



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 : RS10V/L; RS12V/L
Rated Voltage (V) : 380-415V, 3N~
Rated Frequency (Hz) : 50
Rated Power (W) : 7700
Rated Current (A) : 16.0
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 /1800
Declared parameters : Average Warmer Colder
Sound power level dB(A) : 64
Series No : SHSBW2209002 for RS10V/L

Doc No.: ITC-TTW0902.02E – Rev.11

Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.016
Standby mode [P_{SB}]	kW	0.016
Crankcase heater [P_{CK}]	kW	0.000
Off mode [P_{OFF}]	kW	0.016
Conclusions:	Unit	Value
SCOP _{on} :	kWh/kWh	4.66
SCOP:	kWh/kWh	4.66
Q_H :	kWh/year	20787
Q_{HE} :	kWh/year	4464
$\eta_{s,h}$	%	183.3
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)	--	A+++

Appendix I Test results

Electric power consumptions	Unit	Value
Thermostat-off mode [P_{TO}]	kW	0.016
Standby mode [P_{SB}]	kW	0.016
Crankcase heater [P_{CK}]	kW	0.000
Off mode [P_{OFF}]	kW	0.016

Conclusions:	Unit	Value
SCOP _{on} :	kWh/kWh	3.55
SCOP:	kWh/kWh	3.55
Q_{H} :	kWh/year	22535
Q_{HE} :	kWh/year	6346
$\eta_{s,h}$	%	139.1
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)	--	A++

Appendix I Test results

Table 3a.	Sound power level measurement(Medium temperature application)		P
Model	RS10V/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):	399.2	
	Frequency (Hz):	50	
	Working condition class :	Class A	
	Acoustical environment :	Hemi-anechoic room	
	Windshield type :	Sponge	
	Measured position amount :	14	
	Water flow (m³/h):	1.16	
	Measured quantity	L_{WA,indoors} (dB(A))	L_{WA,outdoors} (dB(A))
	Sound pressure level L _{p(ST)} ****	--	49
	Spheres radius d *	--	1.0m
	Sound power level L _{WA} ****	--	64
Setting of controls: according to user manual. Duct connection:-- Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer Fan speed: 598 r/min, compressor speed: 70Hz.			