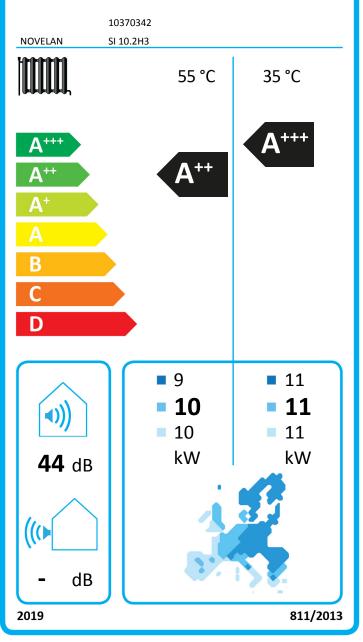
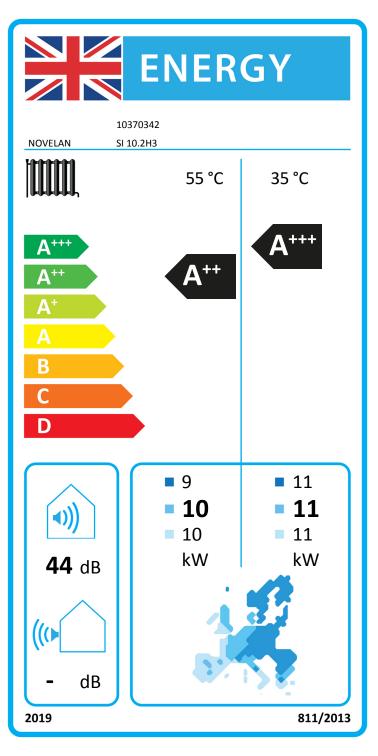


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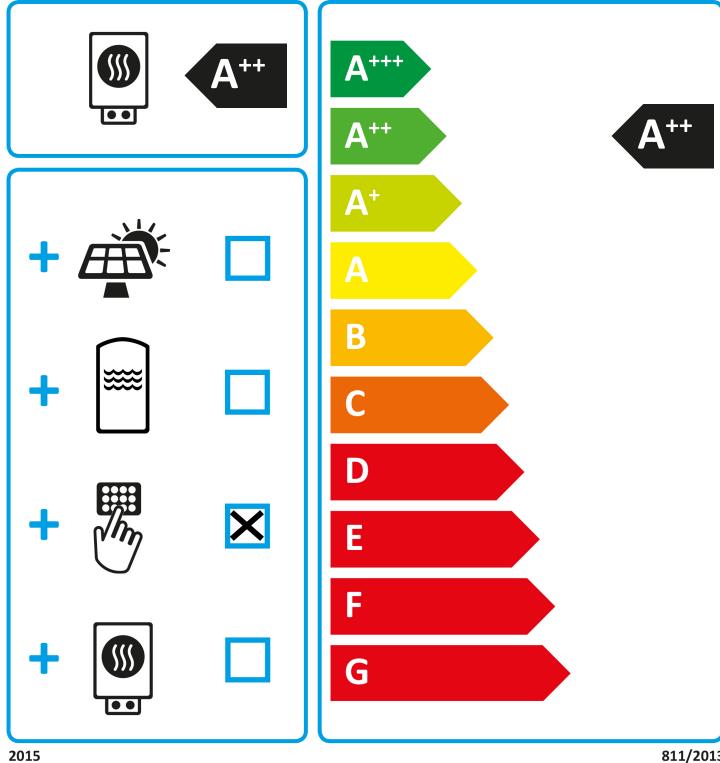


