

10080501

alpha innotec

Hybrox 8



55 °C

35 °C



40 dB



46 dB

2019

811/2013



10080501

alpha innotec

Hybrox 8



55 °C

35 °C



A ++

Δ+

Δ

R

L

A+++

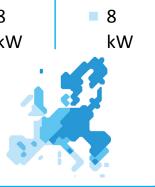
(I))

40 dB



46 dB

■ 7 ■ **8** ■ 8 kW



9

2019

811/2013



IJA ENERG енергия · ενεργεια

10080501

alpha innotec

Hybrox 8 + Lux 2.1





























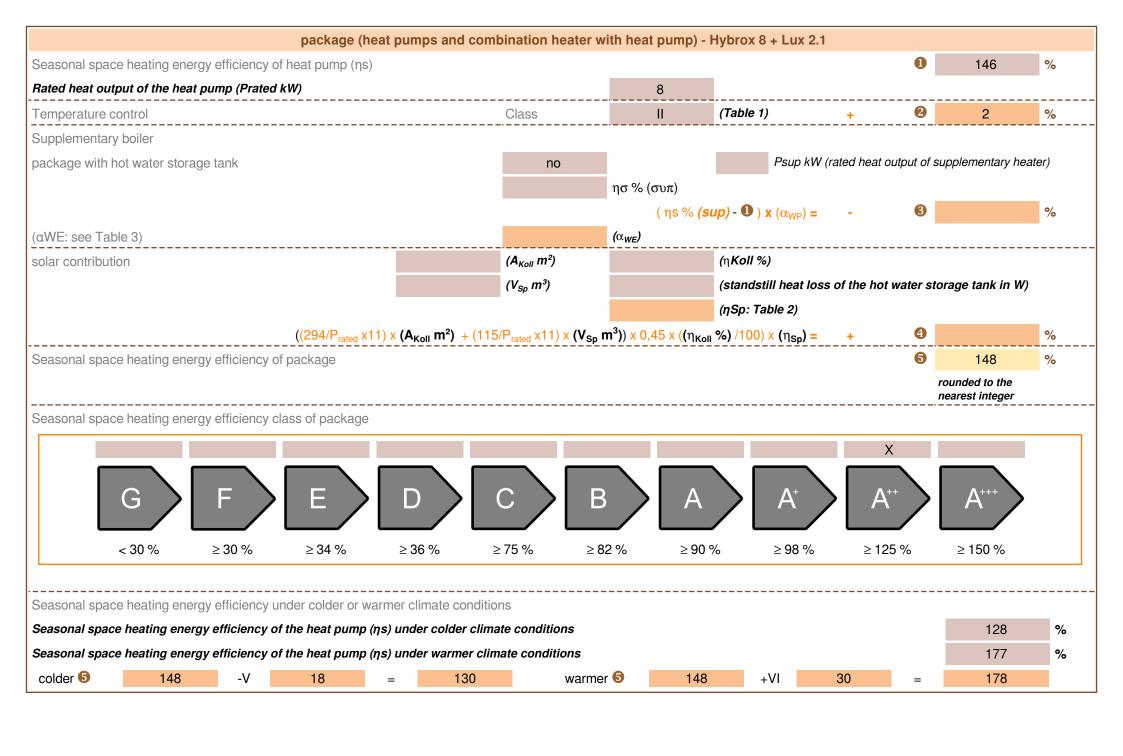






E





heatpump datasheet:						
manufacturer:	alpha innotec					
model:	Hybrox 8					
Information concerning energy efficiency class and ra	ted heat output:					
	average / low	average / medium				
energy efficiency class space heater:	A+++	A++	-			
rated heat output:	9	8	kW			
energy efficiency space heater:	185	146	%			
annual final energy consumption space heater	3786	4423	kWh			
	•	•				
sound power level indoors		40	dB			
additional information	low	medium				
rated heat output colder climate	7	7	kW			
rated heat output warmer climate	8	8	kW			
energy effiency space heater colder climate	165	128	%			
energy effiency space heater warmer climate	236	177	%			
annual energy consumption space heater colder climate	4225	5029	kWh			
annual energy consumption space heater warmer climate	1790	2466	kWh			
		•				
sound power level outdoors	46	dB				
		- -				

technical data of the temperature controller	nical data of the temperature controller						
manufacturer:	alpha innotec						
model:	Lux 2.1						
controller class	II	-					
contribution of the controller to the energy efficiency space heater	2	%					

