ENERG Y IJA
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100698HT601

alpha innotec L6 Split-HT 6

XL

A+++
A++
A+
A
B
C
D

A++

A+
A
B
C
D
E
F

A

35 dB

51 dB

6 kW
5 kW
5 kW

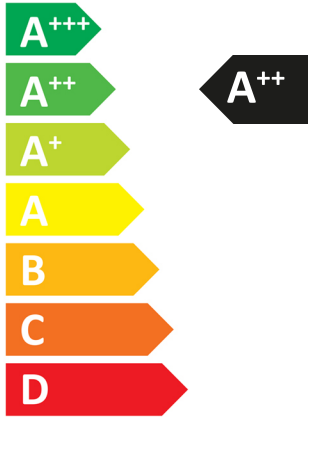
2019

811/2013

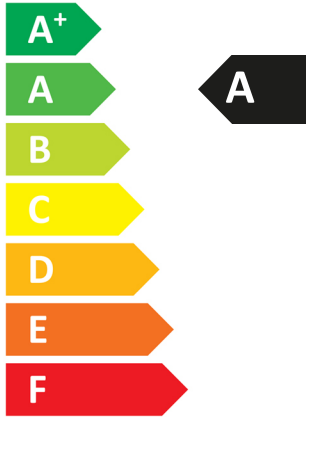
ENERGY

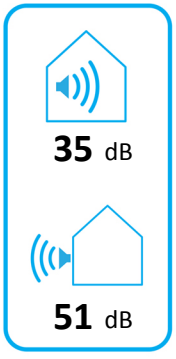
