



ENERG
енергия · ενεργεια



10053202

alpha innotec

LW 140



55 °C

35 °C



A⁺⁺

A⁺⁺



58 dB



56 dB

■ 13
■ **14**
■ 16
kW

■ 13
■ **14**
■ 16
kW





ENERGY

10053202

alpha innotec

LW 140



55 °C

35 °C

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺

A⁺⁺



58 dB



56 dB

■ 13
■ **14**
■ 16
kW

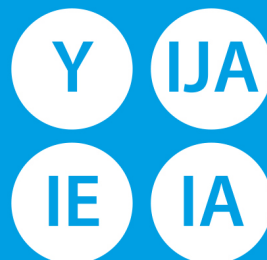
■ 13
■ **14**
■ 16
kW





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LW 140 + Luxtronik 2.0



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

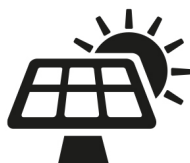
D

E

F

G

+



+



+



+



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

Seasonal space heating energy efficiency of heat pump (η_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)

η_s % ($\sigma\pi$)

(η_s % (**sup**) - ①) $\times$ (α_{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} x11) $\times$ (A_{Koll} m²) + (115/ P_{rated} x11) $\times$ (V_{Sp} m³)) $\times$ 0,45 $\times$ ((η_{Koll} %) /100) $\times$ (η_{Sp}) = +

④

%

Seasonal space heating energy efficiency of package

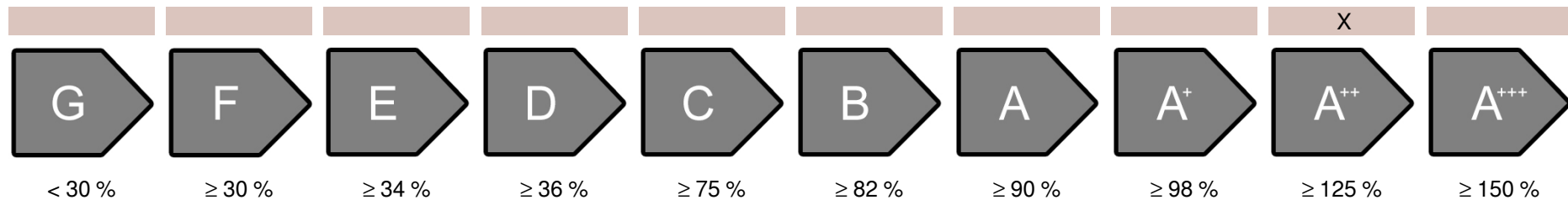
⑤

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 (η_s) under colder climate conditions

115 %

Seasonal space heating energy efficiency of the heat pump (η_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 140	
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		58	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 effiency space heater colder climate	140	115	%
energy effiency 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		56	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	%

