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



Warm climate and Medium	n temperature				Ljungby		
Model(s):		CTC EcoPart 40	)8 + 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	%	
ow-temperature heat pump:		No		Package efficiency:	139	%	
Equipped with a supplementar	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate		No					
			ion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
parameters shall be declared f							
tem	Symbol	Value	Unit I	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	135	%
Declared capacity for heating f outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
ī j = − 7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na	] -
j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	] -
ī j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,46	-
ī j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	4,12	-
ī j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,22	-
Γ j = operation limit emperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	-	Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
hermostat-off mode	Р <sub>то</sub>	0,004	kW				
tandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		*			•		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Sound power level, indoors/ butdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3083	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/I
or heat pump combination he	eater:						·
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	's life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of grea
Contact details	CTC AB, Näsväge	n 8, SE-341 34 Lj					23121

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



Warm climate and Low ten	nperature				Ljungby		
Model(s):		CTC EcoPart 40	)8 + 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:	181	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate	er:	No					
			ion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared f	-						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	177	%
Declared capacity for heating to butdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
「j=−7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na	] -
Г ј = + 2 °С	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	] -
Г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	] -
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	-
Г ј = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	] -
For air-to-water heat pumps: 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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	•	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
hermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>ск</sub>	0,000	kW				
Other items			ļ.		ļ		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/ł
or heat pump combination h		<u>I</u>	1	Tevenunger		1	
Declared load profile		na	1	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						23121

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



Average climate and Medi	um temperature	5			Ljungby		
Model(s):		CTC EcoPart 40	)8 + CTC EcoLo	ogic			
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	140	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:	A++	-	
Heat pump combination heat		No					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	ımps,
parameters shall be declared							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	136	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
T j = − 7 °C	Pdh	7,7	kW	T j = − 7 °C	COPd	3,28	<b>-</b> ר
T j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	<b>-</b>
T j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	4	-
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	3,28	] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	_
Bivalent temperature	T <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		-	-			-	_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination h		1	1	Техениндег		1	1
Declared load profile		na	1	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi 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						231218

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



Average climate and Low t	emperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC EcoLo	ogic			
Air-to-water heat pump:		No		Energy efficiency class:	A+++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	184	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:	A+++	-	
Heat pump combination heate	er:	No					
Parameters shall be declared f	or medium-temp	erature applicat	ion, except fo	r low-temperature heat pumps. For	·low-tempera	iture heat pu	mps,
parameters shall be declared f	for low-temperate	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	180	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј =  – 7 °С	Pdh	8,2	kW	T j = − 7 °C	COPd	4,67	] -
г ј = + 2 °С	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	] -
Г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	- [
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	- 1
ت j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items			-		-		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
or heat pump combination h	eater:					•	•
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle grant, compressor oil and electrical/electronic not permitted.	er offering a servio	ce of that type. t	is of great
Contact details	CTC AB, Näsväge						231218

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



Cold climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoPart 40	)8 + 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:	143	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate Parameters shall be declared f parameters shall be declared f	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	139	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = – 7 °C	Pdh	7,8	kW	T j = − 7 °C	COPd	3,55	] - [
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,92	-
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	4,27	-
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,52	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,28	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
For air-to-water heat pumps: T j =  – 15 °C (if TOL <  – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	Р <sub>то</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5773	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination h		I	1	ובאטומווצבו			1
Declared load profile		na	1	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	a recycling station or with the installation enging t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218

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



Cold climate and Low temp	erature				Ljungby		
Model(s):		CTC EcoPart 40	8 + 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:	187	%	
Equipped with a supplementar	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate		No					
	•	• •	ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared f	•		Unit		C. mahal	Malua	11
ltem	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	efficiency	η <sub>s</sub>	183	%
Declared capacity for heating f outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
⊺ j = − 7 °C	Pdh	8,3	kW	T j = − 7 °C	COPd	4,88	] -
Г ј = + 2 °С	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	] -
Г ј = + 7 °С	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	- [
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	-
ī j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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 <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
hermostat-off mode	Р <sub>то</sub>	0,013	kW				
itandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/ł
Sound power level, indoors/ butdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4612	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/ł
or heat pump combination he	eater:			, ,			•
Declared load profile		na	I	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must product's refrige	recycling station or with the installation engines to sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						23121



Warm climate and Mediun	n temperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC EcoZe	enith 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:	139	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heat	er:	Yes					
Parameters shall be declared	for medium-temp	erature applicat	ion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
parameters shall be declared		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	135	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	1 -
T j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,46	1 -
T j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	4,12	1 -
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,22	1 -
T j = operation limit	Pdh	7,6	kW	T j = operation limit	COPd	3,13	- I
temperature For air-to-water heat pumps:	- "			temperature For air-to-water heat pumps:			
T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	Р <sub>то</sub>	0,004	kW				•
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items	CA.	0,000					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3083	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination h	eater:	•	-	· · · ¥		-	-
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	103	%
Energy efficiency class				efficiency	' Iwh	103	/0
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product' importance that the	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	r offering a servio	e of that type. t	is of great
Contact datails	CTC AB, Näsväge	of the product as ho					231218
Contact details	CICAD, Nasvage	0, 31-341 34 LJ	unguy 101 +40	www.cic.se			201210



Warm climate and Low ter	•		combination	neaters	Ljungby		ele
Model(s):	•	CTC EcoPart 40	8 + CTC EcoZe	enith 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:	181	%	
Equipped with a supplementa		Yes		Package efficiency class:		-	
Heat pump combination heat	-	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
parameters shall be declared	for low-temperate	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	177	%
Declared capacity for heating outdoor temperature T j	for part load at in	idoor temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	1 -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	1 -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	] -
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	- [
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	1 -
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 <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination h	eater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	103	%
Energy efficiency class				efficiency			-
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus 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 en not permitted.	r offering a servio	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218
	,	-,					



