



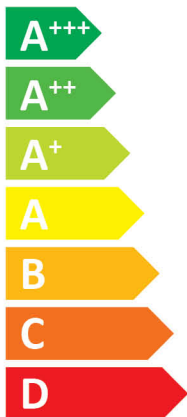
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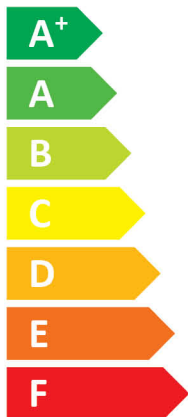
100602HTD02

alpha innotec

LWD 70A-HTD



A++



A



44 dB



57 dB



■ 5 kW

■ 8 kW

■ 9 kW



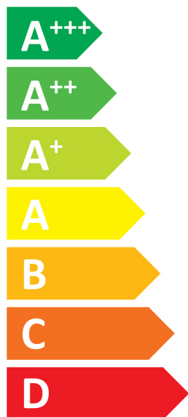
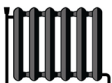


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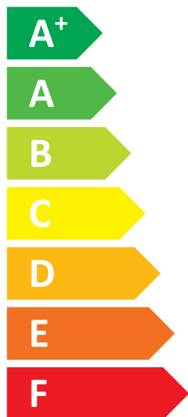
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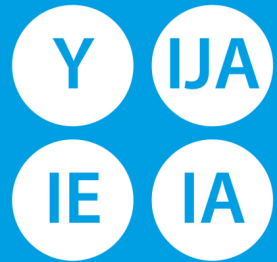
■ 9 kW





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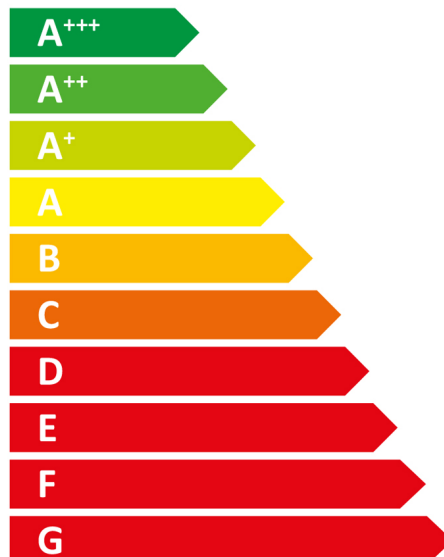
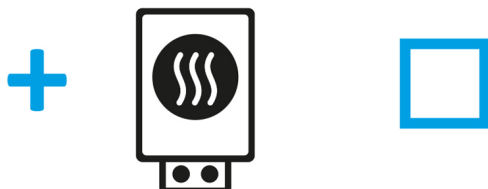
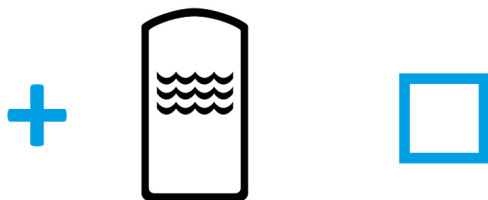
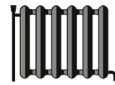
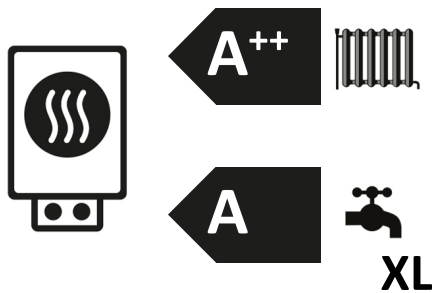
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100602HTD02

alpha innotec

LWD 70A-HTD + Luxtronik 2.1



package (heat pumps and combination heater with heat pump) LWD 70A-HTD + Luxtronik 2.1

Seasonal space heating energy efficiency of heat pump (η_s)	1	127	%
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Rated heat output of the heat pump (Prated kW)	8
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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)

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

(α_{WE} : see Table 3)

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

(V_{Sp} m³) (standstill heat loss of the hot water storage tank in W)

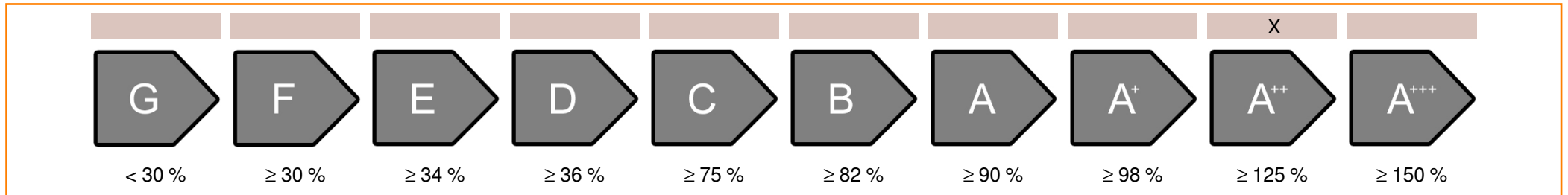
(η_{Sp} : Table 2)

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

Seasonal space heating energy efficiency of package	5	130	%
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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	116	%
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Seasonal space heating energy efficiency of the heat pump (η_s) under warmer climate conditions	159	%
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colder ⁵ 130 -V 11 = 119 warmer ⁵ 130 +VI 32 = 162

heatpump datasheet:			
manufacturer:		alpha innotec	
model:		LWD 70A-HTD	
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:	9	8	kW
annual final energy consumption space heater	4549	5278	kWh
annual electricity consumption waterheating	1948		kWh
energy efficiency space heater:	158	127	%
energy efficiency waterheating	86		%
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	6	5	kW
rated heat output warmer climate	9	9	kW
annual energy consumption space heater colder climate	4000	4484	kWh
annual energy consumption space heater warmer climate	2558	2938	kWh
ann. Electricity consumption waterheating colder climate	2148		kWh
ann. Electricity consumption waterheating warmer climate	1692		kWh
energy efficiency space heater colder climate	144	116	%
energy efficiency space heater warmer climate	193	159	%
energy efficiency waterheating colder climate	78		%
energy efficiency DHWwarmer climate	99		%
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	%

