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



Warm climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoPart 40	06 + 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	%	
Low-temperature heat pump:		No		Package efficiency:	132	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared for parameters shall be declared for	or medium-temp		tion, 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	6	kW	Seasonal space heating energy efficiency	η _s	128	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,2	kW	T j = +2 °C	COPd	2,91	- 1
Г ј = + 7 °С	Pdh	5,4	kW	T j = +7 °C	COPd	3,31	-
Г ј = + 12 °С	Pdh	5,7	kW	T j = +12 °C	COPd	4,02	- 1
Γ j = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	3,02	-
Γ j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: [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	na	°C
Cycling interval capacity for neating	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 _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
hermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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 _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2209	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
or 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 product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e not permitted.	r offering a servic	e of that type. t	is of great

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



Narm climate and Low terr	nperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoLo	gic			
Air-to-water heat pump:		No		Energy efficiency class:		-	
Nater-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:	179	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:		-	
leat pump combination heate	r:	No					
Parameters shall be declared for parameters shall be declared for a shall be			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	176	%
Declared capacity for heating f butdoor temperature T j	or part load at in	idoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,9	kW	T j = +2 °C	COPd	4,57	1 -
г ј = + 7 °С	Pdh	6,0	kW	T j = +7 °C	COPd	4,82] -
Г ј = + 12 °С	Pdh	6,1	kW	T j = +12 °C	COPd	5,12] -
j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,65] -
i j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = − 15 °C (if TOL < − 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	P ₇₀	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	CA	0,000	1		I		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1860	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/I
or 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:		end of the product	's life cycle, it mus e product's refrige	recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	r 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



Average climate and Mediu	in temperatur				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoLo	-			
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:	134	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:	A++	-	
Heat pump combination heate Parameters shall be declared fo parameters shall be declared fo	or medium-temp		tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	130	%
Declared capacity for heating for beating for the second sec	or part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
⊺ j = − 7 °C	Pdh	5,3	kW	T j = – 7 °C	COPd	3,10] -
Г ј = + 2 °С	Pdh	5,5	kW	T j = +2 °C	COPd	3,52] -
Г ј = + 7 °С	Pdh	5,6	kW	T j = +7 °C	COPd	3,91	-
Г ј = + 12 °С	Pdh	5,8	kW	T j = +12 °C	COPd	4,32	- 1
Г ј = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	3,16	-
Γ j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-6	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,1	kW
hermostat-off mode	Р _{то}	0,003	kW		,		
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW			-	
Other items	· LK	0,000			ļ		
<u>المعامة مع</u>							٦
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3743	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/l
or heat pump combination he	ater:						-
Declared load profile		na	1	Water heating energy efficiency	η_{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 mus e product's refrige	recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	r 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 Low temperature



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC EcoLo	gic			
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:	183	%	
Equipped with a supplementary	y heater:	No		Package efficiency class:	A+++	-	
Heat pump combination heater	r:	No					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	179	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,9	kW	T j = − 7 °C	COPd	4,67] -
T j = + 2 °C	Pdh	6,0	kW	T j = +2 °C	COPd	4,88] -
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	5,06	-
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	5,25	-
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-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 c	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	CK	0,000					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2967	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he		1	I				1
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 product	's life cycle, it mus e product's refrige	recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic on not permitted	er offering a servic	e of that type. t	is of great
				not permitted.			

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



Cold climate and Medium te	emperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + 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:	137	%	
Equipped with a supplementary	y heater:	No		Package efficiency class:		-	
Heat pump combination heater	r:	No					
				r low-temperature heat pumps. For	low-tempera	ture heat pu	imps,
parameters shall be declared fc Item	Symbol	ure application. Value	Unit	Item	Symbol	Value	Unit
				Seasonal space heating energy	Symbol		1
Rated heat output (*)	Prated	6	kW	efficiency	η _s	133	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	idoor temperatu	ure 20 °C and	Declared coefficient of performation part load at indoor temperature			
T j = – 7 °C	Pdh	5,4	kW	T j = − 7 °C	COPd	3,42] -
T j = + 2 °C	Pdh	5,6	kW	T j = +2 °C	COPd	3,82	- [
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	4,19	- 1
Г ј = + 12 °С	Pdh	5,9	kW	T j = +12 °C	COPd	4,46	-
T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	3,09] .
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-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 c	other than active	e mode	<u>.</u>	Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	- CA	-,	<u>,</u>	1	1		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
L Sound power level, indoors/ putdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4107	kWh	flow rate, outdoor heat	-	1,5	m3/h
For heat pump combination he		1	1	exchanger			1
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 product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engi at be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details (CTC AB, Näsväge	en 8, SE-341 34 L	jungby Tel +46	5 372 88000 www.ctc.se			231218

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



Model(s):Air-to-water heat pump:Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium-ter parameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdh T j = + 2 °CT j = + 2 °CPdh T j = + 12 °CT j = bivalent temperaturePdh T j = bivalent temperatureT j = operation limit temperaturePdhT j = -15 °C (if TOL < - 20 °C)PdhBivalent temperatureT bivCycling interval capacity for heatingP cychDegradation co-efficientCdhPower consumption in modes other than act Off modeP oFF	CTC EcoPart 40 No No Yes No No	06 + CTC EcoLo	gic Energy efficiency class: Controller class:			
Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium-ter parameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdh T j = + 2 °CT j = + 7 °CPdh T j = + 12 °CT j = operation limit temperaturePdhT j = operation limit temperaturePdhT j = - 15 °C (if TOL < - 20 °C)	No 					
Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium-ter parameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdhT j = -7 °CPdhT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limit temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Yes No		Controller class:			
Low-temperature heat pump:Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium-terparameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = operation limitPdhT j = operation limitPdhT j = -15 °C (if TOL < - 20 °C)	No			VII	-	
Equipped with a supplementary heater:Heat pump combination heater:Parameters shall be declared for medium-terparameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jPratedT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)PdhBivalent temperatureT bivCycling interval capacity for heatingP cychDegradation co-efficientCdh			Controller contribution:	3,5	%	
Heat pump combination heater:Parameters shall be declared for medium-terparameters shall be declared for low-temperItem SymbolRated heat output (*)PratedDeclared capacity for heating for part load atoutdoor temperature T jT $j = -7 °C$ PdhT $j = -7 °C$ PdhT $j = +2 °C$ PdhT $j = +7 °C$ PdhT $j = +12 °C$ PdhT $j = bivalent temperature$ PdhT $j = operation limit$ PdhtemperaturePdhFor air-to-water heat pumps:PdhT $j = -15 °C$ (if TOL $< -20 °C$)PdhBivalent temperatureTDegradation co-efficientCdhPower consumption in modes other than act	No		Package efficiency:	187	%	
Parameters shall be declared for medium-ter parameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = - 7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhT j = -15 °C (if TOL < - 20 °C)			Package efficiency class:		-	
parameters shall be declared for low-temperItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limitPdhT j = operation limitPdhT j = -15 °C (if TOL < - 20 °C)	No					
ItemSymbolRated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhT j = operation limit temperaturePdhStrain-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)		tion, except for	r low-temperature heat pumps. For	ow- tempera	ture heat pu	mps,
Rated heat output (*)PratedDeclared capacity for heating for part load at outdoor temperature T jTT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)						
Declared capacity for heating for part load at outdoor temperature T jT j = -7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Value	Unit	Item	Symbol	Value	Unit
outdoor temperature T jT j = - 7 °CPdhT j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	6	kW	Seasonal space heating energy efficiency	η _s	183	%
T j = + 2 °CPdhT j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	indoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = + 7 °CPdhT j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	6,0	kW	T j = − 7 °C	COPd	4,9] -
T j = + 12 °CPdhT j = bivalent temperaturePdhT j = operation limit temperaturePdhFor air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	6,1	kW	T j = +2 °C	COPd	5,07] -
T j = bivalent temperature Pdh T j = operation limit temperature Pdh For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	6,1	kW	T j = +7 °C	COPd	2,2	- [
T j = operation limit temperaturePdhFor air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	6,2	kW	T j = +12 °C	COPd	5,22	- 1
PantemperaturePanFor air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	5,9	kW	T j = bivalent temperature	COPd	4,67	-
T j = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Power consumption in modes other than act	na	kW	T j = operation limit temperature	COPd	na	-
Cycling interval capacity for neating P _{cych} Degradation co-efficient Cdh Power consumption in modes other than act	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Degradation co-efficient Cdh Power consumption in modes other than act	-20	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Power consumption in modes other than act	na	kW	Cycling interval efficiency	СОРсус	na] -
•	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Off mode Para	ive mode		Supplementary heater			
Ji mode i OFF	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode P TO	0,005	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	-	na	m3/h
Sound power level, indoors/	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption Q _{HE}	3332	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination heater:			lexenungen			
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 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 engin t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic e not permitted.	offering a service	e of that type. t	is of great

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



Warm climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe	nith i360/ EcoVent i360F			
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	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
Parameters shall be declared fo parameters shall be declared fo			tion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	imps,
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	128	%
Declared capacity for heating fo outdoor temperature T j	or part load at ii	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Γ j = − 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,2	kW	T j = +2 °C	COPd	2,91] -
Г ј = + 7 °С	Pdh	5,4	kW	T j = +7 °C	COPd	3,31	- [
Г ј = + 12 °С	Pdh	5,7	kW	T j = +12 °C	COPd	4,02	-
Γ j = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	3,02	-
Γ j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	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 of	other than activ	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
, Crankcase heater mode	Р _{СК}	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 _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2209	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/l
For heat pump combination he	ater:						
Declared load profile/		XL/A		Water heating energy	η_{wh}	104	%
Energy efficiency class		··· / ··		efficiency	· iwn	107	
Daily electricity consumption	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1614	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mus	a recycling station or with the installation engine t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details	CTC AR Näsväg	en 8, SE-341 34 L		372 88000 www.ctc.se			23121
Contact details	CICAD, NdSVdg	επ ο, σε-σ41 34 L	Juligby Tel +46	372 00000 WWW.clc.se			221210