Average climate and Medi	um temperatur				Ljungby		
Model(s):			8 + CTC EcoZe	nith 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:		%	
ow-temperature heat pump:		No		Package efficiency:	140	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heat		Yes					
parameters shall be declared			ion, except foi	r low-temperature heat pumps. For	low- tempera	ture neat pu	mps,
item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	136	%
				enciency	-		
Declared capacity for heating butdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
	Pdh	7,7	kW	T j = − 7 °C	COPd	3,28	] - [
j = + 2 °C	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	] -
j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	4	] -
ī j = + 12 ℃	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	] -
j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	] -
j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	3,28	-
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 <sub>biv</sub>	-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
ower consumption in modes	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
hermostat-off mode	Р <sub>то</sub>	0,004	kW				
standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		-,	•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
or heat pump combination h	eater:						
Declared load profile/ Energy efficiency class		XL/A		Water heating energy efficiency	$\eta_{wh}$	103	%
Daily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product' importance that the	s life cycle, it must 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 servic	e of that type. t	is of great
Contact details		of the product as here					231218

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



Average climate and Low t	emperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC EcoZe	nith 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:	184	%	
Equipped with a supplementa	iry heater:	Yes		Package efficiency class:	A+++	-	
Heat pump combination heat		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared			11		C h. a l	Malaa	1114
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	180	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
ſ j = − 7 °C	Pdh	8,2	kW	T j = – 7 °C	COPd	4,67	] -
Г ј = + 2 °С	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	] -
Г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	-
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	J -
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		-	-		÷		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination h	eater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	103	%
Energy efficiency class	L			efficiency		_	-
Daily electricity consumption Annual electricity	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kWh
consumption	AEC	1632 The packaging must	kWh	Annual fuel consumption a recycling station or with the installation engi	AFC	na aste manageme	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge	n 8, SE-341 34 Lj					231218