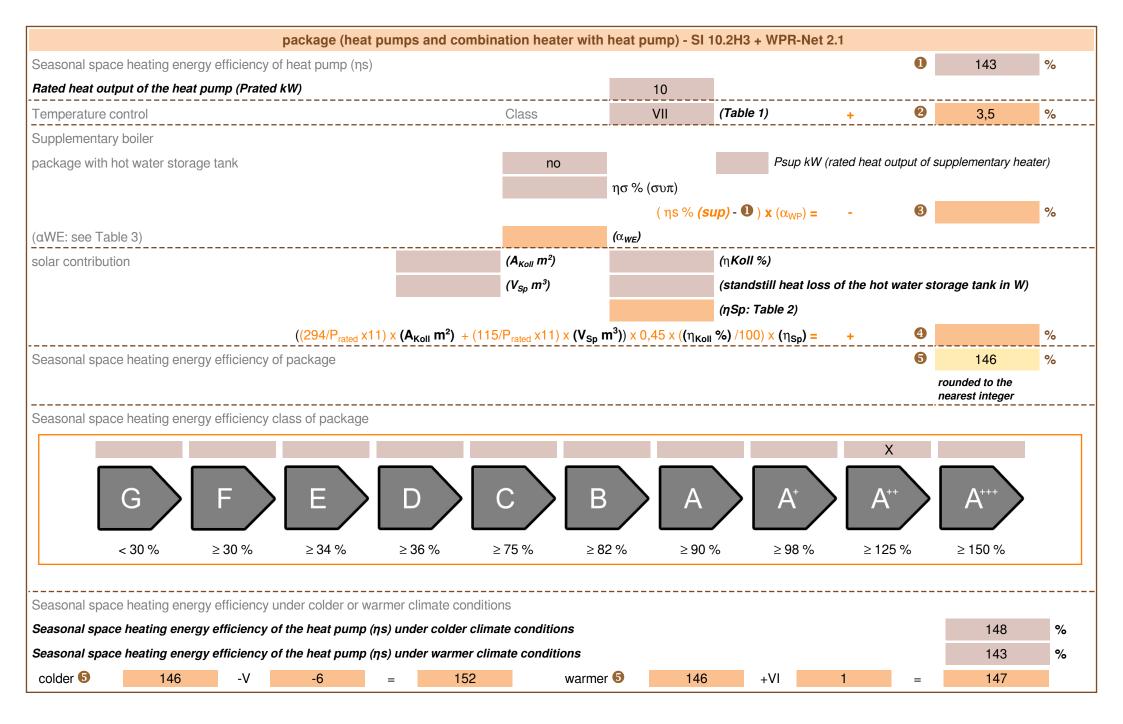
## 10370342

NOVELAN

SI 10.2H3 + WPR-Net 2.1

## 





manufacturer:	NOVELAN				
model:	SI 10.2H3	SI 10.2H3			
Information concerning energy efficiency class and	d rated heat output:				
		T / n	i		
	average / low	average / medium			
energy efficiency class space heater:	A+++	A++	-		
rated heat output:	11	10	kW		
energy efficiency space heater:	214	143	%		
annual final energy consumption space heater	3934	5241	kWh		
special precautions concerning assembly, installat All instructional work in this manual may only be carried or regulations.		nel in compliance with loca	l		
All instructional work in this manual may only be carried or regulations.	out by qualified specialist persor	medium			
All instructional work in this manual may only be carried or regulations.  additional information rated heat output colder climate	out by qualified specialist persor	medium 9	kW		
All instructional work in this manual may only be carried or regulations.  additional information rated heat output colder climate rated heat output warmer climate	out by qualified specialist persor	medium 9 10	kW kW		
All instructional work in this manual may only be carried or regulations.  additional information rated heat output colder climate	out by qualified specialist persor	medium 9	kW		

