





55 °C

35 °C

A***

A⁺⁺

 A^{+}

A

В

L

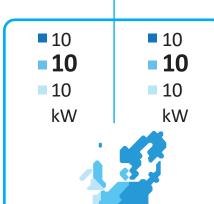
A⁺⁺





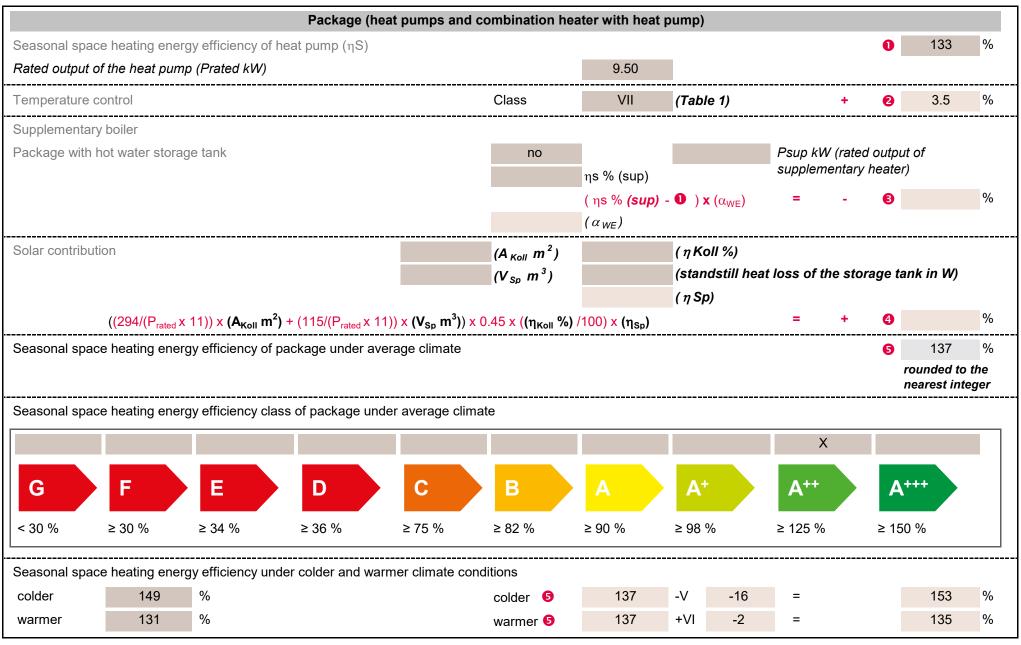


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2019

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 1-11es 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	10.40	9.50	kW
Seasonal space heating energy efficiency	190	133	%
Annual final energy consumption space heating	4273	5523	kWh
	•	•	
Sound power level indoors	50	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	10.40	9.50	kW
Rated heat output warmer climate	10.40	9.50	kW
Seasonal space heating energy efficiency colder climate	215	149	%
Seasonal space heating energy efficiency warmer climate	186	131	%
Annual final energy consumption colder climate	4566	5954	kWh
Annual final energy consumption warmer climate	2814	3603	kWh
Sound power level outdoors		-	dB

Technical data of the temperature controller

Manufacturer	Si	Siemens				
Model	RVS 61					
Class of the controller		l VII				
	- ££ : :		- 0/			
Contribution of the controller to seasonal space heating energy efficiency		3.5	%			

Contact	TA AG, Hunzigenstrasse 2, CH-3110 Münsingen
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Model				OH 1-11es 230V B/W				
Brine-to-water heat pump: (Yes/No)		Yes						
Water-to-water heat pump: (Yes/No)			No					
Air-to-water heat pump: (Yes/No)				No				
Low temperature heat pump: (Yes/N	0)			No				
Equipped with supplementary heater	: (Yes/No)			es AC Cooling Heatin				
Heat pump combination heater: (Yes/No)		No	AC Cooling Heating					
Application: (Low temperature/Mediu	m temperatu	ıre)		Medium temperature				
Climate: (Colder/Average/Warmer)		Average						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	9.50	kW	Seasonal space heating energy efficiency	ηS	133	%	
Declared capacity for heating for p		ndoor		Declared coefficient of performar	-		or	
temperature 20°C and outdoor tem	perature Tj			temperature 20°C and outdoor te	mperature Tj			
Tj = -7°C	Pdh	9.60	kW	Tj = -7°C	COPd	2.91	-	
Tj = +2°C	Pdh	10.00	kW	Tj = +2°C	COPd	3.52	-	
Tj = +7°C	Pdh	10.10	kW	Tj = +7°C	COPd	3.91	-	
Tj = +12°C	Pdh	10.40	kW	Tj = +12°C	COPd	4.52	-	
Tj = biv	Pdh	9.50	kW	Tj = biv	COPd	2.72	-	
Tj = TOL	Pdh	9.50	kW	Tj = TOL	COPd	2.72	-	
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	•	Supplementary heater	•		•	
Off mode	POFF	0.01	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.01	kW	Type of energy input		-	1	
Standby mode	PSB	0.01	kW	1				
Crankcase heater mode	РСК	0	kW					
Other items	<u> </u>	<u>I</u>	<u> </u>					
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m ³ /h	
Sound power level, indoors/outdoors	LWA	50 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	2.1	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh		1 1			
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	
Contact	CTA AG, H	unzigens	strasse 2, C	L CH-3110 Münsingen			1	

Model				OH 1-11es 230V B/W					
Brine-to-water heat pump: (Yes/No)		Yes							
Water-to-water heat pump: (Yes/No)			No						
Air-to-water heat pump: (Yes/No)				No					
Low temperature heat pump: (Yes/No	o)			No					
Equipped with supplementary heater	: (Yes/No)			Yes	AC Cooling Heating				
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	10.40	kW	Seasonal space heating energy efficiency	ηS	190	%		
Declared capacity for heating for p	art load at i	ndoor		Declared coefficient of performar	nce for part le	oad at indo	or		
temperature 20°C and outdoor tem	•			temperature 20°C and outdoor te					
Tj = -7°C	Pdh	10.40	kW	Tj = -7°C	COPd	4.66	-		
Tj = +2°C	Pdh	10.50	kW	Tj = +2°C	COPd	4.97	-		
Tj = +7°C	Pdh	10.60	kW	Tj = +7°C	COPd	5.31	-		
Tj = +12°C	Pdh	10.70	kW	Tj = +12°C	COPd	5.70	-		
Tj = biv	Pdh	10.40	kW	Tj = biv	COPd	4.52	-		
Tj = TOL	Pdh	10.40	kW	Tj = TOL	COPd	4.52	-		
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					
Off mode	POFF	0.01	kW	Rated heat output	Psup	-	kW		
Thermostat-off mode	Рто	0.01	kW	Type of energy input		-			
Standby mode	PSB	0.01	kW	1					
Crankcase heater mode	PCK	0	kW						
Other items		Į							
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m ³ /h		
Sound power level, indoors/outdoors	LWA	50 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	2.1	m ³ /h		
Emissions of nitrogen oxides	NO _X	-	mg/kWh				1		
For heat pump combination heater	•	1		1					
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	L CH-3110 Münsingen			1		