



ENERG  
енергия · ενεργεια



10048342

alpha innotec

WWC 160H/X



55 °C

35 °C

A+++

A+++

A+++

A++

A+

A

B

C

D



50 dB



- dB

■ 14  
■ **14**  
■ 14  
kW

■ 15  
■ **15**  
■ 15  
kW





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**50** dB



- dB

■ 14  
■ **14**  
■ 14  
kW

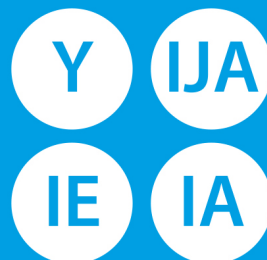
■ 15  
■ **15**  
■ 15  
kW





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WWC 160H/X + Luxtronik 2.0



A+++

A+++

A+++

A++

A+

A

B

C

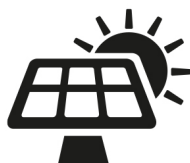
D

E

F

G

+



+



+



+



package (heat pumps and combination heater with heat pump) - WWC 160H/X + Luxtronik 2.0

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

1167%

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)

$\eta_s$  % ( $\sigma_{\pi}$ )

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

-

3

%

( $\alpha_{WE}$ : see Table 3)

$(A_{Koll} \text{ m}^2)$

$(V_{Sp} \text{ m}^3)$

$(\eta_{Koll} \text{ %})$

$(standstill \text{ heat loss of the hot water storage tank in W})$

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

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

+

4

%

Seasonal space heating energy efficiency of package

5168%

rounded to the nearest integer

Seasonal space heating energy efficiency class of package

X

G

F

E

D

C

B

A

A<sup>+</sup>

A<sup>++</sup>

A<sup>+++</sup>

< 30 %

≥ 30 %

≥ 34 %

≥ 36 %

≥ 75 %

≥ 82 %

≥ 90 %

≥ 98 %

≥ 125 %

≥ 150 %

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

172

%

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

168

%

colder 5

168

-V

-5

=

173

warmer 5

168

+VI

1

=

169

heatpump datasheet:			
manufacturer:		alpha innotec	
model:		WWC 160H/X	
Information concerning energy efficiency class and rated heat output:			
	average / low	average / medium	
energy efficiency class space heater:	A+++	A+++	-
rated heat output:	15	14	kW
energy efficiency space heater:	221	167	%
annual final energy consumption space heater	5278	6534	kWh
sound power level indoors		50	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	15	14	kW
rated heat output warmer climate	15	14	kW
energy efficiency space heater colder climate	246	172	%
energy efficiency space heater warmer climate	240	168	%
annual energy consumption space heater colder climate	5716	7568	kWh
annual energy consumption space heater warmer climate	3172	4197	kWh
sound power level outdoors		-	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	%