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



Model(s): CT C EcoPart 406 + CT C EcoZenth 1360 / EcoVent 1360 / EcoVent 1360 / Act to water heat pump: No Energy efficiency class: VII - Brine to water heat pump: No Controller contribution: 3.5 % Low-samperature heat pump: No Package efficiency: 13.0 % Mater to-water heat pump: No Package efficiency: 13.0 % Mater to-water heat pump: No Package efficiency: 13.0 % Mater to-water heat pump: No Package efficiency: 13.0 % Mater to-water heat pump: No No Package efficiency: No No Mater to-water heat pump: No No No Package efficiency: No No Mater to-water heat pump: No No No No No No No No No No </th <th>Warm climate and Low tem</th> <th>perature</th> <th></th> <th></th> <th></th> <th>Ljungby</th> <th></th> <th></th>	Warm climate and Low tem	perature				Ljungby		
Water to water heat pump: No Controller class: VII - Brinnet-owater heat pump: Yes Controller contribution: 3,5 % Developmentary heat pump: No Package efficiency: 1.80 % Equipped with a supplementary heater: Yes Package efficiency: 1.80 % Parameters shall be declared for medium temperature application. Package efficiency: 1.80 % Parameters shall be declared for medium temperature application. Yes Package efficiency: 0.75 % Parameters shall be declared for medium temperature 20 'C and outdoor temperature 1 [Item Symbol Value Unit Rated heat output (*) Protect 6 kW Essonal space heating energy ng 1.76 % Declared capacity for heating for part load at indoor temperature 20 'C and outdoor temperature 0'C and outdoor temperature 0'C and outdoor temperature 0'T 1 = -7 °C Pdh 5.9 kW Tj = +2 °C COPd 4.57 - - 1 = +2 °C COPd 4.57 - - 1 = +2 °C COPd 4.65 - - Tj = +2 °C COPd 4.65 -	Model(s):		CTC EcoPart 40	06 + CTC EcoZe	enith i360/ EcoVent i360F			
Brine-to-water heat pump: Yes Controller contribution: 3,5 % Low-temperature heat pump: No Package efficiency: 180 % Equipode with a supplementary heat: Yes Package efficiency: 180 % Frainters thall be declared for numeremperature application, except for low-temperature heat pumps, parameters thall be declared for numeremperature application. - - Rated heat output (*) Protect 6 kW - - - Rated heat output (*) Protect 6 kW - <td>Air-to-water heat pump:</td> <td></td> <td>No</td> <td></td> <td>Energy efficiency class:</td> <td></td> <td>-</td> <td></td>	Air-to-water heat pump:		No		Energy efficiency class:		-	
Low-temperature heat pumps: No Package efficiency: 180 % Equipped with a supplementary heater: Yes Package efficiency (dss: - Package efficiency: 180 % Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, For low-temperature heat pumps, parameters shall be declared for medium-temperature application. tem Symbol Value Unit Rated heat output (*) Proted 6 kW Seasonal space heating energy ns 176 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j T = - 7 °C COPd na - T = - 7 °C Pdh 6.1 kW T = - 7 °C COPd 4.52 - T = - 7 °C Pdh 6.1 kW T = - 7 °C COPd 4.65 - T = - 7 °C Pdh 6.0 kW T = - 7 °C COPd 4.65 - T = - 7 °C Pdh 6.1 kW T = - 7 °C COPd 4.65 - T = - 7 °C Pdh 6.3 KW T = - 7 °C COPd 4.65 - <	Water-to-water heat pump:		No		Controller class:	VII	-	
Equipped with a supplementary heater: Yes Package efficiency class: . Hear pump combination heater: Yes Package efficiency class: . Symbol Value Unit team base of the second for low-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for investmemetary application. Item Symbol Value Unit team base of the second for low-temperature application. Item Symbol Value Unit team base of the second for low-temperature heat pumps. Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 J T = 7 °C COPd Asis T j = -7 °C Pdh 6,0 KW T j = -7 °C COPd Asis T T j = -7 °C Pdh 6,0 KW T j = -7 °C COPd Asis T T j = -7 °C Pdh 6,0 KW T j = -7 °C COPd Asis T T j = -1 °C °C Pdh na KW T j = -7 °C COPd Asis T T j = -1 °C (ff TOL < - 20 °C)	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Itest pumps combination heater:YesParameters shall be declared for low-temperature application.ItemSymbolValueUnitRated heat output (*) $Proted$ 6kWBeclared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 1 jItemSymbolValueT j = -7 *C Pdh na kWDeclared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 1 jItemSeasonal space heating energy n_s 176.T j = -7 *C Pdh na kWFile - 2°CCOPd na T j = -7 *C Pdh 6.1 kWT j = -7 *CCOPd 4.52 T j = -7 *C Pdh 6.1 kWT j = -7 *CCOPd 4.65 T j = -1 *C Pdh 6.1 kWT j = -1 *CCOPd 4.65 T j = -1 *C Pdh 6.1 kWT j = -1 *CCOPd 4.65 T j = operation limit Pdh na kWT j = -1 *CCOPd na T j = -1 *C (if TOL < -20 *C)	Low-temperature heat pump:		No		Package efficiency:	180	%	
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, For low-temperature heat pumps, parameters shall be declared for weltemperature application. temm Symbol Value Unit Rated heat output (1) Prated 6 kW Temperature Symbol Value Unit Temperature Symbol Value Value Value Value Value Tempe	Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
parameters shall be declared for low-temperature application. Item Symbol Value Unit Rate heat output (*) Protect 6 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j T] = -7 °C Pdh S,9 kW T] = +2 °C Pdh 6,0 kW T] = +2 °C Pdh 6,1 kW T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = -7 °C C Pdh 6,1 kW T] = -7 °C C COPd 4,57 T] = bivalent temperature C OPd 4,65 T] = operation limit temperature Pdh 5,9 kW T] = bivalent temperature COPd 4,65 T] = -15 °C (11 °C - 20 °C) COPd na - For alr-to-water heat pumps: T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - For alr-to-water heat pumps: T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - For alr-to-water heat pumps: T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - For alr-to-water heat pumps: T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C (11 °C - 20 °C) COPd na - T] = -15 °C	· ·							
temSymbolValueUnitItemSymbolValueUnitRated heat output (*)Protect6kWSeasonal space heating energy η_5 176%Declared capacity for heating for part load at indoor temperature 20 °C andSeasonal space heating energy η_5 176%Declared capacity for heating for part load at indoor temperature 20 °C andII = -7 °CPdh η_6 II = -7 °CCOPd η_6 -I = -7 °CPdh6.0kWII = -2 °CCOPd η_6 I = +1 2 °CPdh6.1kWII = -2 °CCOPd η_6 I = operation limitPdhnakWII = operation limitCOPd η_6 -I = operation limitPdhnakWII = operation limitCOPdna-For al-to-water heat pumps:PdhnakWII = operation limitCOPdna-For al-to-water heat pumps:PdhnakWFor al-to-water heat pumps:TOLna-Cycling interval capacity for heatingP _{opt} 0.018kWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0.98NaWTOL65°CCycling interval capacity for heatingP _{opt} 0.018kWNaNa-Na-Degradation co-efficientCdh0.98Na				tion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
Rated heat output (*) Protect 6 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 i 9 17.6 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 i 9 9 17.6 % T j = - 7 °C Pdh 6.0 kW 19 = -2 °C COPd 4.57 - <	·							
Named near output (1)ProtectbKWefficiencyfig1.167%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 7 jDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 7 j1 j = - 7 °CPdhnaKWT j = -7 °CC OPdna1 j = + 2 °CPdh6.1KWT j = -7 °CC OPd4.577 j = bivalent temperaturePdh6.1KWT j = -7 °CC OPd4.527 j = bivalent temperaturePdh6.1KWT j = -7 °CC OPd4.527 j = bivalent temperaturePdhnakWT j = -7 °CC OPd4.527 j = bivalent temperaturePdhnakWT j = -15 °C (fT OL < -20 °C)	Item	Symbol	value	Unit	1	Symbol	value	
outdoor temperature T jpart load at indoor temperature Z 0 °C and outdoor temperature T jT j = - 7 °CPdhnaT j = - 7 °CPdh6,0T j = + 7 °CPdh6,0T j = + 7 °CPdh6,1KWT j = + 7 °CCOPd1,8,2T j = + 7 °CPdh6,1L j = operation limitPdh5,9KWT j = + 7 °CCOPd4,82T j = operation limitPdh5,9kWT j = operation limitCOPd4,65L = - 15 °C (I TOL < - 20 °C)	Rated heat output (*)	Prated	6	kW		n _s	176	%
$T_{j} = + 2^{\circ}C \qquad Pdh \qquad 5.9 \\ T_{j} = + 7^{\circ}C \qquad Pdh \qquad 5.9 \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.57 \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.52 \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.52 \\ T_{j} = + 12^{\circ}C \qquad COPd \qquad 5.12 \\ T_{j} = + 12^{\circ}C \qquad COPd \qquad 5.12 \\ T_{j} = + 12^{\circ}C \qquad COPd \qquad 5.12 \\ T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = bivalent temperature \qquad COPd \qquad 4.65 \\ T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad Cycling interval end the at pumps: \\ T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad Cycling interval efficiency \qquad COPcyc \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Pdh \qquad na \qquad kW \qquad Cycling interval efficiency \qquad COPcyc \qquad na \\ Pore air-to-water heat pumps: \\ T_{j} = - 15^{\circ}C (If TOL < -20^{\circ}C) \\ Power consumption in modes other than active mode \\ Power consumption in modes other than active mode \\ Por \qquad 0.018 \qquad kW \\ Thermostat-off mode \qquad P_{arc} \qquad 0.018 \qquad kW \\ Type of energy input \qquad Electric \\ Cankcase heater mode \qquad P_{cx} \qquad 0.000 \qquad kW \\ Type of energy input \qquad Electric \\ Cankcase heater mode \qquad P_{cx} \qquad 0.000 \qquad kW \\ Tope of energy input \qquad Electric \\ Cankcase heater mode \\ Por air-to-water heat pumps: \\ Rated heat output or evater \\ flow rate, outdoors \\ Rated heat output \qquad Psup \qquad 0.5 \qquad kW \\ Type of energy input \qquad Electric \\ For air-to-water heat pumps: \\ Rated heat output \\ Psup \qquad 0.5 \qquad kW \\ Type of energy input \qquad 1.5 \qquad m3/h \\ For heat pump combination heater: \\ Declared load profile/ \\ L_{WA} \qquad 43/na \qquad dB \\ Rater heat output or evater \\ flow rate, outdoors \\ Rater alpha consumption \qquad Q_{HE} \qquad 1.5 \qquad m3/h \\ For heat pump combination heater: \\ Declared load profile/ \\ Supplementary has at correctly as wate station or reation functional enderstate information \\ For mater coutdoors hea$		or part load at ir	ndoor temperatu	ire 20 °C and				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	T j = – 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na] - [
T j = + 7 °CPdh6,0kWT j = + 2 °CCOPd4,82-T j = + 12 °CPdh6,1KWT j = +12 °CCOPd4,82-T j = bivalent temperaturePdh5,9KWT j = poration limitCOPd4,65-T j = operation limitPdhnakWT j = operation limitCOPdna-For air-to-water heat pumps:PdhnakWT j = -15 °C (if TOL < -20 °C)	-				-] -
Tj = bivalent temperaturePdh5,9kWTj = bivalent temperatureCOPd4,65-T j = operation limit temperaturePdhnakWTj = operation limit temperatureCOPdna-For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	•	Pdh		kW		COPd		- [
T j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdnaFor air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = + 12 °C	Pdh	6,1	kW	T j = +12 °C	COPd	5,12	-
temperaturepannakwtemperatureCDPana-For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,65	- 1
T j = -15 °C (if TOL < - 20 °C)PannaKWT j = -15 °C (if TOL < - 20 °C)CDPana-Bivalent temperatureT b_{W} 3°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CCycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,98Heating water operating limit temperatureWTOL65°CPower consumption in modes other than active mode0,018kWKWSupplementary heaterSupplementary heaterSupplementary heaterStandby modeP ss0,018kWType of energy inputElectricFor air-to-water heat pumps: Rated air flow rate, outdoors-nam3/hCapacity controlFixedFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-nam3/hSound power level, indoors/ outdoorsL wA43/nadBdBWater heating energy efficiencynam3/hPorters temp combination heater:Declared load profile/ Energy efficiency classXL / AWater heating energy efficiencynakWhDaily fuel consumptionQelec7,335kWhAnnual fuel consumptionAFCnaSpecific precautions and end of life information:AEC1614kWhAnnual fuel consumptionAFCnaDaily dectricity cassManual electricity to a waste fistion or with tendaliation engineer for correc		Pdh	na	kW		COPd	na	-
Bivalent temperature I biv 3 C Operation limit temperature I OL Ina C Cycling interval capacity for heating P cych na kW Cycling interval efficiency COPcyc na - Degradation co-efficient Cdh 0,98 - Heating water operating limit WTOL 65 *C Power consumption in modes other than active mode Off mode P orr 0,018 kW Supplementary heater Rated heat output P sup 0,5 kW The mostat-off mode P ro 0,000 kW Type of energy input Electric Electric Canacise heater mode P cx 0,000 kW Type of energy input Electric m3/h Capacity control Fixed For air-to-water heat pumps: - na m3/h Sound power level, indoors/ L w/A 43/na dB WMet heating energy numps: Rated brine or water flow rate, outdoors - na m3/h For heat pump combination heater: Declared load profile/ XL / A Water heating energy num 1,5 m3/h Daily		Pdh	na	kW		COPd	na	-
heating P_{cych} nakWCycling interval efficiency $COPcyc$ naDegradation co-efficient Cdh $0,98$ -Heating water operating limit $WTOL$ 65 "CPower consumption in modes other than active mode $Supplementary heater$ Supplementary heaterRated heat output $Psup$ $0,5$ kW Off mode P_{ore} $0,018$ kW Type of energy input $Electric$ Standby mode P_{3s} $0,018$ kW Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsna $m3/h$ Capacity control L_{WA} $43/na$ dB How rate, outdoors na $m3/h$ For air-to-water leat pump combination heater: $Mather heating energy$ n_{wh} 104 %Declared load profile/ Energy efficiency class XL / A Water heating energy efficiency na kWh Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: $Cycha must be deposited at a recycling station or with the instalation engineer for correct waste mangement. At themoduct's refigerant, compressor ail and electricity could be product in figerant.GJ$	Bivalent temperature	T _{biv}	3	°C		TOL	na	°C
Degradation co-efficient Cah 0,98 - temperature WIOL 65 *C Power consumption in modes other than active mode Off mode Power 0,018 kW Supplementary heater Rated heat output Psup 0,5 kW Thermostat-off mode P ro 0,005 kW Type of energy input Electric Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric na m3/h Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/h Sound power level, indoors/ L wA 43/na dB pumps: Rated brine or water flow rate, outdoors heat energy efficiency class na m3/h For heat pump combination heater: Declared load profile/ XL / A Water heating energy nwh 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption AFC na GJ Specific precautions and end of life information: file information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the produc		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode P orr 0,018 kW Rated heat output Psup 0,5 kW Thermostat-off mode P ro 0,005 kW Type of energy input Electric Standby mode P sa 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L WA 43/na dB for water-/brine-to-water heat pumps: Rated brine or water 	Degradation co-efficient	Cdh	0,98	-		WTOL	65	°C
Thermostat-off mode P TO 0,005 kW Standby mode P SB 0,018 kW Crankcase heater mode P CK 0,000 kW Other items	Power consumption in modes of	other than active	e mode		Supplementary heater			_
Standby mode P 58 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - na m3/h Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water - 1,5 m3/h Annual energy consumption Q HE 1860 kWh exchanger - 1,5 m3/h For heat pump combination heater: - - 1,5 m3/h Declared load profile/ XL / A Water heating energy nwh 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1614 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 man	Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water - 1,5 m3/h Annual energy consumption Q HE 1860 kWh Exchanger - 1,5 m3/h For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1614 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 refrigerant, compressor oil and electrical/electronic equipment are property disposed of. Disposin of the product as household waste is not permitted.	Thermostat-off mode	Р _{то}	0,005	kW				
Other items Capacity control Fixed Sound power level, indoors/ outdoors L WA Annual energy consumption Q HE 1860 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - na m3/h For heat pump combination heater: - 1,5 m3/h Declared load profile/ Energy efficiency class XL / A Water heating energy efficiency nu % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel 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 iffecycle, 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.	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 m3/h Annual energy consumption Q HE 1860 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 m3/h For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency nu % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na GJ Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na GJ 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 iffe 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 a household waste is not permitted.	Crankcase heater mode	Р _{СК}	0,000	kW				
Capacity control Fixed Rated air flow rate, outdoors - na m3/n Sound power level, indoors/ outdoors L 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 m3/n Annual energy consumption Q HE 1860 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 m3/n For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency na kWh Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1614 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.	Other items							
outdoors L wa 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 1860 kWh flow rate, outdoor heat - 1,5 m3/h For heat pump combination heater: Declared load profile/ - 1,5 m3/h Declared load profile/ XL / A Water heating energy nwh 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1614 kWh Annual fuel consumption AFC na GJ Specific precautions and 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 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 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 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 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 nervice in the product's nervice of that type. t is of great importance that the product's nervice. <td>Capacity control</td> <td></td> <td>Fixed</td> <td></td> <td></td> <td>-</td> <td>na</td> <td>m3/h</td>	Capacity control		Fixed			-	na	m3/h
Annual energy consumption Q HE 1860 kWh exchanger - 1,5 m3/h For heat pump combination heater: Declared load profile/ XL / A Water heating energy η_{wh} 104 % Declared load profile/ XL / A Water heating energy η_{wh} 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1614 kWh Annual fuel consumption AFC na GJ Specific precautions and 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.		L _{WA}	43/na	dB				
Declared load profile/ Energy efficiency class XL / A Water heating energy efficiency η_{wh} 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1614 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.	Annual energy consumption	Q _{HE}	1860	kWh		-	1,5	m3/h
Energy efficiency class XL / A efficiency I lwh 104 % Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1614 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.		ater:						
Energy efficiency class efficiency Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1614 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.	-		XL/A			η _{wh}	104	%
Annual electricity consumption AEC 1614 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.	Energy efficiency class		• -	1	efficiency			-
AEC1614KWhAnnual fuel consumptionAFCnaGJconsumptionGSpecific 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.	Daily electricity consumption	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWh
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.		AEC	1614	kWh	Annual fuel consumption	AFC	na	GJ
Contact details CTC AB, Näsvägen 8, SE-341 34 Liungby Tel +46 372 88000 www.ctc.se 231218			end of the product importance that th	's life cycle, it mus e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great
	Contact details	CTC AB, Näsväge	en 8, SE-341 34 Lj	jungby Tel +46	372 88000 www.ctc.se			231218

