

275/350/425/500 Boost (H)

Description

Vasco ventilation units type 275/350/425/500 Boost (H) with heat recovery, suitable for permanent, continuous mechanical ventilation.

The 275/350/425/500 Boost H versions are equipped with an enthalpy heat exchanger, which enables the exchange of not only heat and cooling but also moisture.



General characteristics

- Compact ventilation unit suitable for wall mounting
- Painted metal casing with airtight internal EPP construction (expanded polypropylene)
- Reversible airflow possible through mirrored installation
- Indoor air duct connections at top and/or bottom (freely selectable)

Ventilation & control

- DC radial fans with backward-curved blades
- Automatic, pressure-independent speed control for constant airflow
- Fully automatic bypass
- Free-cooling
- Free-heating
- Internal humidity sensor for automatic airflow control

Heat exchanger

- High-efficiency plastic heat exchanger
- Plastic enthalpy heat exchanger for “H” versions

Control & communication

- RF 3-position switch:
 - Wall mounting (surface-mounted)
 - 3 ventilation speeds + Timer function + Auto mode
 - Adjustable maximum airflow
 - LED feedback
 - Battery powered (3V Lithium CR2450N)
- 3-position contact, control via e.g. building management system
- 1-10 V contact, control via e.g. building management system
- Modbus contact, control via e.g. building management system
- Alarm contact closes in case of malfunction or dirty filters

Filters

- ISO16890 Coarse 65% (= G4 according to EN779) for supply and extract air
- ISO16890 ePM1 55% (= F7 according to EN779) optionally available

Accessories

- Dry siphon included

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Optional extensions

- Electric preheating element:
 - PTC element (Positive Temperature Coefficient)
 - Modulating control
 - Power variants: 0.7 kW or 1.4 kW
 - Surface-mounted installation (DN180)
- CO₂ ZoneControl:
 - 2-zone control via external dampers
 - 2x RF CO₂ switch (flush-mounted)
- Additional RF 3-position switches
- Demand control via RF RH (humidity) switch (powered by 2×1.5V AA batteries)
- Demand control via RF CO₂ flush-mounted and surface-mounted switches (230 V AC power supply)
- Control via Vasco Climate Control App via Gateway
- Mounting support for free-standing vertical installation



CO₂ ZoneControl



Preheating element



RF CO₂ switch surface-mounted



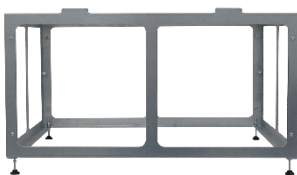
Gateway for Vasco Climate Control App



RF 3-position switch



RF RH switch



Mounting support



RF CO₂ switch flush-mounted



RF remote control display

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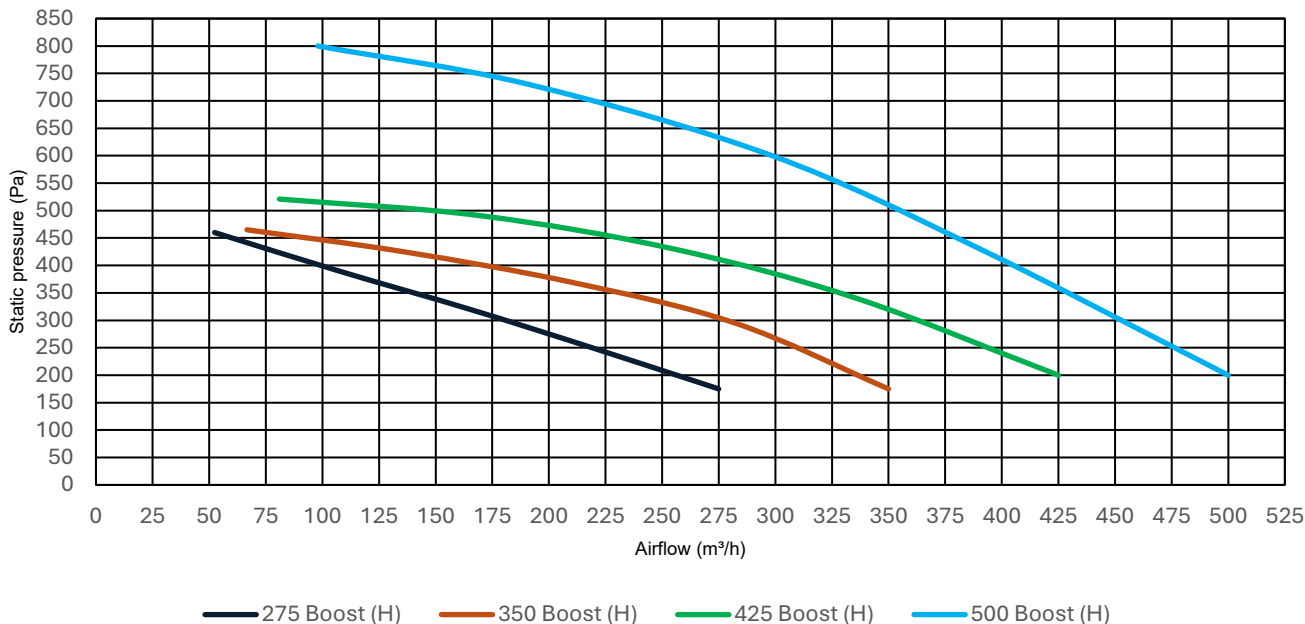
Technical data

