Product Service

1 Description of the test object

1.1 Function

Manufacturer's specification for intended use:
These appliances are air to water heat pump.
Manufacturer's specification for predictive use:
According to user manual

1.2 Consideration of the foreseeable use

- ☐ Not applicable
- ☑ Covered through the applied standard
- ☐ Covered by the following comment
- ☐ Covered by attached risk analysis

1.3 Technical Data

Model :	RS07V/L; RS08V/L
Rated Voltage (V) :	380-415V，3N~
Rated Frequency (Hz) :	50
Rated Power (W) :	2800
Rated Current (A) :	12.6
Protection Class :	Class I
Protection Against Moisture :	IP X4
Construction :	Stationary
Supply connection :	☐ Non detachable cord ☑ Permanent connection to fixed wiring
Operation mode:	☑ Continuous operation; ☐ Intermittent operation; ☐ Short time operation;
Refrigerant/charge (g) :	R32 /1300
Declared parameters :	☑ Average ☐ Warmer ☐ Colder
Sound power level dB(A) :	59
Series No :	SHSBW2209001 for RS07V/L

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Product Service

Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.015
Standby mode [P_{SB}]	kW	0.014
Crankcase heater [P_{CK}]	kW	0.000
Off mode [P_{OFF}]	kW	0.014

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.82
SCOP:	kWh/kWh	4.82
Q_H:	kWh/year	13969
Q_{HE}:	kWh/year	2898
$\eta_{s,h}$	%	189.8
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

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Crankcase heater [P_{CK}]	kW	0.000
Off mode [P_{OFF}]	kW	0.014

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.52
SCOP:	kWh/kWh	3.52
Q_H:	kWh/year	14128
Q_{HE}:	kWh/year	4019
$\eta_{s,h}$	%	137.6
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A++

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Appendix I Test results

Table 3a.	Sound power level measurement(Medium temperature application)		P
Model	RS07V/L		
	Product type :		Air to Water
	Outdoor heat exchanger, Air temperature DB/WB (°C):		7.0 /6.0
	Indoor heat exchanger, Water inlet/outlet temperature (°C):		47.0 /55.0
	Voltage (V):		400.1
	Frequency (Hz):		50
	Working condition class :		Class A
	Acoustical environment :		Hemi-anechoic room
	Windshield type :		Sponge
	Measured position amount :		14
	Water flow (m^3/h):		0.80
Measured quantity	**$L_{WA,indoors}$ (dB(A))**	**$L_{WA,outdoors}$ (dB(A))**	**Remark**
Sound pressure level $\overline{L}_{p(ST)}$****	--	44	--
Spheres radius d *	--	1.0m	--
Sound power level L_{wA}****	--	59	--
Setting of controls: according to user manual. Duct connection:-- Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer Fan speed: 425 r/min, compressor speed: 80Hz.			

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