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



Average climate and Mediu	m temperatur	е			Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC EcoZe	enith i360/ EcoVent i360F			
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:	134	%	
Equipped with a supplementary	/ heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater		Yes					
			tion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	ımps,
parameters shall be declared fo	•						
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	130	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,3	kW	T j = − 7 °C	COPd	3,10	٦. F
Г ј = + 2 °С	Pdh	5,5	kW	T j = +2 °C	COPd	3,52	1 -
T j = + 7 °C	Pdh	5,6	kW	T j = +7 °C	COPd	3,91] -
T j = + 12 °C	Pdh	5,8	kW	T j = +12 °C	COPd	4,32	-
T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	3,16	- [
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than activ	e mode	-	Supplementary heater			3
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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 _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3743	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	ater:		•			· · · · · · · · · · · · · · · · · · ·	
Declared load profile/		XL/A		Water heating energy	η_{wh}	104	%
Energy efficiency class			1	efficiency	· IWI	-0.	
Daily electricity consumption	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1614	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	ce of that type. t	is of great
Contact details	CTC AB, Näsväg	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218
	•						

Information for heat pump space heaters and heat pump combination heaters

CTC AB



Model(s): Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary h Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for r Item Rated heat output (*) Declared capacity for heating for r outdoor temperature T j T j = -7 °C T j = $+2$ °C T j = $+7$ °C T j = $+12$ °C	medium-temp low-temperat Symbol Prated	No Yes No Yes Yes verature applicat ure application. Value 7		enith i360/ EcoVent i360F Energy efficiency class: Controller class: Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For Item Seasonal space heating energy	Symbol	- % % - ture heat pu Value	mps, Unit
Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary h Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for r Item Rated heat output (*) Declared capacity for heating for outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C	medium-temp low-temperati Symbol Prated part load at in Pdh	No Yes No Yes Yes verature applicat ure application. Value 7	Unit	Controller class: Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For Item Seasonal space heating energy	VII 3,5 183 A+++ r low- tempera Symbol	- % % - ture heat pu	•
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary h Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for r Item Rated heat output (*) Declared capacity for heating for r outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$	medium-temp low-temperati Symbol Prated part load at in Pdh	Yes No Yes Yes Derature applicat ure application. Value 7	Unit	Controller class: Controller contribution: Package efficiency: Package efficiency class: r low-temperature heat pumps. For Item Seasonal space heating energy	3,5 183 A+++ r low- tempera Symbol	% - ture heat pu	•
Low-temperature heat pump: Equipped with a supplementary h Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for I Item Rated heat output (*) Declared capacity for heating for y outdoor temperature T j T j = -7 °C T j = + 2 °C T j = + 7 °C	medium-temp low-temperati Symbol Prated part load at in Pdh	No Yes Yes perature applicat ure application. Value 7	Unit	Package efficiency: Package efficiency class: r low-temperature heat pumps. For Item Seasonal space heating energy	183 A+++ r low- tempera Symbol	% - ture heat pu	•
Equipped with a supplementary h Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for I Item Rated heat output (*) Declared capacity for heating for r outdoor temperature T j T $j = -7 \degree$ C T $j = +2 \degree$ C T $j = +7 \degree$ C	medium-temp low-temperati Symbol Prated part load at in Pdh	Yes Yes terature applicat ure application. Value 7	Unit	Package efficiency class: r low-temperature heat pumps. For Item Seasonal space heating energy	A+++ r low- tempera Symbol	- ture heat pu	•
Heat pump combination heater: Parameters shall be declared for r parameters shall be declared for I Item Rated heat output (*) Declared capacity for heating for r outdoor temperature T j T $j = -7 °C$ T $j = +2 °C$ T $j = +7 °C$	medium-temp low-temperati Symbol Prated part load at in Pdh	Yes perature applicat ure application. Value 7	Unit	r low-temperature heat pumps. For Item Seasonal space heating energy	r low- tempera Symbol		•
Parameters shall be declared for r parameters shall be declared for r ltem Rated heat output (*) Declared capacity for heating for r outdoor temperature T j T $j = -7 °C$ T $j = + 2 °C$ T $j = + 7 °C$	low-temperati Symbol Prated part load at in Pdh	verature applicat ure application. Value 7	Unit	Item Seasonal space heating energy	Symbol		•
parameters shall be declared for I Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T $j = -7 °C$ T $j = +2 °C$ T $j = +7 °C$	low-temperati Symbol Prated part load at in Pdh	Value	Unit	Item Seasonal space heating energy	Symbol		•
Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C	Symbol Prated part load at in Pdh	Value 7		Seasonal space heating energy	-	Value	Unit
Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = – 7 °C T j = + 2 °C T j = + 7 °C	Prated part load at in Pdh	7		Seasonal space heating energy	-	Value	Unit
Declared capacity for heating for p outdoor temperature T j T j = – 7 °C T j = + 2 °C T j = + 7 °C	part load at in Pdh		kW				<u> </u>
outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C	Pdh	idoor temperatu		efficiency	η _s	179	%
T j = + 2 °C T j = + 7 °C			re 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = + 2 °C T j = + 7 °C	Pdh	5,9	kW	T j = – 7 °C	COPd	4,67] -
		6,0	kW	T j = +2 °C	COPd	4,88] -
T j = + 12 °C	Pdh	6,1	kW	T j = +7 °C	COPd	5,06	-
	Pdh	6,2	kW	T j = +12 °C	COPd	5,25	-
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,67	-
Γ j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: Γ 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}	-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 oth	er than active	e mode	1	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2967	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
or heat pump combination heat	er:						
Declared load profile/		XL/A		Water heating energy	η_{wh}	104	%
Energy efficiency class	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity							-
consumption	AEC	1614 The packaging must	kWh	Annual fuel consumption a recycling station or with the installation eng	AFC	na raste managemer	GJ nt. At the
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great
Contact details CT		en 8, SE-341 34 Lj					

