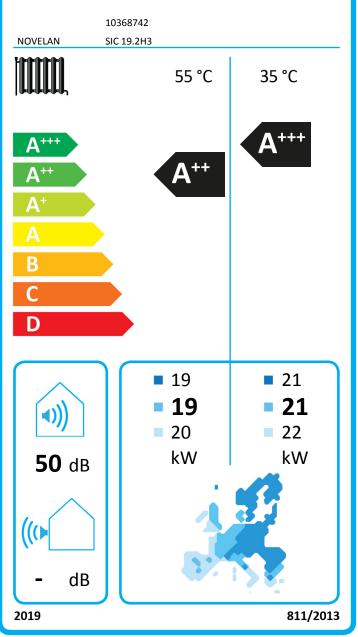
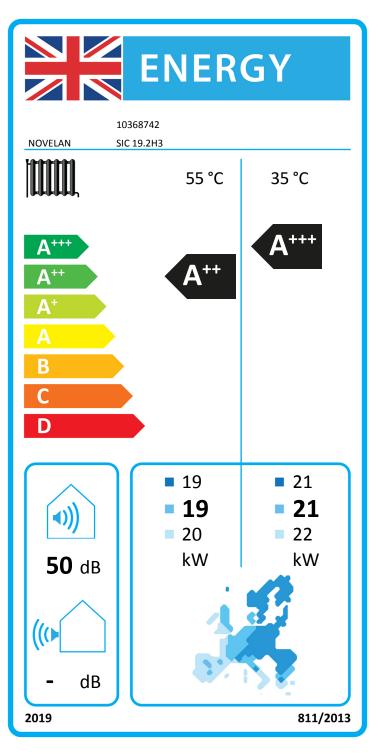


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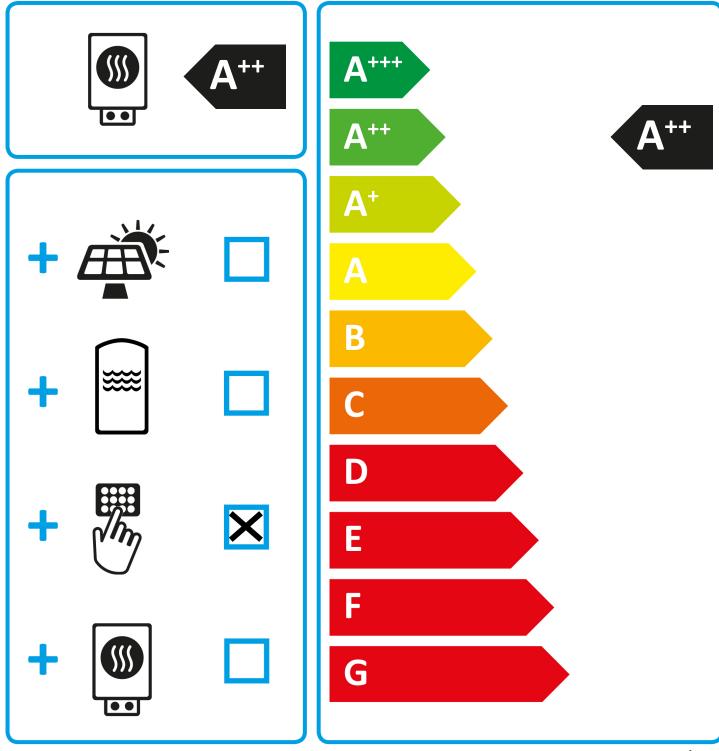


