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

Enertech AB 341 26 Ljungby



Warm climate and Mediun	n temperature				341 26 Ljun	igby	
Model(s):		CTC Gsi-12 230	V				
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:	148	%	
Equipped with a supplementa	iry heater:	Yes		Package efficiency class:		-	
Heat pump combination heat	er:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared	•	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η _s	144	%
Declared capacity for heating outdoor temperature T j	for part load at in	ndoor temperatu	Declared coefficient of performa part load at indoor temperature				
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na] -
г ј = + 2 °С	Pdh	11,4	kW	T j = +2 °C	COPd	2,67] -
Г ј = + 7 °С	Pdh	7,7	kW	T j = +7 °C	COPd	3,43	- 1
Г ј = + 12 °С	Pdh	3,4	kW	T j = +12 °C	COPd	4,64	- 1
Γ j = bivalent temperature	Pdh	11,4	kW	T j = bivalent temperature	COPd	2,67	-
Γ j = operation limit temperature	Pdh	11,44	kW	T j = operation limit temperature	COPd	2,67	-
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 neating	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	e mode		Supplementary heater			
Off mode	P _{OFF}	0,023	kW	Rated heat output	Psup	0,1	kW
Thermostat-off mode	Р _{то}	0,000	kW				
Standby mode	P _{SB}	0,023	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items					ļ.		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4031	kWh	flow rate, outdoor heat exchanger	-	1	m3/h
For heat pump combination h	eater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{wh/-}$	96/A	%
Daily electricity consumption	Qelec	7,946	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1748	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	Enertech AB, Bo	x 309, SE-341 26					181001

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



Model(s): Air-to-water heat pump: Water-to-water heat pump:		CTC Gsi-12 230	N/				
			JV JV				
Water-to-water heat pump:		No		Energy efficiency class:		-	
		No		Controller class:	VI	-	
Brine-to-water heat pump:		Yes		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	197	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo			11	ltour	Sumbol	Value	
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni T
lated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η _s	193	%
Declared capacity for heating fo butdoor temperature T j	er part load at in	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
_i=−7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na] -
j = + 2 °C	Pdh	9,0	kW	T j = +2 °C	COPd	4,19	1 -
j = + 7 °C	Pdh	5,8	kW	T j = +7 °C	COPd	5,00	- 1
ī j = + 12 °C	Pdh	2,6	kW	T j = +12 °C	COPd	5,91	- 1
j = bivalent temperature	Pdh	9,0	kW	T j = bivalent temperature	COPd	4,19	-
T j = operation limit temperature	Pdh	9,0	kW	T j = operation limit temperature	COPd	4,20	1 -
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 neating	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	e mode		Supplementary heater			
Off mode	P _{OFF}	0,023	kW	Rated heat output	Psup	0,0	kW
hermostat-off mode	P _{TO}	0,000	kW				
Standby mode	P _{SB}	0,023	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items				1			
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3,
L Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2396	kWh	flow rate, outdoor heat exchanger	-	1,4	m3,
or heat pump combination hea	ater:						·
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{wh/}$	96/A	%
Daily electricity consumption	Qelec	7,946	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1748	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic of not permitted	er offering a servio	e of that type. t	is of grea