100698HT601

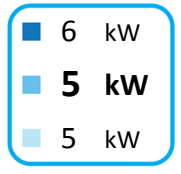
alpha innotec L6 Split-HT 6



XL







2019 811/2013

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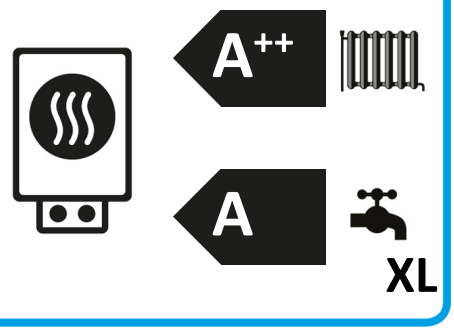
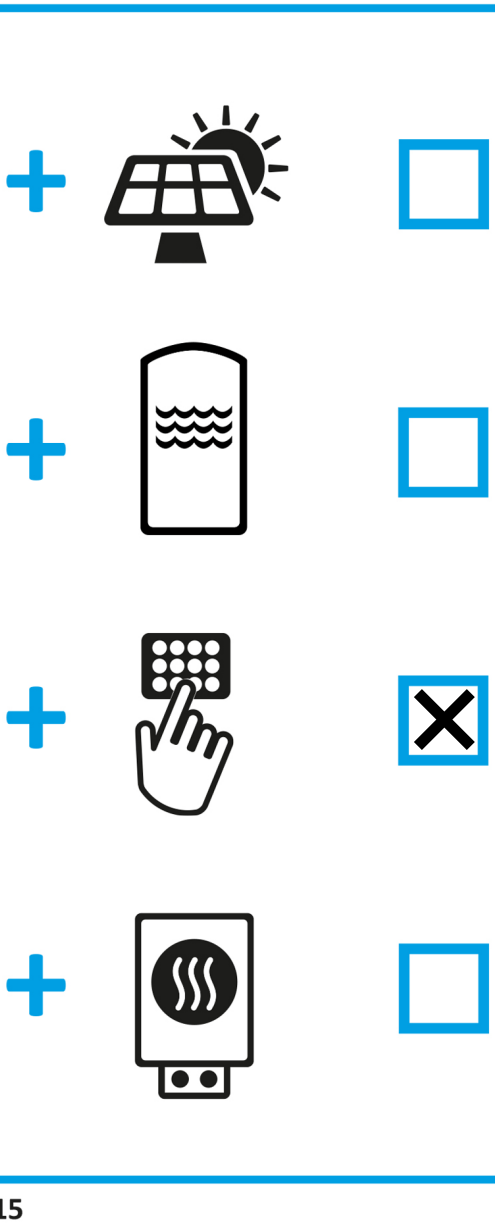
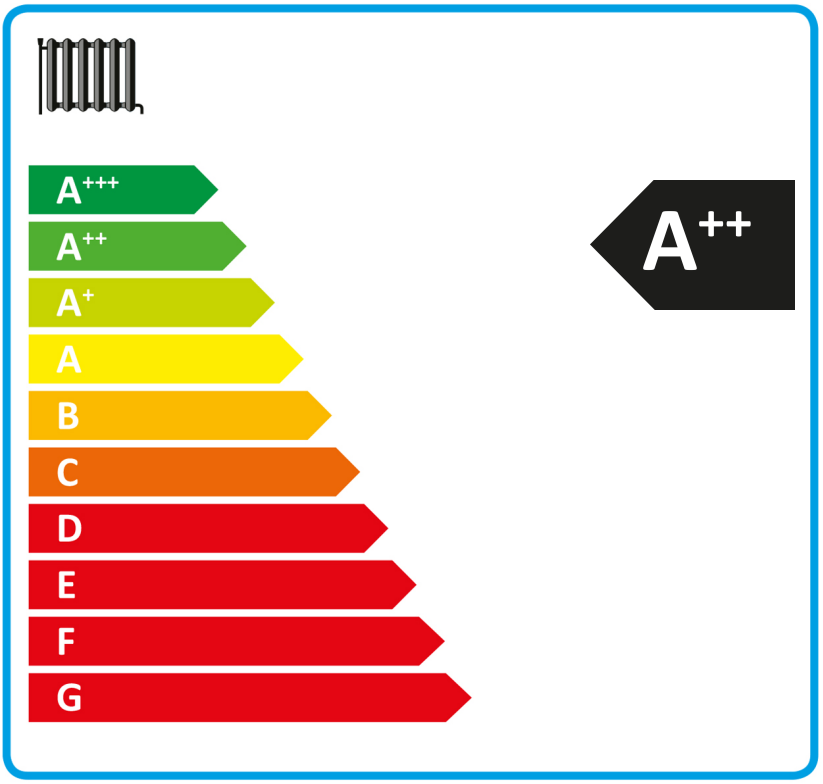
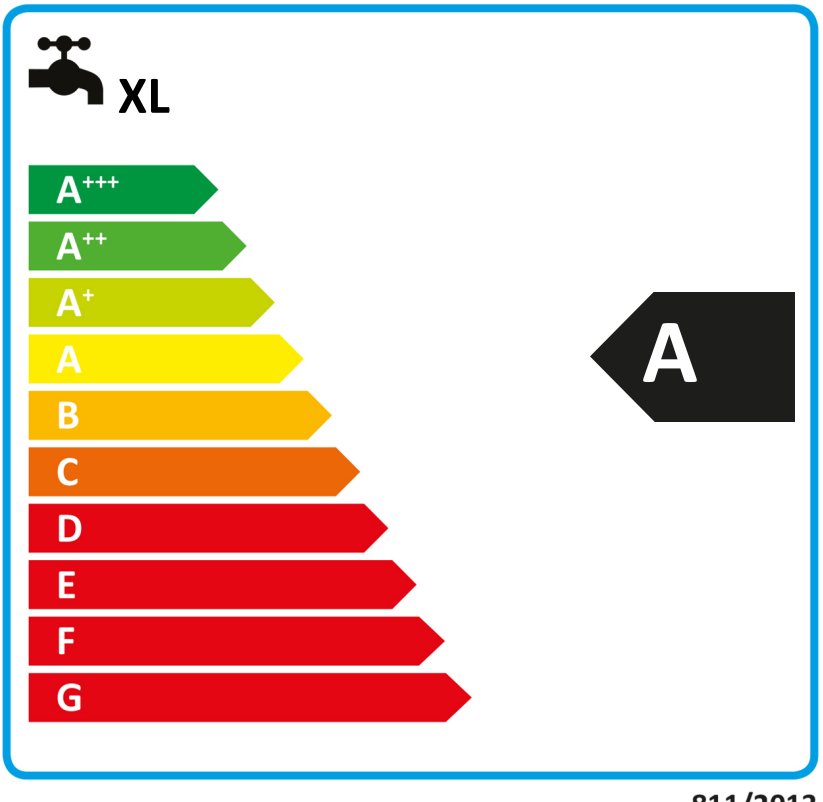
alpha innotec

