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

CTC GSi 12, CTC Gsi 12 (BE)

Model(s):



Model(s):		CIC GSI 12, CIC	. GSI 12 (BE)				
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:	161	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes	on, except for	r low-temperature heat pumps. For lo	ow- temperat	ure heat pun	nps.
parameters shall be declared f	· ·		on, except to	10W temperature near pamps. For it	ow temperat	are near pan	163,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η_{s}	157	%
Declared capacity for heating foutdoor temperature T j	or part load at inc	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 - ''	8,3	kW	T j = +2 °C	COPd	2,75	-
T j = + 7 °C	Pdh	5,3	kW	T j = +7 °C	COPd	3,78	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	5,12	-
T j = bivalent temperature	Pdh	8,3	kW	T j = bivalent temperature	COPd	2,75	-
T j = operation limit temperature	Pdh	8,3	kW	T j = operation limit temperature	COPd	2,75	-
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	other than active	mode	Ī	Supplementary heater			7
Off mode	P _{OFF}	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,000	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							7
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	41/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2687	kWh	flow rate, outdoor heat exchanger	-	1	m3/h
For heat pump combination he	eater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life	cycle, it must be product's refrige	a recycling station or with the installation engin sent correctly to a waste station or reseller offe erant, compressor oil and electrical/electronic e not permitted.	ering a service of t	hat type. t is of g	reat
Contact details	Enertech AB, Box	•		•			181001

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

Model(s):

CTC GSi 12, CTC Gsi 12 (BE)



Model(s):		CTC GSi 12, CTC	. 031 12 (DL)				
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:	204	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater:		Yes					
			on, except for	low-temperature heat pumps. For lo	w- temperat	ure heat pun	ıps,
parameters shall be declared for	· low-temperatu	re application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η_{s}	200	%
Declared capacity for heating fo outdoor temperature T j	r part load at ind	loor 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	10,0	kW	T j = +2 °C	COPd	4,29	-
T j = + 7 °C	Pdh - ''	6,4	kW	T j = +7 °C	COPd	5,29	
T j = + 12 °C	Pdh	2,9	kW	T j = +12 °C	COPd	5,71	· ·
T j = bivalent temperature	Pdh	10,0	kW	T j = bivalent temperature	COPd	4,29	-
T j = operation limit temperature	Pdh	10,0	kW	T j = operation limit temperature	COPd	na	-
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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	•	Supplementary heater			-
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,000	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}	41/ na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2566	kWh	flow rate, outdoor heat exchanger		1,4	m3/h
For heat pump combination hea	ter:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life	cycle, it must be product's refrige	a recycling station or with the installation engine sent correctly to a waste station or reseller offe erant, compressor oil and electrical/electronic ed not permitted.	ring a service of t	hat type. t is of g	reat
	nertech AB, Box	or the product dS N	ruserioiu Wasie IS	not permitted.			

Information for heat pump space heaters and heat pump combination heaters

No

CTC GSi 12, CTC Gsi 12 (BE)

Energy efficiency class:

Average climate and Medium temperature

Model(s):

Air-to-water heat pump:

Enertech AB 341 26 Ljungby

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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:	159	%	
Equipped with a supplementar	ry heater:	Yes		Package efficiency class:	A+++	-	
	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- temperat	ture heat pun	nps,
parameters shall be declared f	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	155	%
Declared capacity for heating to outdoor temperature T j	for part load at in	door temperatu	Declared coefficient of perform load at indoor temperature 20	•	, ,,	•	
T j = -7 °C	Pdh	6,0	kW	T j = - 7 °C	COPd	3,25] -
T j = + 2 °C	Pdh	3,7	kW	T j = +2 °C	COPd	4,18	-
T j = + 7 °C	Pdh	2,4	kW	T j = +7 °C	COPd	4,70] -
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	5,34	
T j = bivalent temperature	Pdh	6,7	kW	T j = bivalent temperature	COPd	3,00	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
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	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	1	Supplementary heater		ı	1
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,1	kW
Thermostat-off mode	P _{TO}	0,000	kW			1	- U .
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items	CA.	,,,,,,			1		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	41/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3444	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h
For heat pump combination he	eater:	·	•				
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's lif	e cycle, it must be ne product's refrige	a recycling station or with the installation eng sent correctly to a waste station or reseller of erant, compressor oil and electrical/electronic not permitted.	fering a service of	that type. t is of	great
Contact details	Enertech AB, Box						190911

