



ENERG  
енергия · ενεργεια



100544LUX02

alpha innotec

LW 140A-LUX 2.0



55 °C

35 °C



A<sup>++</sup>

A<sup>++</sup>



- dB



58 dB

■ 13  
■ 14  
■ 16  
kW

■ 13  
■ 14  
■ 16  
kW





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LW 140A-LUX 2.0



55 °C

35 °C

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

A<sup>++</sup>

A<sup>++</sup>



- dB



**58** dB

■ 13  
■ **14**  
■ 16  
kW

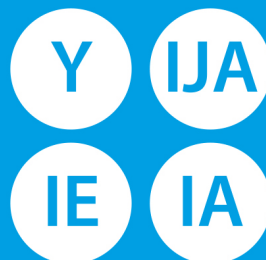
■ 13  
■ **14**  
■ 16  
kW





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100544LUX02

alpha innotec

LW 140A-LUX 2.0 + Luxtronik 2.0



A<sup>++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

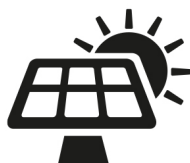
D

E

F

G

+



+



+



+



package (heat pumps and combination heater with heat pump) - LW 140A-LUX 2.0 + Luxtronik 2.0

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

① 125 %

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

14

Temperature control

Class

III (Table 1)

+

② 1,5 %

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<sup>2</sup>)

( $\eta_{Koll}$  %)

( $V_{Sp}$  m<sup>3</sup>)

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

( $\eta_{Sp}$ : Table 2)

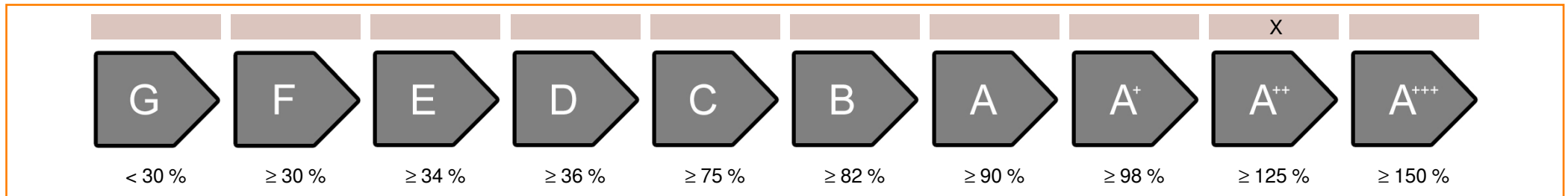
((294/ $P_{rated}$  x11)  $\times$  ( $A_{Koll}$  m<sup>2</sup>) + (115/ $P_{rated}$  x11)  $\times$  ( $V_{Sp}$  m<sup>3</sup>))  $\times$  0,45  $\times$  (( $\eta_{Koll}$  %)/100)  $\times$  ( $\eta_{Sp}$ ) = + ④ %

Seasonal space heating energy efficiency of package

⑤ 127 %

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**

115 %

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

152 %

colder ⑤ 127 -V 10 = 117 warmer ⑤ 127 +VI 27 = 154

heatpump datasheet:			
manufacturer:		alpha innotec	
model:		LW 140A-LUX 2.0	
Information concerning energy efficiency class and rated heat output:			
	average / low	average / medium	
energy efficiency class space heater:	A++	A++	-
rated heat output:	14	14	kW
energy efficiency space heater:	157	125	%
annual final energy consumption space heater	7447	8842	kWh
sound power level indoors		-	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	13	13	kW
rated heat output warmer climate	16	16	kW
energy efficiency space heater colder climate	140	115	%
energy efficiency space heater warmer climate	190	152	%
annual energy consumption space heater colder climate	9044	10533	kWh
annual energy consumption space heater warmer climate	4553	5391	kWh
sound power level outdoors		58	dB

technical data of the temperature controller		
manufacturer:	alpha innotec	
model:	Luxtronik 2.0	
controller class	III	-
contribution of the controller to the energy efficiency space heater	1,5	%



