





55 °C

35 °C

A***

A++

 A^{+}

Α

В

L

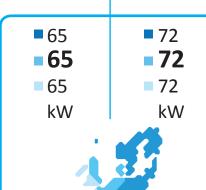
A**



72 dB

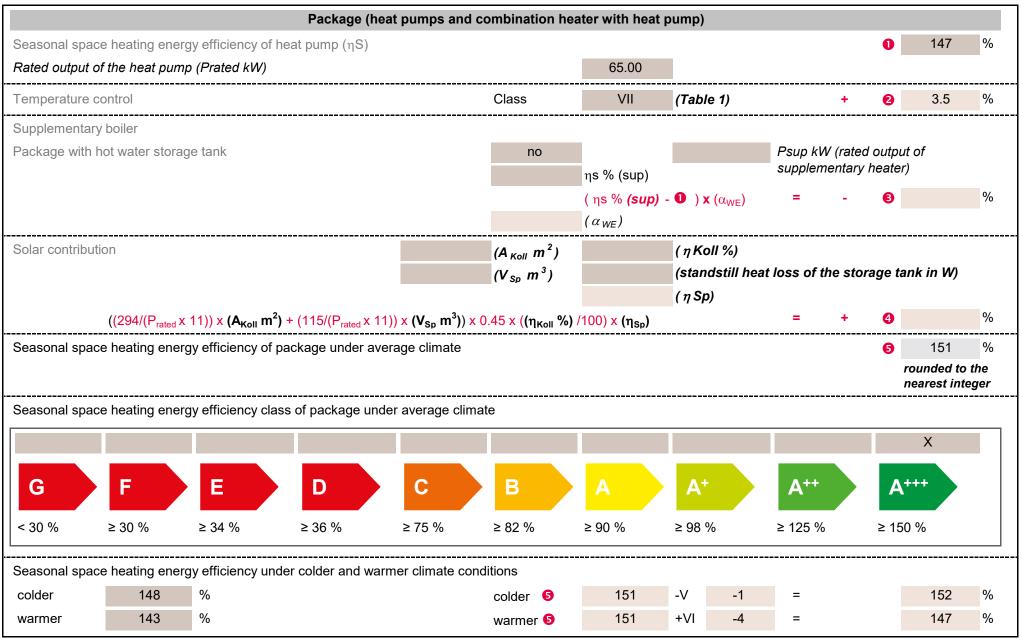


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2019

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 1-72e Duo 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	72.10	65.00	kW	
Seasonal space heating energy efficiency	193	147	%	
Annual final energy consumption space heating	y consumption space heating 29583 34617		kWh	
	•	•		
Sound power level indoors	72	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	72.10	66.00	kW
Rated heat output warmer climate	72.10	66.00	kW
Seasonal space heating energy efficiency colder climate	200	148	%
Seasonal space heating energy efficiency warmer climate	195	143	%
Annual final energy consumption colder climate	34135	41781	kWh
Annual final energy consumption warmer climate	18899	23295	kWh
Sound power level outdoors		-	dB

Technical data of the temperature controller

Manufacturer	Si	Siemens			
Model	RVS 61				
Class of the controller		VII	-		
Contribution of the controller to seasonal space heating energy of	fficiency	3.5	%		

Contact	CTA AG, Hunzigenstrasse 2, CH-3110 Münsingen
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Model				OH 1-72e Duo B/W				
Brine-to-water heat pump: (Yes/No)		Yes						
Water-to-water heat pump: (Yes/No)		No No No AC Cooling Heating						
Air-to-water heat pump: (Yes/No)								
Low temperature heat pump: (Yes/No) Equipped with supplementary heater: (Yes/No)								
							Heat pump combination heater: (Yes/No)	
Application: (Low temperature/Medium temperature)		Medium temperature						
Climate: (Colder/Average/Warmer)				Average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	65.00	kW	Seasonal space heating energy efficiency	ηS	147	%	
Declared capacity for heating for p		ndoor		Declared coefficient of performar	•		or	
temperature 20°C and outdoor ten	perature Tj			temperature 20°C and outdoor te	mperature Tj			
Tj = -7°C	Pdh	66.40	kW	Tj = -7°C	COPd	3.06	-	
Tj = +2°C	Pdh	34.80	kW	Tj = +2°C	COPd	3.84	-]	
Tj = +7°C	Pdh	35.60	kW	Tj = +7°C	COPd	4.31	-	
Tj = +12°C	Pdh	4.88	kW	Tj = +12°C	COPd	4.88	-	
Tj = biv	Pdh	65.70	kW	Tj = biv	COPd	2.93	-	
Tj = TOL	Pdh	65.70	kW	Tj = TOL	COPd	2.93	-	
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	0.9	-	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes oth	er than activ	/e mode	•	Supplementary heater				
Off mode	POFF	0.015	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.015	kW	Type of energy input		-	1	
Standby mode	PSB	0.015	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	72 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	14.7	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh		1		1	
For heat pump combination heate	<u>.</u> '	•		•				
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	

Model				OH 1-72e Duo B/W										
Brine-to-water heat pump: (Yes/No)	eat pump: (Yes/No)			Yes	7									
Water-to-water heat pump: (Yes/No)		No No No No No No No												
Air-to-water heat pump: (Yes/No)														
Low temperature heat pump: (Yes/No) Equipped with supplementary heater: (Yes/No) Heat pump combination heater: (Yes/No)														
							Application: (Low temperature/Mediu	m temperatu	ıre)		Low temperature	7		
							Climate: (Colder/Average/Warmer)				Average	7		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit							
Rated heat output	Prated	72.10	kW	Seasonal space heating energy efficiency	ηS	193	%							
Declared capacity for heating for p		ndoor	•	Declared coefficient of performan	-		or							
temperature 20°C and outdoor tem	<u>. </u>	-		temperature 20°C and outdoor ter										
Tj = -7°C	Pdh	72.40	kW	Tj = -7°C	COPd	4.75	-							
Tj = +2°C	Pdh	36.40	kW	Tj = +2°C	COPd	4.89	-							
Tj = +7°C	Pdh	36.90	kW	Tj = +7°C	COPd	5.35	-							
Tj = +12°C	Pdh	37.10	kW	Tj = +12°C	COPd	5.52	-							
Tj = biv	Pdh	72.10	kW	Tj = biv	COPd	4.62	-							
Tj = TOL	Pdh	72.10	kW	Tj = TOL	COPd	4.62	-							
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	0.9	-	Heating water operating limit temperature	WTOL	60	°C							
Power consumption in modes other	er than activ	re mode	!	Supplementary heater	ļ ļ									
Off mode	POFF	0.015	kW	Rated heat output	Psup	-	kW							
Thermostat-off mode	Рто	0.015	kW	Type of energy input		-	1							
Standby mode	PSB	0.015	kW											
Crankcase heater mode	РСК	0	kW											
Other items	<u> </u>	<u> </u>	ļ		ļ.									
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m ³ /h							
Sound power level, indoors/outdoors	LWA	72 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	14.7	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		unzigens	trasse 2, C	I H-3110 Münsingen	1									