



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	_			
		CTA		
Manufacturer	CTA AG	AC Cooling Heating		
Model	OH 1-85e Duo B/W			
Information on energy efficiency class and rated output				
	Average / Low temperature	Average / Medium temperature		
Space heating energy efficiency class	A+++	A++	-	
Rated heat output	84.80	77.00	kW	
Seasonal space heating energy efficiency	189	146	%	
Annual final energy consumption space heating	35522	41212	kWh	
Sound newer level indeers		73	dB	
Sound power level indoors		13	uБ	
Special precautions during assembly, installation or ma				
All instructional work in the installation and maintenance mai		qualified appendiate parager	al in	
Additional information	Low temperature	Medium temperature		
Rated heat output colder climate	84.80	77.00	kW	
Rated heat output warmer climate	84.80	77.00	kW	
Seasonal space heating energy efficiency colder climate	195	147	%	
Seasonal space heating energy efficiency warmer climate	191	143	%	
Annual final energy consumption colder climate	41053	49070	kWh	
Annual final energy consumption warmer climate	22704	27264	kWh	
Sound power level outdoors			dB	
Technical data of the temperature controller				
Manufacturer				
	RVS 61			
Model		Siemens RVS 61		
		RVS 61		
Class of the controller		RVS 61	-	
	gy efficiency	RVS 61	- %	
Class of the controller	gy efficiency CTA AG, Hunzigenstrasse	<b>RVS 61</b> VII 3.5	- %	

Model				OH 1-85e Duo B/W											
Brine-to-water heat pump: (Yes/No)			Yes	-											
Water-to-water heat pump: (Yes/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/Medium temperature) Climate: (Colder/Average/Warmer)			No												
			No		TA										
			No	1 🕻											
				No											
			No AC Cooling Heati   Medium temperature Average												
								Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
								Rated heat output	Prated	77.00	kW	Seasonal space heating energy efficiency	ηS	146	%
	Declared capacity for heating for part load at indoor			Declared coefficient of performance for part load at indoor											
temperature 20°C and outdoor tem				temperature 20°C and outdoor ter		-									
Tj = -7°C	Pdh	78.30	kW	Tj = -7°C	COPd	3.07	-								
Tj = +2°C	Pdh	41.00	kW	$Tj = +2^{\circ}C$	COPd	3.83	-								
Tj = +7°C	Pdh	41.90	kW	Tj = +7°C	COPd	4.26	-								
Tj = +12°C	Pdh	42.80	kW	Tj = +12°C	COPd	4.79	-								
Tj = biv	Pdh	77.60	kW	Tj = biv	COPd	2.95	-								
Tj = TOL	Pdh	77.60	kW	Tj = TOL	COPd	2.95	-								
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 othe	r than activ	ve mode		Supplementary heater	<u> </u>										
Off mode	POFF	0.015	kW	Rated heat output	Psup	-	kW								
Thermostat-off mode	Р <sub>то</sub>	0.015	kW	Type of energy input		-									
Standby mode	PSB	0.015	kW	1											
Crankcase heater mode	Рск	0	kW												
Other items	ļ	I		<u> </u>	_ <b>_</b>										
Capacity control	fixed			Rated air flow rate, outdoors	-	-	m <sup>3</sup> /h								
Sound power level, indoors/outdoors	L	73 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	17.2	m <sup>3</sup> /h								
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				1								
For heat pump combination heater		ļ		1											
Declared load profile	-			Water heating energy efficiency	<sup>η</sup> wh	-	%								
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh								
Contact	CTA AG, Hunzigenstrasse 2, 0				<u> </u>										

Model				OH 1-85e Duo B/W				
Brine-to-water heat pump: (Yes/No)			Yes					
Water-to-water heat pump: (Yes/No) Air-to-water heat pump: (Yes/No) Low temperature heat pump: (Yes/No)			No					
			No	1 4	TA			
			No	1 【				
Equipped with supplementary heater	(Yes/No)			No			C Hosting	
Heat pump combination heater: (Yes/No) Application: (Low temperature/Medium temperature)			No Low temperature					
								Climate: (Colder/Average/Warmer)
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	84.80	kW	Seasonal space heating energy efficiency	ηS	189	%	
Declared capacity for heating for part load at indoor			Declared coefficient of performance for part load at indoor					
temperature 20°C and outdoor tem				temperature 20°C and outdoor temperature Tj				
Tj = -7°C	Pdh	85.20	kW	Tj = -7°C	COPd	4.67	-	
Tj = +2°C	Pdh	85.60	kW	Tj = +2°C	COPd	4.80	-	
Tj = +7°C	Pdh	43.40	kW	Tj = +7°C	COPd	5.22	-	
Tj = +12°C	Pdh	43.60	kW	Tj = +12°C	COPd	5.38	-	
Tj = biv	Pdh	84.80	kW	Tj = biv	COPd	4.55	-	
Tj = TOL	Pdh	84.80	kW	Tj = TOL	COPd	4.55	-	
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 othe	er than activ	ve mode		Supplementary heater	ļ			
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					
Crankcase heater mode	РСК	0	kW					
Other items		Į						
Capacity control	fixed			Rated air flow rate, outdoors	-	-	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	LWA	73 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	17.2	m <sup>3</sup> /h	
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh		<u> </u>		1	
For heat pump combination heater		ļ		1				
Declared load profile	-			Water heating energy efficiency	η <sub>wh</sub>	-	%	
Daily electricity consumption	Qelec	- 1	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact	CTA AG, Hunzigenstrasse 2, 0				<u> </u>			