Model(s):CTC EcoPart 408 + CTC EcoZenith 1360/ EcoVent 1360FAir-to-water heat pump:NoEnergy efficiency class:Brine-to-water heat pump:NoController class:Brine-to-water heat pump:NoPackage efficiency:Equipped with a supplementary heater:YesPackage efficiency class:Heat pump combination heater:YesPackage efficiency class:Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For parameters shall be declared for use-temperature application.ItemRated heat output (*)Prated9KWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jItemSeasonal space heating energy efficiencyT j = -7 °CPdh7,8KWT j = -7 °CT j = +12 °CPdh8,0KWT j = -7 °CT j = +12 °CPdh8,2KWT j = +12 °CT j = +12 °CPdh7,6KWT j = +12 °CT j = paration limit temperaturePdh7,6KWT j = oparation limit temperatureFor air-to-water heat pumps: T j = -15 °C (If TOL < -20 °C)PdhnaKWBivalent temperatureT biv-118°CCycling interval efficiencyPower consumption in modes other than active mode0,0018KWCycling interval efficiencyPower consumption in modes other than active mode0,000KWCycling interval efficiencyPower consumption in modes other than active mode0,000KW<	Ljungby		
Water-to-water heat pump:NoController class:Brine-to-water heat pump:YesController contribution:Low-temperature heat pump:NoPackage efficiency:Equipped with a supplementary heater:YesPackage efficiency class:Parameters shall be declared for medium-temperature application.Package efficiency class:ItemSymbolValueUnitRated heat output (*)Proted9kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature TDeclared coefficient of performe part load at indoor temperatureT j = - 7 °CPdh8,0kWT j = + 2 °CPdh8,1kWT j = + 2 °CPdh8,2kWT j = + 12 °CPdh8,2kWT j = + 12 °CPdh7,6kWT j = bivalent temperaturePdh7,6kWT j = poration limitPdh7,6kWT j = or 15 °C (if TOL < - 20 °C)			
arrine-to-water heat pump:       Yes       Controller contribution:         Low-temperature heat pump:       No       Package efficiency:         Equipped with a supplementary heater:       Yes       Package efficiency:         Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For parameters shall be declared for low-temperature application.       Item         Rated heat output (*)       Proted       9       kW         Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j       Item       Seasonal space heating energy efficiency         T j = - 7 °C       Pdh       7,8       kW       T j = - 7 °C         T j = - 7 °C       Pdh       8,0       kW       T j = - 7 °C         T j = - 7 °C       Pdh       8,1       kW       T j = - 7 °C         T j = + 7 °C       Pdh       8,1       kW       T j = + 7 °C         T j = + 7 °C       Pdh       8,2       kW       T j = + 7 °C         T j = bivalent temperature       Pdh       7,6       kW       T j = operation limit temperature         T j = operation limit temperature       Pdh       7,6       kW       T j = operation limit temperature         For air-to-water heat pumps:       Pdh       0,018       kW       T j = - 15		-	
NoPackage efficiency:Equipped with a supplementary heater:YesPackage efficiency class:Equipped with a supplementary heater:YesPackage efficiency class:Heat pump combination heater:YesPackage efficiency class:Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. Forparameters shall be declared for medium-temperature application.temRated heat output (*)Prated9kWPackage efficiencyDeclared capacity for heating for part load at indoor temperature 20 °C and putdoor temperature T jT j = -7 °CPdh7,8T j = -7 °CPdh8,0T j = + 12 °CPdh8,1KWKWT j = + 7 °CT j = + 12 °CPdh8,1T j = operation limitPdh7,6KWT j = operation limitPdhT j = operation limitPdh7,6For air-to-water heat pumps:PixFor air-to-water heat pumps:PixSound power level, indoors /PorrOff modePorr0,018ModeP sa0,018Cycling interval capacity for heatingPorrOperation limitP saCapacity controlFixedFor air-to-water heat pumps:Capacity controlFixedCapacity controlFixedCapacity controlFixedCapacity controlFixedFor air-to-water heat pumps:Capacity controlFixedCapacity cont	VII	-	
Equipped with a supplementary heater:YesPackage efficiency class:Heat pump combination heater:YesParameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For parameters shall be declared for low-temperature application.ItemRated heat output (*)Proted9kWDeclared capacity for heating for part load at indoor temperature 20 °C and butdoor temperature T jItemT j = - 7 °CPdh7,8kWT j = - 7 °CPdh8,0kWT j = - 7 °CPdh8,0kWT j = - 7 °CPdh8,1kWT j = - 7 °CPdh8,2kWT j = + 7 °CPdh8,2kWT j = + 12 °CPdh8,2kWT j = operation limitPdh7,6kWT j = operation limitPdh7,6kWT j = operation limitPdh7,6kWT j = operation limitPdhnakWT j = -15 °C (If TOL < -20 °C)	3,5	%	
YesParameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For parameters shall be declared for low-temperature application.temSymbolValueUnittemSymbolValueUnittemSymbolValueUnittemSymbolValueUnitNated9kWDeclared capacity for heating for part load at indoor temperature 20 °C and putdoor temperature 7 jT = -7 °CT = -7 °CPdh7,8KWT j = -7 °CT j = -7 °CPdhS, colspan="2">Red RadioFor all to water heating energyefficiencyDeclared capacity for heating imit temperaturePdh7,6For all-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)PdhnaSivalent temperatureT biv-18°CColspan="2">Colspan="2">Sivalent temperatureFor all-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)For all-to-water theat pumps: T all to water heat pumps: T all to water heat pumps: T all to water heat pump	143	%	
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For parameters shall be declared for low-temperature application.temSymbolValueUnittemSymbolValueUnitRated heat output (*)Prated9kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jTT = -7 °CPdh7,8KWTj = -7 °CPdh7,8KWT j = -7 °CPdh8,0T j = -7 °CT j = -7 °CT j = -15 °C (if TOL < -20 °C)F j = -15 °C (if TOL < -20 °C)		-	
barameters shall be declared for low-temperature application.temSymbolValueUnittemRated heat output (*) $Prated$ 9kWSeasonal space heating energy efficiencyDeclared capacity for heating for part load at indoor temperature 20 °C and butdoor temperature T jDeclared capacity for heating for part load at indoor temperature 20 °C and $Declared capacity for heating for part load at indoor temperature 20 °C andDeclared capacity for heating for part load at indoor temperature 20 °C andT j = -7 °CT j = +2 °CT j = +12 °CT j = paration limittemperaturePdhT, fE paration limittemperatureT j = -15 °C (if TOL < -20 °C)PdhRWT j = -15 °C (if TOL < -20 °C)PdhRWT j = -15 °C (if TOL < -20 °C)For air-to-water heat pumps:T j = -15 °C (if TOL < -20 °C)PdhRWRWBivalent temperatureT biv-18CCCycling interval capacity forneatingP cychRWRWDegradation co-efficientCdhO,018P corrO,004KWKWType of energy inputDefinedeP corrOff modeP corrP corrO,000KWCrankcase heater modeP corrP corrO,000KWCapacity controlFixedFor air-to-water heat pumps:Rated heat outputFor air-to-water heat pumps:Rated heat outputCapacity controlFixedFor air-to-water heat pumps:Rated brine or waterflow rate, outdoorsCapacity controlFixed$			
temSymbolValueUnitItemRated heat output (*) $Prated$ 9kWSeasonal space heating energy efficiencyDeclared capacity for heating for part load at indoor temperature 20 °C and butdoor temperature T jDeclared coefficient of perform part load at indoor temperatureT j = - 7 °C $Pdh$ $7,8$ kWT j = + 7 °C $Pdh$ $8,0$ kWT j = + 7 °C $Pdh$ $8,0$ kWT j = + 12 °C $Pdh$ $8,2$ kWT j = poration limit $Pdh$ $7,6$ kWT j = operation limit $Pdh$ $7,6$ kWT j = -15 °C (if TOL < -20 °C)	low-tempera	ature heat pu	umps,
Rated heat output (*)Prated9kWDeclared capacity for heating for part load at indoor temperature 20 °C and putdoor temperature T jSeasonal space heating energy efficiencyT j = -7 °CPdh7,8kWT j = -7 °CPdh8,0kWT j = -7 °CPdh8,1kWT j = + 2 °CPdh8,2kWT j = + 12 °CPdh8,2kWT j = paration limitPdh7,6KWT j = operation limitPdh7,6KWT j = operation limitPdh7,6KWT j = -15 °C (if TOL < - 20 °C)			
Nate hast output (*)Prate9KWefficiencyDeclared capacity for heating for part load at indoor temperature 20 °C and butdoor temperature T jDeclared coefficient of performa part load at indoor temperatureDeclared coefficient of performa part load at indoor temperatureT j = -7 °CPdh7,8KWT j = -7 °CT j = + 7 °CPdh8,0KWT j = +2 °CT j = + 12 °CPdh8,1KWT j = +12 °CT j = bivalent temperaturePdh7,6KWT j = operation limit temperatureFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	Symbol	Value	Unit
part load at indoor temperature T jT j = - 7 °CPdh7,8kWT j = -7 °CT j = + 2 °CPdh8,0kWT j = +7 °CT j = + 12 °CPdh8,1kWT j = +7 °CT j = bivalent temperaturePdh7,7kWT j = +12 °CT j = bivalent temperaturePdh7,6KWT j = poration limitT j = operation limitPdh7,6KWT j = operation limitFor air-to-water heat pumps:T j = -15 °C (if TOL < -20 °C)	η <sub>s</sub>	139	%
r j = + 2 °CPdh8,0kWT j = +2 °Cr j = + 7 °CPdh8,1kWT j = +2 °Cr j = + 12 °CPdh8,2kWT j = +7 °Cr j = bivalent temperaturePdh7,7kWT j = bivalent temperaturer j = operation limitPdh7,6kWT j = operation limitr j = -15 °C (if TOL < - 20 °C)			
r j = + 2 °CPdh8,0kWT j = +2 °Cr j = + 7 °CPdh8,1kWT j = +7 °Cr j = + 12 °CPdh8,2kWT j = +7 °Cr j = bivalent temperaturePdh7,7kWT j = bivalent temperaturer j = operation limitPdh7,6kWT j = operation limitemperaturePdh7,6kWT j = operation limitemperaturePdh7,6kWT j = operation limitemperaturePdh7,6kWT j = operation limitemperaturePdhnakWT j = -15 °C (if TOL < - 20 °C)	COPd	3,55	٦.
$j = + 7  {}^{\circ}C$ Pdh8,1kWT $j = +7  {}^{\circ}C$ $j = + 12  {}^{\circ}C$ Pdh8,2kWT $j = + 12  {}^{\circ}C$ T $j = bivalent temperature$ Pdh7,7kWT $j = + 12  {}^{\circ}C$ T $j = operation limit$ Pdh7,6kWT $j = operation limit$ emperaturePdh7,6kWT $j = operation limit$ temperaturefor air-to-water heat pumps:PdhnakWT $j = -15  {}^{\circ}C (if TOL < -20  {}^{\circ}C)$ Bivalent temperatureT $biv$ -18 ${}^{\circ}C$ For air-to-water heat pumps:Cycling interval capacity for weatingPnakWCycling interval efficiencyPogradation co-efficientCdh0,99-Porration limit temperatureDegradation co-efficientCdh0,09-Supplementary heaterRated heat outputP0,004kWRated heat outputType of energy inputP0,004kWType of energy inputCrankcase heater modeP0,000kWType of energy inputCher itemsEapacity controlFixedGrant-to-water heat pumps:Capacity controlLWA46/nadBCondorsLWA46/nadBCapacity controlCFor air-to-water heat pumps:For air-to-water heat pumps:Capacity controlFixedStand dBfor water, outdoorsFor heat pump combination heater:C <t< td=""><td>COPd</td><td>3,92</td><td>1.</td></t<>	COPd	3,92	1.
