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103698CS601

NOVELAN

L6 Split-CS 6



Two icons showing sound power levels. The top icon shows a speaker inside a house with the text "35 dB". The bottom icon shows a speaker outside a house with the text "51 dB".



Legend for power consumption: a dark blue square for 6 kW, a medium blue square for 5 kW, and a light blue square for 5 kW.

Icon representing energy saving, showing a clock face and a coin with an arrow pointing to it.

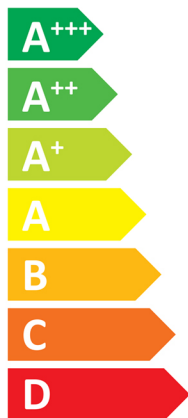


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L6 Split-CS 6



A++



A



35 dB



51 dB



6 kW

5 kW

5 kW





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Y

IJA

IE

IA

103698CS601

NOVELAN

L6 Split-CS 6 + Splitregler

Icons representing a radiator, energy class A⁺⁺, another radiator, energy class A, a tap, and the XL label.

Energy scale bar with levels A⁺⁺⁺, A⁺⁺, A⁺, A, B, C, D, E, F, G. A large arrow on the right points to the A⁺⁺ level.

Four feature icons: a solar panel, a water tank, a keypad, and a radiator. Each icon is preceded by a plus sign and followed by a square box.

Energy scale bar with levels A⁺⁺⁺, A⁺⁺, A⁺, A, B, C, D, E, F, G. A tap icon and XL label are at the top. A large arrow on the right points to the A level.

package (heat pumps and combination heater with heat pump) L6 Split-CS 6 + Splitregler

Seasonal space heating energy efficiency of heat pump (η_s)

① 131 %

Rated heat output of the heat pump (P_{rated} kW)

5

Temperature control

Class

VI (Table 1)

+

② 4,0 %

Supplementary boiler

package with hot water storage tank

no

P_{sup} kW (rated heat output of supplementary heater)

η_s % (σ_{π})

$(\eta_s \% (sup) - ①) \times (\alpha_{WP}) = -$ ③ %

(α_{WE} : see Table 3)

(α_{WE})

solar contribution

(A_{Koll} m²)

(η_{Koll} %)

(V_{Sp} m³)

(standstill heat loss of the hot water storage tank in W)

(η_{Sp} : Table 2)

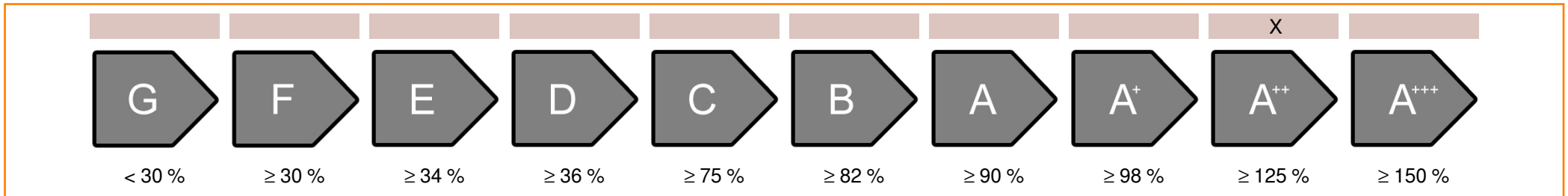
$((294/P_{rated} \times 11) \times (A_{Koll} \text{ m}^2) + (115/P_{rated} \times 11) \times (V_{Sp} \text{ m}^3)) \times 0,45 \times ((\eta_{Koll} \%) / 100) \times (\eta_{Sp}) = +$ ④ %

Seasonal space heating energy efficiency of package

⑤ 135 %

rounded to the nearest integer

Seasonal space heating energy efficiency class of package



Seasonal space heating energy efficiency under colder or warmer climate conditions

Seasonal space heating energy efficiency of the heat pump (η_s) under colder climate conditions

117 %

Seasonal space heating energy efficiency of the heat pump (η_s) under warmer climate conditions

179 %

colder ⑤ 135 -V 14 = 121 warmer ⑤ 135 +VI 48 = 183

heatpump datasheet:			
manufacturer:	NOVELAN		
model:	L6 Split-CS 6		
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	A		-
rated heat output:	5	5	kW
annual final energy consumption space heater	2072	3245	kWh
annual electricity consumption waterheating	1833		kWh
energy efficiency space heater:	188	131	%
energy efficiency waterheating	91		%
sound power level indoors	35		dB
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	4	6	kW
rated heat output warmer climate	4	5	kW
annual energy consumption space heater colder climate	2694	4555	kWh
annual energy consumption space heater warmer climate	870	1398	kWh
ann. Electricity consumption waterheating colder climate	2333		kWh
ann. Electricity consumption waterheating warmer climate	1474		kWh
energy efficiency space heater colder climate	143	117	%
energy efficiency space heater warmer climate	252	179	%
energy efficiency waterheating colder climate	72		%
energy efficiency DHWwarmer climate	114		%
sound power level outdoors	51		dB

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

Model				L6 Split-CS 6			
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 heater: (yes/no)				no			
combination heater with: (yes/no)				yes			
application: (low/medium)				medium			
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	5	kW	Seasonal space heating energy efficiency	η_S	131,0	%
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	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 = bivalent temperature	Pdh	4,7	kW	Tj = bivalent temperature	COPd	1,88	-
Tj = operation limit temperature	Pdh	4,1	kW	Tj = operation limit temperature	COPd	1,77	-
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	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh}	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0,007	kW	Rated heat output	P _{sup}	1,2	kW
Thermostat-off mode	P _{TO}	0,012	kW	Type of energy input	electrical		
Standby mode	P _{SB}	0,012	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m ³ /h
sound power level, indoors/outdoors	L _{WA}	35 / 51	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 heater:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	91	%
Daily electricity consumption	Q _{elec}	8,590	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Contact details	ait deutschland GmbH Industriestr. 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 Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Model				L6 Split-CS 6			
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 heater: (yes/no)				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	5	kW	Seasonal space heating energy efficiency	η_S	188,0	%
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	4,3	kW	Tj = -7°C	COPd	2,60	-
Tj = +2°C	Pdh	2,6	kW	Tj = +2°C	COPd	4,84	-
Tj = +7°C	Pdh	1,7	kW	Tj = +7°C	COPd	6,91	-
Tj = +12°C	Pdh	2,7	kW	Tj = +12°C	COPd	7,72	-
Tj = bivalent temperature	Pdh	4,3	kW	Tj = bivalent temperature	COPd	2,60	-
Tj = operation limit temperature	Pdh	3,2	kW	Tj = operation limit temperature	COPd	2,24	-
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	Pcyc	-	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 mode				Supplementary heater			
Off mode	P _{OFF}	0,007	kW	Rated heat output	P _{sup}	1,6	kW
Thermostat-off mode	P _{TO}	0,012	kW	Type of energy input	electrical		
Standby mode	P _{SB}	0,012	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m ³ /h
sound power level, indoors/outdoors	L _{WA}	35 / 51	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 heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Contact details	ait deutschland GmbH Industriestr. 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 Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							