	275 Boost	275 Boost H	350 Boost	350 Boost H	425 Boost	425 Boost H	500 Boost	500 Boost H
Dimensions (h x w x d)	724 x 764 x 560 mm		724 x 764 x 560 mm		724 x 764 x 560 mm		724 x 764 x 560 mm	
Dimensions including packaging (h x w x d)	940 x 790 x 600 mm		940 x 790 x 600 mm		940 x 790 x 600 mm		940 x 790 x 600 mm	
Weight	43.6 kg	41.7 kg	43.6 kg	41.7 kg	44.0 kg	42.1 kg	44.2 kg	42.3 kg
Weight including packaging	52.9 kg	51.0 kg	52.9 kg	51.0 kg	53.3 kg	51.4 kg	53.3 kg	51.4 kg
Power supply voltage	230 V AC		230 V AC		230 V AC		230 V AC	
Maximum pressure loss at 150 Pa	275 m³/h		350 m³/h		425 m³/h		500 m³/h	
Maximum pressure loss at Q _{max}	175 Pa		175 Pa		200 Pa		200 Pa	
Thermal efficiency according to EN13141-7:2021	91.4%	82.2%	90.0%	78.4%	88.8%	75.8%	87.7%	74.6%
Moisture recovery efficiency according to EN13141-7:2021	-	70.3%	-	63.4%	-	60.2%	-	57.1%
Thermal efficiency according to EN308 Annex G	83% at 273 m³/h	-	84% at 350 m³/h	-	82% at 425 m³/h	-	79% at 494 m³/h	-
	84% at 250 m³/h	79% at 195 m³/h	86% at 295 m³/h	76% at 249 m³/h	83% at 400 m³/h	74% at 298 m³/h	79% at 452 m³/h	71% at 352 m³/h
	85% at 223 m³/h	-	87% at 250 m³/h	-	84% at 370 m³/h	-	81% at 394 m³/h	-
Power consumption	2X 59 W		2x 83 W		2X 115 W		2X 169 W	
Energy label	A		A		A		A	
Energy label with 2 sensors (CO ₂ or RH (humidity))	A+		A+		A+		A+	
Sound level unit emission (70% Q _{max} @ 50 Pa)	46.0 dB(A)		47.5 dB(A)		49.0 dB(A)		50.5 dB(A)	
Sound level supply duct (70% Q _{max} @ 50 Pa)	54.0 dB(A)		57.5 dB(A)		63.0 dB(A)		67.5 dB(A)	
Sound level extract duct (70% Q _{max} @ 50 Pa)	43.0 dB(A)		46.0 dB(A)		50.0 dB(A)		50.0 dB(A)	

