



Air for life

Teknisk Sheet

Flair 325 Enthalpy
Varmegenvindingsaggregat



Generelt

Flair 325 Enthalpy og Flair 325 Enthalpy Plus er en ventilationsenhed til afbalanceret ventilation af boliger med varmegenvinding.

Egenskaber:

- Maksimal kapacitet 325 m³/t
- Plastvarmeveksler med høj varmegenvindingsevne
- Filtre ISO Grov 60%
- Modulær elektrisk forvarmer
- Automatisk bypassventil
- Berøringsskærm
- Justerbar luftmængde
- Filterindikation på aggregatet og mulighed for filterindikation på multikontakten
- Intelligent frostbeskyttelse, inklusive modulpvarmning
- Lavt lydniveau
- Konstant flow-styring

Flair 325 Enthalpy fås i to typer:

- **"Flair 325 Enthalpy"**
- **"Flair 325 Enthalpy Plus"**

Flair 325 Enthalpy Plus har, sammenlignet med standard Flair 325 Enthalpy, en ekstra PCB med flere funktioner/tilslutningsmuligheder.

Denne installationsvejledning beskriver både standard Flair 325 Enthalpy og Flair 325 Enthalpy Plus.

Flair 325 Enthalpy og Flair 325 Enthalpy Plus fås i en **venstrehånds-** og **højrehånds-**versions; det er ikke muligt at konvertere en venstrehåndsmodel til en højrehåndsmodel eller omvendt.

For korrekte tilslutningskanaler og dimensioner (→ [Tilslutninger og dimensioner](#) side 4).

Der foreligger mulighed for evt. senere installation af Plus-PCB, hvis styreoptionerne evt. ønskes udvidet.

Aggregatet leveres klar til tilslutning med et 230 V strømstik.

Teknisk information

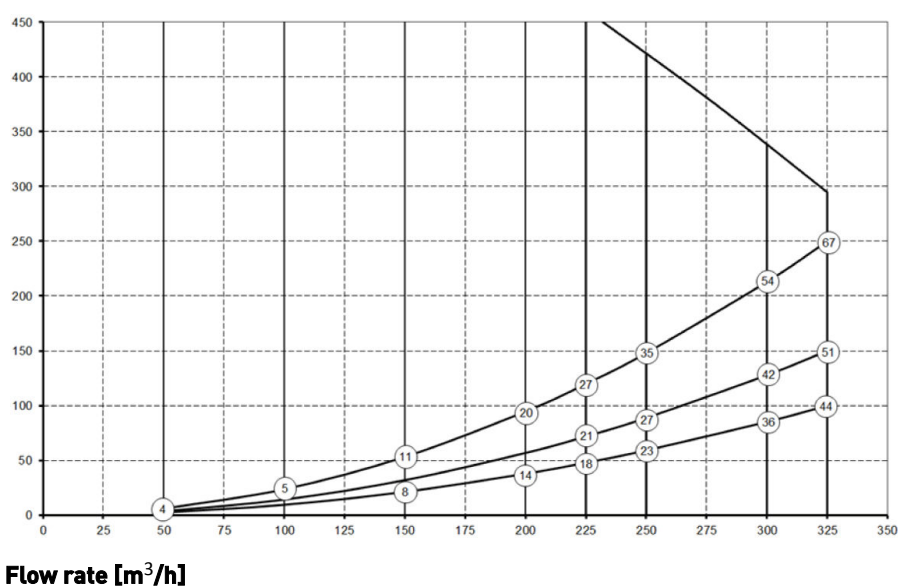
Technical information

Flair 325 Enthalpy (Plus)										
Supply voltage [V/Hz]	230V/50Hz									
Dimensions (w x h x d) [mm]	750 x 650 x 560									
Duct diameter [mm]ø	ø 160									
Weight [kg]	37									
Filter class	ISO Coarse 60% (ISO ePM1.0 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 [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]



