



# ENERG

енергия · ενεργεια



103698HV601

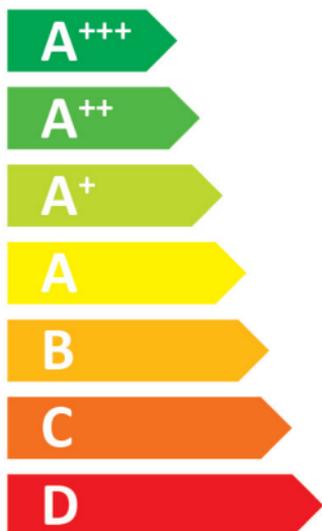
NOVELAN

L6 Split-HV 6



55 °C

35 °C



**35** dB



**51** dB





# ENERGY

103698HV601

NOVELAN

L6 Split-HV 6



55 °C

35 °C



A<sup>++</sup>

A<sup>+++</sup>



35 dB



51 dB

■ 6  
■ 5  
■ 5  
kW

■ 4  
■ 5  
■ 4  
kW





# ENERG

енергия · ενεργεια

Y

IJA

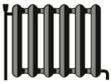
IE

IA

103698HV601

NOVELAN

L6 Split-HV 6 + Splitregler



A<sup>++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

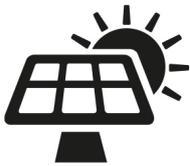
D

E

F

G

+



+



+



+



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

Seasonal space heating energy efficiency of heat pump ( $\eta_s$ ) 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)

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

( $\alpha_{WE}$ : see Table 3)  $(\alpha_{WE})$

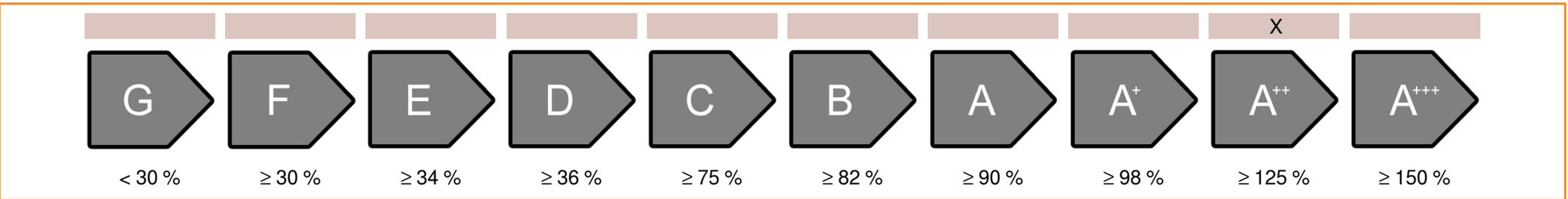
solar contribution  $(A_{Koll} m^2)$   $(\eta_{Koll} \%)$   
 $(V_{Sp} m^3)$   $(standstill\ heat\ loss\ of\ the\ hot\ water\ storage\ tank\ in\ W)$   
 $(\eta_{Sp}: Table\ 2)$

$((294/P_{rated} \times 11) \times (A_{Koll} m^2) + (115/P_{rated} \times 11) \times (V_{Sp} m^3)) \times 0,45 \times ((\eta_{Koll} \%) / 100) \times (\eta_{Sp}) =$  + 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 ( $\eta_s$ ) under colder climate conditions** 117 %

**Seasonal space heating energy efficiency of the heat pump ( $\eta_s$ ) under warmer climate conditions** 179 %

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

<b>heatpump datasheet:</b>			
<b>manufacturer:</b>	NOVELAN		
<b>model:</b>	L6 Split-HV 6		
<b>Information concerning energy efficiency class and rated heat output:</b>			
	average / low	average / medium	
energy efficiency class space heater:	A+++	A++	-
rated heat output:	5	5	kW
energy efficiency space heater:	188	131	%
annual final energy consumption space heater	2072	3245	kWh
sound power level indoors		35	dB
<b>special precautions concerning assembly, installation or maintenance</b>			
All instructional work in this manual may only be carried out by qualified specialist personnel in compliance with local regulations.			
<b>additional information</b>	low	medium	
rated heat output colder climate	4	6	kW
rated heat output warmer climate	4	5	kW
energy efficiency space heater colder climate	143	117	%
energy efficiency space heater warmer climate	252	179	%
annual energy consumption space heater colder climate	2694	4555	kWh
annual energy consumption space heater warmer climate	870	1398	kWh
sound power level outdoors		51	dB

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

Model				L6 Split-HV 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)				no			
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	$\eta_S$	131,0	%
<b>Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj</b>				<b>Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj</b>			
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P <sub>cyh</sub>	-	kW	Cycling interval efficiency	COP <sub>cyh</sub>	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	58	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary heater</b>			
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	P <sub>sup</sub>	1,2	kW
Thermostat-off mode	P <sub>TO</sub>	0,012	kW	Type of energy input	electrical		
Standby mode	P <sub>SB</sub>	0,012	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
<b>Other items</b>							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	35 / 51	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh				
<b>For heat pump combination heater:</b>							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
<b>Contact details</b>	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.							

<b>Model</b>				<b>L6 Split-HV 6</b>			
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)				no			
application: (low/medium)				low			
climate: (colder/average/warmer)				average			
<b>Item</b>	<b>Symbol</b>	<b>Value</b>	<b>Unit</b>	<b>Item</b>	<b>Symbol</b>	<b>Value</b>	<b>Unit</b>
<b>Rated heat output</b>	Prated	5	kW	<b>Seasonal space heating energy efficiency</b>	$\eta_S$	188,0	%
<b>Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj</b>				<b>Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj</b>			
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P <sub>cyh</sub>	-	kW	Cycling interval efficiency	COP <sub>cyh</sub>	-	-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	58	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary heater</b>			
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	P <sub>sup</sub>	1,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,012	kW	Type of energy input	electrical		
Standby mode	P <sub>SB</sub>	0,012	kW				
Crankcase heater mode	P <sub>CK</sub>	-	kW				
<b>Other items</b>							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2.526	m <sup>3</sup> /h
sound power level, indoors/outdoors	L <sub>WA</sub>	35 / 51	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh				
<b>For heat pump combination heater:</b>							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
<b>Contact details</b>	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.							