



Product description

GE 290 AC is a ventilation unit equipped with counter current heat exchanger, supply and extract fan, EU4 extract plan filter, EU7 supply bag filter, complete automatic functions control panel.

GE 290 AC may be delivered with the following accessories:

- Water or electrical residual heat panel for $\varnothing 125$ mm duct.
- Fresh air damper with spring return motor for $\varnothing 125$ mm duct (for water residual heat panel).
- Fresh air damper with motor for $\varnothing 125$ mm duct (for electrical residual heat panel).
- Discharge damper with motor for $\varnothing 125$ mm duct
- Thermostat valve or motorised valve
- Filtermonitor
- Ventilator monitor

Utilization

Ge 290 AC is used in connection with ventilation units requiring exhaust and supply in order to recycle energy from the exhaust air to heat the supply air. GE 290 AC is normally used in homes with an area of app. 50 to 150 m².



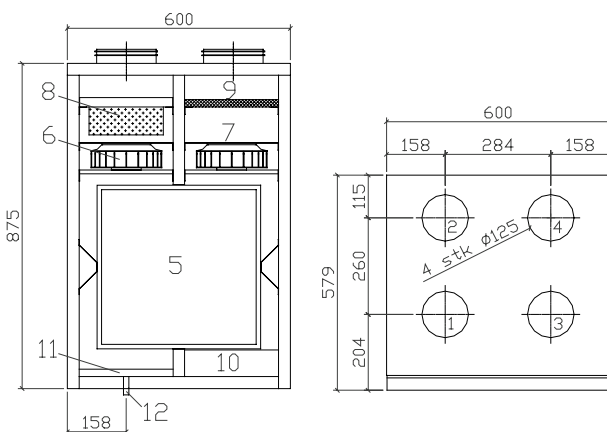
Types

GE 290 AC may be ordered as a left or a right turned model.

Dimensioned sketch

GE 290 AC

Dimensions in mm

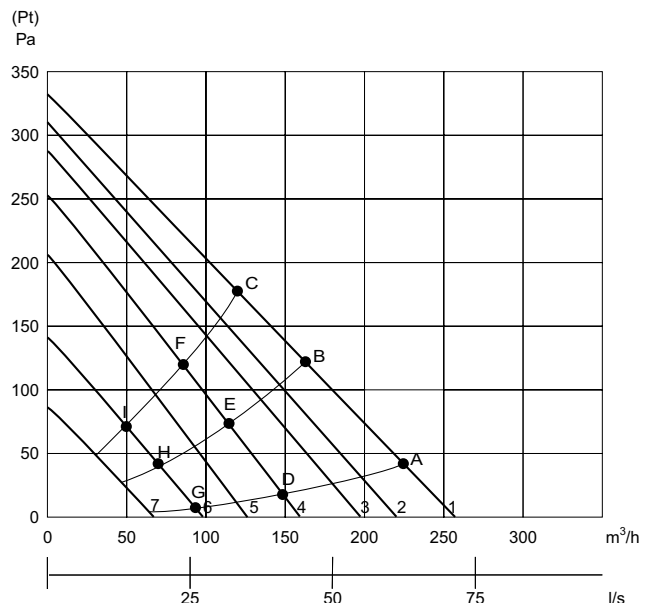


Minimum distance under the unit to the power supply and condensate drain 100 mm

- | | |
|-----------------------------------|--|
| 1: Fresh air (outdoor air) | 7: Extract fan |
| 2: Exhaust | 8: Fresh air filter |
| 3: Extract | 9: Extract filter |
| 4: Supply | 10: Electric control |
| 5: Counter current heat exchanger | 11: Condensate tray |
| 6: Supply fan | 12: Condensate drain $\varnothing 15$ mm |

Performance

The performance diagram shows the pressure (P_t) available for the duct system on both extract and supply. Pressure loss in the unit has been deducted.



Curves: 1: 100% 2: 75% 3: 60% 4: 50%
5: 40% 6: 30% 7: 20%

Power input (per fan)

	A	B	C	D	E	F	G	H	I
Watt	59	58	57	43	41	40	21	20	20

Technical data

Power supply

1 x 230 V + N + PE, 10 A, 50 Hz

Fans with direct-driven motor

R2E 190

Capacitor

2 µF

Motors 230 V AC:

Norm motors

IEC 38

Insulation

B

Tightness class

IP 44

Motor capacity (2 motors):

Rpm

2500

Input current (max. per motor)

58W

Power consumption (max. per motor)

0,26A

On the control panel, 3 various speeds may be chosen. The speed at each step, may - for each fan - be chosen freely from 0-100%.

Sound

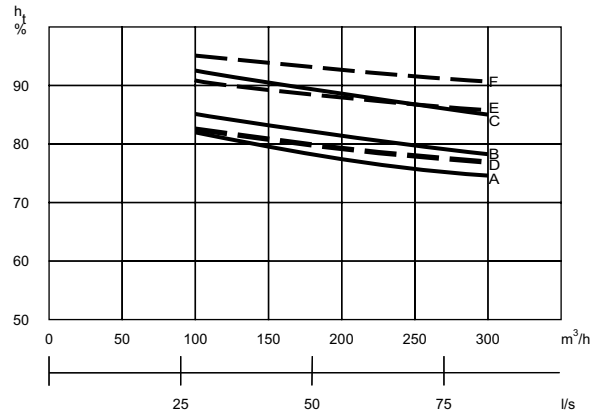
Measurement point	1 m in front of unit			Exhaust duct			Supply duct			
	Speed	1	2	3	1	2	3	1	2	3
		Lo dB			Lwu dB			Lwi dB		
63 Hz		48	48	64	75	83	87	72	84	92
125 Hz		43	45	58	71	80	85	66	78	85
250 Hz		35	41	53	75	83	89	65	73	81
500 Hz		24	32	47	60	72	77	56	68	78
1000 Hz		-	25	29	55	67	74	37	51	63
2000 Hz		-	21	26	45	60	67	26	42	54
4000 Hz		-	-	-	32	52	62	-	28	42
8000 Hz		-	-	-	23	40	51	-	-	30
Average		Lo dB(A)			Lwu dB(A)			Lwi dB(A)		
		29	34	39	67	76	82	58	69	77

- 1: was measured at 30% and a air supply of 90 m³/h
- 2: was measured at 50% and a air supply of 150 m³/h
- 3: was measured at 100% and a air supply of 240 m³/h

Automation

GE 290 AC is supplied with full automation.

Temperature efficiency



		A	B	C	D	E	F
Exhaust	°C	20	20	20	20	20	20
Relative humidity	%	30	50	70	30	50	70
Outdoor air	°C	4	4	4	-12	-12	-12

Possible icing up of the heat exchanger at low outdoor temperatures has not been taken into account.

Construction

Main dimensions

(h x l x d) excluding connecting pieces

875 x 600 x 579 mm

Cabinet construction

Double encapsulated, hot galvanised sheet metal with 30 mm insulation (may be supplied powder sprayed)

Duct connection

Ø125 mm diameter (nipple dimension) with rubber gasket seal

Covers

Snapbolts for filterchange

Wall mounting

With ø6mm holes for mounting at the wall

Counter-current heat exchanger

Seawater proof aluminium

Condensation tray

Stainless steel

Condensation outlet

Stainless steel pipe Ø15 mm (external)

Filters:

Supply

EU7 bag filter

Exhaust

EU4 flat filter

Weight

95 kg

Accessories

Water and electrical residual heat panels and damper.