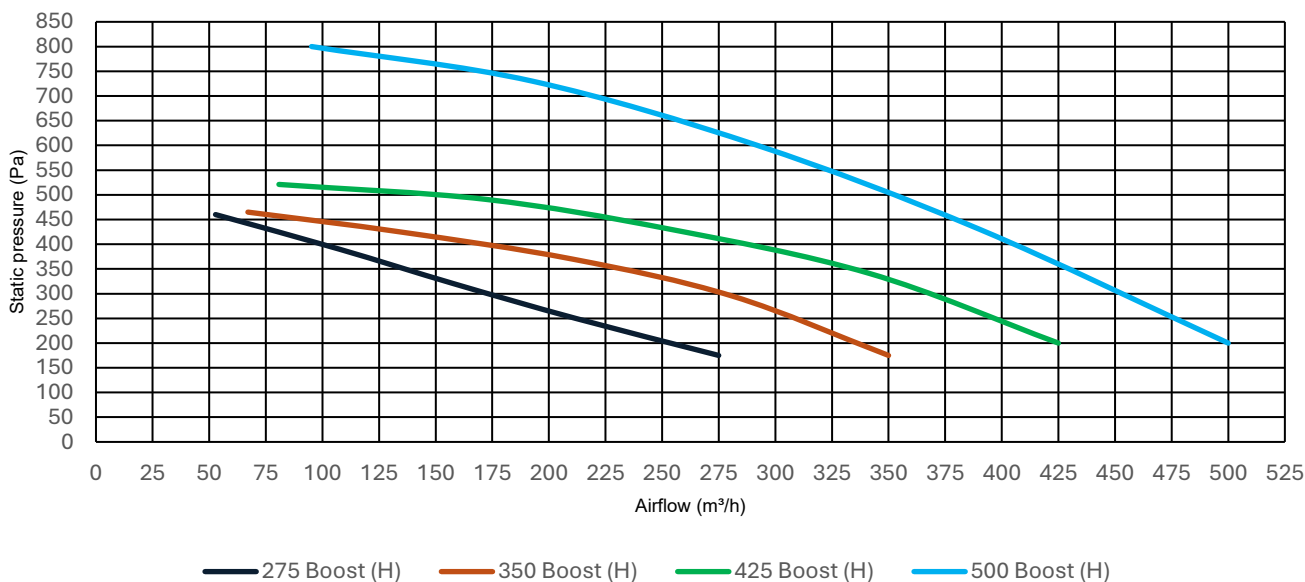
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Technical data

Characteristic curve - SUPPLY



Characteristic curve - EXTRACT



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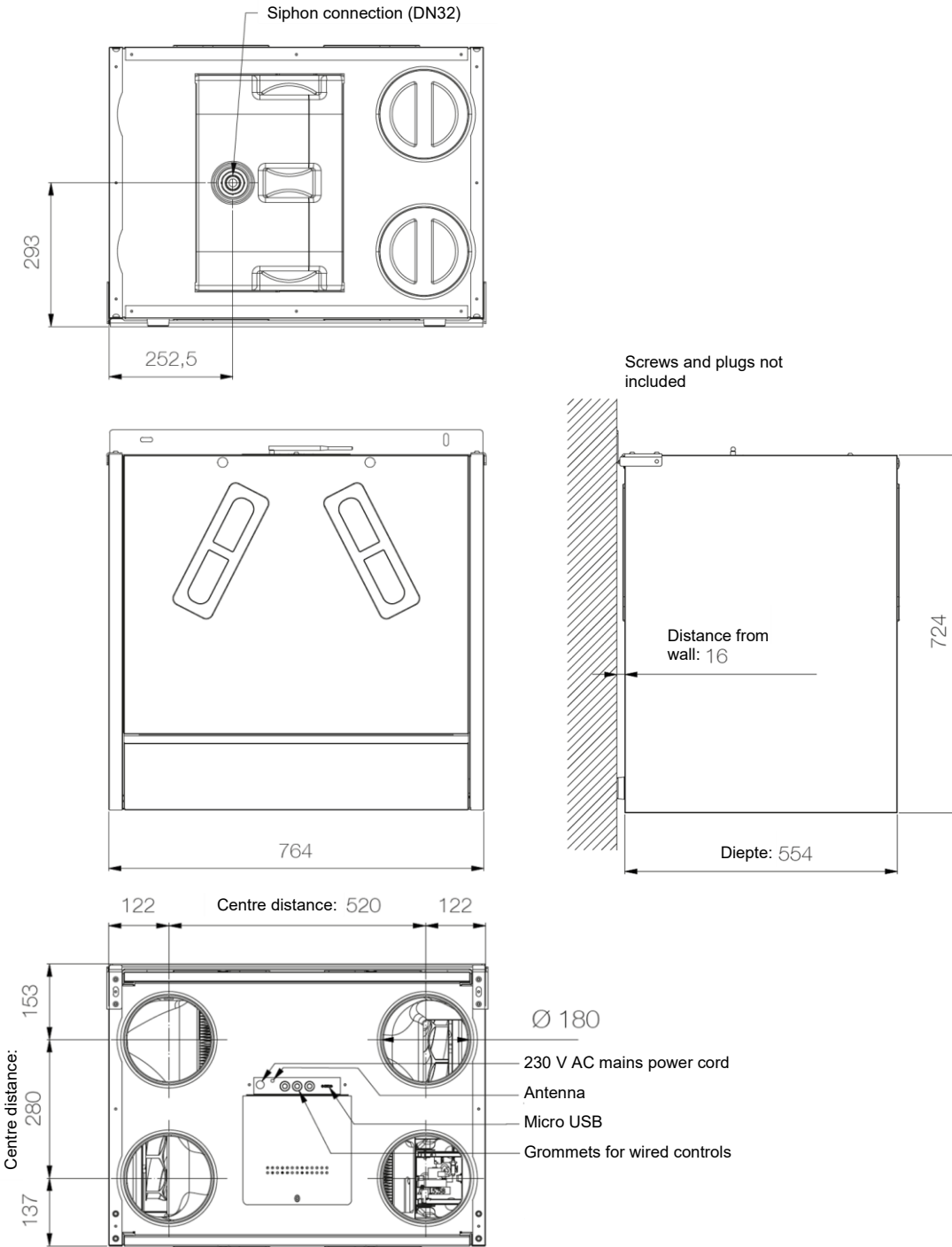
Technical data

