Enertech AB



Warm climate and Mediu	ım temperature				341 26 Ljur	igby	
Model(s):		CTC EcoAir 40	06 + CTC EcoZe	enith i350/ i350F			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump):	No		Package efficiency:	144	%	
Equipped with a supplement	ary heater:	Yes		Package efficiency class:		-	
Heat pump combination hear Parameters shall be declared parameters shall be declared	for medium-temp			or low-temperature heat pumps. For	r low- tempera	ature heat pu	ımps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	140	%
Declared capacity for heating outdoor temperature T i				efficiency Declared coefficient of performation at indoor temperature 20 °c	ance or primar	y energy rati	o for p

Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	140	%
Declared capacity for heating foutdoor temperature T j	or part load at ind	door temperati	ure 20 °C and	Declared coefficient of performal load at indoor temperature 20 °C			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	2,43	-
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,39	-
T j = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,80	-
T j = bivalent temperature	Pdh	4,5	kW	T j = bivalent temperature	COPd	2,69	-
T j = operation limit temperature	Pdh	4,3	kW	T j = operation limit temperature	COPd	2,50	_
For air-to-water heat pumps: $T j = -15 ^{\circ}\text{C} \text{ (if TOL } < -20 ^{\circ}\text{C)}$	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°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	55	°C
Power consumption in modes	other than active	mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,9	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1947	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:						
Declared load profile/		XL / A		Water heating energy	η_{wh}	112	%
Energy efficiency class		1,		efficiency	·WII		
Daily electricity consumption	Qelec	6,835	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual alastuisitus			1				1

For neat pump combination nea	ter:						
Declared load profile/		XL / A		Water heating energy	n .	112	%
Energy efficiency class		AL / A		efficiency	$\eta_{\sf wh}$	112	/°
Daily electricity consumption	Qelec	6,835	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity	AEC	1504	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.

Enertech AB 341 26 Ljungby



Warm climate and Low te	mperature				341 26 Ljur	ngby	
Model(s):		CTC EcoAir 4	06 + CTC EcoZ	Zenith i350/ i350F			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump):	No		Package efficiency:	192	%	
Equipped with a supplement	ary heater:	Yes		Package efficiency class:		-	
Heat pump combination hea	ter:	Yes					
Parameters shall be declared parameters shall be declared				for low-temperature heat pumps	s. For low- tempe	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energefficiency	gy η_{S}	188	%
Declared capacity for heating	g for part load at in	door tempera	nture 20 °C	Declared coefficient of perform	rmance or prima	ry energy ra	tio for

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	188	%
Declared capacity for heating f and outdoor temperature T j	or part load at in	door tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	-
T j = + 2 °C	Pdh	4,7	kW	T j = +2 °C	COPd	3,66	-
T j = + 7 °C	Pdh	6,3	kW	T j = +7 °C	COPd	4,96	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,45	-
T j = bivalent temperature	Pdh	4,8	kW	T j = bivalent temperature	COPd	3,79	-
T j = operation limit temperature	Pdh	4,7	kW	T j = operation limit temperature	COPd	3,87	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than active	mode	_	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,5	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items			•]			
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1451	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:	•	-	<u> </u>		-	-
Declared load profile/		XL / A		Water heating energy	η _{wh}	111,6	%
Energy efficiency class		/L / A		efficiency	' Iwh	111,0	/0
Daily electricity consumption	Qelec	6,835	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1504	kWh	Annual fuel consumption	AFC	na	GJ

Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	η_{wh}	111,6	%
Daily electricity consumption	Qelec	6,835	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1504	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.

Information for heat pump space heaters and heat pump combination heaters $% \left(1\right) =\left(1\right) \left(1\right)$

Average climate and Medium temperature

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Model(s):	CTC EcoAir 406 + CTC EcoZenith i350/ i350F					
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-		
Water-to-water heat pump:	No	Controller class:	VII	-		
Brine-to-water heat pump:	No	Controller contribution:	3,5	%		
Low-temperature heat pump:	No	Package efficiency:	119	%		
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+	-		
Heat pump combination heater:	Yes					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	115	%
Declared capacity for heating for and outdoor temperature T j	or part load at ii	ndoor tempera	ture 20 °C	Declared coefficient of performal part load at indoor temperature			
T j = -7 °C	Pdh	3,5	kW	T j = - 7 °C	COPd	2,13] -
T j = + 2 °C	Pdh	4,4	kW	T j = +2 °C	COPd	2,93	1 -
T j = + 7 °C	Pdh	6,0	kW	T j = +7 °C	COPd	3,99	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	3,8	kW	T j = bivalent temperature	COPd	2,44	-
T j = operation limit temperature	Pdh	3,1	kW	T j = operation limit temperature	COPd	1,82	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	ther than activ	e mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,9	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3470	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption	Qelec	7,752	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1705	kWh	Annual fuel consumption	AFC	na	G1
Specific precautions and end of life information:		end of the production	ct's life cycle, it n the product's refi	at a recycling station or with the installation enginust be sent correctly to a waste station or reselingerant, compressor oil and electrical/electronic	ler offering a ser	vice of that type	. t is of great

