

ENERG O енергия · ενεργεια (ΙΕ



NIBE

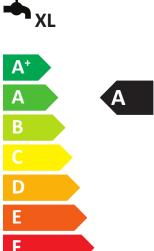
F2040-6 + SHK 200M



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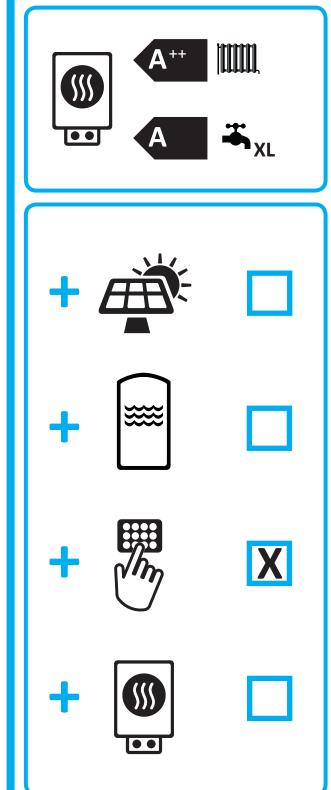




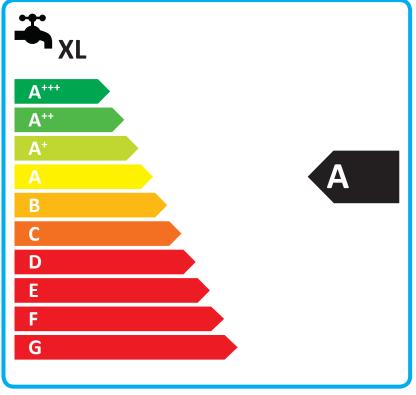
# ENERG Υ UA EHEPΓИЯ · ενεργεια II (IA)

**NIBE** 

F2040-6 + SHK 200M







Supplier's name:	NI		
Model:	F2040-6 +	- SHK 200M	
Temperature application	35	55	°C
Declared load profile for water		(L	
heating	•		
Seasonal space heating energy	A+++	A++	
efficiency class, average climate:			
Water heating energy efficiency		A	
class, average climate:	•	<del>-</del>	
Rated heat output, average climate:	5	5	kW
Annual energy consumption for	2089	3248	kWh
space heating, average climate	2009	3240	KVVII
Annual electricity consumption for	1.9	333	kWh
water heating, average climate	10	000	KVVII
Seasonal space heating energy	188	121	%
efficiency, average climate:	100	131	%
Water heating energy efficiency,	91		%
average climate:	91		, ,
Sound power level LWA indoors		35	dB
Rated heat output, cold climate:	4	6	kW
Rated heat output, warm climate:	4	5	kW
Annual energy consumption for	2694	4610	kW h
space heating, cold climate	Z034 	4610	KVVII
Annual electricity consumption for		332	kW h
water heating, cold climate			KVVII
Annual energy consumption for	872	1398	kW h
space heating, warm climate	012	1330	IVVVII
Annual electricity consumption for	14	185	kW h
water heating, warm climate	•	T	174411
Seasonal space heating energy	143	116	%
efficiency, cold climate:			, -
Water heating energy efficiency,	•	72	%
cold climate:			
Seasonal space heating energy	252	179	%
efficiency, warm climate:			
Water heating energy efficiency, warm climate:	1	13	%
Sound power level LWA outdoors		50	dB
Sound power lever LWA outdoors	•	ав	

<u>.                                </u>			
Controller class	V	/	
Controler contribution to efficiency	4,	,0	%
Seasonal space heating energy efficiency of package, average climate:	192	135	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	147	120	%
Seasonal space heating energy efficiency of package, warm climate:	256	183	%

Model(s):	F2040-6 + SHK 200M
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 FNA45AA FNA4005 FNA6447 and	EN40400

