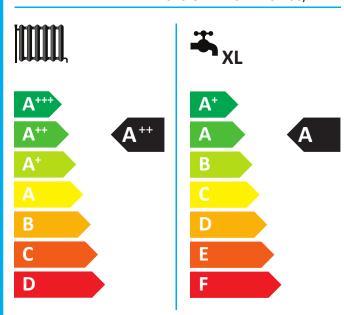


NIBE

AMS10-8 + BA-SVM10-200/12 E





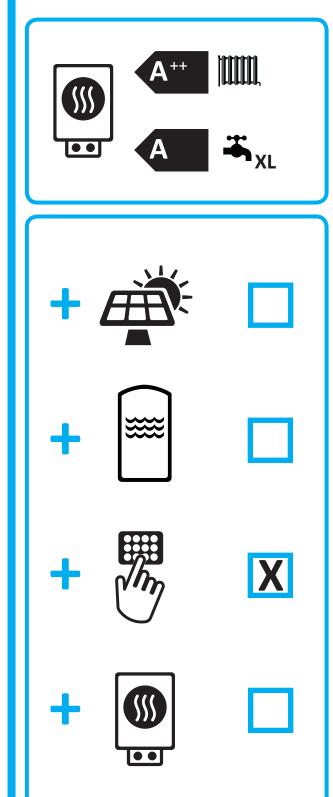
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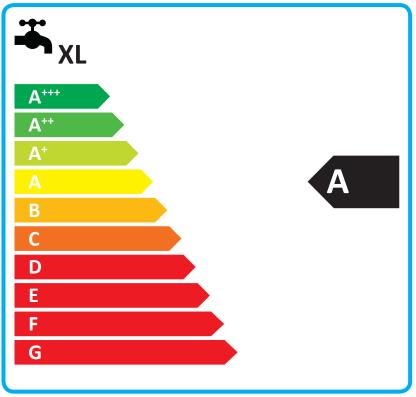
ENERG Y UA ehepγua · ενεργεια (Ε) (Α)

NIBE

AMS10-8 + BA-SVM10-200/12 E







2015

Supplier's name:	NIB		
Model:	AMS10-8 + BA-	SVM10-200/12 E	
Temperature application	35	55	°C
Declared load profile for water)	XL	
heating	•		
Seasonal space heating energy	A++	A++	
efficiency class, average climate:	ATT	ATT	
Water heating energy efficiency		Α	
class, average climate:		<u> </u>	
Rated heat output, average climate:	8,2	7,0	kW
Annual energy consumption for	3882	4447	kWh
space heating, average climate	3002	4447	KVVII
Annual electricity consumption for	14	689	kWh
water heating, average climate		000	IXVVII
Seasonal space heating energy	172	127	%
efficiency, average climate:	172	127	70
Water heating energy efficiency,		99	%
average climate:			, ,
Sound power level LWA indoors		35	dB
Rated heat output, cold climate:	9,0	10,0	kW
Rated heat output, warm climate:	8,0	8,0	kW
Annual energy consumption for	6264	8844	kW h
space heating, cold climate	0204	0044	KVVII
Annual electricity consumption for	18	386	kWh
water heating, cold climate	10		KVVII
Annual energy consumption for	1879	2333	kWh
space heating, warm climate	1070	2000	IXVVII
Annual electricity consumption for	15	540	kWh
water heating, warm climate		 -	
Seasonal space heating energy	139	108	%
efficiency, cold climate:			
Water heating energy efficiency, cold climate:		89	%
Seasonal space heating energy		1	
efficiency, warm climate:	225	180	%
Water heating energy efficiency,			
warm climate:	1	09	%
Sound power level LWA outdoors		 55	dB

Data for package fiche

Controller class	V	/	
Controller contribution to efficiency	4,	,0	%
Seasonal space heating energy efficiency of package, average climate:	176	131	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	143	112	%
Seasonal space heating energy efficiency of package, warm climate:	229	184	%

Model(s):	AMS10-8 + BA-SVM10-200/12 E
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: EN11400E EN116147	