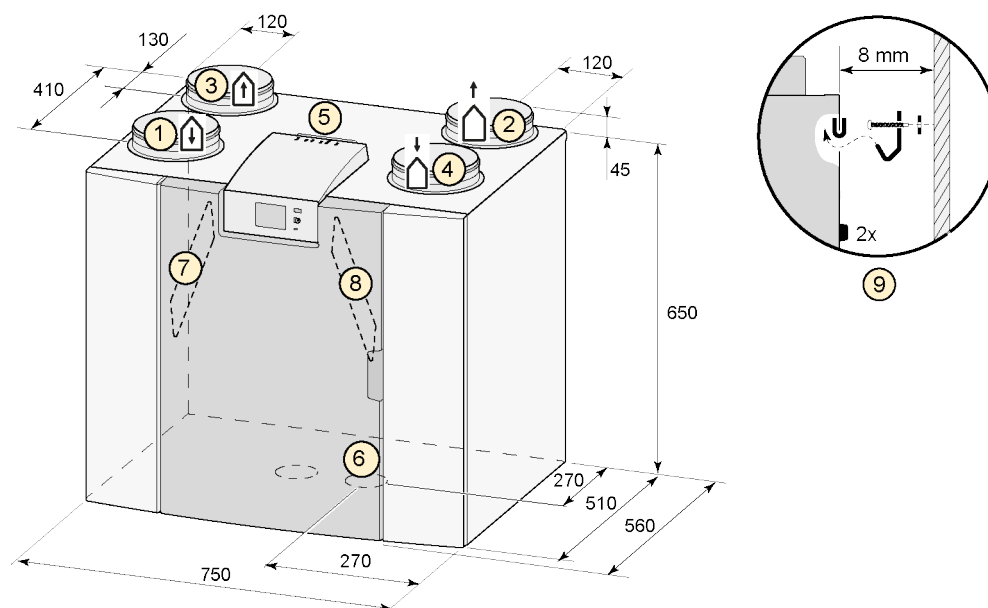
Note:

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

Tilslutninger og dimensioner

Flair aggregatet er tilgængelig i en venstrehånds- og en højrehåndsversion. Ved en venstrehåndsversion er udsugning og -indblæsning (Fra boligen 3 og Til boligen 1) på venstre side af aggregatet; kondensafløbet monteres derefter i højrehåndsåbningen under aggregatet. Ved en højrehåndsversion er udsugning og -indblæsning (3 og 1) på aggregatets højre side.

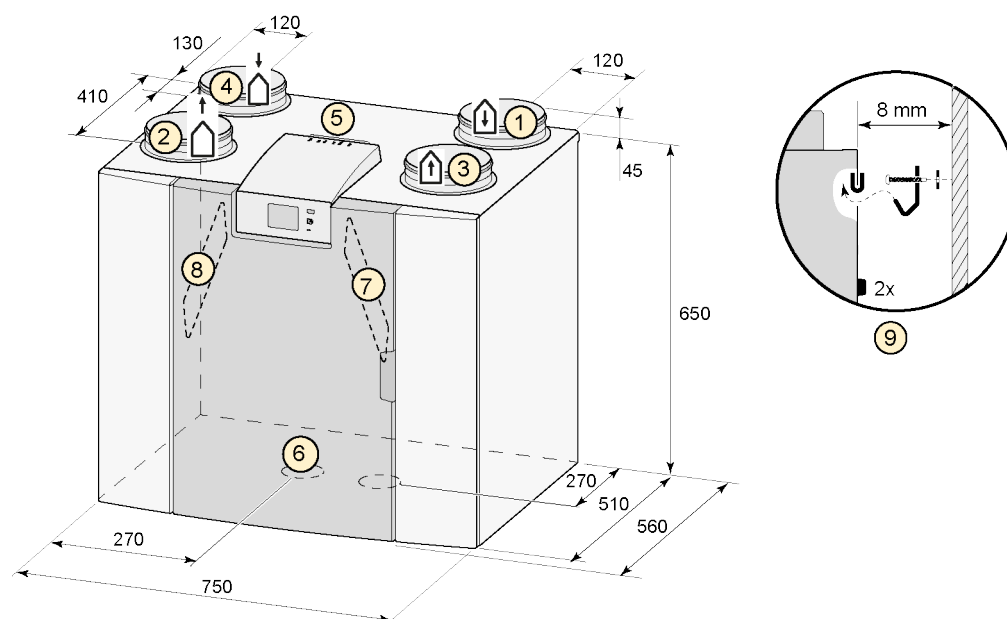
Venstrehåndsversion



Alle dimensioner er i millimeter. Diameter på alle kanaltilslutninger er 160 mm

1	Indblæsning	
2	Afkast	
3	Udsugning	
4	Indtag	
5	Elektriske tilslutninger	
6	Siphon connection	
7	Udsugningsfilter	
8	Indblæsningsfilter	
9	Montering	