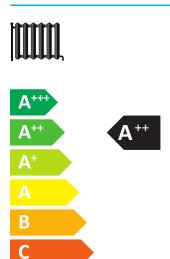


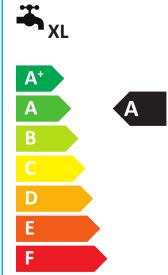
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Temperature application: Applied standards: EN14511, EN14825, EN	116147 and	Med	aium tem	perature (55 °C)			
Applied Statidards. EN 14511, EN 14825, EN	11014/ 8110	LIN 12 1U2		Seasonal space heating energy			
Rated heat output	Prated	5,3	kW	efficiency	$\eta_{s}$	131	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for par	t load at outdoo	or temperat	ure Tj
Tj = -7 °C	Pdh	4,7	kW	Tj = -7 °C	COPd	1,88	-
Tj = +2 °C	Pdh	2,8	kW	Tj = +2 °C	COPd	3,26	-
Tj = +7 °C	Pdh	1,8	kW	Tj = +7 °C	COPd	4,72	-
Tj = +12 °C	Pdh	2,7	kW	Tj = +12 °C	COPd	6,47	-
Tj = biv	Pdh	4,7	kW	Tj = biv	COPd	1,88	-
Tj = TOL	Pdh	4,1	kW	Tj = TOL	COPd	1,77	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit	WTOL	58	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	1,2	kW
Thermostat-off mode	P <sub>TO</sub>	0,012	kW				
Standby mode	P <sub>SB</sub>	0,012	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0	kW		<b>.</b>		
Other items							
Capacity control		variable		Rated air flow rate, outdoors		2526	m³/h
,				Rated water flow rate, indoor heat			
Sound power level, indoors/outdoors	$L_WA$	35/50	dB	exchanger			m³/h
				Rated brine or water flow rate,			
Annual energy consumption	$Q_{HE}$	3248	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	$\eta_{\text{wh}}$	91	%
Daily electricity consumption	0.	8,59	kWh	Daily fuel consumption	Q <sub>fuel</sub>		kWh
Annual electricity consumption	Q <sub>elec</sub>	1833	kWh	Annual fuel consumption	AFC		GJ
Approved by:	ALC	1033	KVVII	Annual fuel consumption	AIC		0,1
Contact details	© NIRF F	nergy Sys	tems - R	ox 14 - Hannabadsvägen 5 - 28521 M	arkarvd - Si	weden	

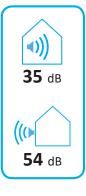




F2040-8 + SHK 200M









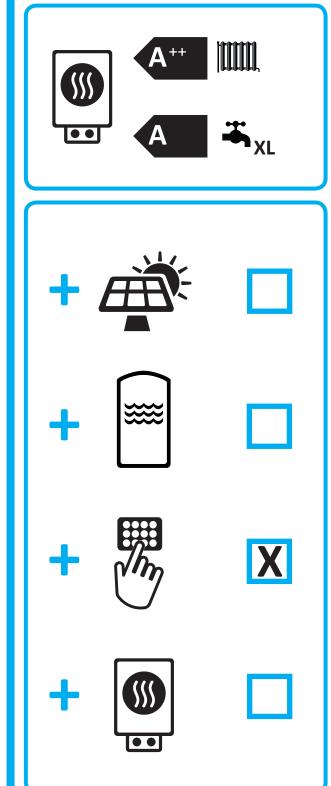


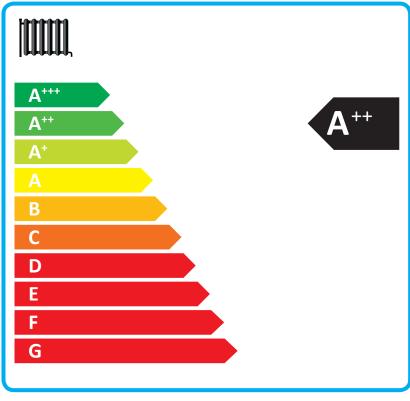


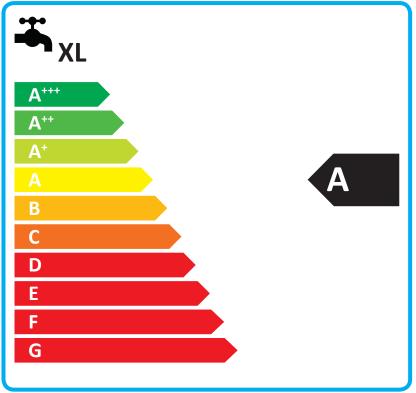
# ENERG Υ UA EHEPΓИЯ · ενεργεια II (IA)

**NIBE** 

F2040-8 + SHK 200M







Supplier's name:	N		
Model:	F2040-8 -	+ SHK 200M	
Temperature application	35	55	°C
Declared load profile for water	,	<b>KL</b>	
heating		`\ <b>L</b>	
Seasonal space heating energy	A++	A++	
efficiency class, average climate:	ATT	Атт	
Water heating energy efficiency		A	
class, average climate:		^	
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	1,0	689	kW h
water heating, average climate	10	009	KVVII
Seasonal space heating energy	470	407	0/
efficiency, average climate:	172	127	%
Water heating energy efficiency,	99		%
average climate:			, ,
Sound power level LWA indoors	(	35	dB
Rated heat output, cold climate:	9	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	15	386	kW h
water heating, cold climate	10	500	KVVII
Annual energy consumption for	1879	2333	kW h
space heating, warm climate	1075	2000	KVVII
Annual electricity consumption for	1!	540	kWh
water heating, warm climate		· · · · · · · · · · · · · · · · · ·	
Seasonal space heating energy	139	108	%
efficiency, cold climate:			
Water heating energy efficiency,	89		%
cold climate: Seasonal space heating energy			
efficiency, warm climate:	225	180	%
Water heating energy efficiency,		1	
warm climate:	1	09	%
Sound power level LWA outdoors	Į.	54	dB

