



ENERG
енергия · ενεργεια



100605HMD02

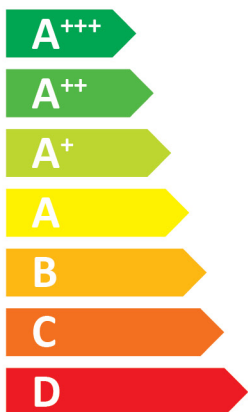
alpha innotec

LWD 50A/RX-HMD



55 °C

35 °C



A⁺⁺

A⁺⁺



44 dB



57 dB

■ 5
■ 5
■ 7
kW

■ 5
■ 6
■ 7
kW





ENERGY

100605HMD02

alpha innotec

LWD 50A/RX-HMD



55 °C

35 °C

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺

A⁺⁺



44 dB



57 dB

■ 5

■ **5**

■ 7

kW

■ 5

■ **6**

■ 7

kW





ENERG

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Y

IJA

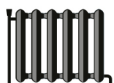
IE

IA

100605HMD02

alpha innotec

LWD 50A/RX-HMD + Luxtronik 2.1



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

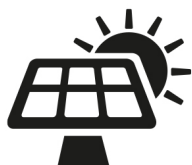
D

E

F

G

+



+



+



+



package (heat pumps and combination heater with heat pump) - LWD 50A/RX-HMD + Luxtronik 2.1

Seasonal space heating energy efficiency of heat pump (η_s)	125 %
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Rated heat output of the heat pump (Prated kW)	5
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Temperature control	Class	VII	(Table 1)	+	2	3,5	%
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Supplementary boiler

package with hot water storage tank	no	P_{sup} kW (rated heat output of supplementary heater)
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ησ % (συπ)

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

(α_{WE} : see Table 3)

solar contribution $(A_{Koll} m^2)$ $(\eta_{Koll} \%)$

($V_{sp} \text{ m}^3$) (standstill heat loss of the hot water storage tank in W)

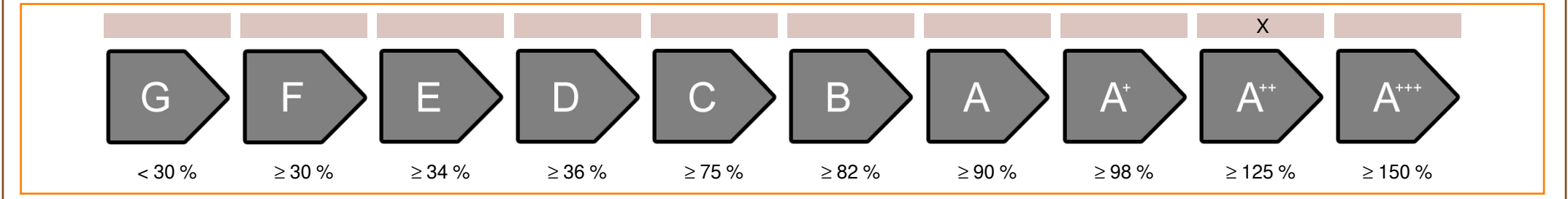
(η Sp: Table 2)

$$((294/P_{\text{rated}} \times 11) \times (A_{\text{Koll}} \text{ m}^2) + (115/P_{\text{rated}} \times 11) \times (V_{\text{Sp}} \text{ m}^3)) \times 0,45 \times ((\eta_{\text{Koll}} \%) / 100) \times (\eta_{\text{Sp}}) = \quad + \quad 4 \quad \%$$

Seasonal space heating energy efficiency of package	5	129	%
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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	114	%
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Seasonal space heating energy efficiency of the heat pump (η_s) under warmer climate conditions	151	%
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colder 5 129 -V 12 = 117 warmer 5 129 +VI 26 = 155

heatpump datasheet:			
manufacturer:		alpha innotec	
model:		LWD 50A/RX-HMD	
Information concerning energy efficiency class and rated heat output:			
	average / low	average / medium	
energy efficiency class space heater:	A++	A++	-
rated heat output:	6	5	kW
energy efficiency space heater:	152	125	%
annual final energy consumption space heater	3084	3485	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	5	5	kW
rated heat output warmer climate	7	7	kW
energy effiency space heater colder climate	135	114	%
energy effiency space heater warmer climate	185	151	%
annual energy consumption space heater colder climate	3849	4264	kWh
annual energy consumption space heater warmer climate	1978	2259	kWh
sound power level outdoors		57	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	%