T j = bivalent temperature $Pdh$ 7,7 $kW$ T j = bivalent temperatureT j = operation limit $Pdh$ 7,6 $kW$ T j = operation limitemperature $Pdh$ 7,6 $kW$ T j = operation limitfor air-to-water heat pumps: $Pdh$ na $kW$ For air-to-water heat pumps:T j = -15 °C (if TOL < - 20 °C)	COPd	4,27	<b>-</b>
T j = bivalent temperature $Pdh$ 7,7 $kW$ T j = bivalent temperatureT j = operation limit $Pdh$ 7,6 $kW$ T j = operation limitemperature $Pdh$ 7,6 $kW$ T j = operation limitfor air-to-water heat pumps: $Pdh$ na $kW$ For air-to-water heat pumps:T j = -15 °C (if TOL < - 20 °C)	COPd	4,52	1 -
Pan7,5KWtemperaturefor air-to-water heat pumps: $j = -15 °C$ (if TOL < - 20 °C)	COPd	3,28	<b>1</b> -
emperaturerrtemperatureior air-to-water heat pumps: $r j = -15 °C (if TOL < -20 °C)$ PdhnakWFor air-to-water heat pumps: $T j = -15 °C (if TOL < -20 °C)$ Bivalent temperatureT biv-18°CFor air-to-water heat pumps: Operation limit temperatureCycling interval capacity for neatingP cychnakWCycling interval efficiencyDegradation co-efficientCdh0,99-Heating water operating limit temperatureDegradation co-efficientCdh0,99-Supplementary heaterDefi modeP orF0,018kWSupplementary heaterPower consumption in modes other than active modeSupplementary heaterRated heat outputThermostat-off modeP orF0,018kWType of energy inputCharakcase heater modeP cx0,000kWFor air-to-water heat pumps: Rated air flow rate, outdoorsCapacity controlFixedFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsCapacity controlL WA46/nadB for water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoorsCapacity controlL WA5773kWhWater heating energy	cond	2.12	1
T j = - 15 °C (if TOL < - 20 °C)PannaKWT j = - 15 °C (if TOL < - 20 °C)Sivalent temperatureT $_{biv}$ -18°CFor air-to-water heat pumps: Operation limit temperatureCycling interval capacity for neatingP $_{cych}$ nakWCycling interval efficiencyDegradation co-efficientCdh0,99-Heating water operating limit temperatureSover consumption in modes other than active mode0,018kWSupplementary heaterOff modeP $_{OFF}$ 0,018kWSupplementary heaterChernostat-off modeP $_{TO}$ 0,004kWType of energy inputChankcase heater modeP $_{CX}$ 0,000kWType of energy inputChernostat controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsFor water-/brine-to-water heat pumps: Rated air flow rate, outdoorsCapacity controlL $_{WA}$ 46/nadB kWhFor water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchangerCor heat pump combination heater:XL / AWater heating energy	COPd	3,13	
Sivalent temperature       I       biv       -18       -C       Operation limit temperature         Cycling interval capacity for neating       P       p       na       kW       Cycling interval efficiency         Degradation co-efficient       Cdh       0,999       -       Heating water operating limit temperature         Power consumption in modes other than active mode       Supplementary heater       Supplementary heater       Rated heat output         Power consumption in modes other than active mode       0,004       kW       KW       Type of energy input         Chernostat-off mode       P       0,004       kW       Type of energy input       For air-to-water heat pumps:         Canakcase heater mode       P       0,000       kW       For air-to-water heat pumps:         Capacity control       Fixed       For air-to-water heat pumps:       Rated air flow rate, outdoors         Cound power level, indoors/       L       WA       46/na       dB         Annual energy consumption       Q       F5773       kWh       For water-/brine-to-water heat pumps:         Cor heat pump combination heater:       Declared load profile/       XL / A       Water heating energy	COPd	na	-
Peating $P_{cych}$ nakWCycling interval efficiencyDegradation co-efficient $Cdh$ $0,99$ -Heating water operating limit temperaturePower consumption in modes other than active modeSupplementary heaterSupplementary heaterDeff mode $P_{orF}$ $0,018$ $kW$ Chernostat-off mode $P_{TO}$ $0,004$ $kW$ Chernostat-off mode $P_{TO}$ $0,004$ $kW$ Standby mode $P_{SB}$ $0,018$ $kW$ Crankcase heater mode $P_{CK}$ $0,000$ $kW$ Deter items $E_{CX}$ $0,000$ $kW$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsSound power level, indoors/ $L_{WA}$ 46/na $dB$ Annual energy consumption $Q_{HE}$ 5773 $kWh$ Water heating energyFor heat pump combination heater: $VL/A$ Water heating energy	TOL	na	°C
Degradation co-efficient     Can     0,99     -     temperature       Power consumption in modes other than active mode     Supplementary heater     Supplementary heater       Off mode     P orF     0,018     kW       Thermostat-off mode     P ro     0,004     kW       Standby mode     P sB     0,018     kW       Crankcase heater mode     P cK     0,000     kW       Other items     Fixed     For air-to-water heat pumps:       Capacity control     Fixed     For water-/brine-to-water heat pumps:       Sound power level, indoors/     L WA     46/na     dB       Annual energy consumption     Q HE     5773     kWh	COPcyc	na	-
Off mode     P OFF     0,018     kW     Rated heat output       chernostat-off mode     P TO     0,004     kW     Type of energy input       ctandby mode     P SB     0,018     kW     Type of energy input       ctrankcase heater mode     P CK     0,000     kW     Type of energy input       ctrankcase heater mode     P CK     0,000     kW     For air-to-water heat pumps: Rated air flow rate, outdoors       ctapacity control     Fixed     For air-to-water heat pumps: Rated air flow rate, outdoors     For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       condectors     Q HE     5773     kWh     Water heating energy	WTOL	65	°C
Thermostat-off mode $P_{TO}$ 0,004 $kW$ Standby mode $P_{SB}$ 0,018 $kW$ Crankcase heater mode $P_{CK}$ 0,000 $kW$ Type of energy input Type of energy input Type of energy input Type of energy input For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile/ XL / A O,000 KW Type of energy input Type of energy input Type of energy input Type of energy input Water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
tandby mode     P 5B     0,018     kW     Type of energy input       Crankcase heater mode     P CK     0,000     kW     Type of energy input       Other items     Fixed     For air-to-water heat pumps: Rated air flow rate, outdoors     For air-to-water heat pumps: Rated air flow rate, outdoors       Capacity control     L WA     46/na     dB       poutdoors     L WA     46/na     B       poutdoors     Q HE     5773     kWh     For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       For heat pump combination heater:     XL / A     Water heating energy	Psup	1,0	kW
Crankcase heater mode       P ck       0,000       kW         Other items       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Sound power level, indoors/       L WA       46/na       dB         Dutdoors       L WA       46/na       dB         Annual energy consumption       Q HE       5773       kWh         For heat pump combination heater:       Water heating energy			
Crankcase heater mode       P CK       0,000       kW         Other items       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Sound power level, indoors/       L WA       46/na       dB         Dutdoors       L WA       46/na       dB         Annual energy consumption       Q HE       5773       kWh         For heat pump combination heater:       Water heating energy		Electric	
Other items       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Sound power level, indoors/       L WA       46/na       dB         Sound power level, indoors       L WA       46/na       dB         Sound power level, indoors       L WA       46/na       B         Sound power level, indoors       L WA       46/na       B         Sound power level, indoors       L WA       5773       KWh         Sound power level, indoors       Development       Sound B       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger         Sound power level, indoors       Q HE       S773       KWh       Water heating energy			
Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors         Sound power level, indoors/ butdoors       L WA       46/na       dB         Annual energy consumption       Q HE       5773       kWh       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger         For heat pump combination heater:       Value       Water heating energy	4		
L WA     46/na     dB     pumps: Rated brine or water       Annual energy consumption     Q HE     5773     kWh     pumps: Rated brine or water       For heat pump combination heater:     5773     kWh     water heating energy	-	na	m3/h
Annual energy consumption     Q HE     5//3     KWn     exchanger       For heat pump combination heater:			
For heat pump combination heater: Declared load profile/ XL / A Water heating energy	-	1,6	m3/h
Declared load profile/ XL / A Water heating energy			
Energy efficiency class	n	100	0/
	$\eta_{wh}$	103	%
Daily electricity consumption Qelec 7,420 kWh Daily fuel consumption	Qfuel	na	kWh
Annual electricity AEC 1632 kWh Annual fuel consumption	AFC	na	GJ
Specific precautions and end         The packaging must be deposited at a recycling station or with the installation engined of the product's life cycle, it must be sent correctly to a waste station or reselled importance that the product's refrigerant, compressor oil and electrical/electronic expension of the product as household waste is not normitted.	er offering a servi	vice of that type.	t is of great
of the product as household waste is not permitted.           Contact details         CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000         www.ctc.se			231218