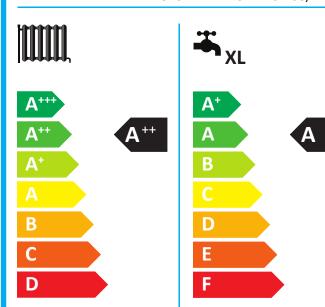


Applied standards: EN14825, EN16147		ivie	ululli tei	iperature (55°C)			
7. ppilod stalldards. 2141 1020, 214101 17	1			Seasonal space heating energy			Ī
Rated heat output	Prated	7,0	kW	efficiency	η_{s}	127	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for part	load at outdoo	or temperati	ure Tj
Tj = -7 °C	Pdh	6,3	kW	Tj = -7 °C	COPd	1,94	-
Tj = +2 °C	Pdh	3,9	kW	Tj = +2 °C	COPd	3,11	-
Tj = +7 °C	Pdh	2,6	kW	Tj = +7 °C	COPd	4,42	-
Tj = +12 °C	Pdh	3,7	kW	Tj = +12 °C	COPd	5,93	-
Tj = biv	Pdh	6,6	kW	Tj = biv	COPd	1,83	-
Tj = TOL	Pdh	5,9	kW	Tj = TOL	COPd	1,86	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 $^{\circ}$ C (if TOL < -20 $^{\circ}$ C)	COPd		-
Bivalent temperature	T _{biv}	-8,6	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	<u> </u>	kW	Cycling interval efficiency	COPcyc		
Degradation co-efficient	Cdh	0,97	-	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	1,1	kW
Thermostat-off mode	P _{TO}	0,01	kW		_		
Standby mode	P_SB	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,03	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors		3000	m³/h
Sound power level, indoors/outdoors	L _{WA}	35/55	dB	Rated water flow rate, indoor heat exchanger		0,60	m³/h
·	WA			Rated brine or water flow rate,			
Annual energy consumption	Q _{HE}	4447	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:	•			•			
Declared load profile		XL		Water heating energy efficiency	η_{wh}	99	%
	_						_
Daily electricity consumption	Q_{elec}	7,69	kWh	Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	1689	kWh	Annual fuel consumption	AFC		GJ
Approved by:							
Contact details	© NIBE E	nergy Syst	tems - B	ox 14 - Hannabadsvägen 5 - 28521 Markan	/d - Sweder		
·				-			



NIBE

AMS10-12 + BA-SVM10-200/12 E





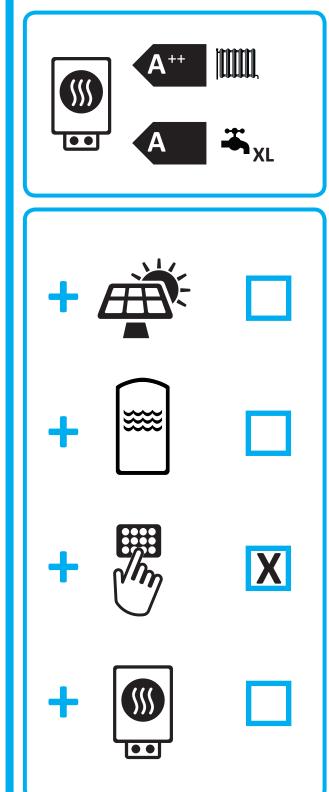
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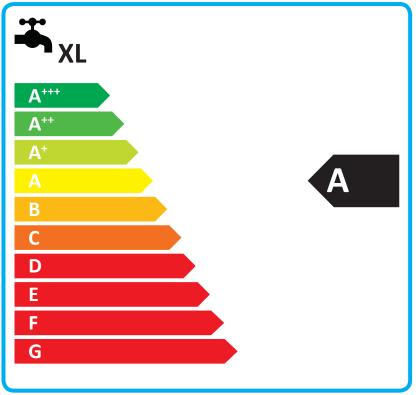
ENERG Y UA EHEPΓИЯ · ενεργεια II (IA)