Indicative electrical power consumption

275 Boost (H)			350 Boost (H)			425 Boost (H)			500 Boost (H)		
Q (m³/h)	p (Pa)	P (W)	Q (m³/h)	p (Pa)	P (W)	Q (m³/h)	p (Pa)	P (W)	Q (m³/h)	p (Pa)	P (W)
275	200	109	350	200	168	425	200	186	500	200	273
	175	96		175	155		175	176		175	262
	150	90		150	144		150	167		150	246
	125	82		125	131		125	154		125	232
	100	73		100	120		100	142		100	221
250	200	98	325	200	149	400	200	174	475	200	247
	175	89		175	138		175	162		175	231
	150	82		150	126		150	149		150	220
	125	72		125	116		125	139		125	208
	100	61		100	103		100	125		100	193
225	200	84	300	200	132	375	200	156	450	200	225
	175	79		175	122		175	147		175	212
	150	69		150	110		150	134		150	197
	125	62		125	101		125	123		125	186
	100	55		100	90		100	110		100	174
200	200	77	275	200	121	350	200	143	425	200	204
	175	70		175	110		175	133		175	192
	150	63		150	101		150	122		150	177
	125	55		125	91		125	111		125	165
	100	46		100	82		100	101		100	153
175	200	71	250	200	106	325	200	124	400	200	184
	175	61		175	96		175	117		175	172
	150	54		150	87		150	107		150	161
	125	48		125	80		125	97		125	151
	100	40		100	70		100	90		100	140

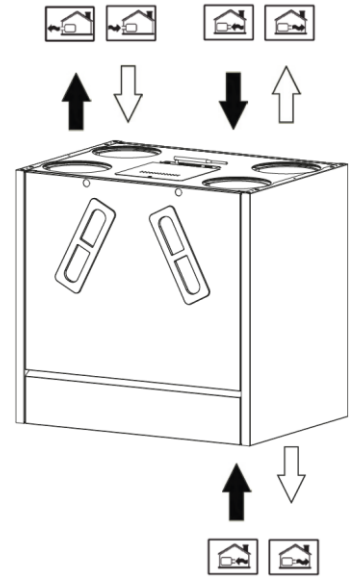
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Dimensional drawings and connections



Dimensions in mm.

Standard configuration Right



Mirrored configuration Left

