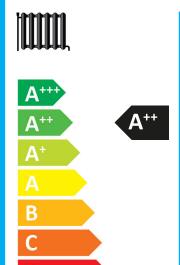
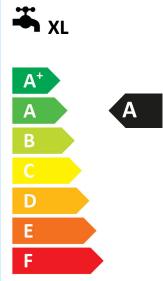


103626CS1201

NOVELAN

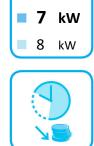
L8 Split-CS 12











10 kW



ENERGY

103626CS1201

NOVELAN

L8 Split-CS 12



























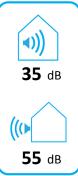
















2019

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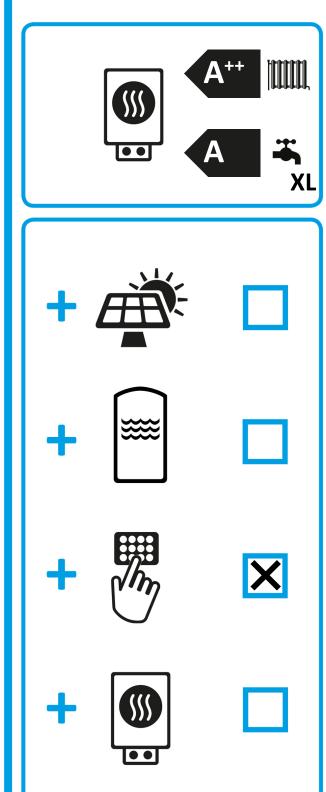


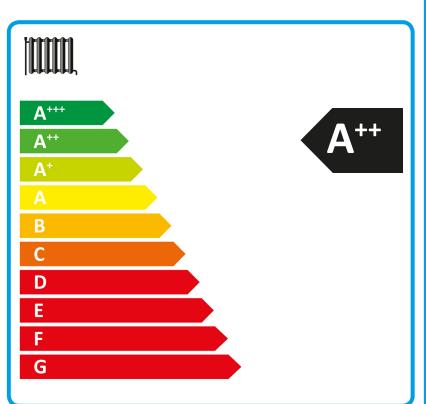
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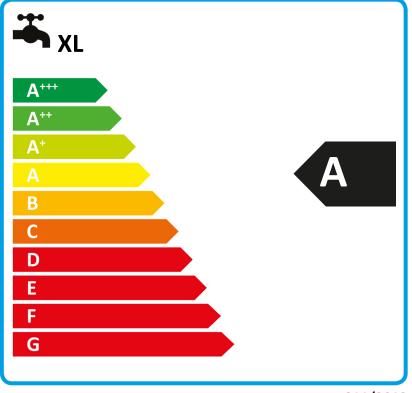
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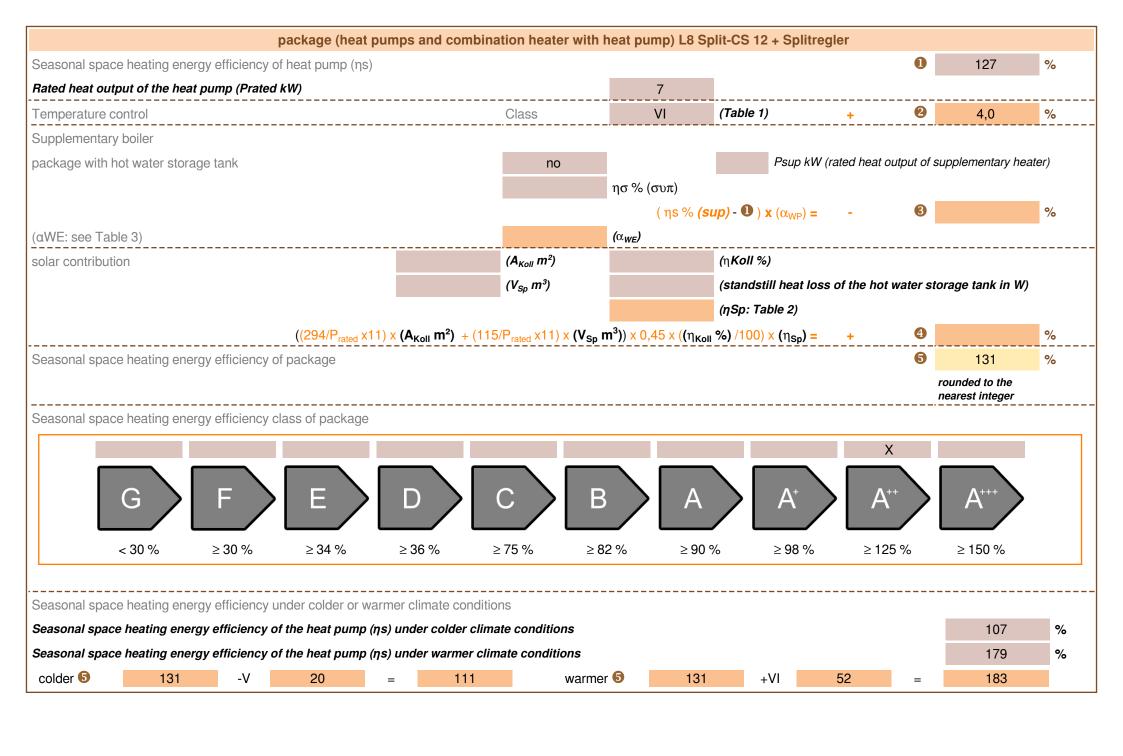
NOVELAN