NIBE

AMS10-12 + BA-SVM10-200/12 E







Supplier's name:	NIBI	E	
Model:	AMS10-12 + BA	-SVM10-200/12 E	
Temperature application	35	55	°C
Declared load profile for water)	(L	
heating		\ _	
Seasonal space heating energy	A++	A++	
efficiency class, average climate:	ATT	ATT	
Water heating energy efficiency		A	
class, average climate:	•	<u> </u>	
Rated heat output, average climate:	11.5	10,0	kW
Annual energy consumption for	5382	6136	kWh
space heating, average climate	3302	0130	KVVII
Annual electricity consumption for	17	702	kWh
water heating, average climate	17	02	KVVII
Seasonal space heating energy	171	122	0/
efficiency, average climate:	174	132	%
Water heating energy efficiency,		98	%
average climate:			, ,
Sound power level LWA indoors		35	dB
Rated heat output, cold climate:	11,5	13,0	kW
Rated heat output, warm climate:	12,0	12,0	kW
Annual energy consumption for	7798	11197	kWh
space heating, cold climate	1190	11197	KVVII
Annual electricity consumption for	10	04	kWh
water heating, cold climate	19	-04	KVVII
Annual energy consumption for	2759	3419	kWh
space heating, warm climate	2100	3413	KVVII
Annual electricity consumption for	1551		kWh
water heating, warm climate			
Seasonal space heating energy	142	111	%
efficiency, cold climate:			
Water heating energy efficiency,	8	38	%
cold climate: Seasonal space heating energy			
efficiency, warm climate:	229	185	%
Water heating energy efficiency,		<u>I</u>	+
warm climate:	1	08	%
Sound power level LWA outdoors	Ę	58	dB

Data for package fiche

Controller class	V	/	
Controller 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:	146	115	%
Seasonal space heating energy efficiency of package, warm climate:	233	189	%

Model(s):	AMS10-12 + BA-SVM10-200/12 E
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: EN1/1925 EN1/61/7	•