Højrehåndsversion

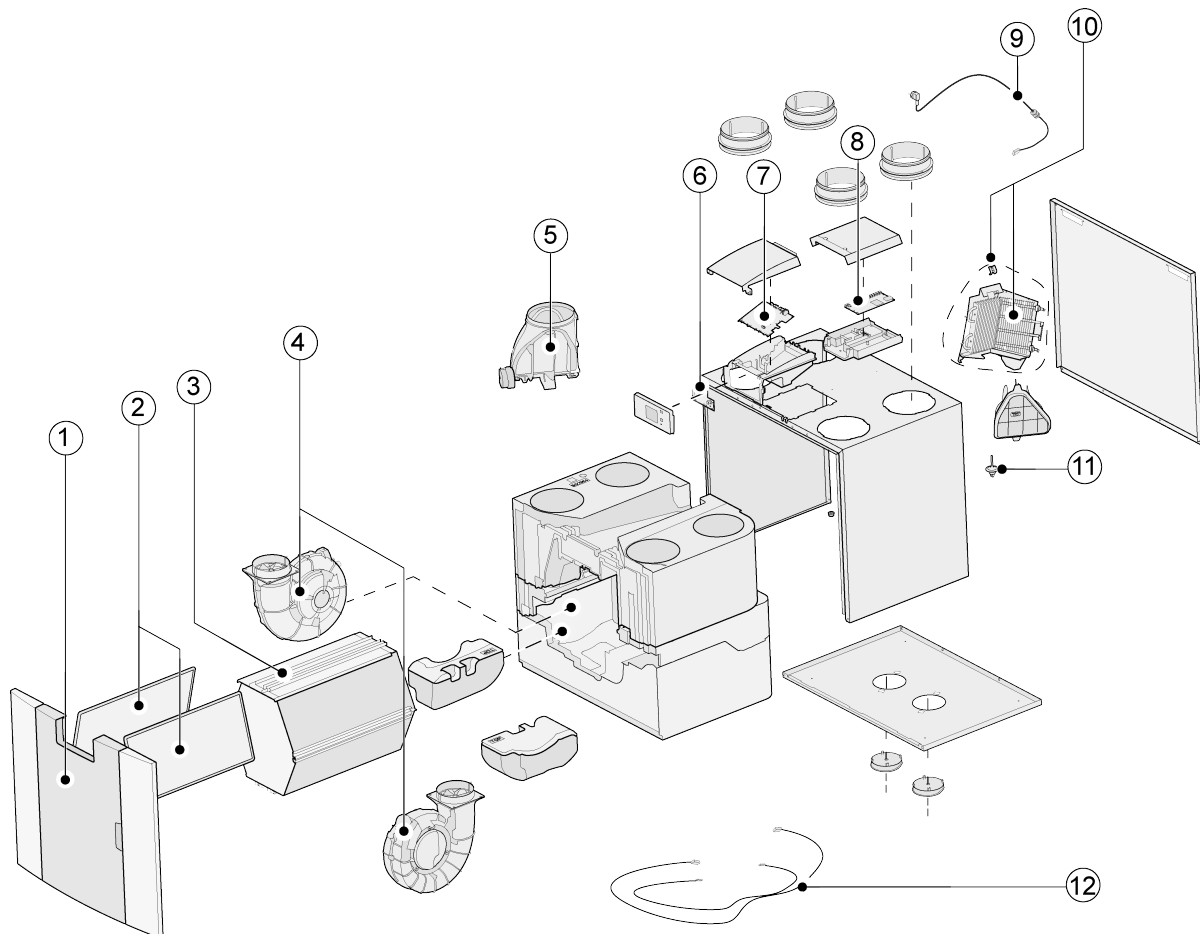


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Serviceartikel

Service articles



No.	Article description	Article code
1	Front panel complete	532763
2	Filters (2 items) ISO Coarse 60%	532716
3	Enthalpy heat exchanger	532710
4	Fan (1 item)	532759
5	Bypass valve with motor complete	532760
6	Display pcb	532752
7	Basic pcb	532750
8	Plus pcb U(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	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.

