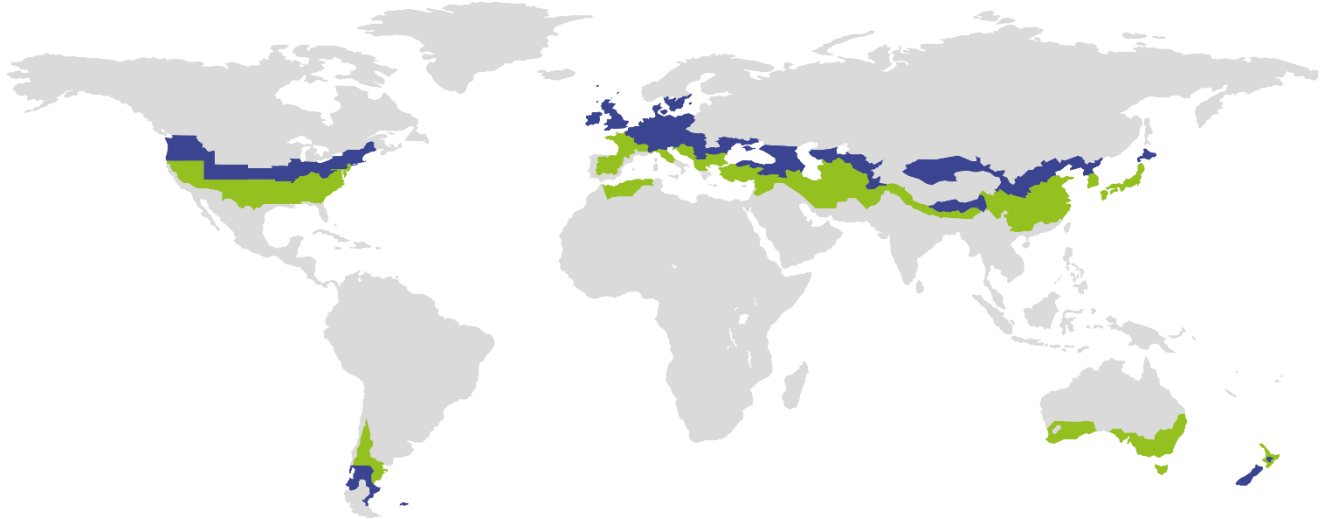


CERTIFICATE

Certified Passive House Component

Valid until 31st December 2020

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**
Manufacturer: **Swegon Operations AB**
Sweden
Product name: **Ventilation unit series**
GOLD RX (Aluminium Rotor)

Specification: Airflow rate > 600 m³/h
Heat exchanger: Regenerative

This certificate was awarded based on the product meeting the following main criteria

Heat recovery rate	η_{HR}	$\geq 75 \%$
Specific electric power	$P_{el,spec}$	$\leq 0.45 \text{ Wh/m}^3$
Leakage		$< 3 \%$ ^{1) 2)}
Performance number		≥ 10
Comfort		Supply air temperature $\geq 16.5 \text{ }^\circ\text{C}$ at outdoor air temperature of $-10 \text{ }^\circ\text{C}$

Airflow range
540-9000 m ³ /h at an external pressure of 222-359 Pa Requirements non-residential buildings (Therefore also applic- able for residential buildings)
Heat recovery rate
$\eta_{HR} \geq 84 \%$
Specific electric power
$P_{el,spec} 0.45 \text{ Wh/m}^3$ ³⁾

¹⁾ Carry-over from extract to supply air side.

²⁾ Due to heat exchanger condition the risk of carry-over from extract air to supply air side exists. In order to avoid carry over into the supply air side, pressure conditions in the device must be set as given by the manufacturer.

³⁾ At the lower airflow rate might be exceeded.



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Component ID	Unit model	Testing requirements	Airflow range		External pressure Pa	Specific electric power ¹⁾ Wh/m ³	Heat recovery rate %
			Min m ³ /h	Max m ³ /h			
0558vI03	04	Non-residential	540	1000	222	0.45	85
0559vI03	05	Non-residential	540	1000	222	0.45	85
0560vI03	07	Non-residential	540	1820	265	0.45	86
0561vI03	08	Non-residential	1080	1780	259	0.45	84
0562vI03	11	Non-residential	1080	2465	281	0.45	85
0563vI03	12	Non-residential	1800	2600	281	0.45	84
0564vI03	14	Non-residential	1800	4285	316	0.45	84
0565vI03	20	Non-residential	2520	4000	308	0.44	84
0566vI03	25	Non-residential	2520	5500	328	0.45	84
0567vI03	30	Non-residential	3600	4000	308	0.44	84
0568vI03	35	Non-residential	3600	7500	347	0.45	85
0569vI03	50	Non-residential	5400	9000	359	0.45	85

Table 1: Certified values for each unit model.

¹⁾ At the lower limit of the air flow range the nominal value of 0.45 Wh/m³ might be exceeded.

The efficiency values electric power consumption and heat recovery rate have been determined under standard external pressure differences as shown in the table. The project specific calculation with the manufacturer's software based on real project data (especially respecting the external pressure difference) could differ from the values given in the table 1.