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

Enertech AB 341 26 Liungby



Model(s):Air-to-water heat pump:Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium parameters shall be declared for low-temItemSymbolRated heat output (*)PratectDeclared capacity for heating for part load outdoor temperature T jT j = - 7 °CPdh T j = + 2 °CT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhT j = operation limit temperaturePdhT j = - 15 °C (if TOL < - 20 °C)PdhBivalent temperatureT bivCycling interval capacity for heatingP cychDegradation co-efficientCdh	perature application. bl Value d 12	ition, except for	Energy efficiency class: Controller class: Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For	A+++ VI 4 152 A+++ Iow- tempera	- - % % - ture heat pu	mps
Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium: parameters shall be declared for low-temItemSymbolRated heat output (*)PrateoutDeclared capacity for heating for part load outdoor temperature T jT j = - 7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	No Yes No Yes Yes -temperature application. perature application. ol Value d 12	Unit	Controller class: Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For	VI 4 152 A+++	%	mps
Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for mediumparameters shall be declared for low-temItem SymboRated heat output (*)PratedDeclared capacity for heating for part loadoutdoor temperature T jT j = - 7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limittemperaturePdhT j = operation limittemperaturePdhT j = - 15 °C (if TOL < - 20 °C)	Yes No Yes Temperature application. perature application. ol Value d 12	Unit	Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For	4 152 A+++	%	mps
Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium parameters shall be declared for low-temItemSymbolRated heat output (*)PratectDeclared capacity for heating for part load outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	No Yes Yes -temperature application. ol Value d 12	Unit	Package efficiency: Package efficiency class: r low-temperature heat pumps. For	152 A+++	% -	mps
Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium- parameters shall be declared for low-temItem SymboRated heat output (*)PratedDeclared capacity for heating for part load outdoor temperature T jT j = -7 °CPdhT j = -7 °CPdhT j = -7 °CPdhT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limitPdhT j = operation limitPdhFor air-to-water heat pumps:T j = - 15 °C (if TOL < - 20 °C)Bivalent temperaturePdhFor air-to-water heat pumps:T j = - 15 °C (if TOL < - 20 °C)PdhBivalent temperaturePdhFor air-to-water heat pumps:T j = - 15 °C (if TOL < - 20 °C)PdhBivalent temperatureT bivCycling interval capacity forheating	Yes Yes -temperature application. ol Value d 12	Unit	Package efficiency class: r low-temperature heat pumps. For	A+++	-	mps
Heat pump combination heater:Parameters shall be declared for medium- parameters shall be declared for low-temItemSymbolRated heat output (*)PratectRated heat output (*)PratectDeclared capacity for heating for part load outdoor temperature T jPratectT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Yes -temperature application. perature application. ol Value d 12	Unit	r low-temperature heat pumps. For			mps
Parameters shall be declared for medium- parameters shall be declared for low-temItemSymbolRated heat output (*)PratectDeclared capacity for heating for part load outdoor temperature T jPratectT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	-temperature applica perature application. ol Value d 12	Unit		low- tempera	ture heat pu	mps
parameters shall be declared for low-temItemSymbolRated heat output (*)PrateDeclared capacity for heating for part load outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	perature application. bl Value d 12	Unit		low- tempera	ture heat pu	mps
ItemSymbolRated heat output (*)PrateProtectPrateDeclared capacity for heating for part load outdoor temperature T jPrateT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	ol Value d 12	Unit	Item			
Rated heat output (*)PrateDeclared capacity for heating for part load outdoor temperature T jTT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	d 12		ltem			
Declared capacity for heating for part load outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)		1		Symbol	Value	Unit
outdoor temperature T jT j = - 7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	d at indoor temperat	kW	Seasonal space heating energy efficiency	n _s	148	%
T j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)		Declared capacity for heating for part load at indoor temperature 20 $^{\circ}\mathrm{C}$ and outdoor temperature T j				
T j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	10,6	kW	T j = – 7 °C	COPd	2,96] -
T j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	6,5	kW	T j = +2 °C	COPd	3,90] -
T j = bivalent temperature Pdh T j = operation limit temperature Pdh For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	4,2	kW	T j = +7 °C	COPd	4,55] -
T j = operation limit temperaturePdhFor air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	2,3	kW	T j = +12 °C	COPd	5,24	-
temperaturePanFor air-to-water heat pumps: Pdh T j = - 15 °C (if TOL < - 20 °C)	11,6	kW	T j = bivalent temperature	COPd	2,73] -
T j = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Pan Pan Pan Pan	na	kW	T j = operation limit temperature	COPd	na	-
Cycling interval capacity for P _{cych}	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
heating P _{cych}	-9	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Degradation co-efficient Cdh	na	kW	Cycling interval efficiency	СОРсус	na] -
	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than	active mode		Supplementary heater			-
Off mode P _{OFF}	0,023	kW	Rated heat output	Psup	0,4	kW
Thermostat-off mode P TO	0,000	kW				
Standby mode P _{SB}	0,023	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	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption Q _{HE}	6369	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h
For heat pump combination heater:						
Declared load profile	XL		Water heating energy efficiency/Energy class	$\eta_{wh/-}$	96/A	%
Daily electricity consumption Qelec	7,945	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity AEC consumption		kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:	end of the produc	t's life cycle, it mus	a recycling station or with the installation engi t be sent correctly to a waste station or resell grant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great
Contact details Enertech A	·	household waste is		equipment are pro	operiy disposed (or. Disposing

