018

Power supply:

230 V ~ 50 Hz

CE-Label:

Yes

Maximum volume flow:

325 m³/h

Results, energetic efficiency 7°C:

Temperature ratio, supply air η _{θ,su} [%]	Total electric power consumption P _E [W]	Specific electric power consumption [W/m³/h]
98,4	11,7	0,23
90,8	34,7	0,15
90,5	79,2	0,24
	supply air η _{θ,su} [%] 98,4 90,8	supply air η _{0,su} consumption P _E [%] [W] 98,4 11,7 90,8 34,7

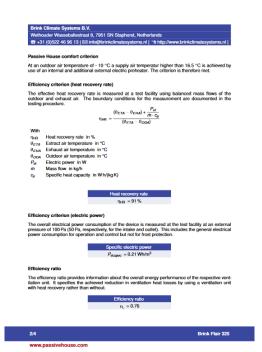
Results, energetic efficiency 2°C:

Air flow [m³/h]	Temperature ratio, supply air η _{θ,50} [%]	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.

Passive House Certificate





rost protection of downstream hydraulic heater coils:

✓ 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.

See also: Complete Passive House Certificate