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



Rated heat output (*)Proted6kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j n_S 1.33T j = -7 °CPdh5,4kWT j = -7 °CPdh5,6kWT j = + 7 °CPdh5,6kWT j = + 7 °CPdh5,7kWT j = + 12 °CPdh5,3kWT j = baylent temperaturePdh5,3kWT j = baylent temperaturePdhnakWT j = baylent temperaturePdhnaFor air-to-water heat pumps: T j = -15 °C (f TOL < -20 °C)PdhnaFor air-to-water heat pumps: T j = -15 °C (f TOL < -20 °C)PdhnaBivalent temperatureT bw-18°COperation limit temperatureP cychnaBivalent temperatureT bw-18°COff modeP cychnaCycling interval capacity for heatingP cychnaNomodeP cychnaCapacity controlFixedStandby modeP cyc0,003KWCrances heater modeP cycOther itemsCapacity controlFixedCapacity controlFixedFixedCapacity controlFixedFixedCapacity controlFixedNaCapacity controlFixedNaCapacity controlFixedNaCapacity controlCapacity consumptionQelecCapacity controlCondor fof	Cold climate and Medium t	emperature				Ljungby		
Water to-water heat pump: No Controller contribution: 3.5 % Brine to water heat pump: No Package efficiency: 137 % Equipped with a supplementary heater: Yes Package efficiency: 137 % Equipped with a supplementary heater: Yes Package efficiency: 137 % Frametics shall be declared for medium-temperature application, except for low temperature heat pumps. For low temperature heat pumps parameters shall be declared for medium-temperature application. tem Symbol Value Value Value Value tem Symbol Value Value Time to symbol Value	Model(s):		CTC EcoPart 40	06 + CTC EcoZe	enith i360/ EcoVent i360F			
Brine-to-water heat pump: Yes Controller contribution: 3,5 % Low-temperature heat pump: No Package efficiency: 137 % Equipped with a supplementary heater: Yes Package efficiency: 137 % Heat pump combination heater: Yes Package efficiency: 137 % Parameters shall be declared for iow-temperature application. Team of the shall be declared for iow-temperature application. Team of the shall be declared for iow-temperature application. Team of the shall be declared for iow-temperature application. Team of the shall be declared for iow-temperature application. Team of the shall be declared for iow-temperature 20 °C and outdoor temperature 10°C and outdoor temperature 10°C and outdoor temperature 10°C and outdoor temperature 20 °C and outdoor temperature 10°C and outdoor temperature 20 °C and outdoor temperatur	Air-to-water heat pump:		No		Energy efficiency class:		-	
Low-temperature heat pump: No Package efficiency: 137 % Equipped with a supplementary heater: Yes Package efficiency class: - - Parameters shall be declared for medium-temperature application. except for low-temperature heat pumps parameters shall be declared for new-temperature application. item Symbol Value Unit tem Symbol Value Unit Rated heat output (*) Protect 6 KW Seasonal space heating energy η_s 133 Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j item Symbol Value Item Symbol Value Item at load at indoor temperature 0.0°C and outdoor temperature T j = - 7 °C Pdh 5,6 kW KW T j = 7 °C COPd 3,42 T j = + 2 °C Pdh 5,3 kW T j = 2 °C COPd 4,46 T j = -15 °C (if TOL < -20 °C)	Water-to-water heat pump:		No		Controller class:	VII	-	
Equipped with a supplementary heater: Yes Package efficiency class: - Heat pump combination heater: Yes Package efficiency class: - Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps. For low-temperature heat pumps. For low-temperature heat pumps. Rated heat output (*) Parted 6 kW Beckared topacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 = -7 °C Pdh 5,6 T] = -7 °C Pdh 5,6 kW T] = -7 °C COP4 3,82 T] = -7 °C Pdh 5,7 kW T] = -7 °C COP4 3,42 T] = -7 °C Pdh 5,7 kW T] = -7 °C COP4 3,42 T] = operation limit part heat spupps: T] = -7 °C COP4 3,69 T] = operation limit Pdh na kW T = -15 °C (If TOL < -20 °C)	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
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. teem Symbol Value Unit teem Symbol Value Value Note: Symbol Value Unit teem Symbol Value Declared coapacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 J T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C Pdh 5,7 KW T = - 7°C C PdH 5,7 KW T = - 7°C C PdH 5,7 KW T = - 7°C C PdH <	Low-temperature heat pump:		No		Package efficiency:	137	%	
Parameters shall be declared for low-temperature application. Second space heating energy end to be enderged for low-temperature application. Item Symbol Value Item Symbol Value Item Rated heat output (*) Prated 6 kW Item Symbol Value Item Beaded heat output (*) Prated 6 kW Item Symbol Value Item Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and 0.0100 remembers 20 °C and 0.01	Equipped with a supplementar	ry heater:	Yes		Package efficiency class:		-	
parameters shall be declared for low-temperature application. Item Symbol Value Unit Item Symbol Value								
temSymbolValueUnitItemSymbolValueItemRated heat output (*)Proted6kWRated heat output (*)Proted6kWGarded capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j133Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and 0 s,92T j = -7 °CPdh5,6T j = operation limitPdh5,3T j = operation limitPdhnatemperaturePdhnaFor air-to-water heat pumps:PdhnaT j = -15 °C (if TOL < -20 °C)				tion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
Rated heat output (*)Prated6KWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jSeasonal space heating energy efficiency η_5 1.33T j = -7 °CPdh5,4KWVPrat load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature T j = + 2 °CPdh5,4KWT j = -7 °CPdh5,7KWT j = -7 °CCOPd3,42T j = + 12 °CPdh5,3KWT j = + 2 °CCOPd4,46T j = operation limitPdhnaKWT j = bivalent temperatureCOPd3,09T j = operation limitPdhnaKWT j = operation limitCOPdnaFor air-to-water heat pumps:PdhnaKWT j = -15 °C (IT OL < -20 °C)	·	-		Unit	ltom	Symbol	Value	Unit
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jPericency3T j = - 7 °CPdh5,4kWT j = - 7 °CPdh5,6kWT j = - 7 °CPdh5,6kWT j = - 7 °CPdh5,6kWT j = + 12 °CPdh5,7kWT j = + 12 °CPdh5,3kWT j = bivalent temperaturePdh5,3kWT j = bivalent temperaturePdhnakWT j = oparation limitPdhnakWT j = oparation limitPdhnakWT j = -15 °C (ff TOL < -20 °C)					Seasonal space heating energy			%
outdoor temperature T jT j = -7 °CPdh5,4T j = -7 °CPdh5,4T j = + 2 °CPdh5,6NWT j = + 2 °CCOPd3,42T j = + 12 °CPdh5,9KWT j = + 12 °CCOPd4,46T j = + 12 °CPdh5,3KWT j = + 12 °CCOPd4,46T j = + 12 °CPdh5,3KWT j = - 15 °C (If TOL < - 20 °C)					efficiency	٠ıç		
$T_{j} = + 2 \ C \\ T_{j} = + 7 \ C \\ Pdh \\ T_{j} = + 7 \ C \\ Pdh \\ T_{j} = + 7 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = + 2 \ C \\ Pdh \\ T_{j} = - 1 \ C \\ Pdh \\ T_{j} = - 1 \ D \ D \ D \ D \ D \ D \ D \ D \ D \$		or part load at ir	ndoor temperatu	ire 20 °C and				
$T_{j} = + 2^{\circ}C \qquad pdh \qquad 5.6 \qquad kW \\ T_{j} = + 7^{\circ}C \qquad pdh \qquad 5.7 \qquad kW \\ T_{j} = + 2^{\circ}C \qquad COPd \qquad 3.82 \\ 4.19 \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.46 \\ 5.7 \qquad kW \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.46 \\ 7_{j} = + 7^{\circ}C \qquad COPd \qquad 4.46 \\ T_{j} = + 7^{\circ}C \qquad COPd \qquad 4.46 \\ T_{j} = - 15^{\circ}C \qquad COPd \qquad 4.46 \\ T_{j} = - 15^{\circ}C \qquad COPd \qquad 1 \\ na \\ kW \\ T_{j} = - 15^{\circ}C \qquad COPd \qquad na \\ T_{j} = - 15^{\circ}C $	T i = – 7 °C	Pdh	5.4	kW	T i = − 7 °C	COPd	3.42	1 -
T j = + 12 °CPdh5,9kWT j = +12 °CCOPd4,46T j = bivalent temperaturePdh5,3kWT j = bivalent temperatureCOPd3,09T j = operation limitPdhnakWT j = operation limitCOPdnaFor air-to-water heat pumps:PdhnakWT j = -15 °C (if TOL < -20 °C)] -
Tj = bivalent temperaturePdh5,3kWTj = bivalent temperatureCOPd3,09Tj = operation limit temperaturePdhnakWTj = operation limit temperatureCOPdnaFor air-to-water heat pumps: TpdhnakWFor air-to-water heat pumps: TCOPdnaFor air-to-water heat pumps: TpdhnakWFor air-to-water heat pumps: TCOPdnaBivalent temperatureTbiv-18°CCycling interval efficiencyCOPcvnaCycling interval capacity for heatingPcychnakWCycling interval efficiencyCOPcvnaDegradation co-efficientCdh0,99-Heating water operating limit temperatureWTOL65Supplementary heaterRower consumption in modes other than active modeNo18 MKWSupplementary heaterRated heat outputPsup0,7//Sound power level, indoors/ outdoorsLMA43/nadBHow rate, outdoors-narrFor heat pump combination heater:Eclared bine or water flow rate, outdoor heat exchanger-1,5rrDeclared load profile/ Energy efficiency classXL / AWater heating energy efficiencynakWDaily electricity consumptionQelec7,335kWhAnnual fuel consumptionQfuelnaDaily electricity consumptionAEC1614kWhAnnual fuel cons	T j = + 7 °C	Pdh		kW	T j = +7 °C	COPd	4,19	-
T j = operation limit temperature Pdh na kW T j = operation limit temperature COPd na For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = + 12 °C	Pdh	5,9	kW	T j = +12 °C	COPd	4,46	-
temperaturePdnnaKWtemperatureCOPanaFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	3,09	-
T j = - 15 *C (if TOL < - 20 *C)PannakWT j = - 15 *C (if TOL < - 20 *C) $CDPa$ naBivalent temperatureT biv-18*CFor air-to-water heat pumps: Operation limit temperatureTOLnaEqual to temperatureC cycling interval capacity for heatingP cychnakWCycling interval efficiency $COPcyc$ naDegradation co-efficientCdh0,99-Heating water operating limit temperature $WTOL$ 65Power consumption in modes other than active modeSupplementary heaterRated heat output $Psup$ $0,7$ T Off modeP orr0,018kWType of energy inputElectric $Electric$ Other itemsFor air-to-water heat pumps: capacity control L_{WA} $43/na$ dB dB Capacity controlFixedFor air-to-water heat pumps: numps: Rated air flow rate, outdoors na na Capacity controlFixed $Cr water-frame or waterflow rate, outdoorsnanaCapacity controlFixedKWhRated air flow rate, outdoorsnaDelared load profile/Energy efficiency classXL / AWater heating energyefficiencynaDelared load profile/Energy efficiencyAEC1614kWhAnnual fuel consumptionAFCnaAnnual electricityconsumptionAEC1614kWhAnnual fuel consumptionAFCnaThe packaging must be deposited at a recycling station or with the installation eng$		Pdh	na	kW		COPd	na] -
Bivalent temperature I_{biv} -18 C Operation limit temperature IOL Ina Cycling interval capacity for heating P_{cych} Ina KW Operation limit temperature IOL Ina Degradation co-efficient Cdh $0,99$ - Heating water operating limit $WTOL$ 65 Power consumption in modes other than active mode Off mode P_{orr} $0,018$ kW Heating water operating limit $WTOL$ 65 Supplementary heater Supplementary heater Rated heat output $Psup$ $0,7$ I Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Other items Capacity control $Fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors - Ina rr Sound power level, indoors/ L_{WA} $43/na$ dB Annual energy consumption Q_{HE} 4107 kWh $For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger I_{Wh} 104Declared load profile/XL/A Wh Annual fuel consumption Q_{fuel} Ina KWAnnual electricity consumption Q_{elec} 7,335 kWh Annual fuel consumption AFC InaAnnual fuel consumption AFC Ina The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At end of the product's life cycle, it must be sent corrective to a waste station or receiler offering a service of that type t is of g$		Pdh	na	kW		COPd	na	-
heating P_{cych} nakWCycling interval efficiencyCOPcycnaDegradation co-efficientCdh0,99-Heating water operating limit temperatureWTOL65Power consumption in modes other than active modeSupplementary heaterSupplementary heaterSupplementary heaterRated heat outputPsup0,71Thermostat-off mode P_{orF} 0,018kWKWType of energy inputElectricElectricStandby mode P_{ss} 0,018kWType of energy inputElectricFixedFor air-to-water heat pumps: nate, outdoorsnanaCapacity controlFixedFixedFor air-to-water heat pumps: numps: Rated brino ro water flow rate, outdoorsnananrAnnual energy consumption Q_{HE} XL / AWater heating energy erchanger η_{wh} 104Dealared load profile/ Energy efficiency classXL / AWater heating energy efficiency η_{wh} 104Daily electricity consumptionQelec7,335kWhDaily fuel consumptionQfuelnakAnnual electricity consumptionAEC1614kWhAnnual fuel consumptionAFCnaThe packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At seclific precautions and endThe packaging must be deposited at a recycling station or with the installation engineer for correct duates management. At end of the product's life cycle, it must be sent correctly to a waste station or reeller offer	Bivalent temperature	T _{biv}	-18	°C		TOL	na	°C
Degradation co-efficient Cah 0,99 - temperature WIOL 65 Power consumption in modes other than active mode Off mode Porr 0,018 kW Supplementary heater Rated heat output Psup 0,7 If Thermostat-off mode Porr 0,003 kW Type of energy input Electric Electric Crankcase heater mode Por 0,000 kW Type of energy input Electric If For air-to-water heat pumps: na nr Capacity control Fixed For air-to-water heat pumps: na na nr Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: na nr Annual energy consumption Q HE 4107 kWh For water, outdoors 1,5 nr For heat pump combination heater: Declared load profile/ XL / A Water heating energy nwh 104 Daily electricity consumption Qelec 7,335 kWh Annual fuel consumption Qfuel na k Annual electricity consumption AEC 1614		P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode P_{OFF} $0,018$ kW Rated heat output $Psup$ $0,7$ I Thermostat-off mode P_{TO} $0,003$ kW W Type of energy input $Electric$ Standby mode P_{SB} $0,018$ kW Type of energy input $Electric$ Crankcase heater mode P_{CK} $0,000$ kW Type of energy input $Electric$ Other items $Fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors na na Capacity control $Fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors na na Sound power level, indoors/ outdoors L_{WA} $43/na$ dB B $Por water-/brine-to-water heatpumps: Rated brine or waterflow rate, outdoor heatexchanger1,5nrFor heat pump combination heater:Declared load profile/XL / AWater heating energyefficiencyn_{wh}104Daily electricity consumptionconsumptionQelec7,335kWhDaily fuel consumptionAFCnaDaily electricityconsumptionAEC1614kWhAnnual fuel consumptionAFCnaThe packaging must be deposited at a recycling station or with the installation engineer for correct waste management. Atend 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of product's life cycle, it must be sent correctly to a waste station or $	Degradation co-efficient	Cdh	0,99	-		WTOL	65	°C
Thermostat-off mode P_{TO} $0,003$ kW Standby mode P_{SB} $0,018$ kW Standby mode P_{CK} $0,000$ kW Crankcase heater mode P_{CK} $0,000$ kW Other items $Fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors na n'' Capacity control $Fixed$ For water-/brine-to-water heat pumps: Rated air flow rate, outdoors na n'' Sound power level, indoors/ outdoors L_{WA} $43/na$ dB $For water-/brine-to-water heatpumps: Rated brine or water 1,5 n'' For heat pump combination heater: Declared load profile/ L_{WA} 4107 kWh Water heating energy fliciency n_{wh} 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k'' Annual electricity AEC 1614 kWh Annual fuel consumption AFC na k'' The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At end of the product's life cycle, it must be sent correctly$	•	other than active	e mode	-	Supplementary heater			-
Standby mode P 58 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na rr Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na rr Sound power level, indoors/ outdoors L wA 43/na dB for water-/brine-to-water heat pumps: Rated brine or water - 1,5 rr For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency nwh 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity AEC 1614 kWh Annual fuel consumption AFC na k The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,7	kW
Crankcase heater mode P or 0,000 kW Other items Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na rr Sound power level, indoors/ outdoors L wa 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 rr For heat pump combination heater: Declared load profile/ XL / A Water heating energy nwh 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Thermostat-off mode	Р _{то}	0,003	kW				
Other items Capacity control Fixed Sound power level, indoors/ L WA 43/na dB outdoors Annual energy consumption Annual energy consumption Q HE 4107 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors heat exchanger - Declared load profile/ XL / A Declared load profile/ XL / A Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel Annual electricity AEC 1614 kWh Annual fuel consumption AFC The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 generation or with the installation engineer for correct waste management. At 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 generating 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 generating 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 generating the product's life cycle, it must be sent correctly to a was	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na ma Sound power level, indoors/ outdoors L _{WA} 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - 1,5 m For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency class 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Crankcase heater mode	Р _{СК}	0,000	kW				
Capacity control Fixed Rated air flow rate, outdoors - na ma Sound power level, indoors/ outdoors L wa 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1,5 ma Annual energy consumption Q HE 4107 kWh Bated air flow rate, outdoors - 1,5 ma For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency nwh 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 generations and end	Other items							-
outdoors L WA 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 4107 kWh flow rate, outdoor heat - 1,5 nr For heat pump combination heater: Declared load profile/ XL / A Water heating energy nwh 104 Declared load profile/ Energy efficiency class XL / A Water heating energy nwh 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity AEC 1614 kWh Annual fuel consumption AFC na k	Capacity control		Fixed			-	na	m3/h
Annual energy consumption Q HE 4107 KWn exchanger - 1,5 m For heat pump combination heater: Declared load profile/ XL / A Water heating energy η_{wh} 104 Declared load profile/ XL / A Water heating energy η_{wh} 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity AEC 1614 kWh Annual fuel consumption AFC na k Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g		L _{WA}	43/na	dB	pumps: Rated brine or water			
For heat pump combination heater: Declared load profile/ XL / A Water heating energy efficiency η_{wh} 104 Energy efficiency class XL / A Paily efficiency η_{wh} 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Annual energy consumption	Q _{HE}	4107	kWh		-	1,5	m3/h
Declared load profile/ Energy efficiency class XL / A Water heating energy efficiency nwh 104 Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k Specific precautions and end The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	For heat pump combination he	eater:					8	1
Energy efficiency class efficiency Daily electricity consumption Qelec 7,335 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na k The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Declared load profile/		XI / A		Water heating energy	n	104	%
Annual electricity consumption AEC 1614 kWh Annual fuel consumption AFC na The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 g	Energy efficiency class		<u> </u>	r	efficiency	' Iwh	104	/0
AEC 1614 KWn Annual fuel consumption AFC na Consumption The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 generative constructions and end	Daily electricity consumption	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWh
Specific precautions and end end 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 g		AEC						GJ
of life information: importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Distort the product as household waste is not permitted.			end of the product importance that th	's life cycle, it mus e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	ce of that type. t	is of great
Contact detailsCTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000www.ctc.se231	Contact details	CTC AB, Näsväge	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218