Cold climate and Low tempe Model(s):		CTC EcoPort 40	18 + CTC EcoZo	nith i360/ EcoVent i360F	Ljungby		
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:		%	
· · ·		No			3,5 187	%	
ow-temperature heat pump:	haatar			Package efficiency:	107	70	
Equipped with a supplementary		Yes		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared fo		Yes erature applicat	ion, except for	low-temperature heat pumps. For	ow-tempera	ture heat pu	mps.
parameters shall be declared fo							
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	183	%
Declared capacity for heating fo butdoor temperature T j	er part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
- j = − 7 °C	Pdh	8,3	kW	T j = – 7 °C	COPd	4,88	1.
j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	1 -
j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	1 -
j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	1 -
j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	1 -
j = operation limit emperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
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	-
livalent temperature	T <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
ower consumption in modes o	ther than active	mode		Supplementary heater			
ff mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kИ
hermostat-off mode	Р <sub>то</sub>	0,013	kW				
tandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
rankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Liound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
annual energy consumption	Q <sub>HE</sub>	4612	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/
or heat pump combination hea	ater:						
eclared load profile/		XL/A		Water heating energy	$\eta_{wh}$	103	%
nergy efficiency class			<u>г</u>	efficiency	• Iwn	105	- <sup>^0</sup>
Paily electricity consumption	Qelec	7,420	kWh	Daily fuel consumption	Qfuel	na	kW
nnual electricity onsumption	AEC	1632	kWh	Annual fuel consumption	AFC	na	GJ
pecific precautions and end of life information:		end of the product	s life cycle, it must	recycling station or with the installation engine be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic e	r offering a service	e of that type. t	is of grea

