Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



Model(s):		CTC GSi 8					
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	150	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	-	Yes		· · · · · · · · · · · · · · · · · · ·			
			on, except for	low-temperature heat pumps. For le	ow- tempera	ture heat pun	ıps,
parameters shall be declared for	or low-temperatu	re application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_{s}	146	%
Declared capacity for heating for outdoor temperature T j	or part load at ind	door temperatur	e 20 °C and	Declared coefficient of performa load at indoor temperature 20 °C	•		•
T j = -7 °C	Pdh	na	kW	T j = -7 °C	COPd	na] -
T j = + 2 °C	Pdh	6,9	kW	T j = +2 °C	COPd	2,84	-
T j = + 7 °C	Pdh	4,7	kW	T j = +7 °C	COPd	3,68] -
T j = + 12 °C	Pdh	2,3	kW	T j = +12 °C	COPd	4,64] -
T j = bivalent temperature	Pdh	6,9	kW	T j = bivalent temperature	COPd	2,84	-
T j = operation limit temperature	Pdh	6,87	kW	T j = operation limit temperature	COPd	2,84	-
For air-to-water heat pumps: $T j = -15 ^{\circ}\text{C} \text{ (if TOL } < -20 ^{\circ}\text{C)}$	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	-	Supplementary heater			-
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	34/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2443	kWh	flow rate, outdoor heat exchanger	-	0,9	m3/h
For heat pump combination he	eater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that the	e cycle, it must be e product's refrige ousehold waste is	a recycling station or with the installation engin sent correctly to a waste station or reseller offe rrant, compressor oil and electrical/electronic e not permitted. Specific precausions/manuals c	ering a service of quipment are pro	that type. t is of g	reat

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



Model(s):		CTC GSi 8					
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	210	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate		Yes		,			
			ion, except for	low-temperature heat pumps. For I	ow- tempera	ture heat pun	nps,
parameters shall be declared for	or low-temperatu	re application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_s	206	%
Declared capacity for heating for outdoor temperature T j	or part load at ind	door temperatu	re 20 °C and	Declared coefficient of performation load at indoor temperature 20 °0	•		•
T j = - 7 °C	Pdh	na	kW	T j = -7 °C	COPd	na] -
T j = + 2 °C	Pdh	7,4	kW	T j = +2 °C	COPd	4,56	-
T j = + 7 °C	Pdh	4,6	kW	T j = +7 °C	COPd	5,40	-
T j = + 12 °C	Pdh	2,7	kW	T j = +12 °C	COPd	6,39	-
T j = bivalent temperature	Pdh	7,3	kW	T j = bivalent temperature	COPd	4,56	-
T j = operation limit temperature	Pdh	7,3	kW	T j = operation limit temperature	COPd	4,56	-
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items					•		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	34/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1745	kWh	flow rate, outdoor heat exchanger	-	1,2	m3/h
For heat pump combination he	ater:						
Declared load profile	_	XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that th	e cycle, it must be e product's refrige ousehold waste is	a recycling station or with the installation engir sent correctly to a waste station or reseller offi rant, compressor oil and electrical/electronic e not permitted. Specific precausions/manuals c	ering a service of equipment are pro	that type. t is of a	great

Information for heat pump space heaters and heat pump combination heaters **Average climate and Medium temperature**



Model(s):		CTC GSi 8					
Air-to-water heat pump:		No		Energy efficiency class:	A+++	-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	163	%	
Equipped with a supplementar	v heater:	Yes		Package efficiency class:	A+++	-	
Heat pump combination heate	•	Yes					
			ion, except for	low-temperature heat pumps. For I	ow- temperat	ure heat pun	ıps,
parameters shall be declared for	or low-temperat	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_{s}	159	%
Declared capacity for heating for outdoor temperature T j	or part load at in	idoor temperatu	re 20 °C and	Declared coefficient of performa load at indoor temperature 20 °c	•		
T j = -7 °C	Pdh	5,6	kW	T j = - 7 °C	COPd	3,02] -
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	4,71] -
T j = + 7 °C	Pdh	2,3	kW	T j = +7 °C	COPd	4,46] -
T j = + 12 °C	Pdh	2,3	kW	T j = +12 °C	COPd	4,86] -
T j = bivalent temperature	Pdh	6,9	kW	T j = bivalent temperature	COPd	2,66	-
T j = operation limit temperature	Pdh	6,87	kW	T j = operation limit temperature	COPd	2,84	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items					<u> </u>		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	34/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3467	kWh	flow rate, outdoor heat exchanger	-	0,9	m3/h
For heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that th	e cycle, it must be e product's refrige ousehold waste is	a recycling station or with the installation engir sent correctly to a waste station or reseller offi erant, compressor oil and electrical/electronic e not permitted. Specific precausions/manuals o	ering a service of tequipment are pro	that type. t is of a	great

