



ENERG
енергия · ενεργεια



100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3



55 °C

35 °C



A⁺⁺

A⁺⁺



44 dB



51 dB

■ 7
■ 9
■ 7
kW

■ 9
■ 10
■ 7
kW





ENERGY

100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3



55 °C

35 °C

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺

A⁺⁺



44 dB



51 dB

■ 7

■ **9**

■ 7

kW

■ 9

■ **10**

■ 7

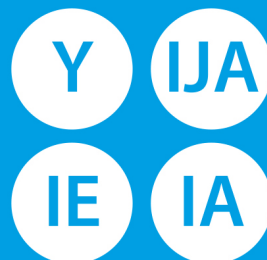
kW





ENERG

енергия · ενεργεια



100779HV1241

alpha innotec

LWAV+ 122R3-HV 12-3 + Luxtronik 2.1



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

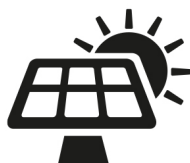
D

E

F

G

+



+



+



+



package (heat pumps and combination heater with heat pump) - LWAV+ 122R3-HV 12-3 + Luxtronik 2.1

Seasonal space heating energy efficiency of heat pump (η_s)

① 132 %

Rated heat output of the heat pump (Prated kW)

9

Temperature control

Class

VII

(Table 1)

+

②

3,5

%

Supplementary boiler

package with hot water storage tank

no

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

η_s % ($\sigma\pi$)

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

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)

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

④

%

Seasonal space heating energy efficiency of package

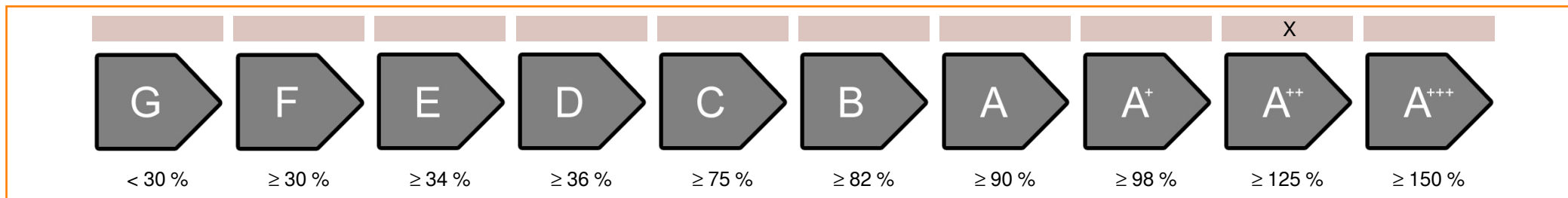
⑤

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

112 %

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

150 %

colder ⑤

135

-V

19

=

116

warmer ⑤

135

+VI

18

=

153

heatpump datasheet:			
manufacturer:		alpha innotec	
model:		LWAV+ 122R3-HV 12-3	
Information concerning energy efficiency class and rated heat output:			
	average / low	average / medium	
energy efficiency class space heater:	A++	A++	-
rated heat output:	10	9	kW
energy efficiency space heater:	174	132	%
annual final energy consumption space heater	4681	5398	kWh
sound power level indoors		44	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	9	7	kW
rated heat output warmer climate	7	7	kW
energy effiency space heater colder climate	132	112	%
energy effiency space heater warmer climate	181	150	%
annual energy consumption space heater colder climate	6290	5984	kWh
annual energy consumption space heater warmer climate	1887	2268	kWh
sound power level outdoors		51	dB

technical data of the temperature controller		
manufacturer:	alpha innotec	
model:	Luxtronik 2.1	
controller class	VII	-
contribution of the controller to the energy efficiency space heater	3,5	%