Average climate and Low temperature

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Model(s):	CTC EcoAir 406 + CTC EcoZenith i350/ i350F					
Air-to-water heat pump:	Yes	Energy efficiency class:	A++	-		
Water-to-water heat pump:	No	Controller class:	VII	-		
Brine-to-water heat pump:	No	Controller contribution:	3,5	%		
Low-temperature heat pump:	No	Package efficiency:	155	%		
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-		
Heat pump combination heater:	Yes					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	151	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature	•		
T j = -7 °C	Pdh	3,9	kW	T j = - 7 °C	COPd	3,16	-
T j = + 2 °C	Pdh	4,8	kW	T j = +2 °C	COPd	3,92] -
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,25] -
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,66	-
T j = bivalent temperature	Pdh	4,1	kW	T j = bivalent temperature	COPd	3,35	-
T j = operation limit temperature	Pdh	3,5	kW	T j = operation limit temperature	COPd	2,85	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than activ	e mode		Supplementary heater		•	•
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,6	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•					-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2722	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:	<u> </u>					
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption	Qelec	7,752	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1705	kWh	Annual fuel consumption	AFC	na	Gl
Specific precautions and end of life information:		end of the production	ct's life cycle, it m the product's refr	at a recycling station or with the installation enginess be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not normitted.	ler offering a se	rvice of that type	. t is of grea

Cold climate and Medium temperature

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Model(s):	CTC EcoAir 406 +	CTC EcoAir 406 + CTC EcoZenith i350/ i350F					
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	107	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	ι
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	103	
Declared capacity for heating for	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performan	nce or prima	ry energy rat	tio fo
and outdoor temperature T j				part load at indoor temperature 2	20 °C and ou	tdoor tempe	ratu
T j = - 7 °C	Pdh	3,6	kW	T j = - 7 °C	COPd	2,49	1
T j = + 2 °C	Pdh	4,5	kW	T j = +2 °C	COPd	3,22	1
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,34	
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,44	
T j = bivalent temperature	Pdh	3,4	kW	T j = bivalent temperature	COPd	2,37	
T j = operation limit temperature	Pdh	1,7	kW	T j = operation limit temperature	COPd	1,67	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,6	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	1,76	
Bivalent temperature	T _{biv}	-9	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	
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	55	
Power consumption in modes of	ther than activ	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	3,5	1
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4785	kWh	flow rate, outdoor heat exchanger	-	na	m
For heat pump combination hea	ater:						
Declared load profile/		XL / A		Water heating energy	n .	89	
Energy efficiency class		AL / A	ı	efficiency	$\eta_{\sf wh}$	07	-
Daily electricity consumption	Qelec	8,552	kWh	Daily fuel consumption	Qfuel	na	k
Annual electricity consumption	AEC	1881	kWh	Annual fuel consumption	AFC	na	
Specific precautions and end of life information:		end of the produ importance that	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic	ler offering a ser	vice of that type	. t is

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Cold climate and Low tem	perature				341 26 Ljur	ngby	
Model(s):		CTC EcoAir 40	06 + CTC EcoZ	Zenith i350/ i350F			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII -		
Brine-to-water heat pump:		No		Controller contribution:	3,5	3,5 %	
Low-temperature heat pump):	No		Package efficiency:	135 %		
Equipped with a supplement	ary heater:	Yes		Package efficiency class:	-		
Heat pump combination hear Parameters shall be declared parameters shall be declared	l for medium-tem			for low-temperature heat pumps. I	or low- tempe	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_{s}	131	%

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_{s}	131	%
Declared capacity for heating f and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = -7 °C	Pdh	4,0	kW	T j = - 7 °C	COPd	3,34] -
T j = + 2 °C	Pdh	4,9	kW	T j = +2 °C	COPd	4,07	-
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,40	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,62	-
T j = bivalent temperature	Pdh	3,2	kW	T j = bivalent temperature	COPd	2,92	-
T j = operation limit temperature	Pdh	1,9	kW	T j = operation limit temperature	COPd	1,83	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,9	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,58	-
Bivalent temperature	T _{biv}	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than activ	e mode	_	Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	2,2	kW
Thermostat-off mode	P_{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items]			۹
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3045	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile/ Energy efficiency class		XL / A		Water heating energy efficiency	η_{wh}	89	%
Daily electricity consumption	Qelec	8,552	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1881	kWh	Annual fuel consumption	AFC	na	GJ
		The packaging m	ust be deposited	at a recycling station or with the installation eng	gineer for correc	t waste manager	nent. At the

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.

