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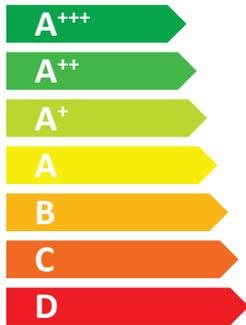


AMS 10-12 + SHB20-12



55 °C

35 °C



35 dB



58 dB

13
10
12

kW

12
12
12

kW



2019

811/2013



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IJA

IE

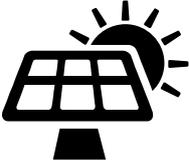
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NIBE

AMS10-12 + SHB20-12






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Supplier's name:	NIBE AB		
Model:	NIBE AMS 10-12 + SHB 20-12		
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	5343	6110	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	175	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	7898	11433	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	2755	3420	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	141	109	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	230	184	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	58		dB

Data for package fiche

Controller class	CLASS VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	179	136	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	145	113	%
Seasonal space heating energy efficiency of package, warm climate:	234	188	%

Model(s):		NIBE AMS 10-12 + SHB 20-12							
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	%
<i>Declared capacity for part load at outdoor temperature Tj</i>				<i>Declared coefficient of performance for part load at outdoor temperature Tj</i>					
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		
Cycling interval capacity for heating				P _{cyh}		kW	Cycling interval efficiency		
Degradation co-efficient				Cdh	0,98	-	Heating water operating limit		
							TOL	-10	°C
							COP _{cyh}		-
							WTOL	58	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>					
Off mode	P _{OFF}	0,002	kW	Rated heat output		P _{sup}	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						
<i>Other items</i>									
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}	6110	kWh	Rated brine or water flow rate, outdoor heat exchanger				m ³ /h	
<i>For heat pump combination heater:</i>									
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							