Controller class	V	/	
Controler 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	%

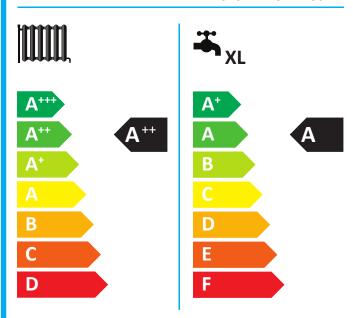
Model(s):	F2040-8 + SHK 200M
Type of heat source/sink:	Air-to-water
Low-temperature heat pump:	No
Equipped with supplementary heater:	Yes
Heat pump combination heater:	Yes
Climate condition:	Average
Temperature application:	Medium temperature (55 °C)
Applied standards: EN14825 EN16147	•



Temperature application:		Med	dium tei	mper	rature (55 °C)			
Applied standards: EN14825, EN16147								
					Seasonal space heating energy			
Rated heat output	Prated	7,0	kW		efficiency	$\eta_{s}$	127	%
Declared capacity for part load at outdoor temp	erature Ti				Declared coefficient of performance for part	load at outdoo	r temperati	ure Ti
Ti = -7 °C	Pdh	6,3	kW	l	Tj = -7 °C	COPd	1,94	-
Tj = +2 °C	Pdh	3,9	kW	1	Tj = +2 °C	COPd	3,11	-
Tj = +7 °C	Pdh	2,6	kW	1	Tj = +7 °C	COPd	4,42	-
Tj = +12 °C	Pdh	3,7	kW	1	Tj = +12 °C	COPd	5,93	-
Tj = biv	Pdh	6,6	kW	1	Tj = biv	COPd	1,83	-
Tj = TOL	Pdh	5,9	kW	1	Tj = TOL	COPd	1,86	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T <sub>biv</sub>	-8,6	°C	1	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-0,0	kW	1	Cycling interval efficiency	COPcyc	-10	
Degradation co-efficient	Cdh	0,97	KVV	ł	Heating water operating limit	WTOL	58	°C
Degradation co-emcient	Cuii	0,37	_		Heating water operating mint	WIOL	36	C
Power consumption in modes other than active	mode	,			Supplementary heater			
Off mode	P <sub>OFF</sub>	0,002	kW		Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,01	kW					
Standby mode	$P_SB$	0,015	kW		Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,03	kW					
Other items								
Capacity control		variable			Rated air flow rate, outdoors		3000	m³/h
•					Rated water flow rate, indoor heat		0.60	
Sound power level, indoors/outdoors	$L_{WA}$	35/54	dB		exchanger		0,60	m³/h
					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 <sub>wh</sub>	99	%
•	1			1		1 1 1 1 1 1 1		
Daily electricity consumption	Q <sub>elec</sub>	7,69	kWh	1	Daily fuel consumption	$Q_{\text{fuel}}$		kWh
Annual electricity consumption	AEC	1689	kWh	L	Annual fuel consumption	AFC		GJ
Approved by:								
Contact details	© NIBE E	nergy Sys	tems -	Вох	14 - Hannabadsvägen 5 - 28521 Ma	rkaryd - Sv	veden	



F2040-12 + SHK 200M





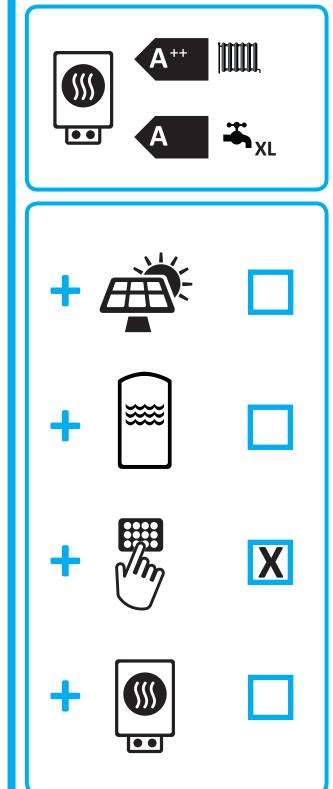
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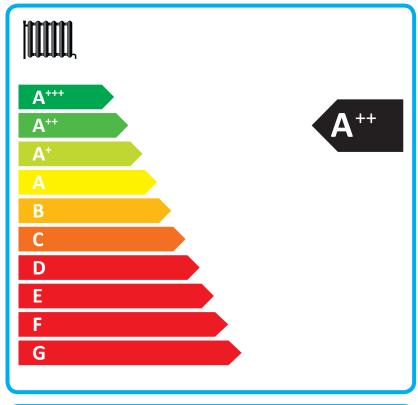


