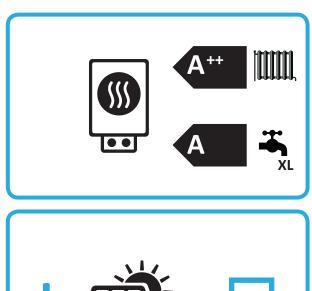


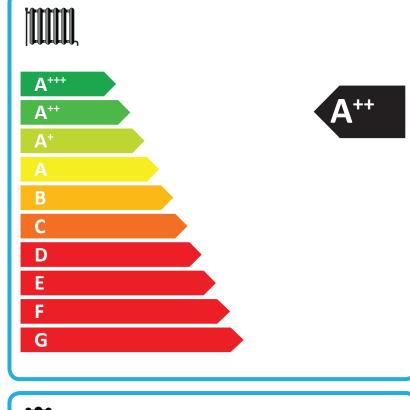


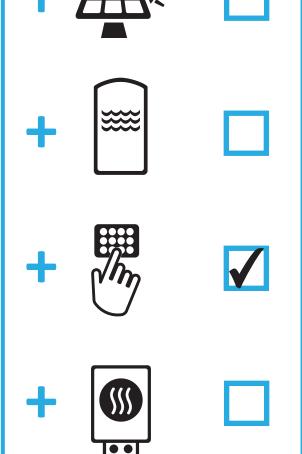
## ENERG Y UA ehepгия · ενεργεια (Ε) (Α)

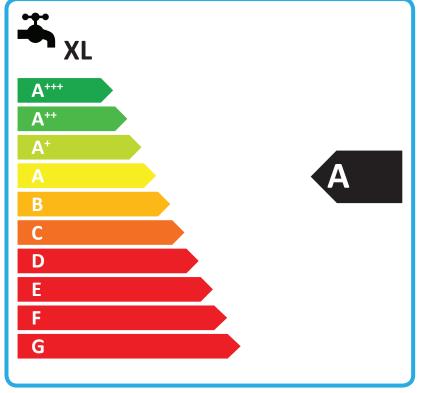


AMS10-16 + HBS05 + VVM310









Supplier's name:	NI		
Model:	NIBE AMS10-16		
Temperature application	35	55	°C
Declared load profile for water	XL		
heating	•	·-	
Seasonal space heating energy	A+++	A++	
efficiency class, average climate:	AII.	All	
Water heating energy efficiency		A	
class, average climate:			
Rated heat output, average climate:	14,5	14,0	kW
Annual energy consumption for	.=	0.404	
space heating, average climate	6702	8431	kWh
Annual electricity consumption for	4700		1.3471
water heating, average climate	17	702	kWh
Seasonal space heating energy			
efficiency, average climate:	176	134	%
Water heating energy efficiency,	00		0/
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	10040	13629	kWh
space heating, cold climate	10040	13023	KVVII
Annual electricity consumption for	1904		kWh
water heating, cold climate	1304		KVVII
Annual energy consumption for	3370	4183	kWh
space heating, warm climate		1.00	1
Annual electricity consumption for	1551		kWh
water heating, warm climate Seasonal space heating energy			
efficiency, cold climate:	144	113	%
Water heating energy efficiency,			
cold climate:	88		%
Seasonal space heating energy	•	,	6.
efficiency, warm climate:	235	189	%
Water heating energy efficiency,	100		0/
warm climate:	108		%
Sound power level LWA outdoors	6	dB	

## Data for package fiche

Controller class	V		
Controler 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:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	148	117	%
Seasonal space heating energy efficiency of package, warm climate:	239	193	%

Model(s):	NIBE AMS10-16+HBS05+VVM310 Air-to-water		
Type of heat source/sink:			
Low-temperature heat pump:	No		
Equipped with supplementary heater:	Yes		
Heat pump combination heater:	Yes		
Climate condition:	Average		
Temperature application:	Medium temperature (55 °C)		
Temperature application:	ivieuium temperature		



Applied standards: EN14825 and EN16147							
				Seasonal space heating energy			
Rated heat output	Prated	14,0	kW	efficiency	$\eta_{s}$	134	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for part	load at outdo	or temperat	ure Tj
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	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 <sub>OFF</sub>	0,002	kW	Rated heat output	Psup	3,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,016	kW				
Standby mode	$P_{SB}$	0,015	kW	Type of energy input	Electric		
Crankcase heater mode	P <sub>CK</sub>	0,035	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors		6000	m³/h
				Rated water flow rate, indoor heat			
Sound power level, indoors/outdoors	$L_{WA}$	35/58	dB	exchanger		1,21	m³/h
				Rated brine or water flow rate,			
Annual energy consumption	$Q_{HE}$	8431	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	$\eta_{\text{wh}}$	98	%
Daily electricity consumption	Q <sub>elec</sub>	7,75	kWh	Daily fuel consumption	$Q_{\text{fuel}}$		kWh
Annual electricity consumption	AEC	1702	kWh	Annual fuel consumption	AFC		GJ
Approved by:	ALC	1702	KVVII	Annual fuel consumption	AIC		O)
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