Information for heat pump space heaters and heat pump combination heaters $% \left(1\right) =\left(1\right) \left(1\right)$

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Model(s):	CTC EcoAir 406 + CTC EcoLogic							
Air-to-water heat pump:	Yes	Energy efficiency class:		-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	144	%				
Equipped with a supplementary heater:	No	Package efficiency class:		-				
Heat pump combination heater:	No							

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	140	%
Declared capacity for heating for and outdoor temperature T j	or part load at in	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	2,43	-
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,39] -
T j = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,80	-
T j = bivalent temperature	Pdh	4,5	kW	T j = bivalent temperature	COPd	2,69	-
T j = operation limit temperature	Pdh	4,3	kW	T j = operation limit temperature	COPd	2,50	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°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	55	°C
Power consumption in modes o	other than active	e mode	1	Supplementary heater		_	-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,9	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1947	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:			1 Jenemaniger		·	
Declared load profile		na		Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	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 produc importance that t	ct's life cycle, it m he product's refr	at a recycling station or with the installation enginest be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not permitted.	ler offering a se	rvice of that type	. t is of grea

Warm climate and Low temperature

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Model(s):	CTC EcoAir 406 + CTC EcoLogic							
Air-to-water heat pump:	Yes	Energy efficiency class:		-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	192	%				
Equipped with a supplementary heater:	No	Package efficiency class:		-				
Heat pump combination heater:	No							
Parameters shall be declared for medium-te	emperature applicatio	n, except for low-temperature heat pump	s. For low- te	emperature heat pumps,				

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	188	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	-
T j = + 2 °C	Pdh	4,7	kW	T j = +2 °C	COPd	3,66	_
T j = + 7 °C	Pdh	6,3	kW	T j = +7 °C	COPd	4,96	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,45	-
T j = bivalent temperature	Pdh	4,8	kW	T j = bivalent temperature	COPd	3,79	-
T j = operation limit temperature	Pdh	4,7	kW	T j = operation limit temperature	COPd	3,87	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than activ	e mode	1	Supplementary heater		_	-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,5	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1451	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:	1		1 1 2 2 8			
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 productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginest be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not normitted.	ler offering a se	rvice of that type	. t is of grea

Information for heat pump space heaters and heat pump combination heaters $% \left(1\right) =\left(1\right) \left(1\right)$

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Model(s):	CTC EcoAir 406 + CTC EcoLogic							
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	119	%				
Equipped with a supplementary heater:	No	Package efficiency class:	A+	-				
Heat pump combination heater:	No							

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	115	%
Declared capacity for heating for and outdoor temperature T j	or part load at ir	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	3,5	kW	T j = - 7 °C	COPd	2,13] -
T j = + 2 °C	Pdh	4,4	kW	T j = +2 °C	COPd	2,93	-
T j = + 7 °C	Pdh	6,0	kW	T j = +7 °C	COPd	3,99	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	3,8	kW	T j = bivalent temperature	COPd	2,44	-
T j = operation limit temperature	Pdh	3,1	kW	T j = operation limit temperature	COPd	1,82	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes o	other than active	e mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,9	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3470	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile		na	_	Water heating energy efficiency	η_{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 production importance that t	t's life cycle, it m he product's refr	at a recycling station or with the installation engines be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not permitted.	ler offering a se	rvice of that type	. t is of grea

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Model(s):	CTC EcoAir 406 + CTC EcoLogic							
Air-to-water heat pump:	Yes	Energy efficiency class:	A++	-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	155	%				
Equipped with a supplementary heater:	No	Package efficiency class:	A++	-				
Heat pump combination heater:	No							

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	151	%
Declared capacity for heating for and outdoor temperature T j	or part load at ir	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature			
T j = -7 °C	Pdh	3,9	kW	T j = - 7 °C	COPd	3,16] -
T j = + 2 °C	Pdh	4,8	kW	T j = +2 °C	COPd	3,92] -
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,25	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,66	-
T j = bivalent temperature	Pdh	4,1	kW	T j = bivalent temperature	COPd	3,35	-
T j = operation limit temperature	Pdh	3,5	kW	T j = operation limit temperature	COPd	2,85	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than active	e mode	-	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,6	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2722	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:	<u> </u>		1 Jeneman-Ben			
Declared load profile		na		Water heating energy efficiency	η_{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 productimportance that t	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	ler offering a se	rvice of that type	. t is of grea

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Model(s):		CTC EcoAir 40	06 + CTC EcoL	.ogic			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII -		
Brine-to-water heat pump:		No		Controller contribution:	3,5	,5 %	
Low-temperature heat pump) :	No		Package efficiency:	107 %		
Equipped with a supplement	ary heater:	No		Package efficiency class:	-		
Heat pump combination hea	ter:	No					
Parameters shall be declared parameters shall be declared				for low-temperature heat pumps.	For low- tempe	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η _ς	103	%
Declared capacity for heating	g for part load at ir	door temperat	ture 20 °C	Declared coefficient of perform	nance or prima	ry energy ra	tio for
				I have the end of the decrease and a second control of	20 00 1		

	•				•		
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	103	%
Declared capacity for heating f and outdoor temperature T j	or part load at in	idoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = -7 °C	Pdh	3,6	kW	T j = - 7 °C	COPd	2,49	1 -
T j = + 2 °C	Pdh	4,5	kW	T j = +2 °C	COPd	3,22	-
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,34	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,44	-
T j = bivalent temperature	Pdh	3,4	kW	T j = bivalent temperature	COPd	2,37	-
T j = operation limit temperature	Pdh	1,7	kW	T j = operation limit temperature	COPd	1,67	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,6	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,76	-
Bivalent temperature	T _{biv}	-9	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	55	°C
Power consumption in modes	other than active	mode	-	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,5	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•	•	1			
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4785	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:	-	-	<u> </u>		-	-
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	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

For heat pump combination he	eater:						
Declared load profile		na		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Q 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.