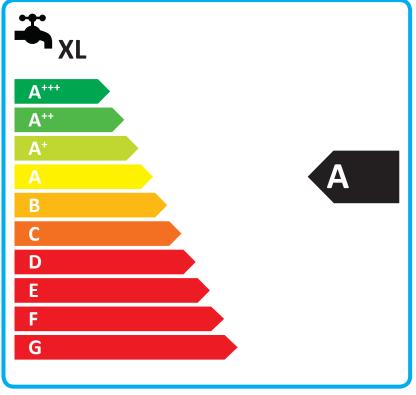
## ENERG Y UA ehepγua · ενεργεια (Ε) (ΙΑ)

**NIBE** 

F2040-12 + SHK 200M







Supplier's name:	N		
Model:	F2040-12	2 + SHK 200M	
Temperature application	35	55	°C
Declared load profile for water	,	XL	
heating		<u> </u>	
Seasonal space heating energy	A++	A++	
efficiency class, average climate:	АТТ	ATT	
Water heating energy efficiency		A	
class, average climate:			
Rated heat output, average climate:	11,5	10,0	kW
Annual energy consumption for	5382	6136	kW h
space heating, average climate	3302	0130	KVVII
Annual electricity consumption for	1	702	kW h
water heating, average climate	ı	702	KVVII
Seasonal space heating energy	474	400	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	11191	KVVII
Annual electricity consumption for	1	904	kWh
water heating, cold climate	ı	304	KVVII
Annual energy consumption for	2759	3419	kWh
space heating, warm climate	2133	3413	KVVII
Annual electricity consumption for	1	551	kWh
water heating, warm climate	•	1	1.0011
Seasonal space heating energy	142	111	%
efficiency, cold climate:			
Water heating energy efficiency,	88		%
cold climate:			
Seasonal space heating energy efficiency, warm climate:	229	185	%
Water heating energy efficiency,			
warm climate:	1	108	%
Sound power level LWA outdoors	:	57	dB

Controller class	V	/	
Controler 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):	F2040-12 + SHK 200M
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: EN114925 EN116147	•

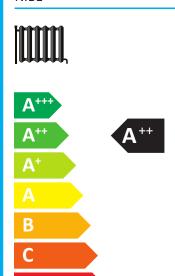


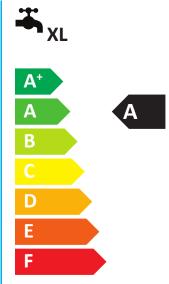
Temperature application:		Me	dium tei	nperature (55 °C)			
Applied standards: EN14825, EN16147							
				Seasonal space heating energy			
Rated heat output	Prated	10,0	kW	efficiency	$\eta_{s}$	132	%
Declared capacity for part load at outdoor temp Ti = -7 °C		0.0	LAAZ	Declared coefficient of performance for part l			1
Ti = +2 °C	Pdh Pdh	8,9 5,5	kW kW	Tj = -7 °C Tj = +2 °C	COPd COPd	1,99 3,22	-
Ti = +7 °C	Pdh	3,5	kW	Tj = +2 C Tj = +7 °C	COPd	4,61	-
Tj = +12 °C	Pdh	5,0	kW	Tj = +7 C Tj = +12 °C	COPd	6,25	-
Ti = biv	Pdh	9,2	kW	Tj = +12 C	COPd	1,90	-
Ti = TOL	Pdh	8,1	kW	Ti = TOL	COPd	1,90	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	0,1	kW	Tj = -15 °C (if TOL < -20 °C)	COPd	1,32	-
1) = -13 C (11 10L < -20 C)	Full		KVV	17-13 6 (11 102 < -20 6)	COFU		
Bivalent temperature	T <sub>biv</sub>	-7,9	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcvc		-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit	WTOL	58	°C
-	· I						
Power consumption in modes other than active	mode	1		Supplementary heater	,		
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output	Psup	1,9	kW
Thermostat-off mode	P <sub>TO</sub>	0,014	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	1					1000	3.0
Capacity control		variable	1	Rated air flow rate, outdoors Rated water flow rate, indoor heat		4380	m³/h
Sound power level, indoors/outdoors		35/57	dB	exchanger		0,86	m³/h
Souria power level, illudors/outuoors	L <sub>WA</sub>	33/37	ив				
				Rated brine or water flow rate,			3 /1
Annual energy consumption	$Q_{HE}$	6136	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	$\eta_{wh}$	98	%
	•						•
Daily electricity consumption	$Q_{\rm elec}$	7,75	kWh	Daily fuel consumption	Q <sub>fuel</sub>		kWh
Annual electricity consumption	AEC	1702	kWh	Annual fuel consumption	AFC		GJ
Approved by:							
Contact details	© NIBE E	nergy Sys	tems -	Box 14 - Hannabadsvägen 5 - 28521 Mar	karyd - Sv	veden	