Information for heat pump space heaters and heat pump combination heaters

CTC AB



Cold climate and Low temp	erature				Ljungby		
Model(s):		CTC EcoPart 40	6 + CTC EcoZe	nith i360/ EcoVent i360F			
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:	187	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	183	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
ī j = − 7 °C	Pdh	6,0	kW	T j = − 7 °C	COPd	4,9] -
Г ј = + 2 °С	Pdh	6,1	kW	T j = +2 °C	COPd	5,07	- [
Г ј = + 7 °С	Pdh	6,1	kW	T j = +7 °C	COPd	2,2	- 1
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	5,22	-
i = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,67	-
「j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: Γ 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}	-20	°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 of	other than active	e mode	-	Supplementary heater		-	7
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
L Sound power level, indoors/ putdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3332	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
or heat pump combination he	ater:						
Declared load profile/		XL/A		Water heating energy	η_{wh}	104	%
Energy efficiency class		•	1	efficiency			
Daily electricity consumption	Qelec	7,335	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1614	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 to sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	s of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34 Lj	ungby Tel +46	372 88000 www.ctc.se			23121

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



Air-to-water heat pump: No Energy efficiency class: Water-to-water heat pump: No Controller class: VII Water-to-water heat pump: No Controller class: VII Brine-to-water heat pump: No Package efficiency: 12.3 % Equipped with a supplementary heater: Yes Package efficiency: 12.3 % Equipped with a supplementary heater: Yes Package efficiency: 12.3 % Parameters shall be declared for inwelum-temperature application. enterperature for particular to particular toparticular to particular to particular to partin to p	Warm climate and Medium	temperature				Ljungby			
Water to water heat pump: No Controller cansulation VII - Brine-to-water heat pump: Yes Controller cansulation 3,5 % Could cansulation partice No Package efficiency: 1,2 % Equipped with a supplementary heater: Yes Package efficiency: 1,2 % Parameters shall be declared for medium-temperature application. Package efficiency: 1,2 % Parameters shall be declared for medium-temperature application. Item Symbol Value Unit Rated heat output (*) Protect 6 K/W Seasonal space heating energy ns 119 % Declared capacity for heating for part load at indoor temperature 20 °C and Utido at indoor temperature 7 i 1 = -7 °C C C COMd $2,72$ - T = -7 °C Pdh 5,7 K/W T = -7 °C C C COMd $3,11$ - T = -15 °C (f TOL < -20 °C)	Model(s):		CTC EcoPart 4	06 + CTC EcoZe	nith i255				
Brine-to-water heat pump: Ves Controller controllution: 3,5 %: Low-temperature heat pump: No Package efficiency: 123 %: Low-temperature heat pump: No Package efficiency: 123 %: Main point of the heat pump: Ves Package efficiency class: - Heat pump combination heater: Yes Package efficiency class: - Parametters shall be declared for moutememerature application, except for low-temperature heat pumps. Symbol Value Unit Rated heat output (1) Proted 6 KW Seasonal space heating energy n.g 11.9 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 I I = - 7 °C COPd $\frac{7}{2,72}$ T = - 7 °C Pah 5,2 KW KW T = - 7 °C COPd $\frac{7}{2,72}$ T = part col actin limit Pah 5,2 KW T = - 15 °C (fT TOL < - 20 °C)	Air-to-water heat pump:		No		Energy efficiency class:		-		
Low-temperature heat pump: No Package efficiency: 123 % Equipped with a supplementary heater: Yes Package efficiency class: - Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. Package efficiency class: - Parameters shall be declared for medium-temperature application, rem Symbol Value Unit Rated heat output (*) Package officiency ns 119 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 i 119 % T = - 7 °C Path 5,2 KW T = - 2 °C COPd 3,76 - T = + 2 °C Path 5,2 KW T = - 2 °C COPd 3,76 - T = + 2 °C Path 5,3 KW T = - 2 °C COPd 3,76 - T = + 12 °C Path 5,3 KW T = -12 °C COPd 3,76 - T = + 12 °C C (IT C < - 20 °C)	Water-to-water heat pump:		No		Controller class:	VII	-		
Equipped with a supplementary heater: Yes Package efficiency class: - teat pump combination heater: Yes Package efficiency class: - teat pump combination heater: Yes Package efficiency class: - teat pump combination heater: Yes Package efficiency class: - Test pumps provide the provided in temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for neutron-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for neutron-temperature application, except for low-temperature heat pumps, parameters shall be declared for neutron-temperature application, except for low-temperature heat pumps, parameters shall be declared for neutron-temperature application, except for low-temperature heat pumps, parameters shall be declared for neutron-temperature application, except for low-temperature for low-temperature for low-temperature for low-temperature for low temperature for low tempe	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%		
Yet <th colspan<="" td=""><td>Low-temperature heat pump:</td><td></td><td>No</td><td></td><td>Package efficiency:</td><td>123</td><td>%</td><td></td></th>	<td>Low-temperature heat pump:</td> <td></td> <td>No</td> <td></td> <td>Package efficiency:</td> <td>123</td> <td>%</td> <td></td>	Low-temperature heat pump:		No		Package efficiency:	123	%	
Parameters shall be declared for medium-temperature application. except for low-temperature heat pumps. For low- temperature heat pumps: for low- temperature for low- temperatu	Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-		
parameters shall be declared for low-temperature application. Term Symbol Value Unit Rated heat output (*) Protect 6 kW Rated heat output (*) Protect 6 kW beclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j T j = -7°C Pdh 5.2 kW T j = +2°C COPd 2.72 · T j = -7°C COPd 2.72 · T j = -7°C COPd 2.72 · T j = +12°C COPd 3.76 · T j = bvalent temperature 0 dh 5.3 kW T j = +12°C COPd 3.76 · T j = bvalent temperature 0 dh 5.2 kW T j = +12°C COPd 3.76 · T j = bvalent temperature 0 dh 5.2 kW T j = -7°C COPd 2.72 · T j = bvalent temperature 0 dh 5.3 kW T j = operation limit COPd 2.72 · T j = bvalent temperature 0 dh 5.2 kW T j = operation limit COPd 2.72 · For air-to-water heat pumps: Pdh na kW T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL < - 20°C) COPd na · T j = -15°C (ff TOL <	Heat pump combination heater	r:	Yes						
tem Symbol Value Unit tem Symbol Value Unit Rated heat output (*) $Proted$ 6 kW Seasonal space heating energy n_3 119 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and subtoor temperature 20 °C and outdoor temperature 20 °C and subtoor 20 °C and temperature 20 °C and outdoor temperature 20 °C and 20 °C					r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,	
Rated heat output (*) Protect 6 kW Beclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 1 Image: Second space heating energy in the second part load at indoor temperature 20 °C and outdoor temperature 7 1 Image: Second space heating energy in the second part load at indoor temperature 20 °C and outdoor temperature 7 1 T j = - 7 °C Pdh 5.2 kW T j = - 7 °C Pdh 5.4 kW T j = - 7 °C Pdh 5.7 kW T j = - 12 °C COPd 3.11 - T j = operation limit Pdh 5.2 kW For air-to-water heat pumps: Pdh na - For air-to-water heat pumps: Pdh na - For air-to-water heat pumps: Pdh na - Pergendation co-efficient Cdh 0,98 - - Offi mode Por 0,01	parameters shall be declared for	-							
Nated and output (Y)Profile0KWefficiencyfts1.1.9ysDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1Declared capficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 20 °C and part load at indoor temperature 20 °C and outdoor temperature 1T j = 7 °CPdhnakWTj = -7 °CC OPda.1T j = + 2 °CPdh5,2KWTj = -7 °CC OPd3,11-T j = + 12 °CPdh5,3KWTj = -7 °CC OPd3,11-T j = bivalent temperaturePdh5,2KWTj = operation limitC OPd2,72-T j = oparation limitPdh5,2KWTj = operation limitC OPd2,72-T j = -15 °C (if TOL < -20 °C)	tem	Symbol	Value	Unit	1	Symbol	Value	Unit	
butdoor temperature T j T j = -7°C Pdh S,2 T j = -7°C C Pdh S,2 T j = -7°C C COPd R,2,72 T j = -7°C C COPd 3,11 - T j = -7°C C COPd 3,11 - T j = -7°C C COPd 3,16 - T j = -2°C C COPd 3,76 - T j = -2°C C COPd 3,76 - T j = -2°C C COPd 3,76 - T j = operation limit Pdh 5,2 kW T j = to a lengerature COPd 2,83 - T j = operation limit Pdh 5,2 kW T j = operation limit COPd 2,72 - For air-to-water heat pumps: Pdh na kW T j = operation limit COPd 2,72 - For air-to-water heat pumps: COPd na - T j = -15°C (If TOL < -20°C) Pdh na KW T j = -15°C (If TOL < -20°C) COPd na - For air-to-water heat pumps: ToL na - Cycling interval capacity for heating P cych na KW Cycling interval efficiency COPcyc na - For air-to-water heat pumps: ToL na - Cycling interval capacity for P cych na KW Cycling interval efficiency COPcyc na - For air-to-water heat pumps: ToL na - Cycling interval capacity for P cych na KW Cycling interval efficiency COPcyc na - Heating water operating limit WTOL 65 °CC - Supplementary heater Supplementary heater Standard air flow rate, outdoors - Capacity control Fixed Fixed Fixed - Capacity control Fixed - Capacity control Fixed - Capacity control Fixed - Capacity control - Capa	Rated heat output (*)	Prated	6	kW		η _s	119	%	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		or part load at ir	idoor temperatu	ure 20 °C and	-				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	⊺ j = − 7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na] -	
F j = + 12 °CPdh5,7KWT j = +12 °C $COPd$ 3,76.F j = bivalent temperaturePdh5,3KWT j = +12 °C $COPd$ 2,83.T j = operation limitPdh5,2KWT j = operation limit $COPd$ 2,83.T j = operation limitPdh5,2KWT j = operation limit $COPd$ 2,72.For air-to-water heat pumps:PdhnaKWFor air-to-water heat pumps: $COPd$ na.Sivalent temperatureT _{Div} 3°COperation limit temperatureTOLna°CSivalent temperatureT _{Div} 3°COperation limit temperatureTOLna°CCycling interval capacity for heatingP opchnaKWCycling interval efficiency $COPcyc$ na.Degradation co-efficientCdh0.98-Eated water operating limit temperatureSupplementary heaterSupplementary heaterSupplementary heaterDiff modeP opr0.010KWKWType of energy inputElectricSupplementary heaterCapacity controlFixedFor air-to-water heat pumps:nam3/tSound power level, indoors/ butdoorsL wA43/nadBdBCapacity controlFixedSated brine or water flow rate, outdoorsnam3/tCapacity controlFixedSated brine or water flow rate, outdoorsnam3/tCapacity controlFixedSate		Pdh		kW		COPd] -	
Tj = bivalent temperaturePdh5,3kWTj = bivalent temperatureCOPd2,83.Tj = operation limit temperaturePdh5,2kWTj = operation limit temperatureCOPd2,72.For air-to-water heat pumps: T j = -15 * C (if TOL < -20 * C)	Г ј = + 7 °С	Pdh	5,4	kW	T j = +7 °C	COPd	3,11	- [
r j = operation limit temperature Pdh 5,2kWT j = operation limit temperature $COPd$ 2,72-For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	Г ј = + 12 °С	Pdh	5,7	kW	T j = +12 °C	COPd	3,76	- 1	
temperaturePan5,2kWtemperatureCDPa2,72-For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	Γ j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,83	-	
T j = -15 °C (if TOL < - 20 °C)PannaKWT j = -15 °C (if TOL < - 20 °C)CDPana-Bivalent temperatureT biv3°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CSivalent temperatureT biv3°CCycling interval capacity for heatingP cychna-Degradation co-efficientCdh0,98-Cycling interval efficiencyCOPcycna-Power consumption in modes other than active mode0,018kWSupplementary heaterRated heat outputP sup0,4kWType of energy inputElectricCrankcase heater modeP cx0,000kWType of energy inputElectricCapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-nam3//Capacity controlL wA43/nadBKWhFor air-to-water heat pumps: Rated air flow rate, outdoors-naCapacity controlFixedKWhWater heating energy efficiency-1m3//For heat pump combination heater:Delayed ficiencyNaKWhAnnual fuel consumptionQruelNADaily electricity consumptionQelec5,985kWhDaily fuel consumptionQruelNAAnnual electricity consumptionQelec5,985kWhDaily fuel consumptionAFCNASpecific precautions and end of the product's file cycle, it must be sent correcty oreater of that types. It of grea		Pdh	5,2	kW		COPd	2,72	-	
avaient temperature I_{biv} 3COperation limit temperature IOL naCCycling interval capacity for neating P_{cych} nakWOperation limit temperature IOL na-Degradation co-efficient Cdh 0.98 Heating water operating limit $WTOL$ 65*CDower consumption in modes other than active mode D_{porer} $0,018$ kW Heating water operating limit $WTOL$ 65*CDower consumption in modes other than active mode P_{orer} $0,018$ kW Type of energy inputElectricDetrackase heater mode P_{coc} $0,000$ kW Type of energy inputElectricCapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsna $m3/l$ Capacity controlFixed $A3/na$ dB B $MWhere Teach and the prometication of the stallation or caller of the stallation engineer for correct water management. At theend of the product's fille or formationAMDaily electricityconsumptionAEC1317KWhAnnual fuel consumptionAFCNAAnnual fuel consumptionAFCNAAt the and of the product's fille or formation compression and electricil/electronic equipment are properly disposed of DisposeNAAt thedot the product's fille or formationAt the end of the product's fille or formation<$		Pdh	na	kW		COPd	na	-	
neating P_{cych} nakWCycling interval efficiency $COPcyc$ naDegradation co-efficient Cdh $0,98$ -Heating water operating limit temperature $WTOL$ 65 °CPower consumption in modes other than active mode P_{orr} $0,018$ kW Supplementary heater Rated heat output P_{sup} $0,4$ kW Thermostat-off mode P_{ro} $0,010$ kW Type of energy input $Electric$ Standby mode P_{ss} $0,018$ kW Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsna $m3/t$ Capacity control L_{WA} $43/na$ dB B_{ror} $rowater/brine-to-water heatpumps: Rated brine or waterflow rate, outdoors heat1m3/tCapacity consumptionQ_{HE}2382kWhWater heating energyefficiencyn_{wh}78%Declared load profile/consumptionL/AWater heating energyefficiencyn_{wh}78%Daily dectricity consumptionQelec5,985kWhDaily fuel consumptionAFCNAkWhAnnual electricityconsumptionAEC1317kWhAnnual fuel consumptionAFCNAkWhSpecific precautions and endtilf is informationFor wates station or wate station or wate station o$	Bivalent temperature	T _{biv}	3	°C		TOL	na	°C	
Degradation co-efficient Cdh 0,98 temperature WIOL 65 *C Power consumption in modes other than active mode O,018 kW Supplementary heater Rated heat output Psup 0,4 kW Off mode P orF 0,010 kW Supplementary heater Rated heat output Psup 0,4 kW Thermostat-off mode P orF 0,010 kW Type of energy input Electric Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Sound power level, indoors na m3/i Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/i Sound power level, indoors/ L wA 43/na dB dB mas: Rated brine or water na m3/i For heat pump combination heater: Declared load profile/ L / A Water heating energy nwin 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA KWh Annual electricity AEC 1317		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-	
Off mode P orF 0,018 kW Rated heat output P Sup 0,4 kW Thermostat-off mode P ro 0,010 kW Type of energy input Electric Standby mode P ss 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - na m3/l Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/l Sound power level, indoors/ L wA 43/na dB pumps: Rated brine or water flow rate, outdoors heat - 1 m3/l For heat pump combination heater: - 1 m3/l % Declared load profile/ L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA KW Specific precautions and end of the product's life officering a service of that type. I is of great importance that the product's refrigerant, compressor of and electricid/electronic equipment are properly disposed of. Dispose	Degradation co-efficient	Cdh	0,98	-		WTOL	65	°C	
Thermostat-off mode P ro 0,010 kW Standby mode P sa 0,018 kW Crankcase heater mode P cx 0,000 kW Dther items 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/l Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water na m3/l Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water na m3/l Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water na m3/l Sound power level, indoors/ L wA 43/na dB Water heating energy n n m3/l Capacity consumption Q HE 2382 kWh Water heating energy n m3/l m3/l Cor heat pump combination heater: Declared load profile/ L / A Mater heating energy n_wh 78 % Daily electricity	Power consumption in modes of	other than active	e mode		Supplementary heater			_	
Standby mode P 58 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items For air-to-water heat pumps: - na m3/l Capacity control Fixed For air-to-water heat pumps: - na m3/l Sound power level, indoors/ L WA 43/na dB pumps: Rated air flow rate, outdoors - 1 m3/l Sound power level, indoors/ L WA 43/na dB For water-/brine-to-water heat - 1 m3/l Sound power level, indoors/ L WA 43/na dB - 1 m3/l For heat pump combination heater: Energy efficiency class L / A Water heating energy - 1 m3/l Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 kWh Annual fuel consumption AFC NA GJ Specific precautions and end filia information: arecycling st	Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,4	kW	
Crankcase heater mode P cx 0,000 kW Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/l Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/l Sound power level, indoors/ L wA 43/na dB pumps: Rated brine or water flow rate, outdoor heat na m3/l Cor heat pump combination heater: Declared load profile/ L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 KWh Annual fuel consumption AFC NA GJ Specific precautions and end 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 types doi. Disposed of. Disposed importance that the product's life cycle, it must be sent correctly to a waste station or receller offering a service of that types doi. Disposed importance that the product's life cycle.It may the sent correctly to a waste stati	Thermostat-off mode	Р _{то}	0,010	kW					
Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/l Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/l Sound power level, indoors/ butdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water - 1 m3/l Annual energy consumption Q HE 2382 kWh Water heating energy efficiency - 1 m3/l For heat pump combination heater: Declared load profile/ L / A Water heating energy efficiency nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1317 kWh Annual fuel consumption 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 wast station or reseller offering a service of that type. Is of great importance that the product's life cycle, it must be sent correctly to a wast station or reseller offering a service of that type. Is of great importance that the product's life cycle, it must be sent correctly to a wast station or reseller of	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric		
Other items Capacity control Fixed Sound power level, indoors/ L wA Market all flow rate, outdoors - Namual energy consumption Q HE 2382 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - Por heat pump combination heater: - Declared load profile/ L / A Energy efficiency class L / A Daily electricity consumption Qelec 5,985 kWh Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel Nanual electricity consumption AEC Specific precautions and 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. Disposed				kW					
Capacity control Fixed Rated air flow rate, outdoors na m3/f Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water Annual energy consumption Q HE 2382 kWh For water-/brine-to-water heat 1 m3/f For heat pump combination heater: Declared load profile/ L / A Water heating energy 1 m3/f Declared load profile/ L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispos	Other items								
L wa 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 2382 kWh flow rate, outdoor heat - 1 m3/h For heat pump combination heater: Declared load profile/ L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 kWh Annual fuel consumption AFC NA GJ 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. Disposed of Disposed	Capacity control		Fixed			-	na	m3/ł	
Annual energy consumption Q HE 2382 kWn exchanger - 1 m3/r For heat pump combination heater: Declared load profile/ L / A Water heating energy nwh 78 % Declared load profile/ L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 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. Dispose		L _{WA}	43/na	dB	pumps: Rated brine or water				
For heat pump combination heater: Declared load profile/ L / A Water heating energy efficiency η_{wh} 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 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. Dispose	Annual energy consumption	Q _{HE}	2382	kWh		-	1	m3/ł	
Declared load profile/ Energy efficiency class L / A Water heating energy efficiency n _{wh} 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC NA GJ 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. Dispose	For heat pump combination he	ater:		•			•	•	
Energy efficiency class efficiency Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1317 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 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. Dispose			1/1		Water heating energy	n .	70	0/	
Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC NA GJ 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. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose	Energy efficiency class		L/ A	-	efficiency	lwh	10	70	
AEC 1317 KWn Annual fuel consumption AFC NA GJ consumption File 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. Disposed of the product's refrigerant.	Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	NA	kWh	
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. Dispos		AEC	1317	kWh	Annual fuel consumption	AFC	NA	GJ	
			end of the product importance that th	t's life cycle, it mus ne product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	r offering a servio	e of that type. t	is of great	

