



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				
Model	OH 1-58e Duo B/W	AC Cooling H	leating		
	•				
Information on energy efficiency class and rated output					
	Average /				
	Low temperature	Average / Medium temperature			
Space heating energy efficiency class	A+++	A++	-		
Rated heat output	57.70	52.00	kW		
Seasonal space heating energy efficiency	201	148	%		
Annual final energy consumption space heating	22770	27529	kWh		
Sound power level indoors		70	dB		
		70	uВ		
Special precautions during assembly, installation or main	ntenance				
All instructional work in the installation and maintenance man		unalified specialist person	nel in		
Additional information	Low temperature	Medium temperature			
Rated heat output colder climate	58.00	Medium temperature 52.00	kW		
Rated heat output colder climate	· ·	· ·	kW kW		
Rated heat output colder climate Rated heat output warmer climate	58.00	52.00			
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate	58.00 57.70	52.00 52.00	kW		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate	58.00 57.70 210	52.00 52.00 148	kW %		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate	58.00 57.70 210 203	52.00 52.00 148 143	kW %		
Additional information Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766	kW % % kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307 -	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller Manufacturer	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307 -	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller Manufacturer	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307 -	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller Manufacturer Model	58.00 57.70 210 203 26217	52.00 52.00 148 143 32766 18307 -	kW % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller	58.00 57.70 210 203 26217 14519	52.00 52.00 148 143 32766 18307 - Siemens RVS 61	kW % % kWh kWh		
Rated heat output colder climate Rated heat output warmer climate Seasonal space heating energy efficiency colder climate Seasonal space heating energy efficiency warmer climate Annual final energy consumption colder climate Annual final energy consumption warmer climate Sound power level outdoors Technical data of the temperature controller Manufacturer Model Class of the controller	58.00 57.70 210 203 26217 14519	52.00 52.00 148 143 32766 18307 - Siemens VII 3.5	kW % kWh kWh dB		

Model				OH 1-58e Duo B/W											
Brine-to-water heat pump: (Yes/No)			Yes	1											
Water-to-water heat pump: (Yes/No) Air-to-water heat pump: (Yes/No) Low temperature heat pump: (Yes/No)			No												
			No		TA										
			No	1 🕻											
Equipped with supplementary heater:	(Yes/No)			No			C								
Heat pump combination heater: (Yes/No) Application: (Low temperature/Medium temperature) Climate: (Colder/Average/Warmer)			No AC Cooling Heati Medium temperature Average												
								Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
								Rated heat output	Prated	52.00	kW	Seasonal space heating energy efficiency	ηS	148	%
Declared capacity for heating for p				Declared coefficient of performan			or								
temperature 20°C and outdoor tem			-	temperature 20°C and outdoor ter											
Tj = -7°C	Pdh	52.70	kW	Tj = -7°C	COPd	2.99	-								
Tj = +2°C	Pdh	27.70	kW	Tj = +2°C	COPd	3.86	-								
Tj = +7°C	Pdh	28.50	kW	Tj = +7°C	COPd	4.40	-								
Tj = +12°C	Pdh	29.20	kW	Tj = +12°C	COPd	5.05	-								
Tj = biv	Pdh	52.20	kW	Tj = biv	COPd	2.85	-								
Tj = TOL	Pdh	52.20	kW	Tj = TOL	COPd	2.85	-								
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 ļ										
Off mode	POFF	0.015	kW	Rated heat output	Psup	-	kW								
Thermostat-off mode	Р _{то}	0.015	kW	Type of energy input		-									
Standby mode	PSB	0.015	kW	1											
Crankcase heater mode	Рск	0	kW												
Other items	<u> </u>	I	<u></u>												
Capacity control	fixed			Rated air flow rate, outdoors	-	-	m ³ /h								
Sound power level, indoors/outdoors	L _{WA}	70 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	11.9	m ³ /h								
Emissions of nitrogen oxides	NO _X	-	mg/kWh		<u> </u>										
For heat pump combination heater		ļ	<u> </u>	۱											
Declared load profile	-			Water heating energy efficiency	η wh	-	%								
Daily electricity consumption	Qelec	- 1	kWh	Daily fuel consumption	Qfuel	-	kWh								
Contact	CTA AG, Hunzigenstrasse 2, 0			, ,			ļ								

Model				OH 1-58e 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	TA		
			No No				
Equipped with supplementary heater	(Yes/No)			No		_	
Heat pump combination heater: (Yes/No) Application: (Low temperature/Medium temperature) Climate: (Colder/Average/Warmer)			No	- AC -	Cooling 🛑	Heating	
			Low temperature Average				
Rated heat output	Prated	57.70	kW	Seasonal space heating energy efficiency	ηS	201	%
Declared capacity for heating for p	art load at i	ndoor	•	Declared coefficient of performan			or
temperature 20°C and outdoor tem	perature Tj	-	-	temperature 20°C and outdoor ter	nperature T	j	
Tj = -7°C	Pdh	58.00	kW	Tj = -7°C	COPd	4.90	-
$Tj = +2^{\circ}C$	Pdh	29.10	kW	Tj = +2°C	COPd	5.06	-
Tj = +7°C	Pdh	29.50	kW	Tj = +7°C	COPd	5.62	-
Tj = +12°C	Pdh	29.80	kW	Tj = +12°C	COPd	5.82	-
Tj = biv	Pdh	57.70	kW	Tj = biv	COPd	4.74	-
Tj = TOL	Pdh	57.70	kW	Tj = TOL	COPd	4.74	-
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	<u> </u>		
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	<u></u>	I	<u></u>		_		
Capacity control	fixed			Rated air flow rate, outdoors	-	-	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	70 / -	dB	Rated brine or water flow rate, outdoor heat exchanger	-	11.9	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh		1		
For heat pump combination heater		ļ	ļ -	1			
Declared load profile	-			Water heating energy efficiency	^η wh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact	CTA AG, Hunzigenstrasse 2, 0				1		!