L6 Split-HT 6 + Splitregler









2015

811/2013

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

Seasonal space heating energy efficiency of heat pump (ηs) ❶ 131 %

Rated heat output of the heat pump (Prated kW) 5

Temperature control — Class VI ***(Table 1)*** + ❷ 4,0 %

Supplementary boiler

package with hot water storage tank: no — *Psup kW (rated heat output of supplementary heater)*

ησ % (συπ)

(ηs % ***(sup)*** - ❶) x (α_{WP}) = - ❸ %

(αWE: see Table 3) ***(α_{WE})***

solar contribution — ***(A_{Koll} m^2)*** ***(ηKoll %)***

(V_{Sp} m^3) ***(standstill heat loss of the hot water storage tank in W)***

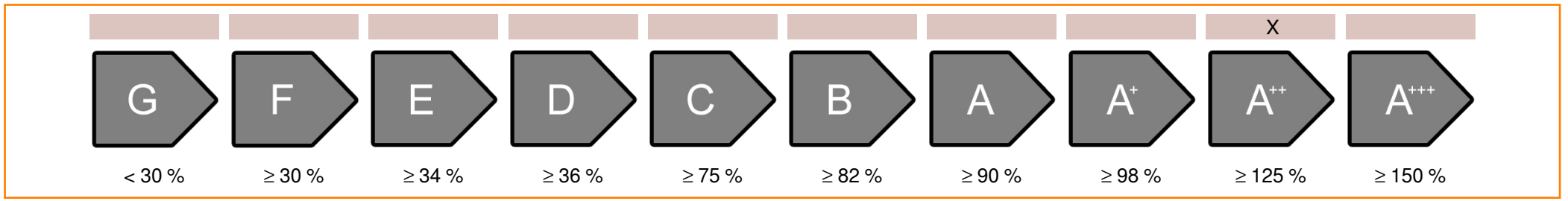
(ηSp: Table 2)

((294/P_{rated} x11) x **(A_{Koll} m^2)** + (115/P_{rated} x11) x **(V_{Sp} m^3)**) x 0,45 x (**η_{Koll} %**) /100) x (**η_{Sp}**) = + ❹ %

Seasonal space heating energy efficiency of package ❺ 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 (ηs) under colder climate conditions 117 %

Seasonal space heating energy efficiency of the heat pump (ηs) under warmer climate conditions 179 %

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

heatpump datasheet:			
manufacturer:	**alpha innotec**		
model:	**L6 Split-HT 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 effiency space heater colder climate	143	117	%
energy effiency 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:	**alpha innotec**	
model:	**Splitregler**	
controller class	VI	-
contribution of the controller to the energy efficiency space heater	4,0	%

Model				**L6 Split-HT 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**	ηS	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	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 mode				**Supplementary heater**			
Off mode	P_{OFF}	0,007	kW	Rated heat output	Psup	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	Qfuel	-	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-HT 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**	ηS	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	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 mode				**Supplementary heater**			
Off mode	P_{OFF}	0,007	kW	Rated heat output	Psup	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	Qfuel	-	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.