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



Warm climate and Medium					Ljungby		
Model(s):		CTC EcoPart 40	)8 + 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:		%	
Low-temperature heat pump:		No		Package efficiency:	128	%	
Equipped with a supplementary		Yes		Package efficiency class:		-	
	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	or low-temperate Symbol	ure application. Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	124	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Γ j = − 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
Г ј = + 2 °С	Pdh	7,6	kW	T j = +2 °C	COPd	2,91	1 -
Г ј = + 7 °С	Pdh	7,8	kW	T j = +7 °C	COPd	3,22	] -
ī j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	3,80	] -
j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,00	-
Γ j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
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	-
livalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
ower consumption in modes o	other than active	mode	-	Supplementary heater		-	-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
hermostat-off mode	Р <sub>то</sub>	0,018	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Frankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
ound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3356	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/
or heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	$\eta_{wh}$	88,1	%
nergy efficiency class		-/ -	<u> </u>	efficiency	' Iwn	00,1	<b> </b> ″
aily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	's life cycle, it 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 end rant, compressor oil and electrical/electronic electronic electrical/electronic electrical/el	r offering a servic	e of that type. t	is of grea

#### Information for heat pump space heaters and heat pump combination heaters Warm climate and I ow temperature



Warm climate and Low tem	perature				Ljungby		
Model(s):		CTC EcoPart 40	)8 + 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:	158	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
parameters shall be declared fo							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	154	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
[ j = − 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	1 -
∫ j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,19	1 -
Г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	4,38	] -
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	4,63	- 1
i = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,25	-
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	-
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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,96	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
hermostat-off mode	P <sub>TO</sub>	0,055	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	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 <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2910	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	ater:						
Declared load profile/		L/A		Water heating energy	η <sub>wh</sub>	88,1	%
Energy efficiency class		-/ ··	1	efficiency	· Iwn	00,1	
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	<b>1164</b>	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	er offering a servio	ce 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 Medi	um temperatur	е			Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC EcoZe	nith 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:	129	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heate		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	ımps,
parameters shall be declared							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	125	%
Declared capacity for heating butdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
_j = − 7 °C	Pdh	7,7	kW	T j = − 7 °C	COPd	3,05	٦ -
; ī j = + 2 ℃	Pdh	7,9	kW	T j = +2 °C	COPd	3,39	] -
ī j = + 7 °C	Pdh	8,0	kW	T j = +7 °C	COPd	3,71	] -
j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,03	-
j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,11	] -
Γ j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
hermostat-off mode	Р <sub>то</sub>	0,018	kW				
standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
, Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items			·		. <u>.</u>		_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q <sub>HE</sub>	5670	kWh	flow rate, outdoor heat	-	1,6	m3/
or heat pump combination h				exchanger			1
Declared load profile/				Water heating energy	_		
nergy efficiency class		L/A		efficiency	$\eta_{wh}$	88,1	%
aily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	a recycling station or with the installation engit t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of grea
Contact details	CTC AB, Näsväge						23121

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



Average climate and Low te	imperature				Ljungby		
Model(s):		CTC EcoPart 40	08 + CTC EcoZe	enith i255			
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
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:	163	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater	r:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	ımps,
parameters shall be declared for	•	ure application.					
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	159	%
Declared capacity for heating for beating for beating for the second sec	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Γ j = − 7 °C	Pdh	8,2	kW	T j = − 7 °C	COPd	4,27	] -
j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,44	- 1
j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,59	] -
j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,73	-
j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,31	1 -
「j = operation limit emperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	] -
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	-
livalent temperature	T <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,96	-	Heating water operating limit temperature	WTOL	65	°C
ower consumption in modes o	other than active	e mode		Supplementary heater			_
off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
hermostat-off mode	Р <sub>то</sub>	0,055	kW				
tandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P <sub>CK</sub>	0,000	kW				
Other items		•			•		_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
ound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q <sub>HE</sub>	4816	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/
or heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	η <sub>wh</sub>	88,1	%
nergy efficiency class		-/ -	1	efficiency	' Iwh	00,1	/0
aily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
pecific precautions and end of life information:		end of the product'	's life cycle, it must	recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of grea

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



CTC AB

Ljungby

Model(s):	CTC EcoPart 408 +	CTC EcoZenith i255			
Air-to-water heat pump:	Νο	Energy efficiency class:		-	
Water-to-water heat pump:	Νο	Controller class:	VII	-	
Brine-to-water heat pump:	Yes	Controller contribution:	3,5	%	
Low-temperature heat pump:	Νο	Package efficiency:	131	%	
Equipped with a supplementary heater:	Yes	Package efficiency class:		-	

Heat pump combination heater: Yes Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.

ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	127	%
Declared capacity for heating outdoor temperature T j	for part load at in	door temperatur	re 20 °C and	Declared coefficient of performar load at indoor temperature 20 °C			
T j = – 7 °C	Pdh	7,8	kW	T j = − 7 °C	COPd	3,31	] -
T j = + 2 °C	Pdh	8,0	kW	T j = +2 °C	COPd	3,63	- [
T j = + 7 °C	Pdh	8,1	kW	T j = +7 °C	COPd	3,92	
T j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,14	-
T j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,05	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	] -
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	۹.	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	Р <sub>то</sub>	0,018	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>ск</sub>	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6273	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination h	eater:	•					
Declared load profile/ Energy efficiency class		L/A		Water heating energy efficiency	$\boldsymbol{\eta}_{wh}$	88,1	%
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engine t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic ec not permitted.	offering a service	e of that type. t i	s of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34 Lj	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	8 + 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:	165	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
			on, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo			11		C h. a l	Malua	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	161	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatur	e 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = – 7 °C	Pdh	8,3	kW	T j = − 7 °C	COPd	4,46	- 1
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,59	-
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	4,69	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,71	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,3	- [
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,96	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes c	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
Thermostat-off mode	Р <sub>то</sub>	0,055	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5383	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	η <sub>wh</sub>	88,1	%
Energy efficiency class		•		efficiency			-
Daily electricity consumption	Qelec	5,292	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1164	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product's	life cycle, it must product's refrige	recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted	er offering a servic	e of that type. t	is of great
		or the product as ho	usenoiu waste is	not permitted.			

