

10362102

NOVELAN

SIP 56.1H



55 °C

35 °C



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Δ+

Λ

B

C

D

A++





59 dB



- dB

■ 52 ■ **52**

> ■ 52 kW

54

54

54

kW



2019

811/2013



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NOVELAN

SIP 56.1H



55 °C

35 °C



Λ++

 \mathbf{A}^{+}

A

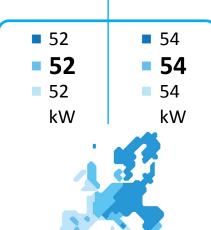
A++







- dB



2019

811/2013



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10362102

NOVELAN

SIP 56.1H + WPR-Net 2.05























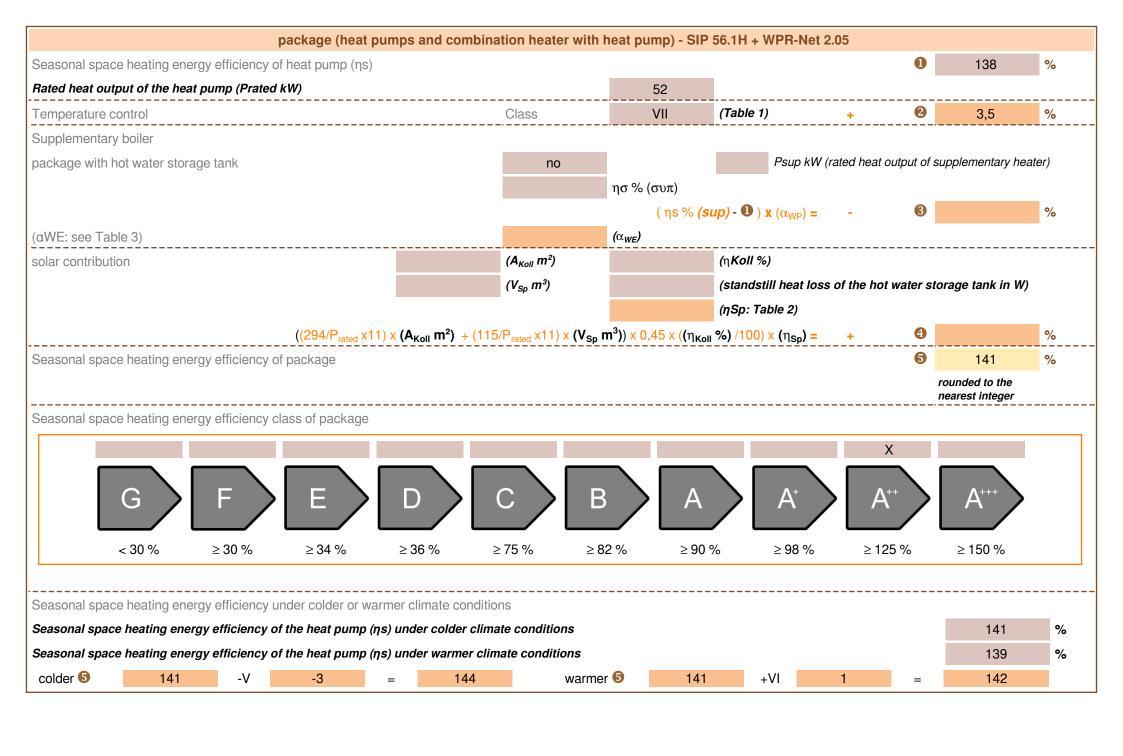


B

G







manufacturer:	NOVELAN			
model:	SIP 56.1H			
Information concerning energy efficiency class and rate	ed heat output:			
		+		
	average / low	average / medium		
energy efficiency class space heater:	A+++	A++	-	
rated heat output:	54	52	kW	
energy efficiency space heater:	181	138	%	
annual final energy consumption space heater	23745	29660	kWh	
sound power level indoors		59	dB	
special precautions concerning assembly, installation of All instructional work in this manual may only be carried out by regulations		nnel in compliance with loca	al	
		nnel in compliance with loca	al	
All instructional work in this manual may only be carried out by regulations.	qualified specialist persor	·	al	
All instructional work in this manual may only be carried out by regulations. additional information	qualified specialist persor	medium		
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate	o qualified specialist person low 54	medium 52	kW	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate	low 54 54	medium 52 52	kW kW	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 54 54 185	medium 52 52 52 141	kW kW %	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	low 54 54 185 183	medium 52 52 141 139	kW kW %	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate	low 54 54 185 183 27699	medium 52 52 141 139 34583	kW kW % kWh	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	low 54 54 185 183	medium 52 52 141 139	kW kW %	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate	low 54 54 185 183 27699	medium 52 52 141 139 34583	kW kW % kWh	

technical data of the temperature controller						
manufacturer:	NOVELAN					
model:	WPR-Net 2.05					
controller class	VII	-				
contribution of the controller to the energy efficiency space heater	3,5	%				

Model				SIP 56.1H				
Air-to-water heat pump: (yes/no)				no				
Brine-to-water heat pump: (yes/no)				yes				
, , ,				no				
Water-to-water heat pump: (yes/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				
Retad heat output	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	52	kW	Seasonal space heating energy efficiency	ηS	137,9	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoor			indoor		
Tj = -7°C	Pdh	52,6	kW	Tj = -7°C	COPd	3,09	-	
Tj = +2°C	Pdh	53,4	kW	Tj = +2°C	COPd	3,59	-	
Tj = +7°C	Pdh	53,9	kW	Tj = +7°C	COPd	3,98	-	
Tj = +12°C	Pdh	54,4	kW	Tj = +12°C	COPd	4,43	-	
Tj = bivalent temperature	Pdh	52,4	kW	Tj = bivalent temperature	COPd	2,97	-	
Tj = operation limit temperature	Pdh	52,4	kW	Tj = operation limit temperature	COPd	2,97	-	
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}	-10	°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	70	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	1	
Standby mode	P _{SB}	0,015	kW					
Crankcase heater mode	P _{CK}	-	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}	59 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	13	m ³ /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		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.		-		
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Model				SIP 56.1H				
Air-to-water heat pump: (yes/no)				no				
Brine-to-water heat pump: (yes/no)				yes				
Water-to-water heat pump: (yes/no)			•					
Low-temperature heat pump: (yes/no)			00					
Equipped with supplementary heater: (yes/no)			yes yes					
combination heater with: (yes/no)								
application: (low/medium)				low				
climate: (colder/average/warmer)				average				
Item Symbol Value Unit				Item	Symbol	Value	Unit	
Rated heat output	Prated	54	kW	Seasonal space heating	ηS	181,1	%	
nated near output	Traica]	IXVV	energy efficiency	اران	101,1	70	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of perfor temperature 20°C and outdoor			indoor		
Tj = -7°C	Pdh	54,4	kW	Tj = -7°C	COPd	4,44	-	
Tj = +2°C	Pdh	54,6	kW	Tj = +2°C	COPd	4,69	-	
Tj = +7°C	Pdh	54,8	kW	Tj = +7°C	COPd	4,92	-	
Tj = +12°C	Pdh	55,0	kW	Tj = +12°C	COPd	5,16	-	
Tj = bivalent temperature	Pdh	54,3	kW	Tj = bivalent temperature	COPd	4,44	-	
Tj = operation limit temperature	Pdh	54,3	kW	Tj = operation limit temperature	COPd	4,44	-	
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}	-10	°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	70	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	1	
Standby mode	P _{SB}	0,015	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items					1			
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h	
sound power level, indoors/outdoors	L _{WA}	59 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	13	m ³ /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		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.		•		
•								