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Model(s):	CTC EcoAir 406 + CTC EcoLogic						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	135	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for and outdoor temperature T j	or part load at ii	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	4,0	kW	T j = - 7 °C	COPd	3,34	-
T j = + 2 °C	Pdh	4,9	kW	T j = +2 °C	COPd	4,07	_
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,40	_
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,62	-
T j = bivalent temperature	Pdh	3,2	kW	T j = bivalent temperature	COPd	2,92	-
T j = operation limit temperature	Pdh	1,9	kW	T j = operation limit temperature	COPd	1,83	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,9	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,58	-
Bivalent temperature	T _{biv}	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	other than activ	e mode		Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	2,2	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3045	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:	•		1 1 0 -		•	
Declared load profile		na		Water heating energy efficiency	η_{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 produc importance that t	t's life cycle, it m he product's refr	at a recycling station or with the installation enginust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic hold waste is not permitted.	ler offering a se	rvice of that type	t is of grea

Information for heat pump space heaters and heat pump combination heaters $% \left(1\right) =\left(1\right) \left(1\right)$

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	135	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	131	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	cure 20 °C	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	4,3	kW	T j = +2 °C	COPd	2,24	-
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,16	-
T j = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,54	-
T j = bivalent temperature	Pdh	4,4	kW	T j = bivalent temperature	COPd	2,37	-
T j = operation limit temperature	Pdh	4,3	kW	T j = operation limit temperature	COPd	2,31	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°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	55	°C
Power consumption in modes of	other than activ	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,4	kW
Thermostat-off mode	P _{TO}	0,010	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1866	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	L	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	71	%
Daily electricity consumption	Qelec	6,566	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1445	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n the product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	, ler offering a ser	vice of that type	. t is of great

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	178	%			
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	
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	174	
Declared capacity for heating for	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa	nce or prima	ry energy rat	tio fo
and outdoor temperature T j				part load at indoor temperature	20 °C and ou	tdoor tempe	ratu
T j = - 7 °C	Pdh	na	kW	T j = -7 °C	COPd	na	7
T j = + 2 °C	Pdh	4,7	kW	T j = +2 °C	COPd	3,32	
T j = + 7 °C	Pdh	6,3	kW	T j = +7 °C	COPd	4,60	
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,06]
T j = bivalent temperature	Pdh	4,8	kW	T j = bivalent temperature	COPd	3,44	
T j = operation limit temperature	Pdh	4,7	kW	T j = operation limit temperature	COPd	3,53	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	
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	55	
Power consumption in modes o	ther than activ	e mode		Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,5	k
Thermostat-off mode	P _{TO}	0,027	kW		·	•	•
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		·]			_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1568	kWh	flow rate, outdoor heat exchanger	-	na	m
For heat pump combination hea	ater:			<u> </u>			
Declared load profile	L	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	71	
Daily electricity consumption	Qelec	6,566	kWh	Daily fuel consumption	Qfuel	NA	k
Annual electricity consumption	AEC	1445	kWh	Annual fuel consumption	AFC	NA	
Specific precautions and end of life information:		end of the production	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	er offering a ser	vice of that type	e. t is c

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	125	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	121	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performal part load at indoor temperature 2			
	D-11-	2.0	1 1347				1
T j = -7 °C T j = +2 °C	Pdh Pdh	3,8 4,9	kW kW	T j = -7 °C T j = +2 °C	COPd COPd	2,23 3,20	-
Tj=+2°C	Pdh	6,3	kW	T j = +7 °C	COPd	4,05	_
Tj = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,95	-
T j = bivalent temperature	Pdh	4,2	kW	T j = bivalent temperature	COPd	2,64	-
T j = operation limit temperature	Pdh	3,3	kW	T j = operation limit temperature	COPd	1,90	-
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	other than activ	e mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,6	kW
Thermostat-off mode	P _{TO}	0,018	kW			•	,
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3288	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:	•	•			•	
Declared load profile	L	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	59	%
Daily electricity consumption	Qelec	7,902	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1738	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the production	ct's life cycle, it r the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic	er offering a ser	vice of that type	. t is of grea