L8 Split-CS 12 + Splitregler









heatpump datasheet:				
manufacturer:	NOVELAN			
model:	L8 Split-CS 12			
	· ·			
Information concerning energy efficiency class and rated	heat output:			
load profile water heating	XL		-	
	•		•	
	average / low	average / medium		
energy efficiency class space heater:	A++	A++	-	
energy efficiency class waterheating		Ä	-	
rated heat output:	8	7	kW	
annual final energy consumption space heater	3874	4435	kWh	
annual electricity consumption waterheating	1689		kWh	
energy efficiency space heater:	172	127	%	
energy efficiency waterheating	99		%	
	•		•	
sound power level indoors		35	dB	
special precautions concerning assembly, installation or n	naintenance			
All instructional work in this manual may only be carried out by qu	ualified specialist personnel in co	ompliance with local regulations	S.	
additional information	low	medium		
rated heat output colder climate	9	10	kW	
rated heat output warmer climate	8	8	kW	
annual energy consumption space heater colder climate	6278	9003	kWh	
annual energy consumption space heater warmer climate	1860	2350	kWh	
ann. Electricity consumption waterheating colder climate	1886		kWh	
ann. Electricity consumption waterheating warmer climate	1540		kWh	
energy effiency space heater colder climate	138	107	%	
energy effiency space heater warmer climate	227	179	%	
energy efficiency waterheating colder climate	89		%	
energy efficiency DHWwarmer climate	109		%	
sound power level outdoors		55	dB	

technical data of the temper	ature controller					
manufacturer:	nufacturer: NOVELAN					
model:	Splitregler					
controller class		VI	-			
contribution of the controller to the energy efficiency space heater		4,0	%			

