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Technical Report No. 70.520.17.055.01-00

Rev. 00

Dated 2017-04-19

Client:	Huber Ranner Environment Equipment(Taicang) Co., Ltd. No.188-3 Guangzhou East Road,Taicang Economic & Technological DevelopmentArea, 215413 Jiangsu, P.R.China Mr. Wang Xiong
Manufacturing place:	As same above
Test subject:	Product: Air handling unit Type: CASE
Test specification:	EN 1886:2007
Purpose of examination:	• Test according to the test specification
Test result:	The test results show that the presented product is in compliance with the specified requirements.

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200070 Shanghai, P.R.China

1. Technical Data

Manufacture/supplier	Huber Ranner Environment Equipment(Taicang) Co., Ltd
Produced in the factory	Taicang
Product:	Air handling unit
Family Name:	CASE
The type of test sample:	CASE-T1TB1

2. Description of the model box

	Data of manufacture	Data of test station
Dimensions of model box(outside)	3712X1364X1058	3718X1376X1065
Number of access doors	2	2
Thickness of the side panel	70mm	70mm
Thickness of the bottom panel	70mm	70mm
Thickness of the roof panel	70mm	70mm
Thickness of the access door	70mm	70mm
Insulation material	PU	PU
Volume weight of the insulation	ρ =45kg/m^3	ρ =-kg/m^3
Coefficient of heat conductivity	λ =0,035W/(mK)	λ =-W/(mK)
Dimensions of the support frame	50/50mm	50/50mm

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The model box was sealed inside between the named parts with permanent elastically sealant.

Floor	⇔	Support frame	⇔	Side panel	⇔	no
Floor	⇔	Support frame	⇔	End wall	⇔	no
Middle web	⇔	Panel	⇔	Side panel	⇔	no
Middle web	⇔	Support frame	⇔	Floor	⇔	no
Middle web	⇔	Support frame	⇔	Roof	⇔	no
Side panel	⇔	Support frame	⇔	End wall	⇔	no
Roof	⇔	Support frame	⇔	Side panel	⇔	no
Roof	⇔	Support frame	⇔	End wall	⇔	no
Connection of the section	⇔	Connection of the section	⇔	Floor	⇔	yes
Connection of the section	⇔	Connection of the section	⇔	Roof	⇔	yes
Connection of the section	⇔	Connection of the section	⇔	Side panel	⇔	yes
Connection of the section	⇔	Panel	⇔	Side panel	⇔	no
Connection of the section	⇔	Panel	⇔	Roof	⇔	no
Connection of the section	⇔	Panel	⇔	Floor	⇔	no
Filter frame	⇔	Floor	⇔	-	⇔	yes
Filter frame	⇔	Roof	⇔	-	⇔	yes
Filter frame	⇔	Side panel	⇔	-	⇔	yes
Filter frame	⇔	Filter frame	⇔	-	⇔	yes

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Summary

The test of the mechanical performance of the model box
Model: CASE
Manufacture /supplier: Huber Ranner Environment Equipment (Taicang) Co., Ltd
According to EN 1886: 2007 were closed with the following results:

1. Thermal transmittance

	Data of the manufacture	Test results
Thermal transmittance U	-W/m^{2}K	0,47W/m^{2}K
Classification of the casing	T1	T1

2. Thermal bridging of the casing

	Data of the manufacturer	Test results
Thermal bridging factor kb	-	0,88
Classification of the casing	TB1	TB1

3. Mechanical strength of casing

	Data of the manufacturer	Test results
Deflection of the roof panel per meter at -1000Pa	-mm/m	0,59mm/m
Deflection of the roof panel per meter at +1000Pa	-mm/m	0,20mm/m
Permanent deflection of the roof panel at ±2500 Pa	-	None
Classification of the casing	D1	D1(M)

4. Casing air leakage (after determination of the strength of the casing)

	Data of the manufacturer	Test results
Air leakage rate at -400 Pa	- l/(sm^2)	0,14 l/(sm^2)
Air leakage rate at +700Pa	- l/(sm^2)	0,17 l/(sm^2)
Classification of the leakage	L1	L1(M)

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Engineer: _____ **Technical Report checked:** _____
«Liwei SUN» **«Zhisong CEHN»**

Annex:
Annex A: Temperatures of internal and external air of the model box
Annex B: Temperatures on the surface of the model box
Annex C: Detail of the construction of the unit(picture)

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