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



Warm climate and Low tem	perature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe	enith i255			
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:	161	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
			tion, except fo	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
parameters shall be declared fo	or low-temperat Symbol		Unit	lkow	Sumbol	Value	11
ltem	Symbol	Value		Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	efficiency	η _s	157	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	idoor temperatu	ire 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] -
Г ј = + 2 °С	Pdh	5,9	kW	T j = +2 °C	COPd	4,23	1 -
у Г ј = + 7 °С	Pdh	6,0	kW	T j = +7 °C	COPd	4,45	1 -
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	4,71] -
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,30	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
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	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2073	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/h
For heat pump combination he	ater:	• 	•	· · · ·			<u>.</u>
Declared load profile/		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class				efficiency			-
Daily electricity consumption	Qelec	5,977	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1315	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	s life cycle, it mus re product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic on not permitted.	er offering a servio	ce of that type. t	is of great
Contact details	CTC AB. Näsväge	en 8, SE-341 34 L	jungby Tel +46	5 372 88000 www.ctc.se			231218
	,	.,	,,				

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



Average climate and Mediu	in temperatur				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe				
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		Yes		Package efficiency class:	A++	-	
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	r medium-temp			r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	126	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
ī j = − 7 °C	Pdh	5,2	kW	T j = – 7 °C	COPd	2,84] -
ī j = + 2 °C	Pdh	5,5	kW	T j = +2 °C	COPd	3,56	-
Г ј = + 7 °С	Pdh	5,4	kW	T j = +7 °C	COPd	3,75	-
Г ј = + 12 °С	Pdh	5,2	kW	T j = +12 °C	COPd	3,66	-
Г ј = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	2,84	-
Γ j = operation limit emperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,78] -
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}	-6	°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 o	ther than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,1	kW
hermostat-off mode	Р _{то}	0,018	kW		<u> </u>		
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	en en	-,	,		ļ.		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
Sound power level, indoors/	L _{WA}	43/ na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3882	kWh	flow rate, outdoor heat exchanger	-	1	m3/ł
or heat pump combination hea	ater:						
Declared load profile/		L/A		Water heating energy	η_{wh}	78	%
nergy efficiency class		T		efficiency	• IWN		-
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	er offering a servio	e of that type. t	is of great

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



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC EcoZe	enith i255			
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:	166	%	
Equipped with a supplementary	/ heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater	•	Yes					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	162	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	6,0	kW	T j = – 7 °C	COPd	4,32] - [
T j = + 2 °C	Pdh	6,0	kW	T j = +2 °C	COPd	4,50	-
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,66	-
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	4,83	-
T j = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,32	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23] -
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}	-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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3281	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/h
For heat pump combination he	ater:		<u> </u>			•	<u>.</u>
Declared load profile/		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class		-/ -	1	efficiency	' Iwh	70	/0
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details	CTC AB. Näsväg	en 8, SE-341 34 L	iungby Tel +46	372 88000 www.ctc.se			231218
	,,						

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



Cold climate and Medium to	emperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe				
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:	128	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared for parameters shall be declared for	or medium-temp		tion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	n _s	124	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,4	kW	T j = − 7 °C	COPd	3,23] -
T j = + 2 °C	Pdh	5,6	kW	T j = +2 °C	COPd	3,59	- 1
T j = + 7 °C	Pdh	5,7	kW	T j = +7 °C	COPd	3,91	- 1
T j = + 12 °C	Pdh	5,9	kW	T j = +12 °C	COPd	4,14	-
T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,94	-
T j = operation limit temperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,72	-
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}	-17	°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 of	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,9	kW
Thermostat-off mode	Р _{то}	0,010	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	CA	-,	1	1	ļ		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4560	kWh	flow rate, outdoor heat exchanger	-	1	m3/h
For heat pump combination he	ater:	•	•	· · · · · · · · · · · · · · · · · · ·			
Declared load profile/		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class		-/ -		efficiency	' Iwh	70	
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi it be sent correctly to a waste station or reselle grant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34 L					23121

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



Model(s):							
		CTC EcoPart 40	06 + CTC EcoZe	nith i255			
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:	168	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
			ion, except for	low-temperature heat pumps. For	ow- tempera	ture heat pu	mps,
parameters shall be declared for	•						
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	164	%
Declared capacity for heating for heating for heating for the second sec	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	6,1	kW	T j = − 7 °C	COPd	4,52] -
Г ј = + 2 °С	Pdh	6,1	kW	T j = +2 °C	COPd	4,66] -
Г ј = + 7 °С	Pdh	6,2	kW	T j = +7 °C	COPd	4,78	- 1
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	4,80	- 1
Г ј = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,32	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
For air-to-water heat pumps: Γ 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}	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3709	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/h
For heat pump combination he	ater:			I I0			•
Declared load profile/		L/A		Water heating energy	n.	70	0/
Energy efficiency class		L/ A		efficiency	η_{wh}	78	%
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1317	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 engin be sent correctly to a waste station or reseller ant, compressor oil and electrical/electronic en not permitted.	r offering a servic	e of that type. t	is of great

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



Model(s):		CTC EcoPart 4	06 + CTC EcoZe	nith i555			
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:	124	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
	r medium-temp	perature application		r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	120	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	idoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,2	kW	T j = +2 °C	COPd	2,72] -
Г ј = + 7 °С	Pdh	5,4	kW	T j = +7 °C	COPd	3,14	- 1
Г ј = + 12 °С	Pdh	5,7	kW	T j = +12 °C	COPd	3,78	- [
Γ j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,94] .
Γ j = operation limit emperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,72	-
or air-to-water heat pumps: □ 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	na	°C
Cycling interval capacity for neating	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	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		.,			ļ.		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/n a	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2585	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
or heat pump combination hea	ater:	•	•				
Declared load profile/		XL/A		Water heating energy	η_{wh}	92	%
Energy efficiency class		05/ F		efficiency	' Iwn	52	
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mus	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	r offering a servic	e of that type. t	is of great
Contact details Contact details	CTC AB, Näsväge			372 88000 www.ctc.se			23121

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



Warm climate and Low tem	perature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe	enith i555			
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:	162	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
				r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	158	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	na	kW	T j = − 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,9	kW	T j = +2 °C	COPd	4,23] -
Г ј = + 7 °С	Pdh	6,0	kW	T j = +7 °C	COPd	4,45	- [
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	4,71	- 1
Г ј = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,30	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
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	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na] -
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,021	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2056	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	ater:		•	L			
Declared load profile/		XL/A		Water heating energy	n.	92	%
Energy efficiency class				efficiency	η_{wh}	52	70
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	r offering a servic	e of that type. t	is of great
Contact details	CTC AB. Näsväge	en 8, SE-341 34 L	iungby Tel +46	372 88000 www.ctc.se			231218
	,						