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



	temperature				Ljungby		
Model(s):		CTC EcoPart 40	08 + 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:		%	
Low-temperature heat pump:		No		Package efficiency:	128	%	
Equipped with a supplementary		Yes		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared for		Yes erature applicat	ion except for	r low-temperature heat pumps. For	low- tempera	ture heat nu	mns
parameters shall be declared for				low temperature near pamps. For	iow tempera	ture neut pu	mp5,
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	124	%
Declared capacity for heating fo butdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
ī j = − 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	2,91	1 -
j = + 7 °C	Pdh	7,8	kW	T j = +7 °C	COPd	3,22	] -
j = + 12 °C	Pdh	8,0	kW	T j = +12 °C	COPd	3,80	- 1
j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,00	-
j = operation limit emperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	] -
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	-
ivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
ower consumption in modes o	other than active	mode	_	Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
hermostat-off mode	P <sub>TO</sub>	0,014	kW				
itandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Frankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Lound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3015	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/
or heat pump combination he	ater:	•		· · · · ·			
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	102	%
nergy efficiency class		AL/ A	1	efficiency	' Iwh	102	70
aily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWł
Annual electricity onsumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	's life cycle, it must e product's refrige	recycling station or with the installation 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 grea

#### 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	98 + 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:	<b>162</b>	%	
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	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	158	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	idoor temperatu	re 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	8,2	kW	T j = +2 °C	COPd	4,19	1 -
г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	4,38	1 -
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	4,63	1 -
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,25	1 -
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	] -
For air-to-water heat pumps: ſ j = − 15 °C (if TOL < − 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes c	other than active	e mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	Р <sub>то</sub>	0,035	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		, ,					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
Sound power level, indoors/ putdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2439	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/I
For heat pump combination he	ater:	·		· · · · · · · · · · · · · · · · · · ·			
Declared load profile/		<b>VI / A</b>		Water heating energy	n	102	0/
Energy efficiency class		XL/A		efficiency	$\eta_{wh}$	102	%
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWł
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus	a recycling station or with the installation enging t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great
		of the product as h					

#### Information for heat pump space heaters and heat pump combination heaters Average 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: Darameters shall be declared for	heater:	CTC EcoPart 40 No No Yes	98 + CTC EcoZe	Energy efficiency class:	A++	-	
Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary H Heat pump combination heater:	heater:	No Yes				-	
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary H Heat pump combination heater:	heater:	Yes		Controller class:			
Low-temperature heat pump: Equipped with a supplementary H Heat pump combination heater:	heater:			controller class.	VII	-	
Equipped with a supplementary h Heat pump combination heater:	heater:	Ne		Controller contribution:	3,5	%	
Heat pump combination heater:	heater:	No		Package efficiency:	130	%	
		Yes		Package efficiency class:	A++	-	
Daramotors shall be declared for		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for	-						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit T
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	126	%
Declared capacity for heating for outdoor temperature T j	part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
īj=−7 °C	Pdh	7,7	kW	T j = − 7 °C	COPd	3,05	] .
ī j = + 2 ℃	Pdh	7,9	kW	T j = +2 °C	COPd	3,39	- 1
г ј = + 7 °С	Pdh	8,0	kW	T j = +7 °C	COPd	3,71	- [
j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,03	] -
ī j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,11	] -
Γ j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	- 1
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes ot	her than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
hermostat-off mode	Р <sub>то</sub>	0,014	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items			·				_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/ł
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5248	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
or heat pump combination heat	er:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	102	%
energy efficiency class			1	efficiency	' Iwh	102	70
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	a recycling station or with the installation enging t be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic pot 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	emperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC EcoZe	nith 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:	165	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater	r:	Yes					
Parameters shall be declared for	or medium-temp	erature applicati	ion, except for	r low-temperature heat pumps. For	·low-tempera	ture heat pu	mps,
parameters shall be declared for	or low-temperat	ure application.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	161	%
Declared capacity for heating for beating for beating for beating for the second second second second second se	or part load at in	idoor temperatui	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
īj=−7°C	Pdh	8,2	kW	T j = − 7 °C	COPd	4,27	] -
j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	4,43	1 -
j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,58	] -
j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	4,73	] -
j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,27	-
j = operation limit emperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	-
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	-
livalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e mode		Supplementary heater		-	-
)ff mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
hermostat-off mode	Р <sub>то</sub>	0,035	kW				
tandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items			-		-		-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
ound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4542	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/
or heat pump combination he	ater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	102	%
nergy efficiency class				efficiency	· Iwn	102	
aily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWl
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must product's refrige	recycling station or with the installation eng 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 grea

## 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 40	8 + 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:	132	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	er:	Yes					
	•		ion, except fo	r low-temperature heat pumps. For	low- tempera	iture heat pu	ımps,
parameters shall be declared f		ure application.					
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	128	%
Declared capacity for heating f outdoor temperature T j	for part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј = — 7 °С	Pdh	7,8	kW	T j = − 7 °C	COPd	3,31	<b>-</b>
г ј = + 2 °С	Pdh	8,0	kW	T j = +2 °C	COPd	3,64	- 1
Г ј = + 7 °С	Pdh	8,1	kW	T j = +7 °C	COPd	3,93	-
Г ј = + 12 °С	Pdh	8,2	kW	T j = +12 °C	COPd	4,14	-
ت j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,09	-
Г ј = operation limit æmperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	2,91	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-17	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode	•	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,3	kW
hermostat-off mode	Р <sub>то</sub>	0,014	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items		,			-		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5781	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/I
or heat pump combination he	eater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	102	%
nergy efficiency class		.,	1	efficiency	IVVII		
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kWł
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA (aste manageme	GJ
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 reseller rant, compressor oil and electrical/electronic	er offering a servio	ce of that type. t	is of grea
Contact details	CTC AB Näsväge	en 8, SE-341 34 Lj					23121

