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NIBE

AMS 10-12P + SHB 20-12 EM

	55 °C	35 °C
A+++		
A++	A++	A++
A+		
A		
B		
C		
D		

35 dB

58 dB

	55 °C	35 °C
	13	12
	10	**12**
	12 kW	12 kW

2019

811/2013

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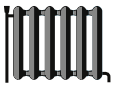
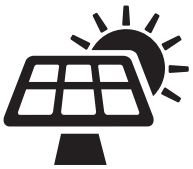
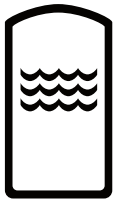
AMS 10-12P + SHB 20-12 EM



A++

+  ☐

+  ☐

+  ☒

+  ☐

A+++
A++
A+
A
B
C
D
E
F
G

A++

2015

811/2013

Supplier's name:	NIBE AB		
Model:	AMS 10-12P + SHB 20-12 EM		
Temperature application	35	55	°C
Declared load profile for water heating			
Seasonal space heating energy efficiency class, average climate:	**A++**	**A++**	
Water heating energy efficiency class, average climate:			
Rated heat output, average climate:	12	10	kW
Annual energy consumption for space heating, average climate	5361	6137	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	174	132	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	12	13	kW
Rated heat output, warm climate:	12	12	kW
Annual energy consumption for space heating, cold climate	7920	11461	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	2765	3445	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	140	109	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	229	183	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	58		dB

Data for package fiche

Controller class	CLASS VI		
Controler contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	178	136	%
Seasonal space heating energy efficiency class for package, average climate:	**A+++**	**A++**	%
Seasonal space heating energy efficiency of package, cold climate:	144	113	%
Seasonal space heating energy efficiency of package, warm climate:	233	187	%

Model(s):		**AMS 10-12P + SHB 20-12 EM**						
Type of heat source/sink:		Air/water						
Low-temperature heat pump:		No						
Equipped with supplementary heater:		Yes						
Heat pump combination heater:		No						
Climate condition:		Average						
Temperature application:		Medium temperature (55 °C)						
Applied standards: EN 14825:2022, EN 12102-1:2022								
Rated heat output	Prated	10,0	kW		**Seasonal space heating energy efficiency**	η_s	132	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
Tj = -7 °C	Pdh	8,9	kW		Tj = -7 °C	COPd	1,99	
Tj = +2 °C	Pdh	5,5	kW		Tj = +2 °C	COPd	3,22	
Tj = +7 °C	Pdh	3,6	kW		Tj = +7 °C	COPd	4,61	
Tj = +12 °C	Pdh	5,0	kW		Tj = +12 °C	COPd	6,91	
Tj = biv	Pdh	9,2	kW		Tj = biv	COPd	1,90	
Tj = TOL	Pdh	8,1	kW		Tj = TOL	COPd	1,92	
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		
Bivalent temperature	T_{biv}	-8	°C		Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW		Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	0,98	-		Heating water operating limit	WTOL	58	°C
Power consumption in modes other than active mode					*Supplementary heater*			
Off mode	P_{OFF}	0,002	kW		Rated heat output	Psup	1,9	kW
Thermostat-off mode	P_{TO}	0,014	kW					
Standby mode	P_{SB}	0,015	kW		Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0,035	kW					
Other items								
Capacity control	Variable				Rated air flow rate, outdoors		4380	m^3/h
Sound power level, indoors/outdoors	L_{WA}	35/58	dB		Rated water flow rate, indoor heat exchanger		0,86	m^3/h
Annual energy consumption	Q_{HE}	6137	kWh		Rated brine or water flow rate, outdoor heat exchanger			m^3/h
For heat pump combination heater:								
Declared load profile					**Water heating energy efficiency**	η_{wh}		%
Daily electricity consumption	Q_{elec}		kWh		Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC		kWh		Annual fuel consumption	AFC		GJ
Contact details	**© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden**							