

Information for heat pump	heaters	Enertech AB					
Warm climate and Medium	temperature				341 26 Ljun	gby	
Model(s):		CTC EcoPart 40	08 + CTC EcoLo	ogic			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	139	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:		-	
Heat pump combination heate	er:	No					
parameters shall be declared f			Unit	r low-temperature heat pumps. For	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	135	%
Declared capacity for heating foutdoor temperature T j	or part load at inc	door temperatu	ire 20 °C and	Declared coefficient of perform part load at indoor temperature	•	, ,,	
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	] -
T j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,46	_
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	4,12	-
T i = bivalent temperature	Pdh	7.7	kW	T i = bivalent temperature	COPd	3.22	_

T j = bivalent temperature	Pdh	7,7	kW					
T j = operation limit temperature	Pdh	7,6	kW					
For air-to-water heat pumps: T j = $-15$ °C (if TOL < $-20$ °C)	Pdh	na	kW					
Bivalent temperature	T <sub>biv</sub>	3	°C	Ī				
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW					
Degradation co-efficient	Cdh	0,99	-	ĺ				
Power consumption in modes other than active mode								
Off mode	P OFF	0,018	kW					
Thermostat-off mode	P <sub>TO</sub>	0,004	kW					

			1 1
other than active	mode	_	] [
P <sub>OFF</sub>	0,018	kW	F
P <sub>TO</sub>	0,004	kW	
$P_{SB}$	0,018	kW	1
P <sub>CK</sub>	0,000	kW	
	Fixed		F
L <sub>WA</sub>	46/na	dB	F
Q <sub>HF</sub>	3083	kWh	l lf

T j = - 7 °C	COPd	na	-
T j = +2 °C	COPd	3,13	-
T j = +7 °C	COPd	3,46	-
T j = +12 °C	COPd	4,12	-
T j = bivalent temperature	COPd	3,22	-
T j = operation limit temperature	COPd	3,13	-
For air-to-water heat pumps: T j = $-15$ °C (if TOL < $-20$ °C)	COPd	na	-
For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval efficiency	СОРсус	na	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0,6	kW

Rated heat output	Psup	0,6	kW
Type of energy input		Electric	

For air-to-water heat pumps: Rated air flow rate, outdoors	na	m3/h
For water-/brine-to-water heat pumps: Rated brine or water		
flow rate, outdoor heat exchanger	1,6	m3/h

For heat	amua	combination	heater:

Declared load profile	na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%	
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ properly\ disposed\ properly\ p$ of the product as household waste is not permitted.

Contact details

Standby mode

Other items

outdoors

Capacity control

Crankcase heater mode

Sound power level, indoors/

Annual energy consumption

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Warm climate and Low temperature

Enertech AB 341 26 Ljungby



traini ciiniate ana zott temperatare			0 . = = 0	-,	
Model(s):	CTC EcoPart 408	+ CTC EcoLogic			
Air-to-water heat pump:	No	Energy efficiency class:		-	
Water-to-water heat pump:	No	Controller class:	VII	-	
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%	
Low-temperature heat pump:	No	Package efficiency:	181	%	
Equipped with a supplementary heater:	No	Package efficiency class:		-	
Heat pump combination heater:	No				
Parameters shall be declared for medium-te parameters shall be declared for low-tempe		n, except for low-temperature heat pumps.	For low- tem	perature he	at pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	177	%
Declared capacity for heating for	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar	nce or prima	ry energy rat	io for
outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor tempe	rature
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	-
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit	Pdh	8,2	kW	T j = operation limit	COPd	4,58	1 .
temperature		0)=		temperature		.,50	-
For air-to-water heat pumps:	Pdh	na	kW	For air-to-water heat pumps:	COPd	na	
T j = -15 °C (if TOL < -20 °C)	Pull	na	KVV	T j = - 15 °C (if TOL < - 20 °C)	СОРИ	na	-
	_		1	For air-to-water heat pumps:			1
Bivalent temperature	T <sub>biv</sub>	3	°C	Operation limit temperature	TOL	na	°C
Cycling interval capacity for	р,	na	kW	Cycling interval efficiency	СОРсус	na	_
heating	P <sub>cych</sub>	IIa	l KVV		cor cyc	IIa	
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode		Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kИ
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							•
Canacity control		Fixed		For air-to-water heat pumps:		no	m 2
Capacity control		rixeu		Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat			
outdoors	VVA			pumps: Rated brine or water flow rate, outdoor heat			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	exchanger	-	2,0	m3/
For heat pump combination hea	ater:					1	
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
consumption	ALC	na	I KVVII	Annual ruel consumption	AI-C	na	l di

Average climate and Medium temperature

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 -	CTC EcoLogic		
Air-to-water heat pump:	No	Energy efficiency class:	A++	-
Water-to-water heat pump:	No	Controller class:	VII	-
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%
Low-temperature heat pump:	No	Package efficiency:	140	%
Equipped with a supplementary heater:	No	Package efficiency class:	A++	-
Heat pump combination heater:	No		•	

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	136	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar part load at indoor temperature 2			
T j = -7 °C	Pdh	7,7	kW	T j = - 7 °C	COPd	3,28	] -
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	-
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	4	] -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	3,28	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	-	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination hea	ater:	•					
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a servic	e of that type. t	is of great