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	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						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	136	%
Declared capacity for heating for	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa			
and outdoor temperature T j				part load at indoor temperature	20°C and ou	tdoor tempe	rature I
T j = -7 °C	Pdh	3,9	kW	T j = - 7 °C	COPd	2,81	-
T j = + 2 °C	Pdh	4,8	kW	T j = +2 °C	COPd	3,54	-
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	4,87	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,25	-
T j = bivalent temperature	Pdh	4,2	kW	T j = bivalent temperature	COPd	3,07	-
T j = operation limit temperature	Pdh	3,5	kW	T j = operation limit temperature	COPd	2,51	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	other than activ	e mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	2,0	kW
Thermostat-off mode	P _{TO}	0,027	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3244	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	L	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	59	%
Daily electricity consumption	Qelec	7,902	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1738	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the production	ct's life cycle, it r the product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or reselingerant, compressor oil and electrical/electronicals	er offering a ser	vice of that type	. t is of gre

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	99	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	Un
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	95	9
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature	•		
T j = - 7 °C	Pdh	3,6	kW	T j = -7 °C	COPd	2,29] -
T j = + 2 °C	Pdh	4,5	kW	T j = +2 °C	COPd	2,97] -
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,07	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,15	
T j = bivalent temperature	Pdh	3,5	kW	T j = bivalent temperature	COPd	2,23	-
T j = operation limit temperature	Pdh	1,7	kW	T j = operation limit temperature	COPd	0,96	_
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,6	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,55	-
Bivalent temperature	T _{biv}	-8	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	0
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	55	۰
Power consumption in modes of	ther than activ	re mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,9	k١
Thermostat-off mode	P_{TO}	0,010	kW				
Standby mode	P SB	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	5625	kWh	flow rate, outdoor heat exchanger	-	na	m3
For heat pump combination hea	ater:	•					•
Declared load profile	L	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	52	9
Daily electricity consumption	Qelec	8,931	kWh	Daily fuel consumption	Qfuel	NA	kV
Annual electricity consumption	AEC	1965	kWh	Annual fuel consumption	AFC	NA	G
Specific precautions and end of life information:		end of the produ	ct's life cycle, it n	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	ler offering a ser	vice of that type	. t is of

Cold climate and Low temperature

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 250						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	120	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:		-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	Ur
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	116	9
Declared capacity for heating fo and outdoor temperature T j	or part load at i	ndoor tempera	ture 20°C	Declared coefficient of performa part load at indoor temperature	•		
T j = - 7 °C	Pdh	4,0	kW	T j = -7 °C	COPd	3,32] -
T j = + 2 °C	Pdh	4,9	kW	T j = +2 °C	COPd	4,05] .
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,38	
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,61	
T j = bivalent temperature	Pdh	3,6	kW	T j = bivalent temperature	COPd	2,64	
T j = operation limit temperature	Pdh	1,9	kW	T j = operation limit temperature	COPd	1,83]
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,9	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,53	-
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	۰
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	
Degradation co-efficient	Cdh	0,95	-	Heating water operating limit temperature	WTOL	55	
Power consumption in modes of	ther than activ	ve mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,3	k
Thermostat-off mode	P_{TO}	0,027	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4331	kWh	flow rate, outdoor heat exchanger	-	na	m3
For heat pump combination hea	ater:						
Declared load profile	L	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	52	9
Daily electricity consumption	Qelec	8,931	kWh	Daily fuel consumption	Qfuel	NA	k۷
Annual electricity consumption	AEC	1965	kWh	Annual fuel consumption	AFC	NA	G
Specific precautions and end of life information:		end of the produ	ct's life cycle, it r	at a recycling station or with the installation en nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	ler offering a ser	vice of that type	. t is of

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Warm climate and Medium	/arm climate and Medium temperature						
Model(s):		CTC EcoAir 406	+ CTC EcoZe	nith 550			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	137	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
Parameters shall be declared for parameters shall be declared for	•	• •	ion, except fo	or low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy	η _s	133	%

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	133	%
Declared capacity for heating for outdoor temperature T j	or part load at ii	ndoor temperatu	re 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] -
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	2,24	-
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,19	-
T j = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,56	-
T j = bivalent temperature	Pdh	4,5	kW	T j = bivalent temperature	COPd	2,50	-
T j = operation limit temperature	Pdh	4,3	kW	T j = operation limit temperature	COPd	2,31	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°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	55	°C
Power consumption in modes o	ther than activ	e mode	-	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,9	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							•
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2051	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	85	%
Daily electricity consumption	Qelec	8,943	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1967	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that th	's life cycle, it 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 en	offering a service	ce of that type. t	is of great

Enertech AB 341 26 Ljungby Warm climate and Low temperature



Model(s):	CTC EcoAir 4	CTC EcoAir 406 + CTC EcoZenith 550						
Air-to-water heat pump:	Yes	Energy efficiency class:		-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	179	%				
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,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	175	%
Declared capacity for heating foo outdoor temperature T j	or part load at i	ndoor temperatu	ire 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	4,7	kW	T j = +2 °C	COPd	3,32	-
T j = + 7 °C	Pdh	6,3	kW	T j = +7 °C	COPd	4,60	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,06	-
T j = bivalent temperature	Pdh	4,8	kW	T j = bivalent temperature	COPd	3,44	-
T j = operation limit temperature	Pdh	4,7	kW	T j = operation limit temperature	COPd	3,53	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°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	55	°C
Power consumption in modes of	ther than activ	e <u>mode</u>	_	Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,5	kW
Thermostat-off mode	P _{TO}	0,023	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/
Sound power level, indoors/outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1555	kWh	flow rate, outdoor heat exchanger	-	na	m3/
For heat pump combination hea	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	85	%
Daily electricity consumption	Qelec	8,943	kWh	Daily fuel consumption	Qfuel	NA	kWl
Annual electricity consumption	AEC	1967	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	'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 ed	offering a service	e of that type. t	is of grea

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 550					
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-		
Water-to-water heat pump:	No	Controller class:	VII	-		
Brine-to-water heat pump:	No	Controller contribution:	3,5	%		
Low-temperature heat pump:	No	Package efficiency:	116	%		
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+	-		
Heat pump combination heater:	Yes					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	112	%
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	3,5	kW	T j = - 7 °C	COPd	2,01] -
T j = + 2 °C	Pdh	4,7	kW	T j = +2 °C	COPd	3,01	-
T j = + 7 °C	Pdh	5,9	kW	T j = +7 °C	COPd	3,75] -
T j = + 12 °C	Pdh	7,2	kW	T j = +12 °C	COPd	4,69	-
T j = bivalent temperature	Pdh	3,8	kW	T j = bivalent temperature	COPd	2,35	-
T j = operation limit temperature	Pdh	2,9	kW	T j = operation limit temperature	COPd	1,66	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			.
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	2,0	kW
Thermostat-off mode	P _{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		-					
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3550	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	73	%
Daily electricity consumption	Qelec	10,407	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2289	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 enging 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 great

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Model(s):	CTC EcoAir 406 + CTC EcoZenith 550						
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	141	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+	-			
Heat pump combination heater:	Yes						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η _s	137	%
Declared capacity for heating fo outdoor temperature T j	or part load at i	ndoor temperatu	ire 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	3,9	kW	T j = - 7 °C	COPd	2,81] -
T j = + 2 °C	Pdh	4,8	kW	T j = +2 °C	COPd	3,53	_
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	4,86	
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,25	-
T j = bivalent temperature	Pdh	4,1	kW	T j = bivalent temperature	COPd	2,99	-
T j = operation limit temperature	Pdh	3,5	kW	T j = operation limit temperature	COPd	2,51	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	ther than activ	e mode	-	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,6	kW
Thermostat-off mode	P _{TO}	0,023	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items			•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/
Sound power level, indoors/outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2998	kWh	flow rate, outdoor heat exchanger	-	na	m3/
For heat pump combination hea	ater:		•			•	
Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	73	%
Daily electricity consumption	Qelec	10,407	kWh	Daily fuel consumption	Qfuel	NA	kWl
Annual electricity consumption	AEC	2289	kWh	Annual fuel consumption	AFC	NA	G1
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 enging 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

Cold climate and Medium temperature

Enertech AB 341 26 Ljungby



				, , ,
Model(s):	CTC EcoAir 406 + 0	CTC EcoZenith 550		
Air-to-water heat pump:	Yes	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	VII	-
Brine-to-water heat pump:	No	Controller contribution:	3,5	%
Low-temperature heat pump:	No	Package efficiency:	99	%
Equipped with a supplementary heater:	Yes	Package efficiency class:		-
Heat pump combination heater:	Yes			
Parameters shall be declared for medium-te	mperature application	, except for low-temperature heat pumps.	For low- tem	perature heat pump
parameters shall be declared for low-tempe	rature application.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_s	95	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ıre 20 °C and	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	3,6	kW	T j = - 7 °C	COPd	2,29	-
T j = + 2 °C	Pdh	4,5	kW	T j = +2 °C	COPd	2,97	-
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,07	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,15	-
T j = bivalent temperature	Pdh	3,5	kW	T j = bivalent temperature	COPd	2,23	-
T j = operation limit temperature	Pdh	1,7	kW	T j = operation limit temperature	COPd	0,96	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	2,589	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	1,554	-
Bivalent temperature	T _{biv}	-8	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	55	°C
Power consumption in modes of	other than active	e mode	_	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,9	kW
Thermostat-off mode	P_{TO}	0,006	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	5609	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	66	%
Daily electricity consumption	Qelec	11,646	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2562	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end			•	a recycling station or with the installation engine t be sent correctly to a waste station or reseller		-	

of life information:

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

Cold climate and Low temperature

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Model(s):	CTC EcoAir 4	CTC EcoAir 406 + CTC EcoZenith 550						
Air-to-water heat pump:	Yes	Energy efficiency class:		-				
Water-to-water heat pump:	No	Controller class:	VII	-				
Brine-to-water heat pump:	No	Controller contribution:	3,5	%				
Low-temperature heat pump:	No	Package efficiency:	120	%				
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,

