





55 °C

35 °C

A***

A⁺⁺

 A^{+}

A

D

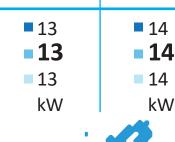
A⁺⁺







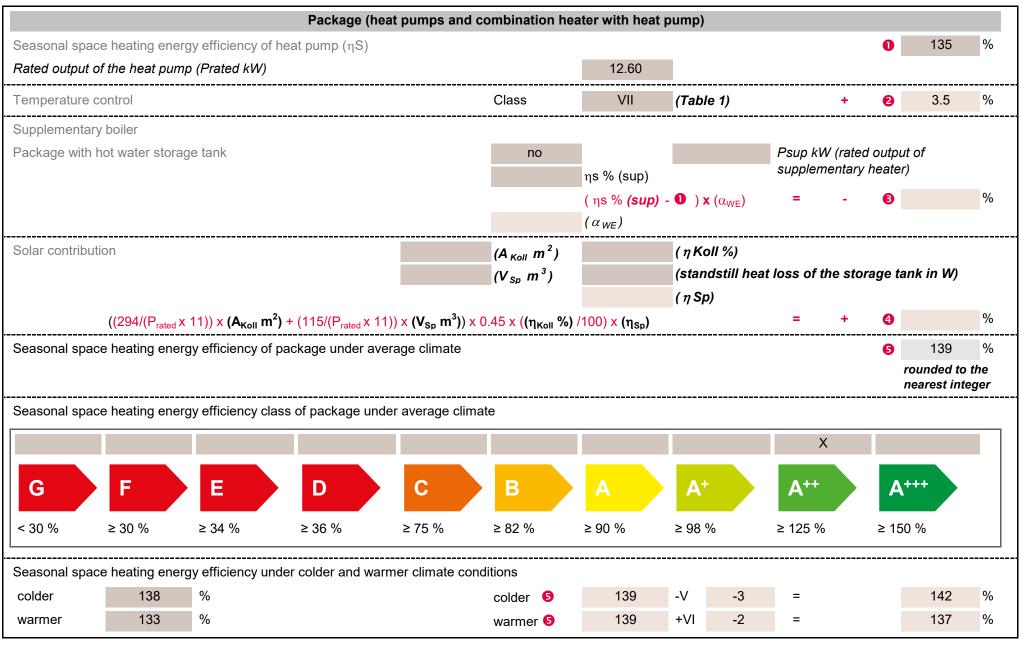
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2019

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 1-14es 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	13.70	12.60	kW	
Seasonal space heating energy efficiency	199	135	%	
Annual final energy consumption space heating	5414	7221	kWh	
	1	I .		
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	13.70	12.60	kW
Rated heat output warmer climate	13.70	12.60	kW
Seasonal space heating energy efficiency colder climate	205	138	%
Seasonal space heating energy efficiency warmer climate	194	133	%
Annual final energy consumption colder climate	6325	8500	kWh
Annual final energy consumption warmer climate	3571	4712	kWh

Technical data of the temperature controller

Manufacturer	Siemens	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 1-14es 230V B/W				
Brine-to-water heat pump: (Yes/No)		Yes						
Water-to-water heat pump: (Yes/No)				No No				
Air-to-water heat pump: (Yes/No)								
Low temperature heat pump: (Yes/N	o)			No				
Equipped with supplementary heater: (Yes/No) Heat pump combination heater: (Yes/No)		Yes AC Cooling Heati						
							Application: (Low temperature/Medium temperature)	
Climate: (Colder/Average/Warmer)		Average						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	12.60	kW	Seasonal space heating energy efficiency	ηS	135	%	
Declared capacity for heating for p		ndoor		Declared coefficient of performan	•		or	
temperature 20°C and outdoor ten	<u>: </u>		_	temperature 20°C and outdoor te	· ·	'		
Tj = -7°C	Pdh	12.80	kW	Tj = -7°C	COPd	2.92	-	
Tj = +2°C	Pdh	13.20	kW	Tj = +2°C	COPd	33.56	-	
Tj = +7°C	Pdh	13.40	kW	Tj = +7°C	COPd	3.98	-	
Tj = +12°C	Pdh	13.70	kW	Tj = +12°C	COPd	4.65	-	
Tj = biv	Pdh	12.60	kW	Tj = biv	COPd	2.73	-	
Tj = TOL	Pdh	12.60	kW	Tj = TOL	COPd	2.73	-	
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	1			
Off mode	POFF	0.01	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.01	kW	Type of energy input	1	-	1	
Standby mode	PSB	0.01	kW	1				
Crankcase heater mode	РСК	0	kW					
Other items		<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	-	2.8	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh		1		1	
For heat pump combination heate	•							
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				

Model				OH 1-14es 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				
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	13.70	kW	Seasonal space heating energy efficiency	ηS	199	%	
Declared capacity for heating for p	art load at i	ndoor	1	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	13.80	kW	Tj = -7°C	COPd	4.80	-	
Tj = +2°C	Pdh	13.90	kW	Tj = +2°C	COPd	5.15	-	
Tj = +7°C	Pdh	14.00	kW	Tj = +7°C	COPd	5.54	-	
Tj = +12°C	Pdh	14.10	kW	Tj = +12°C	COPd	5.98	-	
Tj = biv	Pdh	13.70	kW	Tj = biv	COPd	4.65	-	
Tj = TOL	Pdh	13.70	kW	Tj = TOL	COPd	4.65	-	
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	PCK	0	kW					
Other items		<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	-	2.8	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh		1		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>		1	