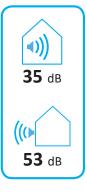




F2120-8 + SHK 200M









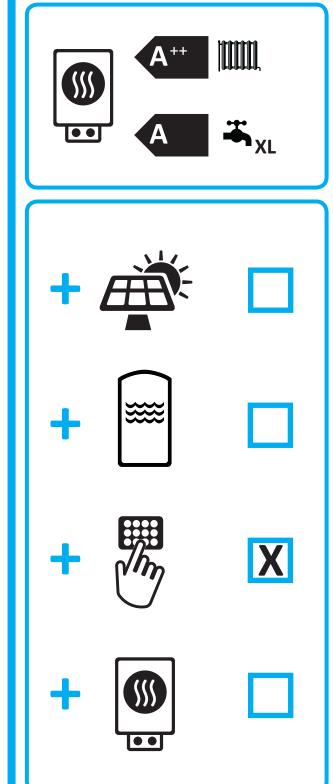




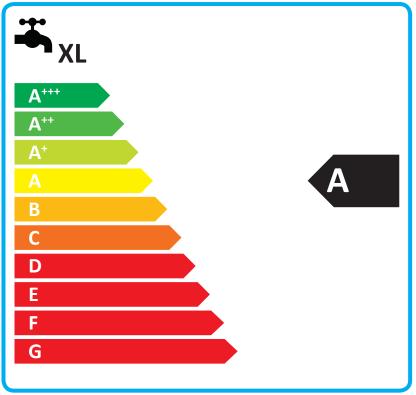
## ENERG Υ UA EHEPΓИЯ · ενεργεια Ε IA

**NIBE** 

F2120-8 + SHK 200M







Supplier's name:	NIBE		
Model:	F2120-8 +	- SHK 200M	
Temperature application	35	55	°C
Declared load profile for water	x	(L	
heating	, , , , , , , , , , , , , , , , , , ,	·	
Seasonal space heating energy	A+++	A++	
efficiency class, average climate:			
Water heating energy efficiency		A	
class, average climate:	•	<del>^</del>	
Rated heat output, average climate:	5,9	6,3	kW
Annual energy consumption for	2544	3472	kWh
space heating, average climate	20 <del>44</del>	3412	KVVII
Annual electricity consumption for	16	661	kWh
water heating, average climate	10	JO 1	KVVII
Seasonal space heating energy	189	147	%
efficiency, average climate:	109	147	70
Water heating energy efficiency,	101		%
average climate:			dB
Sound power level LWA indoors		35	
Rated heat output, cold climate:	6,8	7,4	kW
Rated heat output, warm climate:	5,9	6,3	kW
Annual energy consumption for	4182	5524	kWh
space heating, cold climate	4102	0024	KVVII
Annual electricity consumption for	18	395	kWh
water heating, cold climate			NVVII
Annual energy consumption for	1452	1939	kWh
space heating, warm climate	1702	1909	KVVII
Annual electricity consumption for	14	173	kW h
water heating, warm climate		1	
Seasonal space heating energy	158	130	%
efficiency, cold climate:			
Water heating energy efficiency,	88		%
cold climate:		T	
Seasonal space heating energy efficiency, warm climate:	214	171	%
Water heating energy efficiency,			
warm climate:	1	14	%
Sound power level LWA outdoors	5	53	dB

Controller class	V	/	
Controler contribution to efficiency	4,	,0	%
Seasonal space heating energy efficiency of package, average climate:	193	151	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	162	134	%
Seasonal space heating energy efficiency of package, warm climate:	218	175	%

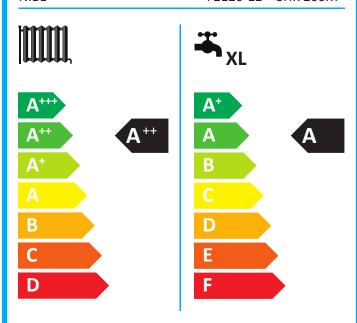
Model(s):	F2120-8 + SHK 200M
Type of heat source/sink:	Air-to-water
Low-temperature heat pump:	No
Equipped with supplementary heater:	Yes
Heat pump combination heater:	Yes
Climate condition:	Average
Temperature application:	Medium temperature (55 °C)
A - B - d - t - d - d - c - CNA 4544 FNA 4005 FNA 64 47 - c - d	EN40400