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



						0 /	
Model(s):		CTC GSi 12, CT	C Gsi 12 (BE)				
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 supplementar	ry heater:	Yes		Package efficiency class:	A+++	-	
Heat pump combination heate	-	Yes		,			
		erature applicat	ion, except for	low-temperature heat pumps. For l	ow- temperat	ure heat pun	nps,
parameters shall be declared for	or low-temperat	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η_{s}	208	%
Declared capacity for heating foutdoor 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	8,8	kW	T j = - 7 °C	COPd	4,59	-
T j = + 2 °C	Pdh	5,4	kW	T j = +2 °C	COPd	5,60] -
T j = + 7 °C	Pdh	3,5	kW	T j = +7 °C	COPd	6,05	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,03	-
T j = bivalent temperature	Pdh	9,8	kW	T j = bivalent temperature	COPd	4,30	_
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	_
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	other than active	e mode		Supplementary heater			
Off mode	P OFF	0,023	kW	Rated heat output	Psup	0,1	kW
Thermostat-off mode	P _{TO}	0,000	kW			•	
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items	-	,			1		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	41/ na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3800	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/h
For heat pump combination he	eater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life	e cycle, it must be e product's refrige	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.	ering a service of t	that type. t is of g	great
Contact details	Constant AD Do	200 CE 244 2C	Liunghy Tol 17	46 373 00000			100011

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

CTC GSi 12, CTC Gsi 12 (BE)

Model(s):



Model(s):		CIC GSI 12, CII	(/				
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:	167	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heaters		Yes	on except for	r low-temperature heat pumps. For lo	w- temperat	ure heat num	ınc
parameters shall be declared for			on, except for	low-temperature near pumps. For it	ow-temperat	ure neat pun	ιρ3,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_s	163	%
Declared capacity for heating fo outdoor temperature T j	r part load at ind	door temperatui	e 20 °C and	Declared coefficient of performa load at indoor temperature 20 °C	-		-
T j = - 7 °C	Pdh	4,46	kW	T j = - 7 °C	COPd	4,01	-
T j = + 2 °C	Pdh - ''	2,7	kW	T j = +2 °C	COPd	4,66	-
T j = + 7 °C	Pdh - ''	2,4	kW	T j = +7 °C	COPd	5,17	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	5,51	-
T j = bivalent temperature	Pdh	7,5	kW	T j = bivalent temperature	COPd	2,86	-
T j = operation limit temperature	Pdh	7,54	kW	T j = operation limit temperature	COPd	2,86	-
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	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o			1	Supplementary heater			1
Off mode	P _{OFF}	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,000	kW				
Standby mode	P _{SB}	0,000	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items				1			1
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	41/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4158	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h
For heat pump combination hea	iter:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		of the product's life	cycle, it must be product's refrige	a recycling station or with the installation engin sent correctly to a waste station or reseller offe erant, compressor oil and electrical/electronic en not permitted.	ring a service of	that type. t is of g	reat
Contact details E	nertech AB, Box	·		•			

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

Enertech AB 341 26 Ljungby



Cold climate and Low temp	rerature				341 20 Ljui	igny			
Model(s):		CTC GSi 12, CT	C Gsi 12 (BE)						
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:	214	%			
Equipped with a supplementar	ry heater:	Yes		Package efficiency class:		-			
	for medium-temp		ion, except for	low-temperature heat pumps. For l	ow- temperat	ure heat pun	nps,		
parameters shall be declared f	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy	η _s	210	%		
Declared capacity for heating to outdoor temperature T j	for part load at in	door temperatui	Declared coefficient of performa	Declared coefficient of performance or primary energy ratio for palload at indoor temperature 20 °C and outdoor temperature T j					
T j = -7 °C	Pdh	7,0	kW	T j = - 7 °C	COPd	5,33	7 -		
T j = + 2 °C	Pdh	4,2	kW	T j = +2 °C	COPd	5,90] -		
T j = + 7 °C	Pdh	2,8	kW	T j = +7 °C	COPd	5,95			
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	5,74			
T j = bivalent temperature	Pdh	11,5	kW	T j = bivalent temperature	COPd	3,93	-		
T j = operation limit temperature	Pdh	11,45	kW	T j = operation limit temperature	COPd	3,93			
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	0,96	-	Heating water operating limit temperature	WTOL	65	°C		
Power consumption in modes	other than active	mode	_	Supplementary heater			_		
Off mode	P _{OFF}	0,013	kW	Rated heat output	Psup	0,0	kW		
Thermostat-off mode	P _{TO}	0,034	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}	41/na	dB	For water-/brine-to-water heat pumps: Rated brine or water					
Annual energy consumption	Q _{HE}	5145	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h		
For heat pump combination he	eater:	1	1			ı			
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{\text{wh/-}}$	100/A	%		
Daily electricity consumption	Qelec	7,628	kWh	Daily fuel consumption	Qfuel	na	kWh		
Annual electricity consumption	AEC	1678	kWh	Annual fuel consumption	AFC	na	GJ		
Daily electricity consumption Annual electricity	-	7,628 1678 The packaging mus of the product's life	kWh t be deposited at a e cycle, it must be e product's refrige	Annual fuel consumption recycling station or with the installation enginesent correctly to a waste station or reseller offerant, compressor oil and electrical/electronic e	Qfuel AFC eer for correct waring a service of the	na na aste managemen that type. t is of g	3		

of the product as household waste is not permitted.