Indication-water heat pump: (yes/no)	Model				L8 Split-CS 12			
Agric-to-water heat pump; (yes/no)	Air-to-water heat pump: (yes/no)			yes				
pulpped with supplementary heater: (yes/no)	Brine-to-water heat pump: (yes/no)			no				
pulpad with supplementary heater: (yes/no) yes optication: (low/medium) yes optication: (low/medium) mate; (colder/average/warmer) average Material Research Symbol Value Unit Item Symbol Value Unit				no				
yes	Low-temperature heat pump: (yes/no)			no	no			
materic (low/medium) materic (colder/average) materic (colder/average	Equipped with supplementary he	ater: (yes/no	o)		no			
mate: (colder/average/warmer) average	combination heater with: (yes/no))			yes			
Symbol Value Unit Item Symbol Value Unit Item Symbol Value Unit Item Seasonal space heating nys 127,0 % seasonal space heating nys 127,0 % mercy efficiency nys n	application: (low/medium)				medium			
Read Read output Prated 7 RW Seasonal space heating energy efficiency \$\ n\$ \$\ 127,0 \ % \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	climate: (colder/average/warmer))			average			
energy efficiency Declared coefficient of performance for part load at Indoor Imperature 20°C and outdoor temperature T 1	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
= -7 ° C	Rated heat output	Prated	7	kW		ηS	127,0	%
= +2°C				indoor				indoor
= +7 ° C	Tj = -7°C	Pdh	6,3	kW	Tj = -7°C	COPd	1,94	-
= +12°C	Tj = +2°C	Pdh	3,9	kW	Tj = +2°C	COPd	3,11	-
is bivalent temperature is power of the properature is properation in the properature is properation in properation in properature in properation is properation in propera	Tj = +7°C	Pdh	2,6	kW	Tj = +7°C	COPd	4,42	-
operation limit temperature Pdh 5,9 kW Tj = operation limit temperature COPd 1,86 - or air-to-water heat pumps: Tj r-15°C (if TOL < -20°C) real-to-water heat pumps: Tj r-15°C (if TOL < -20°C) real-to-water heat pumps: Tj r	Tj = +12°C	Pdh	3,7	kW	Tj = +12°C	COPd	5,93	-
or air-to-water heat pumps: Tj	Tj = bivalent temperature	Pdh	6,6	kW	Tj = bivalent temperature	COPd	1,83	-
=-15°C (if TOL < -20°C) =-15°C (if TOL < -20°C) = -15°C (if TOL < -20°C)	Tj = operation limit temperature	Pdh	5,9	kW	Tj = operation limit temperature	COPd	1,86	-
ycling interval capacity for acting water operating limit temperature	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW		COPd	-	-
egradation co-efficient (**) Cdh 1,0	Bivalent temperature	T _{biv}	-9	°C		TOL	-10	°C
temperature temperature t	Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
ff mode	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	58	°C
tandby mode	Power consumption in modes	other thai	active mod	e	Supplementary heater	•		
tandby mode	Off mode	P _{OFF}	0,002	kW	Rated heat output	Psup	1,1	kW
tandby mode	Thermostat-off mode		0,015	kW	Type of energy input		electrical	•
apacity control variable For air-to-water heat pumps: - 3.000 m³/h Rated air flow rate, outdoors bund power level, doors/outdoors LwA 35 / 55 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger missions of nitrogen oxides NO _X - mg/kWh or heat pump combination heater: eclared load profile XL Water heating energy efficiency \(\eta_{\text{lwh}}\) 99 % aily electricity consumption \(\text{Q}_{\text{elec}}\) 7,690 kWh Daily fuel consumption \(\text{Q}_{\text{elec}}\) Qfuel - kWh ontact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	Standby mode		0,015	kW				
apacity control variable For air-to-water heat pumps: Rated air flow rate, outdoors LWA 35 / 55 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger missions of nitrogen oxides NO _X mg/kWh or heat pump combination heater: eclared load profile XL Water heating energy efficiency NO _X Who Daily fuel consumption Qelec 7,690 RWh Daily fuel consumption Qfuel kWh Ontact details	Crankcase heater mode	P _{CK}	0,030	kW				
Rated air flow rate, outdoors Dund power level, doors/outdoors Dund power level, doors doors doors doors and pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate flow rate flow	Other items							
doors/outdoors $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Capacity control	variable				-	3.000	m ³ /h
or heat pump combination heater: eclared load profile XL Water heating energy efficiency η_{wh} 99 % aily electricity consumption Q_{elec} 7,690 kWh Daily fuel consumption Qfuel - kWh ontact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	sound power level, indoors/outdoors	L _{WA}	35 / 55	dB	pumps: Rated brine or water flow rate, outdoor heat	-	-	m ³ /h
eclared load profile XL Water heating energy efficiency η_{wh} 99 % ailly electricity consumption Q_{elec} 7,690 kWh Dailly fuel consumption Q_{fuel} - kWh ontact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	Emissions of nitrogen oxides	NO _X	-	mg/kWh				
aily electricity consumption Q _{elec} 7,690 kWh Daily fuel consumption Qfuel - kWh ontact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	For heat pump combination h	eater:						
aily electricity consumption Q _{elec} 7,690 kWh Daily fuel consumption Qfuel - kWh ontact details ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany	Declared load profile		XL		Water heating energy efficiency	η_{wh}	99	%
·	Daily electricity consumption	Q _{elec}	7,690	kWh	Daily fuel consumption		-	kWh
	Contact details	ait deutsch	land GmbH Ir	dustriestr. 3	95359 Kasendorf Germany	•	-	-
) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating designh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).								eating
*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								

Model				L8 Split-CS 12			
Air-to-water heat pump: (yes/no)			yes				
Brine-to-water heat pump: (yes/no)			no				
Water-to-water heat pump: (yes/no)			no				
Low-temperature heat pump: (yes/no)			no				
Equipped with supplementary hea	ater: (yes/no	o)		no			
combination heater with: (yes/no)				yes			
application: (low/medium)				low			
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	8	kW	Seasonal space heating energy efficiency	ηS	172,0	%
Declared coefficient of perform temperature 20°C and outdoo			indoor	Declared coefficient of perfor temperature 20°C and outdoor			indoor
Tj = -7°C	Pdh	7,4	kW	Tj = -7°C	COPd	2,92	-
Tj = +2°C	Pdh	4,5	kW	Tj = +2°C	COPd	4,30	-
Tj = +7°C	Pdh	2,9	kW	Tj = +7°C	COPd	5,42	-
Tj = +12°C	Pdh	3,5	kW	Tj = +12°C	COPd	7,37	-
Tj = bivalent temperature	Pdh	7,4	kW	Tj = bivalent temperature	COPd	2,86	-
Tj = operation limit temperature	Pdh	6,9	kW	Tj = operation limit temperature	COPd	2,67	-
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}	-8	°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	58	°C
Power consumption in modes	other than	active mod	le	Supplementary heater			•
Off mode	P _{OFF}	0,002	kW	Rated heat output	Psup	1,4	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	•
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	P _{CK}	0,030	kW				
Other items				•	ı		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.000	m ³ /h
sound power level, indoors/outdoors	L _{WA}	35 / 55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh	•	-	-	•
For heat pump combination he	eater:						
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
· · · · · · · · · · · · · · · · · · ·		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany			•
(*) For heat pump space heaters	and heat pu out of a sup	ımp combinat plementary he	ion heaters, teater Psup is	the rated heat output Prated is equ equal to the supplementary capac			h