



ENERG енергия · ενεργεια



AMS20-6 + SHB20-6



























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Supplier's name:	NIBE AB		
Model:	NIBE AMS 20-	NIBE AMS 20-6 + SHB 20-6	
Temperature application	35	55	°C
Declared load profile for water			
heating			
Seasonal space heating energy	A+++	A++	
efficiency class, average climate:	Аттт	ATT	
Water heating energy efficiency			
class, average climate:			
	5	6	kW
Rated heat output, average climate:		-	
Annual energy consumption for	2116	3250	kWh
space heating, average climate			
Annual electricity consumption for			kWh
water heating, average climate		T	
Seasonal space heating energy	200	139	%
efficiency, average climate:			
Water heating energy efficiency,			%
average climate:	0.5	_	
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	6	6	kW
Rated heat output, warm climate:	6	5	kW
Annual energy consumption for	3486	3486 4604	
space heating, cold climate			kWh
Annual electricity consumption for			kWh
water heating, cold climate		T	
Annual energy consumption for	1110	1617	kWh
space heating, warm climate	-		
Annual electricity consumption for			kWh
water heating, warm climate		T	
Seasonal space heating energy	161	119	%
efficiency, cold climate:			
Water heating energy efficiency, cold			%
climate:		T	
Seasonal space heating energy	265	178	%
efficiency, warm climate:			
Water heating energy efficiency,			%
warm climate:			
Sound power level LWA outdoors	54	1	dB

Data for package fiche

Controller class	CLAS	S VI	
Controler contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	204	143	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	165	123	%
Seasonal space heating energy efficiency of package, warm climate:	269	182	%

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Model(s):	NIBE AMS 20-6 + SHB 20-6			
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				
	Seasonal space heating			