Average climate and Low temperature





Model(s):	CTC EcoPart 408 + CT	C EcoLogic		
Air-to-water heat pump:	No	Energy efficiency class:	A++	-
Water-to-water heat pump:	No	Controller class:	VII	-
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%
Low-temperature heat pump:	No	Package efficiency:	184	%
Equipped with a supplementary heater:	No	Package efficiency class:	A+++	-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

parameters shall be declared fo	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	180	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	8,2	kW	T j = - 7 °C	COPd	4,67	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	-
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	ther than active	mode	-	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	ater:		•				
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	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 engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ed not permitted.	offering a service	e of that type. t	is of great

Enertech AB



<b>Cold climate and Medium</b>	Cold climate and Medium temperature				341 26 Ljur	ngby	
Model(s):		CTC EcoPart 40	08 + CTC EcoL	ogic			
Air-to-water heat pump:		No Energy efficiency class:			-		
Water-to-water heat pump:		No	No Controller class:		VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump	<b>)</b> :	No	No Package efficiency:		143	%	
Equipped with a supplement	ary heater:	No		Package efficiency class:		-	
Heat pump combination hea	ter:	No					
Parameters shall be declared parameters shall be declared		• • •	ion, except fo	or low-temperature heat pumps. For	· low- tempera	iture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	139	%
Declared canacity for boating	- f l l !		20.86	Deslayed coefficient of perform			·-

Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	139	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature			
T j = - 7 °C	Pdh	7,8	kW	T j = - 7 °C	COPd	3,55	] -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,92	] -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,27	-
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,52	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,28	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
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 <sub>biv</sub>	-18	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5773	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	eater:		•	- I		•	
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.

Information for heat pump sp Cold climate and Low tempe		nd heat pump	combination	heaters	Enertech Al 341 26 Ljun		CTC
Model(s):		CTC EcoPart 40	08 + CTC EcoLo	gic			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
ow-temperature heat pump:		No		Package efficiency:	187	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater:		No					
Parameters shall be declared for parameters shall be declared for	·	• •	ion, except fo	r low-temperature heat pumps. Fo	r low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	183	%
Declared capacity for heating for outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperatur	•	, ,,	
T j = - 7 °C	Pdh	8,3	kW	T j = -7 °C	COPd	4,88	-
Γ j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	-
Tj = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	-
Tj = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	-
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-19	°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 ot	ther than active	mode	_	Supplementary heater			7
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P ==	0.013	kW.	1 1			

Degradation to emelent	Cuii	0,50	
Power consumption in modes	other than active	mode	_
Off mode	P OFF	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW
Standby mode	$P_{SB}$	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW
Other items			

For air-to-water heat pumps:
Rated air flow rate, outdoors

For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat

2,0

m3/h

**Electric** 

Capacity control		Fixed	
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB
Annual energy consumption	Q <sub>HE</sub>	4612	kWh

For heat pump combination heater:

Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Type of energy input

exchanger



3,22

3,13

na

na

na

65

0,6

°C

°C

kW

Information for heat pump	ာ space heaters ar	heaters	Enertech Al	В			
Warm climate and Mediu	m temperature				341 26 Ljun	gby	
Model(s):		CTC EcoPart 40	8 + CTC EcoZe	nith i350/ i350F			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump	):	No		Package efficiency:	139	%	
Equipped with a supplement	ary heater:	Yes		Package efficiency class:		-	
Heat pump combination hear	ter:	Yes					
			ion, except for	low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared	for low-temperatu	re application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy			
				efficiency	$\eta_{s}$	135	%
Declared capacity for heating outdoor temperature T j	g for part load at inc	door temperatui		Declared coefficient of performation part load at indoor temperature	ance or prima	ry energy rat	o for
	g for part load at ind Pdh	loor temperatui		Declared coefficient of performa	ance or prima	ry energy rat	o for
outdoor temperature T j			re 20 °C and	Declared coefficient of performation part load at indoor temperature	ance or prima 20 °C and ou	ry energy rat tdoor temper	o for
outdoor temperature T j $T j = -7 ^{\circ}C$	Pdh	na	re 20 °C and	Declared coefficient of performation part load at indoor temperature  T j = - 7 °C	ance or prima 20 °C and out	ry energy rati tdoor tempei na	o for
utdoor temperature T j j = -7 °C j = +2 °C	Pdh Pdh	na 7,6	re 20 °C and kW kW	Declared coefficient of performation part load at indoor temperature  T j = - 7 °C  T j = +2 °C	ance or prima 20 °C and out COPd COPd	ry energy ratitdoor temper	o for

1 j = - / °C	Pan	na	KVV		СОРа	
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	
T j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	
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	
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	
Power consumption in modes of	other than active	mode	-	Supplementary heater		
Off mode	P OFF	0,018	kW	Rated heat output	Psup	
Thermostat-off mode	P <sub>TO</sub>	0,004	kW			

Other items				
Capacity control		Fixed		For air-to-w Rated air flo
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/k
Annual energy consumption	Q <sub>HE</sub>	3083	kWh	flow rate, or exchanger

 $P_{SB}$ 

0,018

0,000

Tune of anormy input		Electric	
Type of energy input		Electric	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	1.6	m3/h

For heat pump combination he	ater:						
Declared load profile/		XL / A		Water heating energy	n	103	%
Energy efficiency class	XL/ A			efficiency	$\eta_{\sf wh}$	103	70
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

Standby mode

Crankcase heater mode

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ prope$ of the product as household waste is not permitted.