Climate condition.				erage			
Temperature application: Applied standards: EN14511, EN14825, EN	116147 and	Mei	aium tem	perature (55 °C)			
Applied Statidards. EN14311, EN14825, EN	11014/ 8110	LINIZIUZ	<u> </u>	Seasonal space heating energy	1	T	
Rated heat output	Prated	6,3	kW	efficiency	$\eta_{\text{s}}$	147	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for part	load at outdo	oor temperat	ure Tj
Tj = -7 °C	Pdh	5,5	kW	Tj = -7 °C	COPd	2,48	-
Tj = +2 °C	Pdh	4,1	kW	Tj = +2 °C	COPd	3,80	-
Tj = +7 °C	Pdh	2,9	kW	Tj = +7 °C	COPd	4,45	-
Tj = +12 °C	Pdh	3,3	kW	Tj = +12 °C	COPd	5,26	-
Tj = biv	Pdh	5,5	kW	Tj = biv	COPd	2,48	-
Tj = TOL	Pdh	5,7	kW	Tj = TOL	COPd	2,34	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit	WTOL	65	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	P <sub>OFF</sub>	0,025	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,01	kW				1
Standby mode	P <sub>SB</sub>	0,025	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,037	kW		•		
Other items							
Capacity control		variable		Rated air flow rate, outdoors		2300	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	35/53	dB	Rated water flow rate, indoor heat exchanger		variable	m³/h
				Rated brine or water flow rate,			
Annual energy consumption	$Q_{HE}$	3472	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	$\eta_{\text{wh}}$	101	%
Daily electricity consumption	Q <sub>elec</sub>	7,56	kWh	Daily fuel consumption	Q <sub>fuel</sub>		kWh
Annual electricity consumption	AEC	1661	kWh	Annual fuel consumption	AFC		GJ
Approved by:					1 3		
Contact details	© NIBE F	nergy Sys	tems - B	ox 14 - Hannabadsvägen 5 - 28521 Ma	arkarvd - S	weden	



F2120-12 + SHK 200M





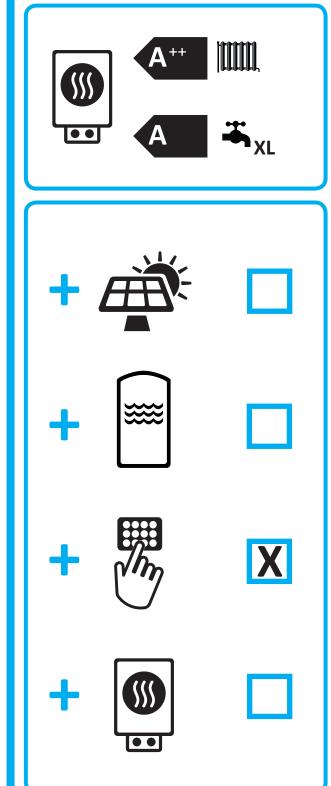
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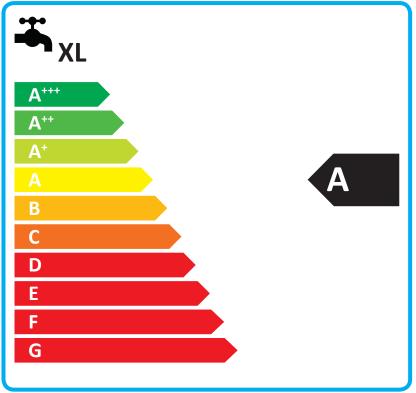
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**NIBE** 

F2120-12 + SHK 200M







Supplier's name:	NIBE		
Model:	F2120-12	+ SHK 200M	
Temperature application	35	55	°C
Declared load profile for water	X	(L	
heating		·	
Seasonal space heating energy	A+++	A++	
efficiency class, average climate:			
Water heating energy efficiency		A	
class, average climate:		<del>^</del>	
Rated heat output, average climate:	8,0	8,3	kW
Annual energy consumption for	3409	4529	kWh
space heating, average climate	3403	4023	KVVII
Annual electricity consumption for	16	661	kW h
water heating, average climate	10	JO 1	KVVII
Seasonal space heating energy	190	148	%
efficiency, average climate:	190	140	70
Water heating energy efficiency,	101		%
average climate:			, ,
Sound power level LWA indoors		35	dB
Rated heat output, cold climate:	9,3	9,8	kW
Rated heat output, warm climate:	9,2	9,2	kW
Annual energy consumption for	5666	7239	kWh
space heating, cold climate	5000	1238	KVVII
Annual electricity consumption for	 19	395	kWh
water heating, cold climate			KVVII
Annual energy consumption for	2241	2741	kWh
space heating, warm climate	2271	2171	KVVII
Annual electricity consumption for	14	173	kWh
water heating, warm climate	•	1	
Seasonal space heating energy	159	130	%
efficiency, cold climate:			
Water heating energy efficiency,	88		%
cold climate:		T	_
Seasonal space heating energy	216	176	%
efficiency, warm climate:			
Water heating energy efficiency, warm climate:	1	14	%
Sound power level LWA outdoors		53	dB
Sound power level Lvv A outdoors	5	53	aB