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Declared capacity for part load at outdoor temperature T_1 : $T_1 = -7 ^{\circ}\text{C}$ $T_2 = -7 ^{\circ}\text{C}$ $T_3 = -7 ^{\circ}\text{C}$ $T_4 = -7 ^{\circ}\text{C}$ $T_4 = -7 ^{\circ}\text{C}$ $T_5 = -7 ^{\circ}\text{C}$ T								
Tj = -7 °C	Rated heat output	Prated	5,6	kW	efficiency	η_{s}	139	%
$ T_j = +2 ^\circ C \\ T_j = +7 ^\circ C \\ T_j = +7 ^\circ C \\ Pdh & 1,9 \\ T_j = +12 ^\circ C \\ Pdh & 1,7 \\ T_j = +12 ^\circ C \\ Pdh & 1,7 \\ T_j = +12 ^\circ C \\ Pdh & 1,7 \\ T_j = +12 ^\circ C \\ Pdh & 1,7 \\ T_j = 10 ^\circ C \\ Pdh & 1,7 \\ T_j = 10 ^\circ C \\ Pdh & 1,7 \\ Pdh & 1,7 \\ T_j = 10 ^\circ C \\ Pdh & 1,7 \\ Pdh &$	Declared capacity for part load at outdoor tem	perature Tj			Declared coefficient of performance for part	t load at outdo	or temperatu	re Tj
Tj = +7 °C Pdh 1,9 kW Tj = +12 °C Pdh 1,7 kW Tj = biv Pdh 5,0 kW Tj = TOL Pdh 4,6 kW Tj = TOL COPd 1,95 Tj =	Tj = -7 °C	Pdh	5,0	kW	Tj = -7 °C	COPd	1,95	
Tj = +12 °C Pdh 1,7 kW Tj = biv Pdh 5,0 kW Tj = TOL Pdh 4,6 kW Tj = -15 °C (if TOL < -20 °C) Pdh kW Bivalent temperature Tbw Cycling interval capacity for heating Pcych Cycling interval capacity for heating Pcych Operation limit temperature TOL -10 °C Cycling interval capacity for heating Pcych Cycling interval efficiency COPcyc Degradation co-efficient Cdh 0,96 - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency Copcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency Copcyc - Tolo CoPcyc Copcyc - Heating water operating limit WTOL 58 °C Cycling interval efficiency Copcyc - Tolo Copcy	Tj = +2 °C	Pdh	2,9	kW	Tj = +2 °C	COPd	3,51	
Tj = biv Pdh 5,0 kW Tj = TOL Pdh 4,6 kW Tj = -15 °C (if TOL < -20 °C) Pdh 4,6 kW Tj = -15 °C (if TOL < -20 °C) Pdh kW Bivalent temperature T _{biv} -7 °C Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,96 - Heating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc Properties Power consumption in modes other than active mode Off mode P _{OFF} 0,007 kW Thermostat-off mode P _{TO} 0,011 kW Standby mode P _{SB} 0,011 kW Standby mode P _{SB} 0,011 kW Crankcase heater mode P _{CX} 0,000 kW Other items Capacity control Variable Sound power level, indoors/outdoors L _{WA} 35/54 dB Annual energy consumption Q _{HE} 3250 kWh Daily electricity consumption Q _{elec} kWh Annual electricity consumption AEC kWh Annual fuel consumption AFC GJ	Tj = +7 °C	Pdh	1,9	kW	Tj = +7 °C	COPd	4,99	
Tj = TOL Pdh 4,6 kW Tj = -15 °C (if TOL < -20 °C) Pdh kW Bivalent temperature T _{biv} -7 °C Cycling interval capacity for heating Pcych kW Degradation co-efficient Cdh 0,96 - Heating water operating limit WTOL 58 °C Power consumption in modes other than active mode Off mode P _{ro} 0,007 kW Thermostat-off mode P _{ro} 0,001 kW Standby mode P _{sB} 0,011 kW Standby mode P _{cK} 0,000 kW Other items Capacity control Variable Rated water flow rate, indoor heat exchanger m³/h Rated pump combination heater: Declared load profile Water heating energy efficiency COPcyc - Cycling interval efficiency COPcyc - Leating water operating limit WTOL 58 °C Cycling interval efficiency COPcyc - Leating water operating limit WTOL 58 °C Supplementary heater Rated heat output Psup 1,0 kW Type of energy input Electric Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger m³/h Rated brine or water flow rate, outdoor heat exchanger m³/h For heat pump combination heater: Declared load profile Water heating energy efficiency N _{lwh} &W Annual fuel consumption AFC GJ	Tj = +12 °C	Pdh	1,7	kW	Tj = +12 °C	COPd	6,33	
Tj = -15 °C (if TOL < -20 °C) Pdh RW Bivalent temperature T _{biv} Tj = -15 °C (if TOL < -20 °C) Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,96 Power consumption in modes other than active mode Off mode Pro O,007 RW Thermostat-off mode Pro O,001 Rated heat output Prye of energy input Electric Crankcase heater mode Other items Capacity control Variable Sound power level, indoors/outdoors Annual energy consumption Q _{HE} 3250 RW Daily electricity consumption Q _{elec} RW Annual electricity consumption Q _{elec} RW Cycling interval efficiency COPcyc Cycling interval efficiency COPcyc Cycling interval efficiency COPcyc Cycling interval efficiency COPcyc Cycling interval efficiency For Cycling interval efficiency Rated heat output Psup 1,0 kW Type of energy input Electric Rated air flow rate, outdoors Rated water flow rate, outdoors Rated brine or water flow rate, outdoor heat exchanger Mared heating water open are in a	Tj = biv	Pdh	5,0	kW	Tj = biv	COPd	1,95	
Bivalent temperature	Tj = TOL	Pdh	4,6	kW	Tj = TOL	COPd	1,75	
Cycling interval capacity for heating Pcych New Degradation co-efficient Cdh 0,96 - Power consumption in modes other than active mode PoF 0,007 kW Thermostat-off mode PoF 0,001 kW Standby mode PoF 0,001 kW Standby mode PoF 0,001 kW Crankcase heater mode PoF 0,000 kW Other items Capacity control Variable Rated air flow rate, indoor heat exchanger m³/h Annual energy consumption QHE 3250 kWh Annual fuel consumption Qfuel kWh Daily electricity consumption Qelec kWh Annual fuel consumption AFC GJ	Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		
Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,96 - Cdh 0,96	Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation co-efficient Cdh 0,96 - Heating water operating limit WTOL 58 °C Power consumption in modes other than active mode Off mode Poff 0,007 kW Thermostat-off mode Pro 0,011 kW Standby mode Ps 0,001 kW Standby mode Ps 0,001 kW Crankcase heater mode Pc 0,000 kW Other items Capacity control Variable Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger m³/h Annual energy consumption Qhe 3250 kWh Daily electricity consumption Qedec kWh Annual electricity consumption AEC kWh Annual fuel consumption AFC GJ	Cycling interval capacity for heating			kW	Cycling interval efficiency	COPcvc		_
Power consumption in modes other than active mode Off mode Poff 0,007 kW Thermostat-off mode Poff 0,011 kW Standby mode Poff 0,001 kW Type of energy input Type of energy input Electric Type of energy input Electric Crankcase heater mode Other items Capacity control Variable Sound power level, indoors/outdoors Annual energy consumption Qhe 3250 kWh Daily electricity consumption Qelec Water heating energy efficiency Annual fuel consumption Qelec KWH Annual fuel consumption AEC Supplementary heater Rated heat output Psup 1,0 kW Rated heat output Psup 1,0 kW Type of energy input Electric Type of energy input Electric Water heat gurne indoors Poff energy input Electric Type of energy input Electric Type of energy input Electric Water heat output Psup 1,0 kW Type of energy input Electric Page 2340 m³/h Rated air flow rate, outdoors To supplie mith			0,96	-			58	°C
Thermostat-off mode	<u>'</u>					1 _ 1		
Standby mode Crankcase heater mode P _{SB} O,011 kW Type of energy input Electric Power items Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Power items Type of energy input Electric Water flow rate, outdoors exchanger Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Power items Declared load profile Daily electricity consumption AEC Number Annual fuel consumption AFC GJ	Off mode	P _{OFF}	0,007	kW	Rated heat output	Psup	1,0	kW
Crankcase heater mode PCK 0,000 kW Other items Capacity control Variable Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger m³/h Annual energy consumption QHE 3250 kWh Daily electricity consumption Qelec kWh Annual electricity consumption Qelec kWh Annual electricity consumption AEC kWh Dialy fuel consumption AFC GJ	Thermostat-off mode	P_{TO}	0,011	kW				
Other items Capacity control Variable Rated air flow rate, outdoors 2340 m³/h Sound power level, indoors/outdoors L _{WA} 35/54 dB exchanger m³/h Annual energy consumption Q _{HE} 3250 kWh outdoor heat exchanger m³/h For heat pump combination heater: Declared load profile Water heating energy efficiency η_{wh} % Daily electricity consumption Q _{elec} kWh Annual fuel consumption AFC GJ	Standby mode	P_{SB}	0,011	kW	Type of energy input	Electric		
Capacity control Variable Sound power level, indoors/outdoors Annual energy consumption QHE 3250 kWh Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Paily electricity consumption Qelec kWh Annual electricity consumption Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Poaily fuel consumption AFC GJ	Crankcase heater mode	P _{CK}	0,000	kW				
Sound power level, indoors/outdoors L _{WA} 35/54 dB Annual energy consumption Q _{HE} 3250 kWh Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger m³/h For heat pump combination heater: Declared load profile Daily electricity consumption Q _{elec} kWh Annual electricity consumption AEC kWh Rated water flow rate, indoor heat exchanger m³/h Patter heating energy efficiency Daily fuel consumption Q _{fuel} kWh Annual fuel consumption AFC GJ	Other items							
Sound power level, indoors/outdoors LWA 35/54 dB exchanger Rated brine or water flow rate, outdoor heat exchanger Manual energy consumption QHE 3250 kWh Water heating energy efficiency Daily electricity consumption Qelec kWh Annual electricity consumption AEC kWh Annual fuel consumption Exchanger Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Plwh Mater heating energy efficiency Annual fuel consumption AFC GJ	Capacity control		Variable				2340	m³/h
Annual energy consumption Q _{HE} 3250 kWh Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Mater heating energy efficiency Paily electricity consumption Q _{elec} Annual electricity consumption AEC Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Paily fuel consumption Q _{fuel} Annual fuel consumption AFC GJ					· · · · · · · · · · · · · · · · · · ·			
Annual energy consumption Q _{HE} 3250 kWh outdoor heat exchanger m³/h For heat pump combination heater: Declared load profile Daily electricity consumption Q _{elec} kWh Annual electricity consumption AEC kWh Annual fuel consumption Q _{fuel} kWh Annual fuel consumption AFC GJ	Sound power level, indoors/outdoors	L_{WA}	35/54	dB				m³/h
For heat pump combination heater: Declared load profile Daily electricity consumption AEC Water heating energy efficiency Daily fuel consumption Qelec kWh Annual fuel consumption AFC GJ		_			•			3 /la
	Annual energy consumption	Q_{HE}	3250	kWh	outdoor heat exchanger			m /n
Daily electricity consumption Q _{elec} kWh Annual electricity consumption AEC kWh Annual fuel consumption AFC GJ	For heat pump combination heater:							
Annual electricity consumption AEC kWh Annual fuel consumption AFC GJ	Declared load profile				Water heating energy efficiency	η_{wh}		%
Annual electricity consumption AEC kWh Annual fuel consumption AFC GJ	Daily electricity consumption	0		kWh	Daily fuel consumption	Ofuni		kWh
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