Enertech AB 341 26 Ljungby



Warm climate and Low temperature			341 26	Ljungby	CIC
Model(s):	CTC EcoPart 408				
Air-to-water heat pump:	No	Energy efficiency class:		-	
Water-to-water heat pump:	No	Controller class:	VII	-	
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%	
Low-temperature heat pump:	No	Package efficiency:	181	%	
Equipped with a supplementary heater:	Yes	Package efficiency class:		-	
Heat pump combination heater:	Yes		_		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	177	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	ater:	•	•			•	•
Declared load profile/		XL / A		Water heating energy	n .	103	%
Energy efficiency class		AL / A	_	efficiency	η <sub>wh</sub>	103	70
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	Gl
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic en	offering a service	ce of that type. t	is of grea

Average climate and Medium temperature

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 4	CTC EcoPart 408 + CTC EcoZenith i350/ i350F						
Air-to-water heat pump:	No	Energy efficiency class:	A++	-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	140	%				
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-				
Heat pump combination heater:	Yes							

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_s$	136	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature	•		
T j = - 7 °C	Pdh	7,7	kW	T j = - 7 °C	COPd	3,28	] -
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	] -
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	4	] -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	3,28	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e <u>mode</u>	_	Supplementary heater			,
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		- <u>*</u>					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/
For heat pump combination he	ater:			-			
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	$\eta_{\sf wh}$	103	%
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	G1
Specific precautions and end of life information:		end of the product	's life cycle, it must	a recycling station or with the installation enging t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ev	offering a serv	ice of that type. t	is of gre

of life information:

 $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ prope$ of the product as household waste is not permitted.

Average climate and Low temperature

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC EcoZenith i350/ i350F						
Air-to-water heat pump:	No	Energy efficiency class:	A++	-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	184	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++	-			
Heat pump combination heater:	Yes						

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_s$	180	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of performal part load at indoor temperature	•		
T j = - 7 °C	Pdh	8,2	kW	T j = - 7 °C	COPd	4,67	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-7	°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	e <u>mode</u>	_	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/
For heat pump combination he	ater:			-			
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	$\eta_{\sf wh}$	103	%
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	G1
Specific precautions and end of life information:		end of the product	's life cycle, it mus	a recycling station or with the installation enging t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ev	offering a serv	ice of that type. t	is of gre

of life information:

 $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ prope$ of the product as household waste is not permitted.

**Cold climate and Medium temperature** 

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC EcoZenith i350/ i350F						
Air-to-water heat pump:	No	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	143	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	139	%
Declared capacity for heating for	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar	nce or prima	ry energy rati	o for
outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor temper	ature T j
T j = - 7 °C	Pdh	7,8	kW	T j = - 7 °C	COPd	3,55	<b>l</b> -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,92	- 1
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,27	- 1
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,52	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,28	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
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 <sub>biv</sub>	-18	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	ther than active	mode	_	Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5773	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	ater:						
Declared load profile/		XL / A		Water heating energy	$\eta_{\sf wh}$	103	%
Energy efficiency class		,	T	efficiency	· IWII		ĺ ~~
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a servi	e of that type. t i	s of great

Enertech AB



Cold climate and Low tem	nperature				341 26 Ljungby		
Model(s):		CTC EcoPart 40	08 + CTC EcoZe	nith i350/ i350F			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump	o:	No		Package efficiency:	187	%	
Equipped with a supplement	ary heater:	Yes		Package efficiency class:		-	
Heat pump combination heat Parameters shall be declared parameters shall be declared	d for medium-tempe		ion, except for	low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and				Declared coefficient of perform	ance or prima	ry energy rat	io for

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	183	%
Declared capacity for heating foutdoor temperature T j	or part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	8,3	kW	T j = - 7 °C	COPd	4,88	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	] -
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	] -
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4612	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination he	eater:						
Declared load profile/		XL / A		Water heating energy	$\eta_{\sf wh}$	103	%
Energy efficiency class		1	1,,,,,	efficiency			-
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	<b>Q</b> fuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
		The packaging mus	t be deposited at a	a recycling station or with the installation engine	eer for correct w	aste managemer	nt. At the

Specific precautions and end of life information:

end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.