Controller class	V	/	
Controler contribution to efficiency	4,	,0	%
Seasonal space heating energy efficiency of package, average climate:	194	152	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	163	134	%
Seasonal space heating energy efficiency of package, warm climate:	220	180	%

Model(s):	F2120-12 + SHK 200M
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)
Applical standards, ENGAGAA, ENGAGOS, ENGGAAZ and	EN40400



- " " "				erage			
Temperature application: Applied standards: EN14511, EN14825, EN	116117 054	Med	dium tem	perature (55 °C)			
Applied Standards: EN14511, EN14825, EN	vioi4/ and	EN 12102		Seasonal space heating energy			
Rated heat output	Prated	8,3	kW	efficiency	$\eta_{s}$	148	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for par	rt load at outdo	or temperatu	ıre Tj
Tj = -7 °C	Pdh	7,3	kW	Tj = -7 °C	COPd	2,39	-
Tj = +2 °C	Pdh	4,7	kW	Tj = +2 °C	COPd	3,85	-
Tj = +7 °C	Pdh	2,9	kW	Tj = +7 °C	COPd	4,48	-
Tj = +12 °C	Pdh	3,3	kW	Tj = +12 °C	COPd	5,30	-
Tj = biv	Pdh	7,3	kW	Tj = biv	COPd	2,39	1
Tj = TOL	Pdh	7,8	kW	Tj = TOL	COPd	2,28	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit	WTOL	65	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	P <sub>OFF</sub>	0,025	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,007	kW				
Standby mode	P <sub>SB</sub>	0,025	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,037	kW		•		
Other items							
Capacity control		variable		Rated air flow rate, outdoors		3400	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	35/53	dB	Rated water flow rate, indoor heat exchanger		variable	m³/h
				Rated brine or water flow rate,			
Annual energy consumption	$Q_{HE}$	4529	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:	•			•	•	•	
Declared load profile		XL		Water heating energy efficiency	$\eta_{\text{wh}}$	101	%
Daily electricity consumption	Ι ο	7,56	kWh	Daily fuel consumption			kWh
Annual electricity consumption	Q <sub>elec</sub>	1661	kWh	Annual fuel consumption	Q <sub>fuel</sub>		GJ
Approved by:	ALC	1001	KVVII	Aimaariuerconsumption	AFC	<u> </u>	GJ
Contact details	∩ NIRE E	noray Syc	toms - P	ox 14 - Hannabadsvägen 5 - 28521 M	larkaryd S	weden	



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F2120-16 + SHK 200M







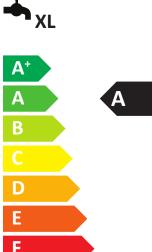




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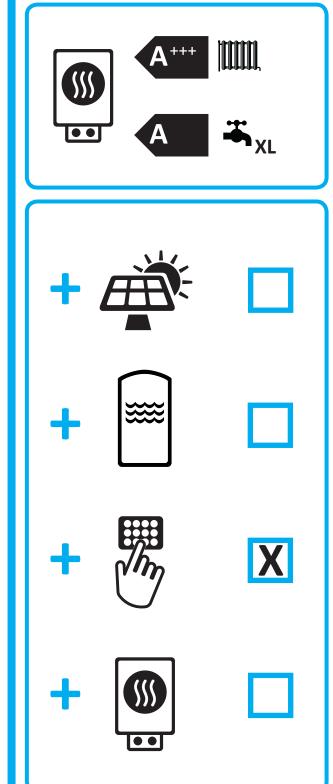


