



**ENERG**  
енергия · ενεργεια



**NIBE**

AMS10-12



55 °C

35 °C



**A++**

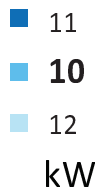
**A++**



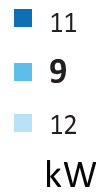
**35** dB



**58** dB



kW



kW



2015

811/2013



**ENERG**  
енергия · ενεργεια

Y IJA  
IE IA

**NIBE**

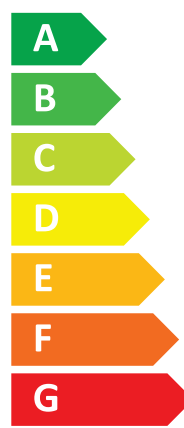
AMS10-12 + ACVM270

 55°C

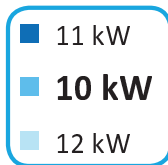
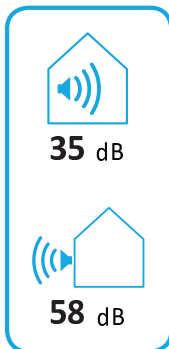
 XL



**A++**



**A**



2015

811/2013



# ENERG

енергия · ενεργεια

Y

IJA

IE

IA

**NIBE**

## AMS10-12

 35 °C



**A<sup>++</sup>**

**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

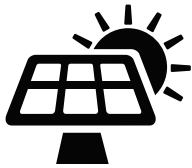
**D**

**E**

**F**

**G**

+



+



+



+





# ENERG

енергия · ενέργεια

Y

IJA

IE

IA

**NIBE**

## AMS10-12 + ACVM270

**A<sup>++</sup>**

**A**

+

+

+

+

55 °C

**A<sup>++</sup>**


XL

**A**

Supplier's name:	<b>NIBE</b>		
Model:	<b>AMS10-12 + ACVM270</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:	8,5	10,0	kW
Annual energy consumption for space heating, average climate	4132	6406	kWh
Annual electricity consumption for water heating, average climate	1702		kWh
Seasonal space heating energy efficiency, average climate:	167	126	%
Water heating energy efficiency, average climate:	98		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	11,0	11,0	kW
Rated heat output, warm climate:	12,0	12,0	kW
Annual energy consumption for space heating, cold climate	7968	9794	kWh
Annual electricity consumption for water heating, cold climate	1904		kWh
Annual energy consumption for space heating, warm climate	2759	3424	kWh
Annual electricity consumption for water heating, warm climate	1551		kWh
Seasonal space heating energy efficiency, cold climate:	133	108	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	229	184	%
Water heating energy efficiency, warm climate:	108		%
Sound power level LWA outdoors	58		dB

#### Data for package fiche

Controller class	<b>II</b>		
Controller contribution to efficiency	2,0		%
Seasonal space heating energy efficiency of package, average climate:	169	128	%
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:	135	110	%
Seasonal space heating energy efficiency of package, warm climate:	231	186	%

<b>Model(s):</b>				<b>AMS 10-12 +ACVM270</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	10,0	kW		<b>Seasonal space heating energy efficiency</b>				
								$\eta_s$	126	%		
<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	6,7	kW		Tj = -7 °C	COPd	1,96	-				
Tj = +2 °C	Pdh	5,4	kW		Tj = +2 °C	COPd	3,22	-				
Tj = +7 °C	Pdh	3,5	kW		Tj = +7 °C	COPd	4,47	-				
Tj = +12 °C	Pdh	3,9	kW		Tj = +12 °C	COPd	5,45	-				
Tj = biv	Pdh	7,7	kW		Tj = biv	COPd	2,31	-				
Tj = TOL	Pdh	6,7	kW		Tj = TOL	COPd	1,94	-				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-				
Bivalent temperature				T <sub>biv</sub>	-3,9	°C		Operation limit temperature				
Cycling interval capacity for heating				P <sub>cyc</sub>		kW		Cycling interval efficiency				
Degradation co-efficient				C <sub>dh</sub>	0,98	-		Heating water operating limit				
								TOL	-10	°C		
								COP <sub>cyc</sub>		-		
								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>	3,3	kW	
Thermostat-off mode	P <sub>TO</sub>	0,014	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			Rated air flow rate, outdoors					4380	m <sup>3</sup> /h		
Sound power level, indoors/outdoors	L <sub>WA</sub>	35/58	dB		Rated water flow rate, indoor heat exchanger					0,86	m <sup>3</sup> /h	
Annual energy consumption	Q <sub>HE</sub>	6406	kWh		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>				XL				<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								