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature

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Model(s):	CTC GSi 8			
Air-to-water heat pump:	No	Energy efficiency class:	A+++	-
Water-to-water heat pump:	No	Controller class:	VI	-
Brine-to-water heat pump:	Yes	Controller contribution:	4	%
Low-temperature heat pump:	No	Package efficiency:	212	%
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++	-
Heat pump combination heater:	Yes			

parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_{s}	208	%
Declared capacity for heating foo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar load at indoor temperature 20 °C	-		-
T j = - 7 °C	Pdh	6,0	kW	T j = - 7 °C	COPd	4,75] -
T j = + 2 °C	Pdh	3,6	kW	T j = +2 °C	COPd	5,68	-
T j = + 7 °C	Pdh	2,5	kW	T j = +7 °C	COPd	5,97	-
T j = + 12 °C	Pdh	2,6	kW	T j = +12 °C	COPd	6,05	-
T j = bivalent temperature	Pdh	7,3	kW	T j = bivalent temperature	COPd	4,56	-
T j = operation limit temperature	Pdh	7,3	kW	T j = operation limit temperature	COPd	4,56	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items			•				=
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	34/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2683	kWh	flow rate, outdoor heat exchanger	-	1,2	m3/h
For heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that th	e cycle, it must be te product's refrige tousehold waste is	a recycling station or with the installation engine sent correctly to a waste station or reseller offer erant, compressor oil and electrical/electronic eq not permitted. Specific precausions/manuals ca	ring a service of Juipment are pro	that type. t is of g	reat

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**



Model(s):		CTC GSi 8					
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	166	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
			ion, except for	low-temperature heat pumps. For l	ow- temperat	ure heat pun	nps,
parameters shall be declared for	•				6	N. 1 .	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_{s}	162	%
Declared capacity for heating for outdoor temperature T j	or part load at in	idoor temperatui	re 20 °C and	Declared coefficient of performation load at indoor temperature 20°	•		•
T j = - 7 °C	Pdh	4,42	kW	T j = -7 °C	COPd	4,01	1 -
T j = + 2 °C	Pdh	2,3	kW	T j = +2 °C	COPd	4,59] -
T j = + 7 °C	Pdh	2,4	kW	T j = +7 °C	COPd	5,15] -
T j = + 12 °C	Pdh	2,7	kW	T j = +12 °C	COPd	5,92	
T j = bivalent temperature	Pdh	6,9	kW	T j = bivalent temperature	COPd	2,88	-
T j = operation limit temperature	Pdh	6,87	kW	T j = operation limit temperature	COPd	2,84	_
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-22	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•	•		•		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	34/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4065	kWh	flow rate, outdoor heat exchanger	-	0,9	m3/h
For heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that the	e cycle, it must be e product's refrige ousehold waste is	a recycling station or with the installation engir sent correctly to a waste station or reseller off erant, compressor oil and electrical/electronic of not permitted. Specific precausions/manuals of	ering a service of equipment are pro	that type. t is of a	great

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**

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Model(s):		CTC GSi 8					
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	221	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
			on, except for	low-temperature heat pumps. For l	ow- temperat	ure heat pun	ıps,
parameters shall be declared for	·		Unit		Complete	Value	Unit
Item	Symbol	Value	T	Item Seasonal space heating energy	Symbol	Value	I
Rated heat output (*)	Prated	7	kW	efficiency	n _s	217	%
Declared capacity for heating foutdoor temperature T j	or part load at in	door temperatui	e 20 °C and	Declared coefficient of performa load at indoor temperature 20 °c	•		
T j = -7 °C	Pdh	4,2	kW	T j = -7 °C	COPd	5,52] -
T j = + 2 °C	Pdh	2,7	kW	T j = +2 °C	COPd	6,11] -
T j = + 7 °C	Pdh	2,6	kW	T j = +7 °C	COPd	6,14] -
T j = + 12 °C	Pdh	2,6	kW	T j = +12 °C	COPd	6,14	
T j = bivalent temperature	Pdh	7,3	kW	T j = bivalent temperature	COPd	4,56	-
T j = operation limit	Pdh	7,32	kW	T j = operation limit	COPd	4,56] _
temperature		7,02	- ""	temperature	00. u	-1,50	4
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-22	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P TO	0,023	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	34/ na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q HE	3063	kWh	flow rate, outdoor heat exchanger	-	1,2	m3/h
For heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	98/A	%
Daily electricity consumption	Qelec	8,255	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life importance that the	e cycle, it must be e product's refrige	a recycling station or with the installation engin sent correctly to a waste station or reseller offe rant, compressor oil and electrical/electronic e not permitted. Specific precausions/manuals c	ering a service of t quipment are pro	that type. t is of g	reat

of the product as household waste is not permitted. Specific precausions/manuals can be found at