



**ENERG**  
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**NIBE**

AMS10-16+HBS05



55 °C

35 °C



**A++**

**A++**



dB



**58** dB

■ 16  
■ 14  
■ 15

kW

■ 15  
■ 15  
■ 15

kW

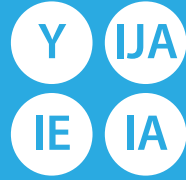


2015

811/2013

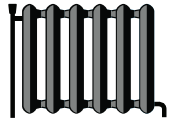


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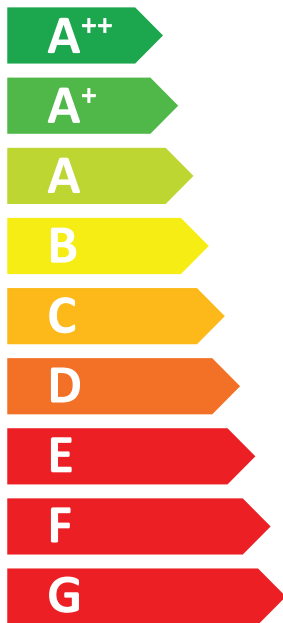
AMS10-16 + HBS05 + VVM310



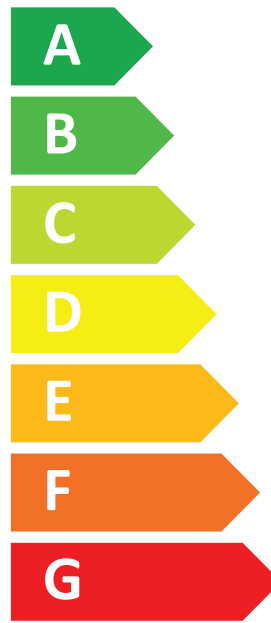
55°C



XL



**A++**



**A**

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text "35 dB". The bottom icon shows a speaker outside a house with the text "58 dB".



A legend for power consumption in kW, shown as colored squares: dark blue for 16 kW, medium blue for 14 kW, and light blue for 15 kW.



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Y

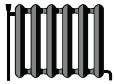
IJA

IE

IA

**NIBE**

## AMS10-16+HBS05



35 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

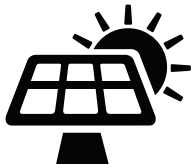
D

E

F

G

+



+



+



+





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Y

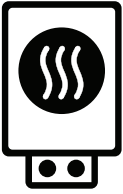




IJA

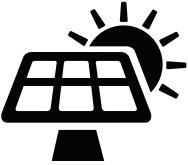
IE


IA


**NIBE**


## AMS10-16 + HBS05 + VVM310

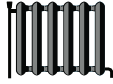






+ 






+ 

+ 

+ 




55 °C

Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE AMS10-16+HBS05+VVM310</b>		
Temperature application	<b>35</b>	<b>55</b>	°C
Declared load profile for water heating	<b>XL</b>		
Seasonal space heating energy efficiency class, average climate:	<b>A++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:	<b>A</b>		
Rated heat output, average climate:	14,5	14,0	kW
Annual energy consumption for space heating, average climate	6702	8431	kWh
Annual electricity consumption for water heating, average climate	1702		kWh
Seasonal space heating energy efficiency, average climate:	176	134	%
Water heating energy efficiency, average climate:	98		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	15,0	16,0	kW
Rated heat output, warm climate:	15,0	15,0	kW
Annual energy consumption for space heating, cold climate	10040	13629	kWh
Annual electricity consumption for water heating, cold climate	1904		kWh
Annual energy consumption for space heating, warm climate	3370	4183	kWh
Annual electricity consumption for water heating, warm climate	1551		kWh
Seasonal space heating energy efficiency, cold climate:	144	113	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	235	189	%
Water heating energy efficiency, warm climate:	108		%
Sound power level LWA outdoors	61		dB

#### Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	180	138	%
Seasonal space heating energy efficiency class for package, average climate:	<b>A+++</b>	<b>A++</b>	%
Seasonal space heating energy efficiency of package, cold climate:	148	117	%
Seasonal space heating energy efficiency of package, warm climate:	239	193	%

<b>Model(s):</b>		<b>NIBE AMS10-16+HBS05+VVM310</b>										
Type of heat source/sink:		Air-to-water										
Low-temperature heat pump:		No										
Equipped with supplementary heater:		Yes										
Heat pump combination heater:		Yes										
Climate condition:		Average										
Temperature application:		Medium temperature (55 °C)										
Applied standards: EN14825 and EN16147												
<b>Rated heat output</b>		Prated	14,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	134	%			
<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	12,5	kW	Tj = -7 °C	COPd	2,01	-					
Tj = +2 °C	Pdh	7,6	kW	Tj = +2 °C	COPd	3,29	-					
Tj = +7 °C	Pdh	4,9	kW	Tj = +7 °C	COPd	4,68	-					
Tj = +12 °C	Pdh	6,8	kW	Tj = +12 °C	COPd	6,51	-					
Tj = biv	Pdh	12,7	kW	Tj = biv	COPd	1,95	-					
Tj = TOL	Pdh	11,0	kW	Tj = TOL	COPd	1,95	-					
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-					
Bivalent temperature				T <sub>biv</sub>	-7,6	°C	Operation limit temperature			TOL	-10	°C
Cycling interval capacity for heating				P <sub>cyc</sub>		kW	Cycling interval efficiency			COP <sub>cyc</sub>		-
Degradation co-efficient				C <sub>dh</sub>	0,98	-	Heating water operating limit			WTOL	58	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>								
Off mode				P <sub>OFF</sub>	0,002	kW	Rated heat output		P <sub>sup</sub>	3,0	kW	
Thermostat-off mode				P <sub>TO</sub>	0,016	kW						
Standby mode				P <sub>SB</sub>	0,015	kW	Type of energy input		Electric			
Crankcase heater mode				P <sub>CK</sub>	0,035	kW						
<i>Other items</i>												
Capacity control				variable								
Sound power level, indoors/outdoors				L <sub>WA</sub>	35/58	dB	Rated air flow rate, outdoors			6000	m <sup>3</sup> /h	
Annual energy consumption				Q <sub>HE</sub>	8431	kWh	Rated water flow rate, indoor heat exchanger			1,21	m <sup>3</sup> /h	
							Rated brine or water flow rate, outdoor heat exchanger				m <sup>3</sup> /h	
<i>For heat pump combination heater:</i>												
<b>Declared load profile</b>				<b>XL</b>				<b>Water heating energy efficiency</b>		$\eta_{wh}$	98	%
Daily electricity consumption				Q <sub>elec</sub>	7,75	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh	
Annual electricity consumption				AEC	1702	kWh	Annual fuel consumption		AFC		GJ	
<b>Approved by:</b>												
<b>Contact details</b>				© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden								