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## European Technical Assessment

**ETA 17/1007**  
of 02/05/2018

### General Part

**Technical Assessment Body issuing the European Technical Assessment:**

RISE Research Institutes of Sweden AB

**Trade name of the construction product**

CR Ventilation system

**Product family to which the construction product belongs**

Ventilation system, made of mineral wool covered with film on outside and inside

**Manufacturer**

Climate Recovery Ind. AB  
Skeppsbron 9  
391 21 Kalmar  
Sweden  
[www.climaterecovery.com](http://www.climaterecovery.com)

**Manufacturing plant**

Climate Recovery Ind. AB  
Torsåsgatan 3  
392 39 Kalmar  
Sweden

**This European Technical Assessment contains**

5 pages including 1 Annex which form an integral part of this assessment.

**This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of**

EAD 360001-00-0803  
Ventilation system made of mineral wool covered with film on outside and inside

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Specific parts

## 1 Technical description of the product

Ventilation system made of mineral wool covered with surface treated aluminum film on outside and inside.

The kit consists of ducts and circular fittings.

## 2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The ventilation system is intended to be used inside buildings. The intended maximum positive pressure is 1000 Pa.

## 3 Performance of the product and references to the methods used for its assessment

### 3.1 Essential characteristics and their performance

		Characteristic	Performance
BWR 2	Safety in case of fire	Reaction to fire	A2-s1, d0
BWR 3	Hygiene, health and the environment	Erosion	No damage
		Emission	No particles
		Microbiological growth	No growth or deterioration
		Stiffness	NPA
		Bulging and /or caving	No bulging / caving
		Dimensional stability	NPA
		Dimensional tolerances	NPA
		Resistance against pressure	No damage or displacement
		Tightness	Acc. to annex A
	Water vapour resistance	NPA	
BWR 5	Protection against noise	Acoustical absorption	Acc. to annex B

#### **4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base**

According to the decision 1999/91/EC - Commission decision of date 25 January 1999, published in the Official Journal of the European Union (OJEU) L29/44 of 3.2.1999 and amended by decision 2001/596/EC - Commission decision of date 8 January 2001, published in the Official Journal of the European Union (OJEU) L 209/33 of 2.8.2001, of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) given in the following table applies:

<b>Product</b>	<b>Intended use</b>	<b>Level or class</b>	<b>System</b>
Ventilation system, made of mineral wool covered with film on outside and inside	Ventilation system to be used inside buildings	-	3

#### **5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at RISE.

Issued in Borås on 02.05.2018  
By RISE Research Institutes of Sweden AB

Johan Åkesson  
Certification Manager

## Annex A

### Air tightness

The measured and calculated values for pressure and air leakage factors are presented in tables 1 and 2.

**Table 1. Results for duct system at static positive pressure.**

<b>Static positive pressure Pa</b>	<b>Measured leakage factor l/s/m<sup>2</sup></b>
102	0.012
210	0.021
398	0.036
606	0.052
752	0.062
1003	0.078

**Table 2. Results for duct system at static negative pressure.**

<b>Static negative pressure Pa</b>	<b>Measured leakage factor l/s/m<sup>2</sup></b>
99	0.012
208	0.022
297	0.029
403	0.038
603	0.052
751	0.062

## Annex B

### Acoustical absorption

Table I – Results in frequency bands

	Insertion loss (dB) in frequency bands below in Hertz (Hz)							
	63	125	250	500	1000	2000	4000	8000
Ø 125 mm	5	4	6	20	53	31	16	8
Ø 200 mm	4	3	8	44	41	21	12	7

Table 2 – Results in one-third-octave bands

Frequencies (Hz)	Insertion loss (dB) Ø 125 mm	Insertion loss (dB) Ø 200 mm
50	10,5	9,3
63	7,8	3,5
80	1,6	2,5
100	4,0	2,7
125	2,2	1,2
160	5,4	4,3
200	4,5	4,7
250	5,6	8,3
315	8,0	17,6
400	15,5	42,7
500	33,2	47,4
630	47,4	44,5
800	54,1	46,3
1000	54,9	45,8
1250	50,6	37,9
1600	47,7	30,3

2000	35,7	22,7
2500	26,9	18,1
3150	22,6	13,6
4000	17,8	11,9
5000	13,3	10,2
6300	8,6	7,3
8000	7,7	6,8
10000	7,6	6,1