annual energy consumption space heater colder climate

annual energy consumption space heater warmer climate

sound power level outdoors

4478

2619

5980

3497

-

kWh

kWh

dB

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

Model				SI 10.2H3			
Air-to-water heat pump: (yes/no)							
Brine-to-water heat pump: (yes/no)							
no)		no					
s/no)		no					
ater: (yes/no	o)	yes					
		no					
		medium					
climate: (colder/average/warmer)							
				i			
Prated	10	kW	Seasonal space heating energy efficiency	ηS	142,7	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor			
Pdh	8,5	kW	Tj = -7°C	COPd	3,05	-	
Pdh	8,9	kW	Tj = +2°C	COPd	3,76	-	
Pdh	9,1	kW	Tj = +7°C	COPd	4,35	-	
Pdh	9,4	kW	Tj = +12°C	COPd	5,09	-	
Pdh	8,5	kW	Tj = bivalent temperature	COPd	3,05	-	
Pdh	8,3	kW	Tj = operation limit temperature	COPd	2,82	-	
Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-	
T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Cdh	1,0	-	Heating water operating limit temperature	WTOL	60	°C	
other than	n active mod	le	Supplementary heater				
P <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,3	kW	
	0,015	kW	Type of energy input		electrical		
	0,015	kW					
	-	kW	-				
		1		1			
fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h	
L <sub>WA</sub>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	2	m <sup>3</sup> /h	
NO <sub>X</sub>	-	mg/kWh					
eater:							
	-		Water heating energy efficiency	$\eta_{wh}$	-	%	
Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
	land GmbH Ir	ndustriestr. 3					
and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ			eating	
		-					
	no) s/no) ater: (yes/nd b symbol Prated Prated Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	no) s/no) ater: (yes/no) ater: (yes/no) Symbol Value Prated 10 mance for part load at or temperature Tj Pdh 8,5 Pdh 8,9 Pdh 9,1 Pdh 9,1 Pdh 9,4 Pdh 8,5 Pdh 9,1 Pdh 8,5 Pdh 8,3 Pdh - Tbiv -7 Pdh 8,3 Pdh - Tbiv -7 Cdh 1,0 cother than active mod Pore 0,015 Pro 0,015 Pro 0,015 Pro 0,015 Pro 0,015 Pro 0,015 Pro 0,015 Pro 1,0 cother than active mod Pore 1,0 cother	no) s/no) ater: (yes/no) ater: (yes/no) Symbol Value Unit Prated 10 kW mance for part load at indoor or temperature Tj Pdh 8,5 kW Pdh 9,1 kW Pdh 9,1 kW Pdh 9,1 kW Pdh 8,5 kW Pdh 8,5 kW Pdh 8,5 kW Pdh 8,5 kW Pdh 7. kW Pdh 8,3 kW Pdh 7. kW At at the the the the the the the the the th	nonoo)yesro)nos/no)noater: (yes/no)yesnomediumater: (yes/no)yesnomediumater: (yes/no)yesnomediumater: (yes/no)yesnomediumaverageyesSymbolValueUnitItemredumaveragepeclared coefficiencymance for part load at indoorDeclared coefficiencypdh8,5kWTj = -7°CPdh8,5kWTj = +12°CPdh9,4kWTj = +12°CPdh9,3kWTj = operation limit temperaturePdh8,3kWTj = operation limit temperaturePdh-kWCycling interval efficiencyPdh-kWCycling interval efficiencyPorp0,015kWRated heat outputPorp0,015kWRated heat outputPorp0,015kWRated heat outputPorp-kWFor air-to-water heat pumps:Rated air flow rate, outdoorsRated air flow rate, outdoorsRated air flow rate, outdoorsRated h	no       no         o)       yes         no       no         s/no)       no         s/no)       no         ater: (yes/no)       yes         no       medium         average       symbol         Symbol       Value       Unit         Item       Symbol         Prated       10       kW         Seasonal space heating energy efficiency       nS         mance for part load at indoor r temperature 20°C and outdoor 10°C and 10°C an	no       yes         no)       no         no)       no         s/no)       no         atter: (yes/no)       yes         i       no         atter: (yes/no)       yes         i       no         gymbol       Value       Unit         Item       Symbol       Value         Prated       10       kW         Seasonal space heating energy efficiency $\eta$ S       142,7         remergy efficiency $\eta$ S       142,7         mance for part load at indoor temperature 20 °C and outdoor temperature Tj       Declared coefficient of performance for part load at intoor temperature 1         Pdh       8,5       kW       Tj = -7°C       COPd       3,05         Pdh       8,5       kW       Tj = +2°C       COPd       3,05         Pdh       9,1       kW       Tj = +2°C       COPd       2,82         Pdh       9,4       kW       Tj = operation limit temperature       COPd       2,82         Pdh       9,3       kW       Tj = operation limit temperature       COPd       2,82         Pdh       -       kW       Cycling interval efficiency       COPcyc       -	

				- i				
Model				SI 10.2H3				
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: (ye	s/no)		no					
Equipped with supplementary he	ater: (yes/no	<b>)</b>	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	11	kW	Seasonal space heating energy efficiency	ηS	214,2	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj					Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	9,4	kW	Tj = -7°C	COPd	5,23	-	
Tj = +2°C	Pdh	9,5	kW	Tj = +2°C	COPd	5,63	-	
Tj = +7°C	Pdh	9,6	kW	Tj = +7°C	COPd	6,05	-	
Tj = +12°C	Pdh	9,7	kW	Tj = +12°C	COPd	6,52	-	
Tj = bivalent temperature	Pdh	9,4	kW	Tj = bivalent temperature	COPd	5,23	-	
Tj = operation limit temperature	Pdh	9,3	kW	Tj = operation limit temperature	COPd	5,05	-	
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 <sub>biv</sub>	-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 <sub>OFF</sub>	0,015	kW	Rated heat output	Psup	1,3	kW	
Thermostat-off mode	P <sub>TO</sub>	0,015	kW	Type of energy input		electrical	1	
Standby mode	P <sub>SB</sub>	0,015	kW	-				
Crankcase heater mode	Рск	-	kW	-				
Other items	<b></b>		<u> </u>	1				
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h	
sound power level, indoors/outdoors	L <sub>WA</sub>	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	2	m <sup>3</sup> /h	
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh					
For heat pump combination h	eater:		-					
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		Iand GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany				
	and heat pu	Imp combinat	ion heaters, t	the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m			-		•			
			ant degrada					