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



Average climate and Mediu	m temperatur	e			Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe	enith i555			
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:	126	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	or medium-temp			r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	122	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,3	kW	T j = – 7 °C	COPd	2,90] -
Г ј = + 2 °С	Pdh	5,4	kW	T j = +2 °C	COPd	3,32] -
T j = + 7 °C	Pdh	5,6	kW	T j = +7 °C	COPd	3,66	- [
T j = + 12 °C	Pdh	5,8	kW	T j = +12 °C	COPd	4,01] -
T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,97] _
T j = operation limit temperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,72	-
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}	-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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than active	e mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р _{то}	0,005	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	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3992	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	ater:						-
Declared load profile/		XL/A		Water heating energy	η_{wh}	92	%
Energy efficiency class			1	efficiency	· IWN		
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mus	a recycling station or with the installation engin t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218
	,						

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



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZe	enith i555			
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:	167	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater		Yes					
	r medium-temp	perature application		r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	n _s	163	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	6,0	kW	T j = – 7 °C	COPd	4,32] -
Г ј = + 2 °С	Pdh	6,1	kW	T j = +2 °C	COPd	4,51] -
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	4,67	
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	4,83	-
T j = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,36] .
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
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}	-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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,2	kW
Thermostat-off mode	Р _{то}	0,021	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
, Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	CA	0,000	ļ		ļ		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3423	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination hea	ater:	-					•
Declared load profile/		XL/A		Water heating energy	η_{wh}	92	%
Energy efficiency class			1	efficiency	' Iwh	52	70
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mus	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details 0	TC AB. Näsväg	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218
			-1011207121140				201210

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



Cold climate and Medium t	emperature				Ljungby		
Model(s):		CTC EcoPart 4	06 + CTC EcoZ	enith i555			
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:	129	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate Parameters shall be declared fo parameters shall be declared fo	or medium-tem			r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	n _s	125	%
Declared capacity for heating four the structure for the structure T j	or part load at i	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	5,4	kW	T j = – 7 °C	COPd	3,23] -
Г ј = + 2 °С	Pdh	5,6	kW	T j = +2 °C	COPd	3,59	- 1
Г ј = + 7 °С	Pdh	5,7	kW	T j = +7 °C	COPd	3,91	- 1
T j = + 12 °C	Pdh	5,9	kW	T j = +12 °C	COPd	4,14	-
T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,94] .
T j = operation limit temperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,72	-
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}	-17	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than activ	e mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,9	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
, Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	a.						
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4539	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he		1	1				1
Declared load profile/				Water heating energy	n	02	
Energy efficiency class		XL/A	•	efficiency	η_{wh}	92	%
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engi st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic s not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväg	en 8, SE-341 34 L	jungby Tel +46	5 372 88000 www.ctc.se			231218

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



Cold climate and Low tempe	erature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC EcoZe	nith i555			
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:	169	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
Parameters shall be declared for parameters shall be declared for parame	•		tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	n _s	165	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	idoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature	•		
T j = – 7 °C	Pdh	6,1	kW	T j = − 7 °C	COPd	4,53	1 -
Г ј = + 2 °С	Pdh	6,1	kW	T j = +2 °C	COPd	4,67	1 -
Г ј = + 7 °С	Pdh	6,2	kW	T j = +7 °C	COPd	4,78] -
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	4,80] -
T j = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,35	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23] -
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}	-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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,021	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3800	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	ater:		<u> </u>	· · · ·			•
Declared load profile/		XL/A		Water heating energy	η_{wh}	92	%
Energy efficiency class			-	efficiency	' Iwh	32	70
Daily electricity consumption	Qelec	8,273	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1820	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 engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	r offering a servic	e of that type. t	is of great
Contact details	CTC AB Näsväge	en 8, SE-341 34 L	iungby Tel +46	372 88000 www.ctc.se			231218
	Cicico, Masvage	0, 32 341 34 5	Jangoy i ci i 40	0,200000 WWW.ctc.3C			201210

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



Warm climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC Basics	styrning			
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:	129	%	
Equipped with a supplementary	y heater:	No		Package efficiency class:		-	
Heat pump combination heater	r:	No					
				r low-temperature heat pumps. For	low- tempera	iture heat pu	imps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	128	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ire 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	5,2	kW	T j = +2 °C	COPd	2,91	- 1
T j = + 7 °C	Pdh	5,4	kW	T j = +7 °C	COPd	3,31	- [
T j = + 12 °C	Pdh	5,7	kW	T j = +12 °C	COPd	4,02	- 1
T j = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	3,02	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	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 of	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items		•					_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2209	kWh	flow rate, outdoor heat exchanger	-	1,5	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 product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic of not permitted.	er offering a servio	e of that type. t	is of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218
	. 0						

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



Warm climate and Low tem	perature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC Basics	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:	177	%	
Equipped with a supplementary	y heater:	No		Package efficiency class:		-	
Heat pump combination heater	r:	No					
			tion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	176	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	ire 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] -
у Г ј = + 2 °С	Pdh	5,9	kW	T j = +2 °C	COPd	4,57] -
T j = + 7 °C	Pdh	6,0	kW	T j = +7 °C	COPd	4,82	- 1
T j = + 12 °C	Pdh	6,1	kW	T j = +12 °C	COPd	5,12	-
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,65	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	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	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	1860	kWh	flow rate, outdoor heat exchanger	-	1,5	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 product	's life cycle, it mus e product's refrige	a recycling station or with the installation engir t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e not permitted.	r offering a servic	e of that type. t	is of great
Contact details	CTC AB. Näsväge	en 8, SE-341 34 L	iungby Tel +46	5 372 88000 www.ctc.se			231218
	, ,						