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	116	%
Declared capacity for heating for outdoor temperature T j	or part load at i	ndoor temperatu	re 20 °C and	Declared coefficient of performal part load at indoor temperature 2	•		
T j = - 7 °C	Pdh	4,0	kW	T j = − 7 °C	COPd	2,97] -
T j = + 2 °C	Pdh	4,9	kW	T j = +2 °C	COPd	3,67	-
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,00	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,22	-
T j = bivalent temperature	Pdh	3,4	kW	T j = bivalent temperature	COPd	1,49	-
T j = operation limit temperature	Pdh	1,9	kW	T j = operation limit temperature	COPd	2,69	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,197	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	2,197	-
Bivalent temperature	T _{biv}	-11	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	55	°C
Power consumption in modes of	other than activ	e <u>mode</u>	-	Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	2,9	kW
Thermostat-off mode	P _{TO}	0,023	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3993	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	66	%
Daily electricity consumption	Qelec	11,646	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2562	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 serv	ice 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

Enertech AB



Warm climate and Mediur	m temperature				341 26 Ljur	igby	
Model(s):		CTC EcoAir 40	06 + CTC Basi	cstyrning			
Air-to-water heat pump:		Yes		Energy efficiency class:	-		
Water-to-water heat pump:		No		Controller class:	I	-	
Brine-to-water heat pump:		No		Controller contribution:	1	%	
Low-temperature heat pump	:	No		Package efficiency:	141	%	
Equipped with a supplementa	ary heater:	No		Package efficiency class:	-		
Heat pump combination heat	er:	No					
Parameters shall be declared parameters shall be declared				for low-temperature heat pumps. F	or low- tempe	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	140	%
Declared capacity for heating and outdoor temperature T j	for part load at i	ndoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperature	•		
Ti=-7°C	Pdh	na	l kW	Ti=-7°C	COPd	na	1 -

				efficiency			
Declared capacity for heating f and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performation part load at indoor temperature			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	1
T j = + 2 °C	Pdh	4,3	kW	T j = +2 °C	COPd	2,43	
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,39	
T j = + 12 °C	Pdh	7,5	kW	T j = +12 °C	COPd	4,80	
T j = bivalent temperature	Pdh	4,5	kW	T j = bivalent temperature	COPd	2,69	
T j = operation limit temperature	Pdh	4,3	kW	T j = operation limit temperature	COPd	2,50	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	
Bivalent temperature	T _{biv}	4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	
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	55	
Power consumption in modes	other than activ	e mode	_	Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,9	1
Thermostat-off mode	P_{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m

Other reems							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1947	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:					-	

Declared load profile	na		Water heating energy efficiency	η_{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.

°C

°C

kW

Enertech AB Warm climate and Low temperature 341 26 Ljungby



Model(s):	CTC EcoAir 406	TC EcoAir 406 + CTC Basicstyrning					
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	1	-			
Brine-to-water heat pump:	No	Controller contribution:	1	%			
Low-temperature heat pump:	No	Package efficiency:	189	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	188	%
Declared capacity for heating for and outdoor temperature T j	or part load at in	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	4,7	kW	T j = +2 °C	COPd	3,66] -
T j = + 7 °C	Pdh	6,3	kW	T j = +7 °C	COPd	4,96] -
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,45	
T j = bivalent temperature	Pdh	4,8	kW	T j = bivalent temperature	COPd	3,79	-
T j = operation limit temperature	Pdh	4,7	kW	T j = operation limit temperature	COPd	3,87	-
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than active	e mode	i	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	0,5	kW
Thermostat-off mode	P_{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1451	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:			1 Jenemaniger			I.
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 productimportance that t	ct's life cycle, it m he product's refr	at a recycling station or with the installation enginest be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not permitted.	ler offering a se	rvice of that type	e. t is of grea

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





Model(s):	CTC EcoAir 406 +	CTC EcoAir 406 + CTC Basicstyrning						
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-				
Water-to-water heat pump:	No	Controller class:	I	-				
Brine-to-water heat pump:	No	Controller contribution:	1	%				
Low-temperature heat pump:	No	Package efficiency:	116	%				
Equipped with a supplementary heater:	No	Package efficiency class:	A+	-				
Heat pump combination heater:	No							

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	115	%
Declared capacity for heating for and outdoor temperature T j	or part load at ir	door temperat	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	3,5	kW	T j = -7 °C	COPd	2,13] -
T j = + 2 °C	Pdh	4,4	kW	T j = +2 °C	COPd	2,93	-
T j = + 7 °C	Pdh	6,0	kW	T j = +7 °C	COPd	3,99	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	5,21	-
T j = bivalent temperature	Pdh	3,8	kW	T j = bivalent temperature	COPd	2,44	-
T j = operation limit temperature	Pdh	3,1	kW	T j = operation limit temperature	COPd	1,82	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°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	55	°C
Power consumption in modes of	other than active	mode	•	Supplementary heater			=
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,9	kW
Thermostat-off mode	P_{TO}	0,006	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3470	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	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 productimportance that t	ct's life cycle, it m the product's refr	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic	ler offering a se	ervice of that type	. t is of gre
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Enertech AB



