





55 °C

35 °C



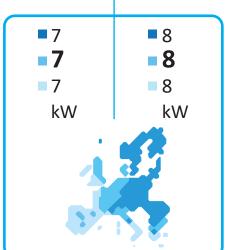




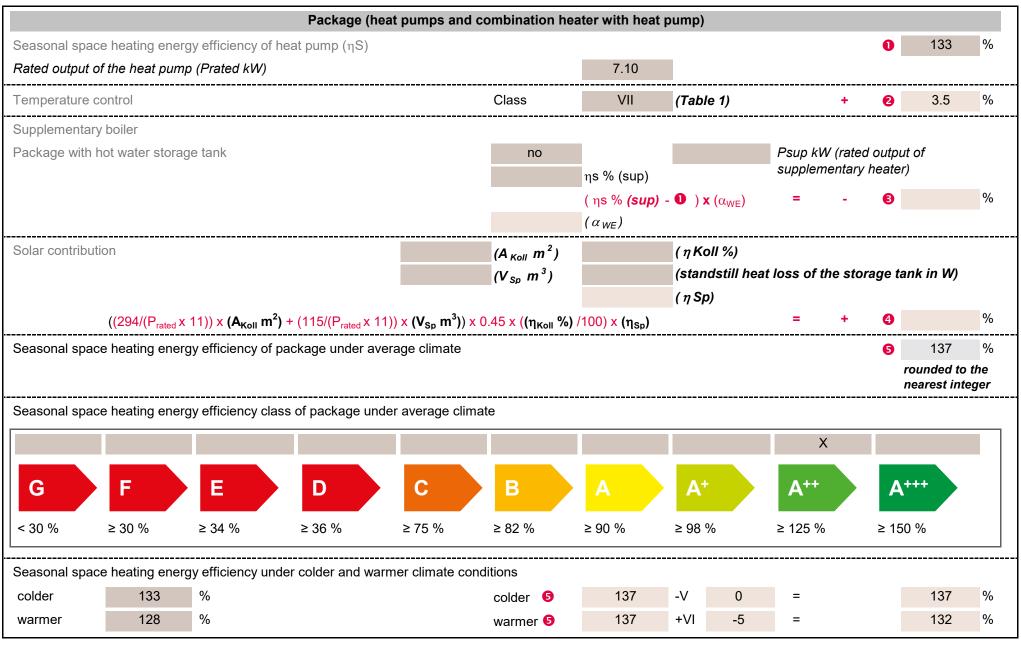
48 dB



-- dB



2019 811/2013



The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.



Product fiche

Manufacturer	CTA AG
Model	OH 1-8es 230V B/W



Information on energy efficiency class and rated output

	Average /	Average /	
	Low temperature	Medium temperature	
Space heating energy efficiency class	A+++	A++	-
Rated heat output	7.70	7.10	kW
Seasonal space heating energy efficiency	189	133	%
Annual final energy consumption space heating	3181	4096	kWh
	1	•	
Sound power level indoors		48	dB

Special precautions during assembly, installation or maintenance

All instructional work in the installation and maintenance manual may only be carried out by qualified specialist personnel in compliance with local regulations. Any special precautions can be found in the manual on the website www.cta.ch

Additional information	Low temperature	Medium temperature	
Rated heat output colder climate	7.70	7.10	kW
Rated heat output warmer climate	7.70	7.10	kW
Seasonal space heating energy efficiency colder climate	194	133	%
Seasonal space heating energy efficiency warmer climate	184	128	%
Annual final energy consumption colder climate	3722	4954	kWh
Annual final energy consumption warmer climate	2096	2742	kWh
Sound power level outdoors		-	dB

Technical data of the temperature controller

nufacturer Siemens				
Model	RVS 61	RVS 61		
Class of the controller	VII	-		
Contribution of the controller to seasonal space heating energy efficiency	3.5	%		