Model				Hybrox 8				
Air-to-water heat pump: (yes/no)								
Brine-to-water heat pump: (yes/no)								
Water-to-water heat pump: (yes/no)								
Low-temperature heat pump: (yes/no)								
Equipped with supplementary heater: (yes/no)					yes			
combination heater with: (yes/no)					no			
application: (low/medium)								
climate: (colder/average/warmer)								
T	Unit	Item	Symbol	Value	Unit			
T	kW	Seasonal space heating energy efficiency	ηS	146,5	%			
t in	ndoor				ndoor			
T	kW	Tj = -7°C	COPd	2,30	-			
丁	kW	Tj = +2°C	COPd	3,70	-			
寸	kW	Tj = +7°C	COPd	4,93	-			
寸	kW	Tj = +12°C	COPd	6,13	-			
寸	kW	Tj = bivalent temperature	COPd	2,47	-			
T	kW	Tj = operation limit temperature	COPd	2,07	-			
1	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-			
1	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
1	kW	Cycling interval efficiency	COPcyc	-	-			
1	-	Heating water operating limit temperature	WTOL	65	°C			
de	•	Supplementary heater	<u>.</u>					
Т	kW	Rated heat output	Psup	2,0	kW			
T	kW	Type of energy input		electrical				
ヿ	kW	1						
ヿ	kW	1						
_		•	•					
		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.500	m ³ /h			
	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h			
寸	mg/kWh							
	- <u>"</u>							
		Water heating energy efficiency	η_{wh}	-	%			
Т	kWh	Daily fuel consumption	Qfuel	-	kWh			
In _'	ndustriestr. 3	, 95359 Kasendorf, Germany			•			
atio	on heaters, t	he rated heat output Prated is eq						
FTj 6,5 4,5 3,1 3,4 7,3 6,06 - 1,0 - tive mo 0,017 0,021 0,017 - variable 40 / 46	8 t load at in 17 6,5 4,5 3,1 3,4 7,3 6,06 - 1,0 tive mode 0,017 0,021 0,017 - variable 40 / 46	8 kW t load at indoor Tj 6,5 kW 4,5 kW 3,1 kW 3,4 kW 7,3 kW 6,0 kW - kW 1,0 - kW 1,0 - kW 1,0 - kW 0,017 kW 0,021 kW 0,017 kW - kW variable 40 / 46 dB - mg/kWh d GmbH, Industriestr. 3 combination heaters, tellows	yes no no no yes no medium average Value Unit Item 8 kW Seasonal space heating energy efficiency t load at indoor of to temperature 20°C and outdood 20°C and 20°C and outdood 2	yes no no no yes no medium average Value Unit Item Symbol 8 kW Seasonal space heating energy efficiency Copediate indoor Tij Declared coefficient of performance for temperature 20°C and outdoor limit temperature 20°C and outdoor limit temperature 20°C and outdoor 20°C an	yes			

Model				Hybrox 8				
Air-to-water heat pump: (yes/no)		yes	yes					
Brine-to-water heat pump: (yes/n		no						
Water-to-water heat pump: (yes/no)				no				
Low-temperature heat pump: (yes/no)			no					
Equipped with supplementary he	ater: (yes/no	0)		yes				
combination heater with: (yes/no)		no						
application: (low/medium)				low				
climate: (colder/average/warmer)				average	average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	ηS	184,7	%	
				Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				
Tj = -7°C	Pdh	7,3	kW	Tj = -7°C	COPd	3,04	-	
Tj = +2°C	Pdh	4,5	kW	Tj = +2°C	COPd	4,64	-	
Tj = +7°C	Pdh	3,3	kW	Tj = +7°C	COPd	6,17	-	
Tj = +12°C	Pdh	3,4	kW	Tj = +12°C	COPd	7,37	-	
Tj = bivalent temperature	Pdh	7,6	kW	Tj = bivalent temperature	COPd	3,14	-	
Tj = operation limit temperature	Pdh	6,7	kW	Tj = operation limit temperature	COPd	2,81	-	
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-	
Bivalent temperature	T _{biv}	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes	other thai	n active mod	<u>. </u>	Supplementary heater	•			
Off mode	P _{OFF}	0,017	kW	Rated heat output	Psup	1,9	kW	
Thermostat-off mode	P _{TO}	0,021	kW	Type of energy input		electrical	•	
Standby mode	P _{SB}	0,017	kW					
Crankcase heater mode	P _{CK}	-	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3.500	m ³ /h	
sound power level, indoors/outdoors	L _{WA}	40 / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh					
For heat pump combination h	eater:							
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		land GmbH, I	ndustriestr. 3	3, 95359 Kasendorf, Germany			•	
				the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m		-						