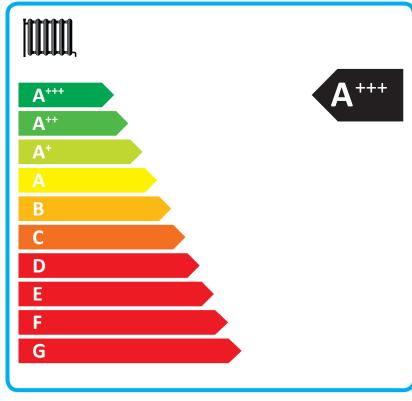


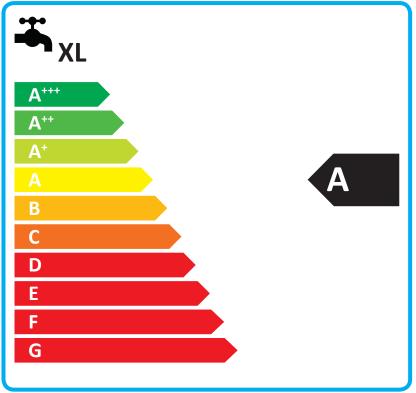
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**NIBE** 

F2120-16 + SHK 200M







Supplier's name:	NIBE		
Model:	F2120-16	6 + SHK 200M	
Temperature application	35	55	°C
Declared load profile for water	<u> </u>	ΧL	
heating	•	<b>\L</b>	
Seasonal space heating energy	A+++	A+++	
efficiency class, average climate:		ATTT	
Water heating energy efficiency		A	
class, average climate:			
Rated heat output, average climate:	11	12,3	kW
Annual energy consumption for	4502	6524	kWh
space heating, average climate	4502	0024	KVVII
Annual electricity consumption for	1,	661	kWh
water heating, average climate	1	001	KVVII
Seasonal space heating energy	199	152	%
efficiency, average climate:	199	153	70
Water heating energy efficiency,	103		%
average climate:			dB
Sound power level LWA indoors		35	
Rated heat output, cold climate:	13,0	14,0	kW
Rated heat output, warm climate:	13,0	13,0	kW
Annual energy consumption for	7543	9765	kWh
space heating, cold climate	7543	8700	KVVII
Annual electricity consumption for	11	895	kWh
water heating, cold climate			NVVII
Annual energy consumption for	3153	3867	kWh
space heating, warm climate	3133	3007	KVVII
Annual electricity consumption for	1.	473	kWh
water heating, warm climate		1	
Seasonal space heating energy	167	138	%
efficiency, cold climate:	-		
Water heating energy efficiency,	88		%
cold climate:		<u> </u>	
Seasonal space heating energy	217	177	%
efficiency, warm climate: Water heating energy efficiency,			
water fleating energy emclency, warm climate:	1	14	%
Sound power level LWA outdoors		 55	dB

Controller class	V	/	
Controler contribution to efficiency	4,	,0	%
Seasonal space heating energy efficiency of package, average climate:	203	157	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	171	142	%
Seasonal space heating energy efficiency of package, warm climate:	221	181	%

Model(s):	F2120-16 + SHK 200M
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)
A - B - d - t - d - d - c - CNA 4544 FNA 4005 FNA 64 47 - c - d	EN40400



Cirriate corraition:				verage			
Temperature application:			dium ter	nperature (55 °C)			
Applied standards: EN14511, EN14825, EN	116147 and	EN12102					
				Seasonal space heating energy			
Rated heat output	Prated	12,3	kW	efficiency	$\eta_{\text{s}}$	153	%
Declared capacity for part load at outdoor temp	erature Tj			Declared coefficient of performance for part lo	ad at outdoo	or temperatu	re Tj
Tj = -7 °C	Pdh	10,9	kW	Tj = -7 °C	COPd	2,48	-
Tj = +2 °C	Pdh	6,7	kW	Tj = +2 °C	COPd	3,96	-
Tj = +7 °C	Pdh	5,9	kW	Tj = +7 °C	COPd	4,67	-
Tj = +12 °C	Pdh	6,0	kW	Tj = +12 °C	COPd	5,67	-
Tj = biv	Pdh	10,9	kW	Tj = biv	COPd	2,48	-
Tj = TOL	Pdh	11,6	kW	Tj = TOL	COPd	2,40	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc		_
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit	WTOL	65	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	P <sub>OFF</sub>	0,025	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,007	kW				
Standby mode	P <sub>SB</sub>	0,025	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,037	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors		4150	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	35/55	dB	Rated water flow rate, indoor heat exchanger		variable	m³/h
				Rated brine or water flow rate,			
Annual energy consumption	$Q_{HE}$	6524	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	$\eta_{\text{wh}}$	101	%
Daily electricity consumption	Ι ο	7,56	kWh	Daily fuel consumption	0		kWh
Daily electricity consumption  Annual electricity consumption	Q <sub>elec</sub>	1661	kWh	Daily fuel consumption  Annual fuel consumption	Q <sub>fuel</sub> AFC		GJ
Approved by:	ALC	1001	KVVII	Aimuai luei consumption	ALC		O)
Contact details	⊕ NIDE E	norm Suc	toms	Box 14 - Hannabadsvägen 5 - 28521 Marl	carved C.	wodon	
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