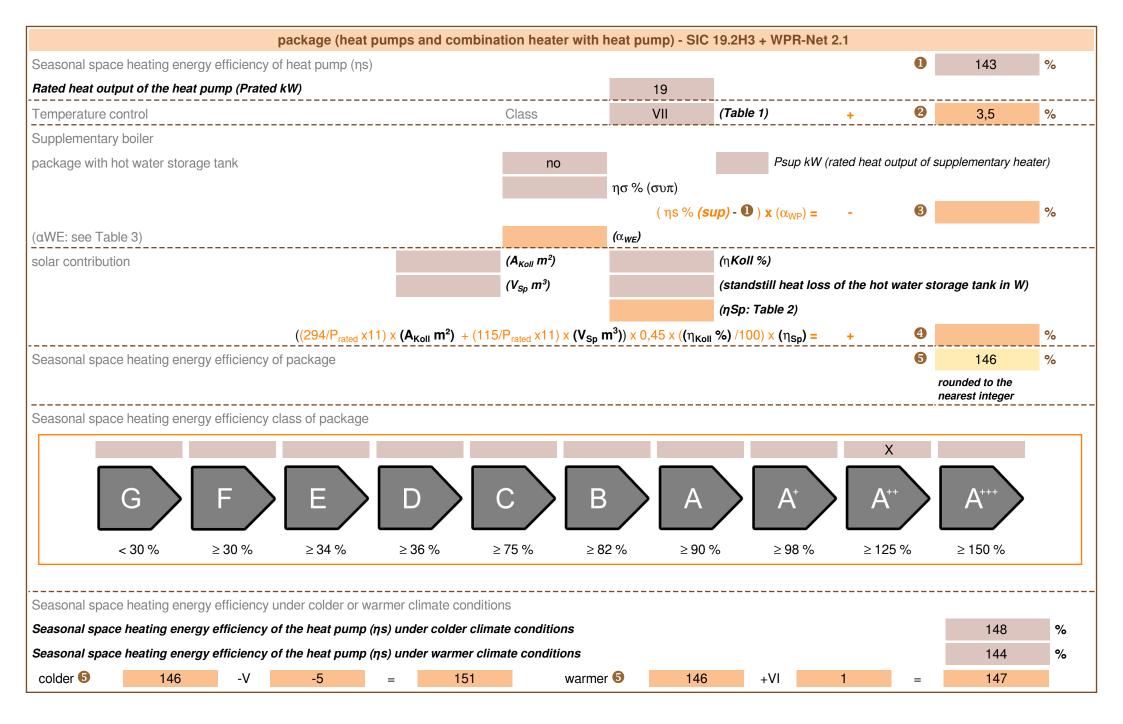


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NOVELAN

SIC 19.2H3 + WPR-Net 2.1





NOVELAN
SIC 19.2H3
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Information concerning energy efficiency class and rated heat output:

	average / low	average / medium	
energy efficiency class space heater:	A+++	A++	-
rated heat output:	21	19	kW
energy efficiency space heater:	205	143	%
annual final energy consumption space heater	8139	10328	kWh

50

dB

sound power level indoors

special precautions concerning assembly, installation or maintenance

All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.

additional information	low	medium	
rated heat output colder climate	21	19	kW
rated heat output warmer climate	22	20	kW
energy effiency space heater colder climate	212	148	%
energy effiency space heater warmer climate	207	144	%
annual energy consumption space heater colder climate	9334	11851	kWh
annual energy consumption space heater warmer climate	5394	6864	kWh

technical data of the tempera	ature controller			
manufacturer:	NOVELAN			
model:	WPR-Net 2.1			
controller class		VII	-	
contribution of the controller to the energy efficiency space heater		3,5	%	

Model				SIC 19.2H3			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
Water-to-water heat pump: (yes/no)			no				
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary heater: (yes/no)				yes			
combination heater with: (yes/no)				no			
application: (low/medium)		medium					
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	19	kW	Seasonal space heating energy efficiency	ηS	142,8	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	16,7	kW	Tj = -7°C	COPd	3,09	-
Tj = +2°C	Pdh	17,5	kW	Tj = +2°C	COPd	3,75	-
Tj = +7°C	Pdh	18,0	kW	Tj = +7°C	COPd	4,25	-
Tj = +12°C	Pdh	18,5	kW	Tj = +12°C	COPd	4,81	-
Tj = bivalent temperature	Pdh	16,7	kW	Tj = bivalent temperature	COPd	3,09	-
Tj = operation limit temperature	Pdh	16,4	kW	Tj = operation limit temperature	COPd	2,88	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes	other that	n active mod	le	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW	-			
Crankcase heater mode	Р _{ск}	-	kW				
Other items			•		•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h
sound power level, indoors/outdoors	L _{WA}	50 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	4	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh		<u> </u>		-
For heat pump combination h							
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		land GmbH Ir		95359 Kasendorf Germany			1
(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m		-				.9 00P(' J/·	

Model				SIC 19.2H3			
Air-to-water heat pump: (yes/no)				no			
Brine-to-water heat pump: (yes/no)				yes			
Water-to-water heat pump: (yes/no)			no				
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary heater: (yes/no)				yes			
combination heater with: (yes/no)				no			
application: (low/medium)				low			
climate: (colder/average/warmer)		average					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	21	kW	Seasonal space heating energy efficiency	ηS	205,1	%
Declared coefficient of perfor temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor
Tj = -7°C	Pdh	18,6	kW	Tj = -7°C	COPd	5,04	-
Tj = +2°C	Pdh	18,8	kW	Tj = +2°C	COPd	5,35	-
Tj = +7°C	Pdh	19,0	kW	Tj = +7°C	COPd	5,67	-
Tj = +12°C	Pdh	19,2	kW	Tj = +12°C	COPd	5,95	-
Tj = bivalent temperature	Pdh	18,6	kW	Tj = bivalent temperature	COPd	5,04	-
Tj = operation limit temperature	Pdh	18,5	kW	Tj = operation limit temperature	COPd	4,88	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes	other that	n active mod	le	Supplementary heater			
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	2,5	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,015	kW	-			
Crankcase heater mode	Р _{ск}	-	kW				
Other items			•		•		
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
sound power level, indoors/outdoors	L _{WA}	50 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	4	m³/h
Emissions of nitrogen oxides	NO _X	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	ait deutsch	land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			•
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			