Enertech AB



information for near pum	n neaters	Ellertech Ab					
Warm climate and Mediu	um temperature				341 26 Ljungby		
Model(s):		CTC EcoPart 40	08 + CTC EcoZ	Zenith 250			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump	p:	No		Package efficiency:	128	%	
Equipped with a supplement	tary heater:	Yes		Package efficiency class:		-	
Heat pump combination hea	ater:	Yes					
Parameters shall be declared parameters shall be declared			tion, except fo	or low-temperature heat pumps. For	low- tempera	iture heat pu	imps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	124	%
Declared capacity for heating outdoor temperature T j	g for part load at i	ndoor temperatu	ire 20 °C and	Declared coefficient of performa	•	, ,,	
T:_ 7°C	Ddb		T 1/4/		CODA		7

Declared capacity for heating foutdoor 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	na	kW	T j = -7 °C	COPd	na	٦.
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	2,91	1 -
T j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,22	] -
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	3,80	
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,00	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	_
For air-to-water heat pumps: T j = $-15$ °C (if TOL < $-20$ °C)	Pdh	na	kW	For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C \text{)}$	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	_	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,018	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3356	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	eater:						
Declared load profile/		L/A		Water heating energy	$\eta_{\sf wh}$	88,1	%
Energy efficiency class		<u>-</u>	T	efficiency	*****		4

For heat pump combination he	ater:						
Declared load profile/		1./^		Water heating energy	<u> </u>		٥,
Energy efficiency class		L/A		efficiency	$\eta_{\sf wh}$	88,1	%
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	<b>Q</b> fuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.

Information for heat pump sp Warm climate and Low temp		and heat pump	combination	heaters	Enertech A 341 26 Ljur		CTC
Model(s):		CTC EcoPart 4	08 + CTC EcoZe	enith 250			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	158	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater: Parameters shall be declared for parameters shall be declared for	r medium-tem <sub>l</sub>			r low-temperature heat pumps. Fo	r low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	154	%
Declared capacity for heating fo outdoor temperature T j	r part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of perform part load at indoor temperatur			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,19	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,38	
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,63	
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,25	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	] -
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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 of	ther than activ	e mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,055	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	

Power consumption in modes	s other than active	mode	
Off mode	P OFF	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,055	kW
Standby mode	$P_{SB}$	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW
Other items		•	

For air-to-water heat pumps: **Fixed** na Rated air flow rate, outdoors For water-/brine-to-water heat 46/na dΒ  $L_{WA}$ pumps: Rated brine or water flow rate, outdoor heat 2910 kWh 2,0  $Q_{HE}$ exchanger

For heat pump combination heater:

Sound power level, indoors/

Annual energy consumption

Declared load profile/ Energy efficiency class	L/A			Water heating energy efficiency	$\eta_{\sf wh}$	88,1	%
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	<b>Q</b> fuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ properly\ disposed\ properly\ p$ of the product as household waste is not permitted.

Capacity control

outdoors

m3/h

m3/h

Average climate and Medium temperature

Enertech AB 341 26 Ljungby



Model(s):	(s): CTC EcoPart 408 + CTC EcoZenith 250						
Air-to-water heat pump:	No	Energy efficiency class:	A++	-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	129	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-			
Heat pump combination heater:	Yes						

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	125	%
Declared capacity for heating for	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar	nce or prima	ry energy rati	io for
outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor temper	ature T j
T j = - 7 °C	Pdh	7,7	kW	T j = - 7 °C	COPd	3,05	] -
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,39	1 -
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	3,71	1 -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,03	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,11	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
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 <sub>biv</sub>	-6	°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	ther than active	mode	_	Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,018	kW				-
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5670	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	$\eta_{\sf wh}$	88,1	%
Energy efficiency class		-/ ^		efficiency	' Iwh	55,1	/"
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	s life cycle, it mus	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a servi	e of that type. t i	s of great

Average climate and Low temperature

Enertech AB 341 26 Ljungby



			, , ,
CTC EcoPart 408 +	CTC EcoZenith 250		
No	Energy efficiency class:	A++	-
No	Controller class:	VII	-
Yes	Controller contribution:	3,5	%
No	Package efficiency:	163	%
Yes	Package efficiency class:	A++	-
Yes			_
	No No Yes No Yes	No Controller class:  Yes Controller contribution:  No Package efficiency:  Yes Package efficiency class:	NoEnergy efficiency class:A++NoController class:VIIYesController contribution:3,5NoPackage efficiency:163YesPackage efficiency class:A++

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Seasonal space heating energy efficiency	n		
	$\eta_{s}$	159	%
Declared coefficient of performal part load at indoor temperature	•		
T j = - 7 °C	COPd	4,27	] -
T j = +2 °C	COPd	4,44	] -
T j = +7 °C	COPd	4,59	] -
T j = +12 °C	COPd	4,73	
T j = bivalent temperature	COPd	4,31	-
T j = operation limit temperature	COPd	4,19	-
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval efficiency	СОРсус	na	_
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			=
Rated heat output	Psup	1,5	kW
Type of energy input		Electric	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
For water-/brine-to-water heat pumps: Rated brine or water			
flow rate, outdoor heat exchanger	-	2,0	m3/l
Terrer Marie			
Water heating energy	n .	88 1	%
efficiency	' Iwh	00,1	ļ <i>"</i>
Daily fuel consumption	Qfuel	na	kWł
Annual fuel consumption	AFC	na	Gì
	efficiency Daily fuel consumption Annual fuel consumption recycling station or with the installation engin be sent correctly to a waste station or reseller	efficiency  Daily fuel consumption  AfC  Recycling station or with the installation engineer for correct which be sent correctly to a waste station or reseller offering a servicant, compressor oil and electrical/electronic equipment are pro-	efficiency  Daily fuel consumption  Annual fuel consumption  AFC  recycling station or with the installation engineer for correct waste manageme be sent correctly to a waste station or reseller offering a service of that type. t ant, compressor oil and electrical/electronic equipment are properly disposed

Contact details

of the product as household waste is not permitted.