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



Air to water heat pump: No Energy efficiency class: A++ Water-to-water heat pump: No Controller class: 1 - Inter-to-water heat pump: No Package efficiency: 1.3 % Equipade with asyptematry heats No Package efficiency: 3.3 % Equipade with asyptematry heats No Package efficiency: 3.4 - Marto Shall be declared for now temperature application. A++ - Marto Shall be declared for low temperature application. team Symbol Value Unit Samatter Shall be declared for now temperature application. No Package efficiency class: A++ - Paratetics Shall be declared for now temperature application. No Tip - 7C Codd Samatter Shall be declared for now temperature 20.7C and outdoor temperature 7.7C Pdh 5,5 KW Tip - 7C COdd 3,10 - Tip - 1 = 2.7C Pdh 5,6 KW Tip - 17C Codd 3,51 - Tip - 17C Codd 3,52 - -	Average climate and Mediu	m temperatur	e			Ljungby		
No Controller class: I · Brine-to-water heat pump: Yes Controller class: I · Brune-to-water heat pump: No Package efficiency: 13.1 % Equipped with a supplementary heater: No Package efficiency: 13.1 % Equipped with a supplementary heater: No Package efficiency: 13.1 % Prometers that be declared for indum-temperature application. Heat pump combination heater: No Package efficiency: 13.1 % Parameters shall be declared for indum-temperature 20 °C and outdoor temperature 10 If Sampaneters shall be declared for indum-temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 7 No Declared coefficient of performance or primary energy out for part load at indoor temperature 10 If If <td< td=""><td>Model(s):</td><td></td><td>CTC EcoPart 4</td><td>06 + CTC Basics</td><td>styrning</td><td></td><td></td><td></td></td<>	Model(s):		CTC EcoPart 4	06 + CTC Basics	styrning			
Brine-to-water heat pump: Yes Controller contribution: 1 % Low-temperature heat pump: No Package efficiency: 13 % Expredentional supplementary heater: No Package efficiency: 13 % Heat pump combination heater: No Package efficiency: 13 % Package efficiency: 13 % Mo Package efficiency: A++ - Heat pump combination heater: No Package efficiency: A++ - Package efficiency: Symbol Value Unit Mo Essaonal space heating energy No Declared coefficient of parformance or primary energy ratio for Declared coefficient of parformance or primary energy ratio for Symbol Symbol Value Unit T = - 7 C Pdh 5,5 KW T = - 7 C COPd 3,10 - T = - 7 C Pdh 5,5 KW T = - 7 C COPd 3,16 - T = - 7 C Pdh 5,3 KW T = - 7 C COPd 3,16 - T = - 7 C Pdh 5,3 K	Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
No Package efficiency: 131 % cquipped with a supplementary heater: No Package efficiency: A++ - requipped with a supplementary heater: No Package efficiency: A++ - requipped with a supplementary heater: No Package efficiency: A++ - requipped with a supplementary heater: No Package efficiency: A++ - requipped with a supplementary heater: No Package efficiency: A++ - reguipped with a supplementary heater: Package efficiency: A++ - - reguipped with a supplementary heater: Package efficiency: A++ - - reguipped with a supplementary heater: Package efficiency: A++ - - reguipped with a supplementary heater: Fisher: Fisher: - <td>Water-to-water heat pump:</td> <td></td> <td>No</td> <td></td> <td>Controller class:</td> <td>1</td> <td>-</td> <td></td>	Water-to-water heat pump:		No		Controller class:	1	-	
Equipped with a supplementary heater: No Package efficiency class: A++ - No Package efficiency (lass classes heater near Package A+ No Package A++ No Package efficiency (lass: A++ - No Package efficiency (lass classes heater near Package A++ No	Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
NoParameters shall be declared for medur-temperature application.Derivative shall be declared for medur-temperature application.TermSymbolValueUnitRate heat output (*)ProtectGKWRated heat output (*)ProtectGKWDeclared coefficient (*)ProtectGKWDeclared coefficient (*)Declared coefficient (*)Coefficiencyn_g13.0T j = -7 *CPath5,3KWT j = -7 *CCOPd3,10-T j = -7 *CPath5,6KWT j = -7 *CCOPd3,10-T j = -7 *CPath5,6KWT j = -7 *CCOPd3,10-T j = -7 *CPath5,8KWT j = -7 *CCOPd3,10-T j = -7 *CPath5,8KWT j = -7 *CCOPd3,10-T j = -7 *CPath5,8KWT j = -1 *CCOPd3,21-T j = -7 *CPath5,8KWT j = -1 *CCOPd3,21-T j = operation limitPathnaKWT j = -1 *CCOPd3,16-T j = operation limitPathnaKWFor air-to-water heat pumps:Totna-Sivalent temperaturePathnaKWKWFor air-to-water heat pumps:Totna-Sivalent temperaturePathnaKWKWFor air-to-water heat pumps:naSival	Low-temperature heat pump:		No		Package efficiency:	131	%	
Parameters shall be declared for medium-temperature application. term best shall be declared for iow-temperature 20 °C and 0 Declared capacity for heating for part load at indoor temperature 20 °C and 0 Declared capacity for heating for part load at indoor temperature 20 °C and 0 T = - 7°C COPd 3.10 % T = - 7°C COPd 3.16 % T = - 15°C (#TOL < - 20°C) COPd na % %	Equipped with a supplementary	/ heater:	No		Package efficiency class:	A++	-	
tem Symbol Value Unit tem Symbol Value Unit Rated heat output (*) Proted 6 kW Seasonal space heating energy n_s 130 % Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 70°C Pdh $5,5$ kW Tj = -7°C COPd $3,10$ - - - Tj = -2°C COPd $3,10$ - - </td <td>Parameters shall be declared for</td> <td>or medium-temp</td> <td>perature applicat</td> <td></td> <td>r low-temperature heat pumps. For</td> <td>low- tempera</td> <td>ture heat pu</td> <td>imps,</td>	Parameters shall be declared for	or medium-temp	perature applicat		r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
Name has do upput (1)ProtectbKWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jDeclared capacity for heating for part load at indoor temperature 20 °C and part load at indoor temperature 7 0°C T j = - 7°CDeclared capacity for heating for part load at indoor temperature 7 0°C part load at indoor temperature 7 0°C T j = - 7°CCOPd3,10 3,52 2 2 2 2 3,11T j = - 7°C T j = + 12°C T j = + 12°C T j = + 12°C T j = brain temperature P dh5,8 5,8 5,8 5,8 5,8T T j = - 7°C 4,3,12COPd3,10 3,52 2 2 2 3,11T j = brain temperature T j = part load at indoor temperature T j = - 15°C (if TOL < - 20°C)	•				Item	Symbol	Value	Unit
part load at indoor temperature 20 °C and outdoor temperature 1 $T = -7^{\circ}C$ Pdh5,3kW $T = -7^{\circ}C$ COPd3,10- $T = +2^{\circ}C$ Pdh5,5kW $T = +2^{\circ}C$ COPd3,52- $T = +12^{\circ}C$ Pdh5,6kW $T = +2^{\circ}C$ COPd3,91- $T = +12^{\circ}C$ Pdh5,8kW $T = +12^{\circ}C$ COPd3,16- $T = operation limitPdhnakWT = operation limitCOPda,16For air-to-water heat pumps:PdhnakWT = operation limitCOPdnaFor air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPdnaFor air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:TOLna-Bivalent temperatureT bv-6°CGoperation limit temperatureTOLna-Cycling interval capacity forheatingPoor0,018kWGoperation limit temperatureTOLna-Degradation co-efficientCdh0,99Heating water operating limitWTOL65·CCycling interval capacity forheatingPoor0,003kWType of energy inputElectricSound power level, indoors/L wA43/nadB-for air-to-water heat pumps:nam3/nCapacity controlFixed3743KWhDaily fuel consumptionQruelna%$	Rated heat output (*)	Prated	6	kW		η _s	130	%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		or part load at ir	ndoor temperatu	ure 20 °C and				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Г ј = — 7 °С	Pdh	5,3	kW	T j = – 7 °C	COPd	3,10] -
r j = + 12 °CPdh5,8kWT j = + 12 °CCOPd4,32-F j = bivalent temperaturePdh5,3kWT j = operation limitOPd3,16-F j = operation limitPdhnakWT j = operation limitCOPdna-F or air-to-water heat pumps:PdhnakWT j = operation limitCOPdna-F j = -15 °C (if TOL < -20 °C)	-	Pdh				COPd] -
r j = bivalent temperaturePdh5,3kWT j = bivalent temperatureCOPd3,16r j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdnaFor air-to-water heat pumps: r j = -15 °C (If TOL < -20 °C)	Г ј = + 7 °С	Pdh	5,6	kW	T j = +7 °C	COPd	3,91	- [
T j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdnaT j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdna-Sivalent temperatureT bw-6°COperation limit temperatureT D lna-Sivalent temperatureT bw-6°COperation limit temperatureT D lna-Sivalent temperatureT bw-6°COperation limit temperatureT D lna-Operation limit temperatureT D w-6°COperation limit temperatureT D lna-Operation limit temperatureCycling interval capacity for neatingP cychnaOperation limit temperatureColonNoNoPower consumption in modes other than active modeKWVHeating water operating limit WTOL65·COptime temperatureP cw0,018KWType of energy inputElectric-Standby modeP aw0,018KWType of energy inputElectricnaCapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-nam3//Capacity controlFixedFor air-to-water heat pumps: Rated brine or water flow rate, outdoors-nam3//Capacity controlFixedNaAAAACapacity cont	Г ј = + 12 °С	Pdh		kW	T j = +12 °C	COPd	4,32	-
T j = operation limit emperaturePdhnakWT j = operation limit temperatureCOPdnaor ai-to-water heat pumps: T j = -15 * C (if TOL < -20 * C)	[i = hivalent temperature	Pdh	53	kW	T i = hivalent temperature	COPd	3 16	
For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)PdhnakWFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)COPdnaBivalent temperatureT biv-6°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CCycling interval capacity for heating P_{cych} nakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,99-Heating water operating limit temperatureWTOL65°CPower consumption in modes other than active modeSupplementary heaterSupplementary heaterNateNatePower consumption in modes other than active modeSupplementary heaterNateNateNateDiff mode P_{orr} 0,018kWNateNateElectricCrankcase heater mode P_{sw} 0,018kWType of energy inputElectricCapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsnam3/tCapacity controlFixed3743kWhFor water-/brine-to-water heat pumps: Rated air flow rate, outdoorsnam3/tCapacity controlRatedanNater heating energy rum air to explanate drine or water flow rate, outdoorsna%Declared load profilenaWater heating energy efficiencyna%Daily electricity consumptionQelecnakWhAnnual fuel consumptionAFCnaSpecific precautions and end	T j = operation limit			-	T j = operation limit			-
analent temperature I -b -C Operation limit temperature I/DL na -C Cycling interval capacity for heating P cych na kW Cycling interval efficiency COPcyc na - Degradation co-efficient Cdh 0,99 - Heating water operating limit WTOL 65 °C Power consumption in modes other than active mode 0,018 kW Rated heat output Psup 1,1 kW Off mode P orr 0,003 kW Rated heat output Psup 1,1 kW Standby mode P sa 0,018 kW Type of energy input Electric For air-to-water heat pumps: na m3/r Capacity control Fixed For air-to-water heat pumps: na m3/r Sound power level, indoors/ L wA 43/na dB dB ma ma m3/r For heat pump combination heater: Declared load profile na ma m3/r m3/r Daily electricity consumption Qelec na kWh Daily fuel consumption Qfuel na <td< td=""><td>For air-to-water heat pumps:</td><td>Pdh</td><td>na</td><td>kW</td><td>For air-to-water heat pumps:</td><td>COPd</td><td>na</td><td>-</td></td<>	For air-to-water heat pumps:	Pdh	na	kW	For air-to-water heat pumps:	COPd	na	-
heating P_{cych} nakWCycling interval efficiency $CDFyc$ naDegradation co-efficient Cdh $0,99$ -Heating water operating limit temperature $WTOL$ 65 *CDower consumption in modes other than active mode V_{orr} $0,018$ kW Supplementary heater Rated heat output P_{SUp} $1,1$ kW Off mode P_{orr} $0,003$ kW Type of energy input $Electric$ Diff mode P_{ss} $0,018$ kW Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlFixedFor air-to-water heat pumps: nated brie or water duate outdoorsna $m3/t$ Capacity control L_{WA} $43/na$ dB How rate, outdoors na $m3/t$ Condors L_{WA} $43/na$ dB How rate, outdoors na/t na/t Annual energy consumption Q_{HE} 3743 kWh Daily fuel consumption Q_{fuel} na kWh Daily electricity consumptionQelecna kWh Daily fuel consumption AFC na KWh Daily fuel consumptionAECna kWh Annual fuel consumption AFC na GI Specific precautions and end of life information:The packaging must be deposited at a recycling station or with the installation engineer of correct waste management. At the moduct's refigerant, compressor of al detectrical/electronic equipment	Bivalent temperature	T _{biv}	-6	°C		TOL	na	°C
Degradation co-efficient Can 0,99 - temperature W/OL 65 *C Power consumption in modes other than active mode 0,018 kW Supplementary heater Rated heat output Psup 1,1 kW Off mode P or 0,003 kW Type of energy input Electric Supplementary heater Standby mode P se 0,018 kW Type of energy input Electric Supplementary heater Crankcase heater mode P or 0,000 kW Type of energy input Electric Supplementary heater Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/f Sound power level, indoors/ L wA 43/na dB dB - 1,5 m3/f Annual energy consumption Q HE 3743 kWh Point rate, outdoor heat - 1,5 m3/f For heat pump combination heater: Declared load profile na Water heating energy Twh na % Daily electricity consumption Qelec na kWh Annual fuel con		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode P orF 0,018 kW Rated heat output P Sup 1,1 kW Thermostat-off mode P ro 0,003 kW Type of energy input Electric Standby mode P sg 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/t Sound power level, indoors/ butdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors heat exchanger 1,5 m3/t For heat pump combination heater: Declared load profile na Water heating energy efficiency na % Daily electricity consumption Qelec na kWh Annual fuel consumption Qfuel na kWh Annual electricity consumption AEC na kWh Annual fuel consumption AFC na G Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation on gener for correct waste	Degradation co-efficient	Cdh	0,99	-		WTOL	65	°C
Thermostat-off mode P ro 0,003 kW Standby mode P ss 0,018 kW Crankcase heater mode P cx 0,000 kW Dther items	Power consumption in modes of	other than active	e mode		Supplementary heater			_
Standby mode P ss 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - na m3/r Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/r Sound power level, indoors/ L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water - 1,5 m3/r Annual energy consumption Q HE 3743 kWh exchanger - 1,5 m3/r For heat pump combination heater: - - 1,5 m3/r m3/r Declared load profile na kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption Qelec na kWh Annual fuel consumption AFC na GJ Specific precautions and 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. Dispos of the product as household waste is not permitted. <td>Off mode</td> <td>P _{OFF}</td> <td>0,018</td> <td>kW</td> <td>Rated heat output</td> <td>Psup</td> <td>1,1</td> <td>kW</td>	Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,1	kW
Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/r Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/r Sound power level, indoors/ butdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 1,5 m3/r Annual energy consumption Q HE 3743 kWh Water heating energy efficiency na % Declared load profile na kWh Daily fuel consumption Qfuel na kWh Daily fuel consumption Qelec 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 equipment are properly disposed of. Dispose of the product's iffe 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. Dispose of the product as household waste is not permitted.	Thermostat-off mode	Р _{то}	0,003	kW				
Crankcase heater mode P ck 0,000 kW Dther items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/f Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/f Sound power level, indoors/ butdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 1,5 m3/f Annual energy consumption Q HE 3743 kWh Water heating energy efficiency na % Declared load profile na kWh Daily fuel consumption Q fuel na kWh Daily fuel consumption Qelec na kWh Annual fuel consumption AFC na G J 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. Dispose of the product as household waste is not permitted.	Standby mode	P sB	-	kW	Type of energy input		Electric	
Dther items Capacity control Fixed Sound power level, indoors/ L WA 43/na dB putdoors Annual energy consumption Q HE 3743 kWh For water-/brine-to-water heat pumps: Rated air flow rate, outdoors Annual energy consumption Q HE 3743 kWh For heat pump combination heater: Declared load profile na Daily electricity consumption Qelec Annual electricity AEC na kWh Annual fuel consumption Qfuel Annual electricity AEC na kWh Annual fuel consumption AFC na kWh Annual fuel consumption AFC Specific precautions and 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 an electrical/electronic equipment are properly disposed of. Disposi of the product as household waste is not permitted.	-							
Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/h Sound power level, indoors/ butdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat na m3/h Annual energy consumption Q HE 3743 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat 1,5 m3/h For heat pump combination heater: Declared load profile na Water heating energy efficiency 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 refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposi of the product's nergingerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposi of the product as household waste is not permitted.		CA.	0,000	J		ļ		
L WA 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 3743 kWh pumps: Rated brine or water For heat pump combination heater: Image: Consumption of the product	Capacity control		Fixed			-	na	m3/h
Annual energy consumption Q _{HE} 3743 kWn exchanger - 1,5 m3/r For heat pump combination heater: Declared load profile na Water heating energy η_{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 Specific precautions and 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. Disposi of the product as household waste is not permitted.		L _{WA}	43/na	dB	pumps: Rated brine or water			
For heat pump combination heater: Water heating energy nwh na % Declared load profile na WWh Water heating energy nwh na % Daily electricity consumption Qelec na kWh Daily fuel consumption Qfuel na kWh Annual electricity 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. Disposition of the product as household waste is not permitted.	Annual energy consumption	Q _{HE}	3743	kWh		-	1,5	m3/ł
Declared load profile na na % Daily electricity consumption Qelec na kWh Daily fuel consumption Qfuel na kWh Annual electricity 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. Disposition of the product as household waste is not permitted.	or heat pump combination he	ater:	•	•			•	<u> </u>
Annual electricity consumption AEC na kWh Annual fuel consumption AFC na GJ 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. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposition of the product as household waste is not permitted.	Declared load profile		na	-		η_{wh}	na	%
AECnakWhAnnual fuel consumptionAFCnaGJconsumptionFileNaGJImage: Second consumptionAFCNaGJSpecific 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. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposi of the product as household waste is not permitted.	Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
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. Disposi of the product as household waste is not permitted.	•	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Contact details CTC AB, Näsvägen 8, SE-341 34 Liungby Tel +46 372 88000 www.ctc.se 231212	Specific precautions and end		end of the product importance that the	t's life cycle, it mus ne product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	er offering a servio	e of that type. t	is of great
	Contact details (CTC AB, Näsväge	en 8, SE-341 34 L	jungby Tel +46	372 88000 www.ctc.se			231218

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



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 40	06 + CTC Basic	styrning			
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:	180	%	
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			tion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	n _s	179	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	idoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	5,9	kW	T j = − 7 °C	COPd	4,67] -
T j = + 2 °C	Pdh	6,0	kW	T j = +2 °C	COPd	4,88	- 1
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	5,06	-
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	5,25] -
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,67].
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-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 c	ther than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,005	kW				•
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
, Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	ch	.,	ļ				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2967	kWh	flow rate, outdoor heat exchanger	-	1,5	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 product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic on not permitted.	er offering a servio	e of that type. t	is of great
Contact details		en 8, SE-341 34 L	iunghy Tel +//	372 88000 www.ctc.se			231218
	ind vage	0, 5L-541 54 L	Jangoy 1 CI +40	www.cic.se			231210

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



Model(s): Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater:		CTC EcoPart 40 No Yes	06 + CTC Basic	styrning Energy efficiency class: Controller class:		-	
Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary		No				-	
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary				Controllor class:			
Low-temperature heat pump: Equipped with a supplementary		Voc		Controller Class:	1	-	
Equipped with a supplementary		165		Controller contribution:	1	%	
		No		Package efficiency:	134	%	
Heat pump combination heater:	heater:	No		Package efficiency class:		-	
Parameters shall be declared for parameters shall be declared for	medium-temp			r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	133	%
Declared capacity for heating for outdoor temperature T j	⁻ part load at in	door temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	5,4	kW	T j = – 7 °C	COPd	3,42] -
Г ј = + 2 °С	Pdh	5,6	kW	T j = +2 °C	COPd	3,82	- [
Г ј = + 7 °С	Pdh	5,7	kW	T j = +7 °C	COPd	4,19	-
Г ј = + 12 °С	Pdh	5,9	kW	T j = +12 °C	COPd	4,46] -
Γ j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	3,09	-
Γ j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: □ 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}	-18	°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	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes ot	her than active	mode	_	Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,7	kW
hermostat-off mode	Р _{то}	0,003	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	CA.	0,000	1	1	ļ		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4107	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
or heat pump combination heat	ter:	•	•	· · · · ·			
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 product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic en not permitted.	r offering a servic	e of that type. t	is of great

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



Cold climate and Low tempe	erature				Ljungby		
Model(s):		CTC EcoPart 40	6 + CTC Basics	styrning			
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					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	n _s	183	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T i = − 7 °C	Pdh	6,0	kW	T j = − 7 °C	COPd	4,9	- ٦
T j = + 2 °C	Pdh	6,1	kW	T j = +2 °C	COPd	5,07	1 -
T j = + 7 °C	Pdh	6,1	kW	T j = +7 °C	COPd	2,2] -
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	5,22	-
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-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	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes c	other than active	e mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р _{то}	0,005	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	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/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3332	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	ater:		•				<u> </u>
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 product'	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e not permitted.	r offering a servic	e of that type. t	is of great
Contact details (CTC AB, Näsväge	en 8, SE-341 34 Lj	jungby Tel +46	372 88000 www.ctc.se			231218
·	. 01			-			