Declared capacity for part load at outdoor temperatur Tj = -7 °C P Tj = +2 °C P Tj = +7 °C P Tj = +12 °C P Tj = biv P Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature Cycling interval capacity for heating P Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Cyching interval capacity for heating P Cycling interval capacity for heating P Cyc	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Cych	8,9 5,5 3,5 5,0 9,2 8,1 -7,9 0,98	kW kW kW kW kW kW c°C kW	efficiency Declared coefficient of performance for part Tj = -7 °C Tj = +2 °C Tj = +7 °C Tj = +12 °C Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater Rated heat output	η _s load at outdoo COPd Psup	132 r temperatu 1,99 3,22 4,61 6,25 1,90 1,92 -10 58	
Tj = -7 °C P Tj = +2 °C P Tj = +2 °C P Tj = +7 °C P Tj = +12 °C P Tj = biv P Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating P Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Cyching interval capacity for heating P Cycling interval capacity for heating P C	Pdh	5,5 3,5 5,0 9,2 8,1 -7,9 0,98	kW kW kW kW kW °C kW	Tj = -7 °C Tj = +2 °C Tj = +7 °C Tj = +7 °C Tj = +12 °C Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd COPd COPd COPd COPd COPd COPd	1,99 3,22 4,61 6,25 1,90 1,92 -10	- - - - - - - -
Tj = +2 °C P Tj = +7 °C P Tj = +7 °C P Tj = +12 °C P Tj = biv P Tj = TOL Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating P Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	Pdh	5,5 3,5 5,0 9,2 8,1 -7,9 0,98	kW kW kW kW kW °C kW	Tj = +2 °C Tj = +7 °C Tj = +12 °C Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd COPd COPd COPd COPd COPd COPd	3,22 4,61 6,25 1,90 1,92 -10	- - - - - -
Tj = +7 °C P Tj = +12 °C P Tj = +12 °C P Tj = biv P Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating P Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode P Standby mode F Crankcase heater mode F Other items Capacity control	Pdh Pdh Pdh Pdh Pdh Pdh Cych Cdh Poff Poff	3,5 5,0 9,2 8,1 -7,9 0,98	kW kW kW kW c°C kW	Tj = +7 °C Tj = +12 °C Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd COPd COPd COPd COPd COPd COPd	4,61 6,25 1,90 1,92 -10	- - - - - -
Tj = +12 °C P Tj = biv P Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating P Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	Pdh Pdh Pdh Pdh Tbiv cych Cdh Poff Poff	5,0 9,2 8,1 -7,9 0,98	kW kW kW kW °C kW	Tj = +12 °C Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd COPd COPd TOL COPcyc WTOL	6,25 1,90 1,92 -10	- - - - °C
Tj = biv P Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating Pc Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	Pdh Pdh Pdh T _{biv} cych Cdh Poff	9,2 8,1 -7,9 0,98	kW kW kW °C kW	Tj = biv Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd COPd TOL COPcyc WTOL	1,90 1,92 -10 58	- - - °C - °C
Tj = TOL P Tj = -15 °C (if TOL < -20 °C) P Bivalent temperature T Cycling interval capacity for heating Portion of the property of the propert	Pdh Pdh T _{biv} cych Cdh P P _{TO}	-7,9 0,98	kW kW °C kW -	Tj = TOL Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	COPd COPd TOL COPcyc WTOL	-10 58	- - °C - °C
Tj = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Power consumption in modes other than active mode Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control	Pdh T _{biv} cych Cdh P _{OFF} P _{TO}	-7,9 0,98 0,002	°C kW -	Tj = -15 °C (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	TOL COPcyc WTOL	-10 58	- °C
Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Cycling interval capacity for heating Degradation co-efficient Cycling interval capacity for heating Cycling interval capacity interval capacity Cycling interval capacity for heating Cycling interval capacity for h	T _{biv} cych Cdh P _{OFF} P _{TO}	0,98	°C kW -	Operation limit temperature Cycling interval efficiency Heating water operating limit Supplementary heater	TOL COPcyc WTOL	58	°C - °C
Cycling interval capacity for heating Degradation co-efficient C Power consumption in modes other than active mode Off mode P Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	cych Cdh P _{OFF} P _{TO}	0,98	kW - kW	Cycling interval efficiency Heating water operating limit Supplementary heater	COPcyc WTOL	58	- °C
Cycling interval capacity for heating Poperadation co-efficient Consumption in modes other than active mode Off mode Poperadation for mode Poperadation in modes other than active mode Off mode Poperadation for modes of modes Poperadation for modes of modes Poperadation for modes other than active mode Poperadation for modes other than active modes of mode	cych Cdh P _{OFF} P _{TO}	0,002	- kW	Heating water operating limit Supplementary heater	WTOL		
Power consumption in modes other than active mode Off mode P Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control	P _{OFF}	0,002	kW	Supplementary heater			
Off mode P Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	P _{OFF}	-	1	· · · · · · · · · · · · · · · · · · ·	Psup	1.9	LAM
Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control	P _{TO}	-	1	Rated heat output	Psup	1.9	14147
Thermostat-off mode F Standby mode F Crankcase heater mode F Other items Capacity control	P _{TO}	0,014	۲ /۸/			-,-	kW
Crankcase heater mode Other items Capacity control	P _{SB}		ΚVV				
Other items Capacity control		0,015	kW	Type of energy input		Electric	
Capacity control	P _{CK}	0,035	kW				
Sound power level, indoors/outdoors L	,	variable		Rated air flow rate, outdoors		4380	m³/h
	L _{wa}	35/58	dB	Rated water flow rate, indoor heat exchanger		0,86	m³/h
				Rated brine or water flow rate,			
Annual energy consumption C	Q _{HE}	6136	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption O	Q _{elec}	7,75	kWh	Daily fuel consumption	Q_{fuel}		kWh
	AEC	1702	kWh	Annual fuel consumption	AFC		GJ
Approved by:					🧸		