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**Cold climate and Medium temperature** 

Contact details

Enertech AB 341 26 Ljungby



Cold climate and Medium t	temperature				341 26 Ljui	ngby	
Model(s):		CTC EcoPart 40	08 + CTC EcoZe	enith 250			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	131	%	
Equipped with a supplementar	v heater:	Yes		Package efficiency class:		_	
Heat pump combination heate		Yes		the second secon			
			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	9	kW	Seasonal space heating energy efficiency	$\eta_s$	127	%
Declared capacity for heating foutdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performation load at indoor temperature 20 °C			
T j = -7 °C	Pdh	7,8	kW	T j = - 7 °C	COPd	3,31	] -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,63	] -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	3,92	
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,14	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,05	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	] -
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 <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	=	Supplementary heater			7
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,018	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		-	-		-		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6273	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	eater:						
Declared load profile/ Energy efficiency class		L/A		Water heating energy efficiency	$\eta_{wh}$	88,1	%
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	<b>Q</b> fuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	s life cycle, it mus ne product's refrige	a recycling station or with the installation enging to be sent correctly to a waste station or reselle trant, compressor oil and electrical/electronic ento permitted.	r offering a servic	ce of that type. t i	s of great

of the product as household waste is not permitted.

www.ctc.se

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Enertech AB, Box 309, SE-341 26 Ljungby Tel +46 372 88000

**Cold climate and Low temperature** 

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC EcoZenith 250						
Air-to-water heat pump:	No	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	165	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						
Parameters shall be declared for medium-te	emperature application,	except for low-temperature heat pumps.	For low- tem	perature heat pumps,			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_s$	161	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performal part load at indoor temperature 2	•		
T j = - 7 °C	Pdh	8,3	kW	T j = - 7 °C	COPd	4,46	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,59	-
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	4,69	_
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,71	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,3	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	_
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 <sub>biv</sub>	-18	°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 of	other than active	e <u>mode</u>	=	Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,055	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		· ·	·				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5383	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination he	ater:						
Declared load profile/ Energy efficiency class		L/A		Water heating energy efficiency	$\eta_{\sf wh}$	88,1	%
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	G1
Specific precautions and end of life information:		end of the product	t's life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a servi	ce of that type. t	is of great

of life information:

 $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ prope$ of the product as household waste is not permitted.

Warm climate and Medium temperature

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC EcoZenith 550						
Air-to-water heat pump:	No	No Energy efficiency class:					
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	128	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
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	8	kW	Seasonal space heating energy efficiency	$\eta_{s}$	124	%
Declared capacity for heating for	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar	nce or prima	ry energy rati	io for
outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor temper	rature T
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	2,91	-
T j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,22	1 -
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	3,80	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,00	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
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 <sub>biv</sub>	3	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,014	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3015	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination hea	ater:						
Declared load profile/		XL / A		Water heating energy	$\eta_{\sf wh}$	102	%
Energy efficiency class		AL/A		efficiency	' Iwh	102	//
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	s life cycle, it mus	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a servi	ce of that type. t i	is of great

Varm climate and Low temperature

Enertech AB 341 26 Ljungby



Narm climate and Low temperature						ngby	
Model(s):		CTC EcoPart 40	8 + CTC EcoZ	enith 550			
Air-to-water heat pump:		No End		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	162	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heat	er:	Yes					
Parameters shall be declared parameters shall be declared	•	• • •	ion, except fo	or low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy	η <sub>ς</sub>	158	%

Item	Symbol	Value	Unit	Item	Symbol	Value	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_s$	158	
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performar part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	-
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,19	
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,38	
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,63	
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,25	
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	•
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	•
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	
Power consumption in modes of	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	
Thermostat-off mode	P <sub>TO</sub>	0,035	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2439	kWh	flow rate, outdoor heat exchanger	-	2,0	
For heat pump combination he	eater:						۰
Declared load profile/		XL / A		Water heating energy	$\eta_{\sf wh}$	102	
Energy efficiency class		•		efficiency			-
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	•

of life information:

of the product as household waste is not permitted.

 $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ 

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408	+ CTC EcoZenith 550			
Air-to-water heat pump:	No	Energy efficiency class:	A++	-	
Water-to-water heat pump:	No	Controller class:	VII	-	
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%	•
Low-temperature heat pump:	No	Package efficiency:	130	%	
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-	•
Heat pump combination heater:	Yes			_	

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	126	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature			
T j = -7 °C	Pdh	7,7	kW	T j = - 7 °C	COPd	3,05	] -
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,39	-
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	3,71	-
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,03	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,11	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	=	Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,014	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items			•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5248	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination hea	ater:	•	•				
Declared load profile/		XL / A		Water heating energy	n	102	%
Energy efficiency class		AL / A	Г	efficiency	$\eta_{\sf wh}$	102	70
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	$\mathbf{Q}_{fuel}$	NA	kWh
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic en	offering a service	e of that type. t	is of grea