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

Enertech AB 341 26 Ljungby



Average climate and Low te	mperature				341 26 Ljur	igby	
Model(s):		CTC Gsi-12 230	V				
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:	200	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:	A+++	-	
Heat pump combination heater	:	Yes					
	•		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η _s	196	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Т ј = — 7 °С	Pdh	8,9	kW	T j = − 7 °C	COPd	4,37] -
Г ј = + 2 °С	Pdh	5,4	kW	T j = +2 °C	COPd	5,25] -
Г ј = + 7 °С	Pdh	3,4	kW	T j = +7 °C	COPd	5,75	- [
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,10	- 1
T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	3,68	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: F 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}	-15	°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 c	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}	0,023	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{ск}	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}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4041	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/h
or heat pump combination he	ater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{wh/-}$	96/A	%
Daily electricity consumption	Qelec	7,945	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1748	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product importance that th	's life cycle, it must e product's refrige	recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great
		of the product as h	ousehold waste is	not normitted			

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

Enertech AB 341 26 Ljungby



Cold climate and Medium te	emperature				341 26 Ljur	igby	
Model(s):		CTC Gsi-12 230	V				
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:	156	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
	•		tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for	-						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η _s	152	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	ıre 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	7,13	kW	T j = – 7 °C	COPd	3,66] - [
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	4,38] -
T j = + 7 °C	Pdh	2,7	kW	T j = +7 °C	COPd	5,04	-
T j = + 12 °C	Pdh	2,3	kW	T j = +12 °C	COPd	5,33	-
T j = bivalent temperature	Pdh	11,6	kW	T j = bivalent temperature	COPd	2,68	-
T j = operation limit temperature	Pdh	11,63	kW	T j = operation limit temperature	COPd	2,68] -
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 c	other than active	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}	0,023	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	7225	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h
For heat pump combination he	ater:			· · ·			
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{wh/-}$	96/A	%
Daily electricity consumption	Qelec	7,945	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1748	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details	Enertech AB, Bo						181001

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

Enertech AB



Cold climate and Low temp	perature				341 26 Ljun	gby	
Model(s):		CTC Gsi-12 230	V				
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:	208	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate		Yes					
			on, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared	-						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	n _s	204	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatur	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,7	kW	T j = – 7 °C	COPd	5,15] -
T j = + 2 °C	Pdh	3,5	kW	T j = +2 °C	COPd	5,65] -
T j = + 7 °C	Pdh	2,4	kW	T j = +7 °C	COPd	6,06	- [
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,06	-
T j = bivalent temperature	Pdh	9,5	kW	T j = bivalent temperature	COPd	4,21	-
T j = operation limit temperature	Pdh	9,48	kW	T j = operation limit temperature	COPd	4,21	-
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}	0,023	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	Р _{то}	0,000	kW				
Standby mode	P _{SB}	0,023	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{ск}	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}	43/n a	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4425	kWh	flow rate, outdoor heat exchanger	-	1,0	m3/h
For heat pump combination h	eater:						
Declared load profile		XL		Water heating energy efficiency/Energy class	$\eta_{wh/-}$	96/A	%
Daily electricity consumption	Qelec	7,945	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1748	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product's	s life cycle, it must product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	Enertech AB, Box						181001