Contact	CTA AG, Hunzigenstrasse 2, CH-3110 Münsingen
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Model				OH 1-8es 230V B/W			
Brine-to-water heat pump: (Yes/No)				Yes	-		
Water-to-water heat pump: (Yes/No) Air-to-water heat pump: (Yes/No)			No				
		No					
Low temperature heat pump: (Yes/No)		No					
Equipped with supplementary heater: (Yes/No)		Yes					
Heat pump combination heater: (Yes/No)		No	AC Cooling Heating				
Application: (Low temperature/Mediu	ım temperatı	ıre)		Medium temperature			
Climate: (Colder/Average/Warmer)	<u> </u>	*		Average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	7.10	kW	Seasonal space heating energy efficiency	ηS	133	%
Declared capacity for heating for p	oart load at i	ndoor	1	Declared coefficient of performar	nce for part l	oad at indo	or
temperature 20°C and outdoor ten	•			temperature 20°C and outdoor te		·	
Tj = -7°C	Pdh	7.10	kW	Tj = -7°C	COPd	2.85	-
Tj = +2°C	Pdh	7.40	kW	Tj = +2°C	COPd	3.65	-
Tj = +7°C	Pdh	7.50	kW	Tj = +7°C	COPd	3.86	-
Tj = +12°C	Pdh	7.70	kW	Tj = +12°C	COPd	4.48	-
Tj = biv	Pdh	7.10	kW	Tj = biv	COPd	2.66	-
Tj = TOL	Pdh	7.10	kW	Tj = TOL	COPd	2.66	-
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C if TOL < -20°C)	COPd	-	-
Bivalent temperature	T _{biv}	-10	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes oth	er than activ	/e mode	1	Supplementary heater			1
Off mode	POFF	0.01	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	РТО	0.01	kW	Type of energy input	<u> </u>	-	<u>I</u>
Standby mode	PSB	0.01	kW	1			
Crankcase heater mode	РСК	0	kW				
Other items	1	ļ					
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	48 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	1.6	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh		<u> </u>		
For heat pump combination heate	r	1		1			
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q elec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
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Model				OH 1-8es 230V B/W				
Brine-to-water heat pump: (Yes/No)				Yes				
Water-to-water heat pump: (Yes/No) Air-to-water heat pump: (Yes/No)			No					
		No						
Low temperature heat pump: (Yes/No	o)			No				
Equipped with supplementary heater: (Yes/No)		Yes						
Heat pump combination heater: (Yes/No)		No	AC Cooling Heating					
Application: (Low temperature/Mediu	m temperatu	ıre)		Low temperature				
Climate: (Colder/Average/Warmer)	· .	,		Average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	7.70	kW	Seasonal space heating energy efficiency	ηS	189	%	
Declared capacity for heating for p		ndoor	1	Declared coefficient of performar	nce for part l	oad at indo	or	
temperature 20°C and outdoor tem	perature Tj			temperature 20°C and outdoor te	mperature Tj			
Tj = -7°C	Pdh	7.70	kW	Tj = -7°C	COPd	4.63	-	
Tj = +2°C	Pdh	7.80	kW	Tj = +2°C	COPd	4.95	-	
Tj = +7°C	Pdh	7.80	kW	Tj = +7°C	COPd	5.31	-	
Tj = +12°C	Pdh	7.90	kW	Tj = +12°C	COPd	5.72	-	
Tj = biv	Pdh	7.70	kW	Tj = biv	COPd	4.48	-	
Tj = TOL	Pdh	7.70	kW	Tj = TOL	COPd	4.48	-	
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C if TOL < -20°C)	COPd	-	-	
Bivalent temperature	T _{biv}	-10	°C	Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes other	er than activ	/e mode	1	Supplementary heater			1	
Off mode	POFF	0.01	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	Рто	0.01	kW	Type of energy input	L	-		
Standby mode	PSB	0.01	kW	1				
Crankcase heater mode	PCK	0	kW					
Other items		ļ						
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m ³ /h	
Sound power level, indoors/outdoors	LWA	48 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	1.6	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh				1	
For heat pump combination heater	•							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q elec	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact	CTA AG, H	unzigens	trasse 2, C	CH-3110 Münsingen	<u> </u>		ı	