Certifikater

Overensstemmelseserklæring

Overensstemmelseserklæring

Fabrikant: Brink Climate Systems B.V.

Adresse: Postbus 11
NL-7950 AA, Staphorst, The Netherlands

Produkt: Varmegenvindingsapparatype:
Flair 325 Enthalpy
Flair 325 Enthalpy Plus

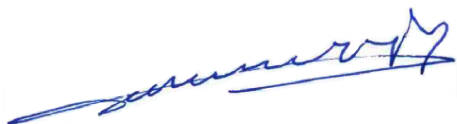
Det ovenfor beskrevne produkt opfylder følgende direktiver:

- ◆ 2014/35 / EU (lavspændingsdirektivet)
- ◆ 2014/30 / EU (EMC-direktivet)
- ◆ RoHS 2011/65/EU (direktivet om farlige stoffer i elektrisk og elektronisk udstyr)
- ◆ 2009/125/EG (1253/1254 EU (EU ErP-direktivet))

Produktet er CE-mærket:



Staphorst, 24-11-2017

A handwritten signature in blue ink, appearing to read 'M. Schouten'.

M. Schouten
Technical Director

1 ERP values

Technical information sheet Flair 325 Enthalpy Plus in accordance with Ecodesign (ErP), no. 1254/2014 (Annex IV)					
Manufacturer:		Brink Climate Systems B.V.			
Model:		Flair 325 Enthalpy (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	-38.75	A	220	4359
	clock control	-39.45	A	203	4386
	1x sensor (RV/CO ₂ /VOC)	-40.78	A	172	4440
	2 or more sensors (RV/CO ₂ /VOC)	-43.18	A+	119	4548
Cold	manual	-75.07	A+	757	8527
	clock control	-76.02	A+	740	8580
	1x sensor (RV/CO ₂ /VOC)	-77.87	A+	709	8686
	2 or more sensors (RV/CO ₂ /VOC)	-81.31	A+	656	8898
Hot	manual	-15.33	E	175	1971
	clock control	-15.88	E	158	1983
	1x sensor (RV/CO ₂ /VOC)	-16.91	E	127	2008
	2 or more sensors (RV/CO ₂ /VOC)	-18.72	E	74	2057
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		83%			
Maximum flow rate:		325 m ³ /h			
Maximum rated power:		144.5 W			
Sound power level L _{wa} :		41 dB(A)			
Reference flow rate:		228m ³ /h			
Reference pressure:		50Pa			
Specific Power Input (SEL):		0.14 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/m ² /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

EN13141-7:2010 erklæring

KF.82.01.257.BD.02
29.11.18



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 R EU ENTHALPIE
Serial Number:	430013181502
Year of construction:	2018
Power supply:	230 V ~ 50 Hz
CE-Label:	Yes
Maximum volume flow:	325 m ³ /h

Results, energetic efficiency 7°C:

Air flow [m ³ /h]	Temperature ratio, supply air $\eta_{0,su}$ [%]	Humidity ratio supply air $\eta_{X,su}$ [%]	Total electric power consumption P_E [W]	Specific electric power consumption [W/m ³ /h]
51	96,0	79,1	11,6	0,23
226	83,2	57,1	32,2	0,14
328	76,3	38,2	79,3	0,24

Results, energetic efficiency 2°C:

Air flow [m ³ /h]	Temperature ratio, supply air $\eta_{0,su}$ [%]	Humidity ratio supply air $\eta_{X,su}$ [%]	Total electric power consumption P_E [W]	Specific electric power consumption [W/m ³ /h]
50	93,2	80,3	11,7	0,23
225	80,4	62,3	35,0	0,15
326	76,8	57,5	79,9	0,24

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.BD.rev01

