



55 °C

35 °C



A<sup>++</sup>

 $A^{+}$ 

A

D

A<sup>++</sup>





**71** dB



--- dB

575757

kW

**6**4

**6**4

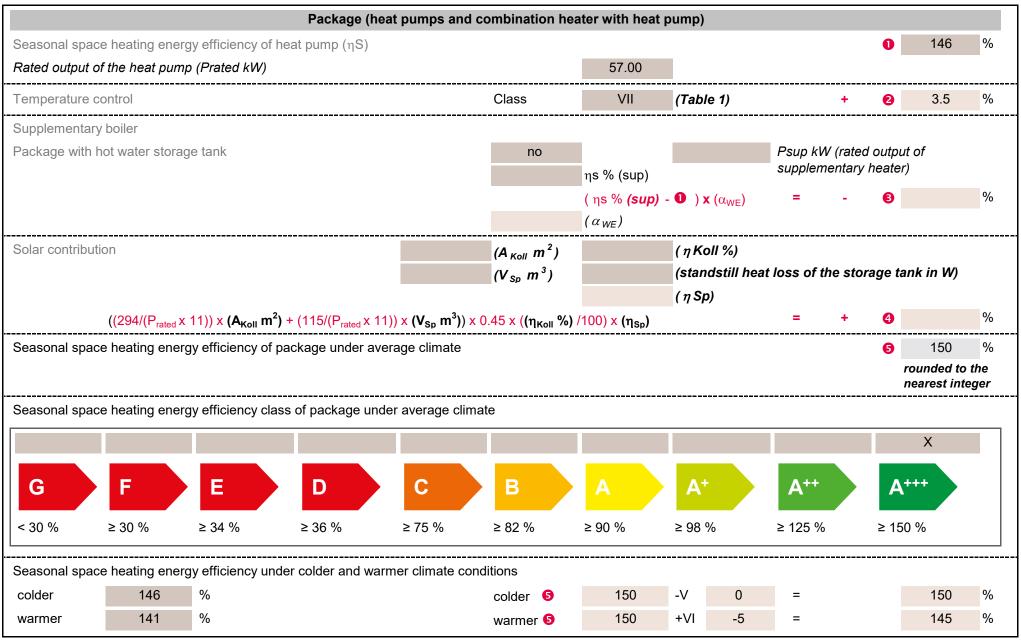
**6**4

kW



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 1-65e 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	64.10	57.00	kW
Seasonal space heating energy efficiency	195	146	%
Annual final energy consumption space heating	26047	30574	kWh
	•	•	
Sound power level indoors	71	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	64.10	57.00	kW	
Rated heat output warmer climate	64.10	57.00	kW	
Seasonal space heating energy efficiency colder climate	203	146	%	
Seasonal space heating energy efficiency warmer climate	197	141	%	
Annual final energy consumption colder climate	29975	36422	kWh	
Annual final energy consumption warmer climate	16616	20307	kWh	
Sound power level outdoors		-	dB	

## Technical data of the temperature controller

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

Contact	CTA AG, Hunzigenstrasse 2, CH-3110 Münsingen
---------	--

Model				OH 1-65e Duo B/W				
Brine-to-water heat pump: (Yes/No)	ne-to-water heat pump: (Yes/No)		Yes					
Water-to-water heat pump: (Yes/No)				No No No				
Air-to-water heat pump: (Yes/No)								
Low temperature heat pump: (Yes/N	0)							
Equipped with supplementary heater: (Yes/No)			No No Medium temperature Average					
Heat pump combination heater: (Yes/No)								
Application: (Low temperature/Medium temperature)								
Climate: (Colder/Average/Warmer)								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	57.00	kW	Seasonal space heating energy efficiency	ηS	146	%	
Declared capacity for heating for p		ndoor	•	Declared coefficient of performar	•		or	
temperature 20°C and outdoor ten	· ·			temperature 20°C and outdoor te				
Tj = -7°C	Pdh	58.20	kW	Tj = -7°C	COPd	2.99	-	
Tj = +2°C	Pdh	30.90	kW	Tj = +2°C	COPd	3.82	-	
Tj = +7°C	Pdh	31.60	kW	Tj = +7°C	COPd	4.30	-	
Tj = +12°C	Pdh	32.40	kW	Tj = +12°C	COPd	4.90	-	
Tj = biv	Pdh	57.50	kW	Tj = biv	COPd	2.86	-	
Tj = TOL	Pdh	57.50	kW	Tj = TOL	COPd	2.86	-	
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C if TOL < -20°C)	COPd	-	-	
Bivalent temperature	T <sub>biv</sub>	-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			!	
Off mode	POFF	0.015	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.015	kW	Type of energy input		-		
Standby mode	PSB	0.015	kW	1				
Crankcase heater mode	РСК	0	kW					
Other items								
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	71 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	13.1	m <sup>3</sup> /h	
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh		!		1	
For heat pump combination heate	,	-		<del>'</del>				
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	ı CH-3110 Münsingen				

Model				OH 1-65e Duo B/W					
Brine-to-water heat pump: (Yes/No)				Yes	<del>-</del>				
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)		No	AC Cooling Heating						
Heat pump combination heater: (Yes/No)		No AC Cooling A Read							
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	64.10	kW	Seasonal space heating energy efficiency	ηS	195	%		
Declared capacity for heating for p		ndoor	•	Declared coefficient of performan	-		or		
temperature 20°C and outdoor tem	<u>:                                      </u>	1		temperature 20°C and outdoor ter		-			
Tj = -7°C	Pdh	64.50	kW	Tj = -7°C	COPd	4.78	-		
Tj = +2°C	Pdh	64.80	kW	Tj = +2°C	COPd	4.93	-		
Tj = +7°C	Pdh	33.00	kW	Tj = +7°C	COPd	5.43	-		
Tj = +12°C	Pdh	33.10	kW	Tj = +12°C	COPd	5.61	-		
Tj = biv	Pdh	64.10	kW	Tj = biv	COPd	4.64	-		
Tj = TOL	Pdh	64.10	kW	Tj = TOL	COPd	4.64	-		
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C if TOL < -20°C)	COPd	-	-		
Bivalent temperature	T <sub>biv</sub>	-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	-	1		
Standby mode	PSB	0.015	kW						
Crankcase heater mode	РСК	0	kW						
Other items	<u> </u>	<u> </u>	<u> </u>						
Capacity control		fixed		Rated air flow rate, outdoors	-	-	m <sup>3</sup> /h		
Sound power level, indoors/outdoors	LWA	71 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	13.1	m <sup>3</sup> /h		
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh						
For heat pump combination heater				I .					
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-	%		
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh		
Contact		unziaens		L - CH-3110 Münsingen	1		1		