Average climate and Low temperature

Enertech AB 341 26 Ljungby



Model(s): CTC EcoPart 408 + CTC EcoZenith 550  Air-to-water heat pump: No Energy efficiency class:			<u>.</u>
Air to water heat nump:			
Air-to-water heat pump: No Energy efficiency class:	A++	-	
Water-to-water heat pump: No Controller class:	VII	-	
Brine-to-water heat pump: Yes Controller contribution:	3,5	%	
Low-temperature heat pump: No Package efficiency:	165	%	
Equipped with a supplementary heater: Yes Package efficiency class:	A++	-	
Heat pump combination heater: Yes			
Heat pump combination heater: Yes  Parameters shall be declared for medium-temperature application, except for low-temperature heat pump	s Farlow tom	maratura baat n	

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	161	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	8,2	kW	T j = - 7 °C	COPd	4,27	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,43	-
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,58	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,73	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,27	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	-
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,035	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4542	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	ater:	•					
Declared load profile/		XL / A		Water heating energy	$\eta_{\sf wh}$	102	%
Energy efficiency class		AL/A	_	efficiency	' Iwh	102	J 7º
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ed	offering a service	e of that type. t	is of grea



Information for heat pump sp Cold climate and Medium te		and heat pump	combination	heaters	Enertech A 341 26 Ljui	<b>7</b> /	CIC
Model(s):		CTC EcoPart 40	08 + CTC EcoZe	enith 550			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	132	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater:		Yes					
Parameters shall be declared for parameters shall be declared for			tion, except fo	r low-temperature heat pumps. Fo	or low- tempera	ature heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	128	%
Declared capacity for heating fo outdoor temperature T j	r part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of perform	•		
T j = - 7 °C	Pdh	7,8	kW	T j = - 7 °C	COPd	3,31	] -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,64	] -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	3,93	
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,14	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,09	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	_
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 <sub>biv</sub>	-17	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,3	kW
Thermostat-off mode	P <sub>TO</sub>	0,014	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	

Power consumption in modes of	other than active	mode	_
Off mode	P OFF	0,018	kW
Thermostat-off mode	P <sub>TO</sub>	0,014	kW
Standby mode	$P_{SB}$	0,018	kW
Crankcase heater mode	P <sub>CK</sub>	0,000	kW
Thermostat-off mode Standby mode	P <sub>TO</sub> P <sub>SB</sub>	0,014 0,018	kW kW

 $L_{WA}$ 

 $Q_{HE}$ 

For air-to-water heat pumps: **Fixed** na Rated air flow rate, outdoors For water-/brine-to-water heat 46/na dΒ pumps: Rated brine or water flow rate, outdoor heat 5781 kWh 1,6 m3/h exchanger

For heat pump combination heater:

Sound power level, indoors/

Annual energy consumption

Declared load profile/ Energy efficiency class	XL/A		· · · ·		Water heating energy efficiency	$\eta_{\sf wh}$	102	%
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ	

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ properly\ disposed\ properly\ p$ of the product as household waste is not permitted.

Other items

outdoors

Capacity control

m3/h

**Cold climate and Low temperature** 

Enertech AB 341 26 Ljungby



CTC EcoPart 408 + CTC EcoZenith 550						
No	Energy efficiency class:		-			
No	Controller class:	VII	-			
Yes	Controller contribution:	3,5	%			
No	Package efficiency:	167	%			
Yes	Package efficiency class:		-			
Yes						
	No No Yes No Yes Yes	No     Energy efficiency class:       No     Controller class:       Yes     Controller contribution:       No     Package efficiency:       Yes     Package efficiency class:       Yes	No     Energy efficiency class:       No     Controller class:     VII       Yes     Controller contribution:     3,5       No     Package efficiency:     167       Yes     Package efficiency class:			

parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	163	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performar part load at indoor temperature 2			
T j = - 7 °C	Pdh	8,3	kW	T j = -7 °C	COPd	4,46	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,59	1 -
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	4,69	1 -
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,71	] -
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,30	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	-
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 <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°(
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°(
Power consumption in modes of	other than active	mode	-	Supplementary heater		•	_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,0	kV
Thermostat-off mode	P <sub>TO</sub>	0,035	kW	[ ]			
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		<u>.</u>					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3,
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4374	kWh	flow rate, outdoor heat exchanger	-	2,0	m3,
For heat pump combination he	ater:						
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	$\eta_{wh}$	102	%
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kW
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	G.