Average climate and Low ten	nperature				341 26 Ljur	ngby	
Model(s):		CTC EcoAir 40	06 + CTC Basi	cstyrning			
Air-to-water heat pump:		Yes		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	I	-	
Brine-to-water heat pump:		No		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	152	%	
Equipped with a supplementary	heater:	No		Package efficiency class:	A++	-	
Heat pump combination heater:		No					
parameters shall be declared for parameters shall be declared for				for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	151	%
		1				<u> </u>	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	151	%
Declared capacity for heating f	or part load at ir	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
and outdoor temperature T j			-	part load at illuoor temperature	20 Cand ou	tuoor tempe	-
T j = -7 °C	Pdh	3,9	kW	T j = -7 °C	COPd	3,16	-
T j = + 2 °C	Pdh	4,8	kW	T j = +2 °C	COPd	3,92	-
Tj=+7°C	Pdh	6,4	kW	T j = +7 °C	COPd	5,25	-
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,66	-
T j = bivalent temperature	Pdh	4,1	kW	T j = bivalent temperature	COPd	3,35	-
T j = operation limit temperature	Pdh	3,5	kW	T j = operation limit temperature	COPd	2,85	-
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 _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than active	e mode	-	Supplementary heater			=
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,6	kW
Thermostat-off mode	P_{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2722	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:					_	
Declared load profile	na			Water heating energy efficiency	η_{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		end of the produ	ct's life cycle, it n	at a recycling station or with the installation en must be sent correctly to a waste station or resel	ller offering a se	rvice 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.

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Information for heat pump space heaters and heat pump combination heaters $% \left(1\right) =\left(1\right) \left(1\right)$

Cold climate and Medium temperature

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Model(s):	CTC EcoAir 406 + CTC Basicstyrning					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	1	-		
Brine-to-water heat pump:	No	Controller contribution:	1	%		
Low-temperature heat pump:	No	Package efficiency:	104	%		
Equipped with a supplementary heater:	No	Package efficiency class:		-		
Heat pump combination heater:	No					

Rated heat output (*) Declared capacity for heating for p and outdoor temperature T j T j = -7 °C T j = +2 °C T j = +7 °C T j = +12 °C T j = bivalent temperature	Pdh Pdh Pdh Pdh	3,6 4,5 6,1	kW cure 20 °C	Seasonal space heating energy efficiency Declared coefficient of performal part load at indoor temperature 2		103	%
and outdoor temperature T j T j = -7 °C T j = +2 °C T j = +7 °C T j = +12 °C	Pdh Pdh Pdh Pdh	3,6 4,5				ary energy rat	io for
T j = + 2 °C T j = + 7 °C T j = + 12 °C	Pdh Pdh Pdh	4,5	kW		20 Cand ou		
T j = + 7 °C T j = + 12 °C	Pdh Pdh			T j = -7 °C	COPd	2,49	-
T j = + 12 °C	Pdh	6.1	kW	T j = +2 °C	COPd	3,22] -
		-	kW	T j = +7 °C	COPd	4,34] -
T j = bivalent temperature		7,6	kW	T j = +12 °C	COPd	5,44	-
	Pdh	3,4	kW	T j = bivalent temperature	COPd	2,37	-
T j = operation limit temperature	Pdh	1,7	kW	T j = operation limit temperature	COPd	1,67	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,6	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,76	-
Bivalent temperature	T _{biv}	-9	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	55	°C
Power consumption in modes other	er than active	mode		Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,5	kW
Thermostat-off mode	P_{TO}	0,006	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4785	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination heater	r:			1 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 productimportance that t	t's life cycle, it n he product's refi	at a recycling station or with the installation eng nust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic	er offering a se	rvice of that type	. t is of gre

Cold climate and Low temperature

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Model(s):	CTC EcoAir 406 + CTC Basicstyrning					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	T.	-		
Brine-to-water heat pump:	No	Controller contribution:	1	%		
Low-temperature heat pump:	No	Package efficiency:	132	%		
Equipped with a supplementary heater:	No	Package efficiency class:		-		
Heat pump combination heater:	No					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for and outdoor temperature T j	or part load at ii	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	4,0	kW	T j = - 7 °C	COPd	3,34	-
T j = + 2 °C	Pdh	4,9	kW	T j = +2 °C	COPd	4,07	_
T j = + 7 °C	Pdh	6,4	kW	T j = +7 °C	COPd	5,40	_
T j = + 12 °C	Pdh	7,9	kW	T j = +12 °C	COPd	6,62	-
T j = bivalent temperature	Pdh	3,2	kW	T j = bivalent temperature	COPd	2,92	-
T j = operation limit temperature	Pdh	1,9	kW	T j = operation limit temperature	COPd	1,83	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	2,9	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,58	-
Bivalent temperature	T _{biv}	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than activ	e mode		Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	2,2	kW
Thermostat-off mode	P _{TO}	0,019	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	na/56	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3045	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:			1 Jenemaniger		·	
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 production importance that t	t's life cycle, it m he product's refi	at a recycling station or with the installation enginest be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic bold waste is not permitted.	ler offering a se	rvice of that type	t is of grea