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408	CTC EcoPart 408 + CTC Basicstyrning							
Air-to-water heat pump:	No	Energy efficiency class:		-					
Water-to-water heat pump:	No	Controller class:	I	-					
Brine-to-water heat pump:	Yes	Controller contribution:	1	%					
Low-temperature heat pump:	No	Package efficiency:	136	%					
Equipped with a supplementary heater:	No	Package efficiency class:		-					
Heat pump combination heater:	No								

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	$\eta_{s}$	135	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	1 .
Tj=+2°C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	1 .
Tj=+7°C	Pdh	7,8	kW	T j = +7 °C	COPd	3,46	1 -
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	4,12	1 -
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,22	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	_
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3083	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he		1		I Texturinger			1
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	's life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rrant, compressor oil and electrical/electronic ed	offering a service	e of that type. t	is of great

Enertech AB 341 26 Ljungby Warm climate and Low temperature



Model(s):	CTC EcoPart 408	+ CTC Basicstyrning		
Air-to-water heat pump:	No	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	I	-
Brine-to-water heat pump:	Yes	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	178	%
Equipped with a supplementary heater:	No	Package efficiency class:		-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	177	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2	•		
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	] -
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		<del>!</del>					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	ater:	•	•				•
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ed	offering a servic	e of that type. t	is of great

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC Basicstyrning							
Air-to-water heat pump:	No	Energy efficiency class:	A++	-				
Water-to-water heat pump:	No	Controller class:	1	-				
Brine-to-water heat pump:	Yes	Controller contribution:	1	%				
Low-temperature heat pump:	No	Package efficiency:	137	%				
Equipped with a supplementary heater:	No	Package efficiency class:	A++	-				
Heat pump combination heater:	No							

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	136	%
Declared capacity for heating foo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2	•		
T j = - 7 °C	Pdh	7,7	kW	T j = - 7 °C	COPd	3,28	] -
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	-
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	4	_
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	3,28	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		<del>!</del>					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination hea	ater:	-	•	1 1 0-	· · · · · · · · · · · · · · · · · · ·		
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ed ant permitted	offering a service	e of that type. t	is of great

Enertech AB 341 26 Ljungby Average climate and Low temperature



Model(s):	CTC EcoPart 408 +	+ CTC Basicstyrning		
Air-to-water heat pump:	No	Energy efficiency class:	A++	-
Water-to-water heat pump:	No	Controller class:	ı	-
Brine-to-water heat pump:	Yes	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	181	%
Equipped with a supplementary heater:	No	Package efficiency class:	A+++	-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	180	%
Declared capacity for heating for	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performan			
outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor tempe	rature T
T j = -7 °C	Pdh	8,2	kW	T j = -7 °C	COPd	4,67	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	] -
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination he	ater:			1 1			•
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	's life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rrant, compressor oil and electrical/electronic ed	offering a service	e of that type. t	is of great

Information for heat pump sp Cold climate and Medium ter		ind heat pump	combination	heaters	Enertech A 341 26 Ljur		
Model(s):		CTC EcoPart 40	08 + CTC Basic	styrning			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	I	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	140	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater: Parameters shall be declared for parameters shall be declared for	r medium-temp		ion, except fo	r low-temperature heat pumps. Foi	· low- tempera	ature heat pu	ımps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	139	%
Declared capacity for heating for outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature	•		
T j = - 7 °C	Pdh	7,8	kW	T j = - 7 °C	COPd	3,55	] -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,92	] -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,27	
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,52	<b>」</b> -
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,28	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	
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 <sub>biv</sub>	-18	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes ot	ther than active	e <u>mode</u>	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	1,0	kИ
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	

Crankcase heater mode  $P_{CK}$ 0,000 kWOther items

Capacity control **Fixed** Sound power level, indoors/ 46/na dΒ  $L_{WA}$ outdoors kWh Annual energy consumption 5773  $Q_{HE}$ 

For air-to-water heat pumps: na m3/h Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat 1,6 m3/h exchanger

For heat pump combination heater:

Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ properly\ disposed\ properly\ p$ of the product as household waste is not permitted.

Enertech AB **Cold climate and Low temperature** 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC Basicstyrning						
Air-to-water heat pump:	No	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	1	-			
Brine-to-water heat pump:	Yes	Controller contribution:	1	%			
Low-temperature heat pump:	No	Package efficiency:	184	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_s$	183	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	8,3	kW	T j = - 7 °C	COPd	4,88	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	] -
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	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	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		-	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4612	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/l
For heat pump combination he	ater:	•	•			•	•
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refriger	recycling station or with the installation engine be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec not permitted.	offering a service	e of that type. t	is of great
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Enertech AB



nformation for heat pump space heaters and heat pump combination Varm climate and Medium temperature				heaters	Enertech A 341 26 Ljur		EC
Model(s):	temperature	CTC EcoPart 40	08 + CTC Basic		3 11 20 Ljui	16~1	
Air-to-water heat pump:		No No	o i ci c basic	Energy efficiency class:		_	
Water-to-water heat pump:		No		Controller class:	1	_	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	110	%	
	hooton				110	-	
Equipped with a supplementary		No		Package efficiency class:		-	
Heat pump combination heater: Parameters shall be declared fo		No perature applicat	ion except for	r low-temperature heat pumps. Fo	r low- tempera	ture heat nu	mns
parameters shall be declared for			ion, except for	low temperature near pamps. To	r low tempera	tare neat pa	ттрз,
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	, , ,	109	%
Declared capacity for heating fo	r part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of perform	•		
Г j = – 7 °C	Pdh	na	kW	T j = -7 °C	COPd	na	] -
ī j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	] -
Γ j = + 7 °C	Pdh	7,6	kW	T j = +7 °C	COPd	3,03	] -
j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	2,92	
Γ j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	-
「j = operation limit emperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	e <u>mode</u>	_	Supplementary heater			_
Off mode	P OFF	0,007	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0	kW				
Other items		<del>.</del>	<del>-</del>		-		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water hea pumps: Rated brine or water	t		
Annual energy consumption	Q <sub>HE</sub>	3756	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination hea	iter:						
Declared load profile		na		Water heating energy	$\eta_{\sf wh}$	na	%

Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	<b>Q</b> fuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC Basi	С		
Air-to-water heat pump:	No	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	I	-
Brine-to-water heat pump:	Yes	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	162	%
Equipped with a supplementary heater:	No	Package efficiency class:		-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	161	%
Declared capacity for heating fo outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	-
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,44	-
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,26	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	•	Supplementary heater			
Off mode	P OFF	0,007	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	$P_{SB}$	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2796	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h
For heat pump combination hea	ater:	•	•				
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	recycling station or with the installation engine be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic econot permitted.	offering a service	e of that type. t i	s of great

Average climate and Medium temperature

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoPart 408 + CTC Basic			
Air-to-water heat pump:	No	Energy efficiency class:	A+	-
Water-to-water heat pump:	No	Controller class:	1	-
Brine-to-water heat pump:	Yes	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	111	%
Equipped with a supplementary heater:	No	Package efficiency class:	A+	-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	$\eta_{s}$	110	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	7,6	kW	T j = - 7 °C	COPd	3,13	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,01	-
T j = + 7 °C	Pdh	7,6	kW	T j = +7 °C	COPd	2,94	] -
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	2,87	-
T j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,007	kW	Rated heat output	Psup	1	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items			•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6029	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination hea	ater:		•				
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec	offering a service	e of that type. t i	s of great

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

Enertech AB 341 26 Ljungby



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Model(s):	CTC EcoPart 408 + CTC Basic			
Air-to-water heat pump:	No	Energy efficiency class:	A++	-
Water-to-water heat pump:	No	Controller class:	I	-
Brine-to-water heat pump:	Yes	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	164	%
Equipped with a supplementary heater:	No	Package efficiency class:	A++	-
Heat pump combination heater:	No			

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	163	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature	•		
T j = - 7 °C	Pdh	8,2	kW	T j = - 7 °C	COPd	4,58	] -
T j = + 2 °C	Pdh	8,1	kW	T j = +2 °C	COPd	4,40	] -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,30	] -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,20	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	_
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 <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,007	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				-
Standby mode	$P_{SB}$	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4467	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h
For heat pump combination he	ater:	1	•				
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	<b>Q</b> fuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	recycling station or with the installation engine the sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic eductions permitted.	offering a servic	e of that type. t	is of great

Information for heat pump sp Cold climate and Medium te		ind heat pump	combination	heaters	Enertech A 341 26 Ljur		TC
Model(s):		CTC EcoPart 40	08 + CTC Basic				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	I	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	111	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	r medium-temp		ion, except fo	r low-temperature heat pumps. For	· low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	$\eta_s$	110	%
Declared capacity for heating fo outdoor temperature T j	r part load at ir	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = -7 °C	Pdh	7,6	kW	T j = -7 °C	COPd	3,02	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	2,94	] -
T j = + 7 °C	Pdh	7,6	kW	T j = +7 °C	COPd	2,90	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	2,86	-
T j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	_
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 <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	_	Supplementary heater			7
Off mode	P OFF	0,007	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	$P_{SB}$	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0	kW		1		

Other items

**Fixed** Capacity control Sound power level, indoors/ 46/na dΒ  $L_{WA}$ outdoors 6950 kWh Annual energy consumption  $Q_{HE}$ 

For air-to-water heat pumps: na m3/h Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat 1,5 m3/h exchanger

For heat pump combination heater:

Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ disposed\ of.\ Disposing\ properly\ disposed\ properly\ properly\ disposed\ properly\ p$ of the product as household waste is not permitted.

Enertech AB



181001

Cold climate and Low ten	nperature				341 26 Ljur	igby	
Model(s):		CTC EcoPart 40	8 + CTC Basic				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	1	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump	o:	No F		Package efficiency:	163	%	
Equipped with a supplement	ary heater:	No F		Package efficiency class:		-	
Heat pump combination hea	ter:	No					
Parameters shall be declared parameters shall be declared	•		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	162	%
Declared capacity for heating outdoor temperature T j	g for part load at ind	door temperatu	re 20 °C and	Declared coefficient of performa	•	,	

Rated heat output (*)	Prated	9	kW	efficiency	$\eta_{S}$	162	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = - 7 °C	Pdh	8,1	kW	T j = - 7 °C	COPd	4,41	] -
T j = + 2 °C	Pdh	8,1	kW	T j = +2 °C	COPd	4,30	1 -
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,23	] -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,17	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-20	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			_
Off mode	P OFF	0,007	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input	Electric		
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		,					
Capacity control	Fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5009	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h
For heat pump combination he	eater:		•	, 1		•	•
Declared load profile	na			Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great  $importance\ that\ the\ product's\ refrigerant,\ compressor\ oil\ and\ electrical/electronic\ equipment\ are\ properly\ disposed\ of.\ Disposing$ of the product as household waste is not permitted.