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



Cold climate and Low temp	erature				Ljungby			
Model(s):		CTC EcoPart 40	8 + 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:	167	%		
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-		
Heat pump combination heate	r:	Yes						
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,	
parameters shall be declared fo I <b>tem</b>	or low-temperation Symbol	vre application. Value	Unit	Item	Symbol	Value	Uni	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy	η <sub>s</sub>	163	%	
Declared capacity for heating for beating for beating for the second sec	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature				
_j=−7 °C	Pdh	8,3	kW	T j = − 7 °C	COPd	4,46	1.	
гј= +2 °С	Pdh	8,3	kW	T j = +2 °C	COPd	4,59	1.	
Г ј = + 7 °С	Pdh	8,4	kW	T j = +7 °C	COPd	4,69	1 -	
ī j = + 12 ℃	Pdh	8,4	kW	T j = +12 °C	COPd	4,71	] -	
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,30	-	
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,19	] -	
For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-	
Bivalent temperature	T <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C	
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -	
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes of	other than active	mode		Supplementary heater				
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kИ	
Thermostat-off mode	Р <sub>то</sub>	0,035	kW					
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric		
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW					
Other items							_	
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/	
L Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water				
Annual energy consumption	Q <sub>HE</sub>	4374	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/	
For heat pump combination he	ater:		-	· · · ·				
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	102	%	
nergy efficiency class		~~/ ~	<u> </u>	efficiency	' Iwh	102	^	
Daily electricity consumption	Qelec	7,449	kWh	Daily fuel consumption	Qfuel	NA	kW	
Annual electricity consumption	AEC	1639	kWh	Annual fuel consumption	AFC	NA	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	r offering a servic	e of that type. t	is of grea	

#### 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	8 + 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:	136	%	
Equipped with a supplementary	y heater:	No		Package efficiency class:		-	
Heat pump combination heater		No	ion oxcont for	r low-temperature heat pumps. For	low tompora	turo hoat pu	mns
parameters shall be declared for	•		ion, except ioi	iow-temperature neat pumps. For	iow-tempera	ture neat pu	111p3,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	135	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na	] -
Г ј = + 2 °С	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	-
Г ј = + 7 °С	Pdh	7,8	kW	T j = +7 °C	COPd	3,46	-
Г ј = + 12 °С	Pdh	8,0	kW	T j = +12 °C	COPd	4,12	- I
Γ j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,22	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
For air-to-water heat pumps: 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 <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than active	mode		Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	P <sub>TO</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Cound power level, indoors/	L <sub>WA</sub>	<b>46/na</b>	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3083	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/h
For heat pump combination he	ater:	•	•				·
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	recycling station or with the installation engines to be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great
		THE DEPARTMENT AS N					

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



Warm climate and Low temp	perature				Ljungby		
Model(s):		CTC EcoPart 40	8 + 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:	178	%	
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			Unit		Gunghal	Value	11
Item	Symbol	Value		Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	efficiency	η <sub>s</sub>	177	%
Declared capacity for heating fo outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = − 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	] -
T j = + 7 °C	Pdh	8,3	kW	T j = +7 °C	COPd	4,81	- [
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,09	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	ther than active	e mode		Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P <sub>TO</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>ск</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	2558	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination hea	iter:						
Declared load profile		na	-	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must 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 servic	e of that type. t	is of great
Contact details C		en 8, SE-341 34 Lj					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 40	8 + CTC Basics	styrning			
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	1	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	137	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:	A++	-	
Heat pump combination heater		No					
			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	Uni
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	136	%
Declared capacity for heating for beating for beating for the second second second second second second second	or part load at in	idoor temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј = — 7 °С	Pdh	7,7	kW	T j = − 7 °C	COPd	3,28	- [
Г ј = + 2 °С	Pdh	7,9	kW	T j = +2 °C	COPd	3,62	] -
Г ј = + 7 °С	Pdh	8,0	kW	T j = +7 °C	COPd	4	-
Г ј = + 12 °С	Pdh	8,1	kW	T j = +12 °C	COPd	4,38	-
۲ j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit	Pdh	na	kW	T j = operation limit	COPd	3,28	].
temperature			4	temperature		0,20	-
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 <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode		Supplementary heater		P	
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,004	kW				•
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items	-		•		<u>,</u>		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
L Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4995	kWh	flow rate, outdoor heat exchanger	-	1,6	m3/
For heat pump combination he	ater:	•	•				<u>.</u>
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWl
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end		end of the product'	s life cycle, it must	a recycling station or with the installation eng t be sent correctly to a waste station or resell	er offering a servio	e of that type. t	is of grea
of life information:		of the product as h		rant, compressor oil and electrical/electronic	equipment are pro	operly disposed	of. Dispo

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



Average climate and Low t	emperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC Basics	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:	181	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:	A+++	-	
Heat pump combination heat	-	No					
		erature applicat	ion, except for	r low-temperature heat pumps. For	r low- tempera	ture heat pu	mps,
parameters shall be declared	for low-temperat	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	180	%
Declared capacity for heating outdoor temperature T j	for part load at ir	idoor temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј = — 7 °С	Pdh	8,2	kW	T j = – 7 °C	COPd	4,67	] -
Г ј = + 2 °С	Pdh	8,3	kW	T j = +2 °C	COPd	4,86	] -
Г ј = + 7 °С	Pdh	8,3	kW	T j = +7 °C	COPd	5,04	- 1
Г ј = + 12 °С	Pdh	8,4	kW	T j = +12 °C	COPd	5,21	- 1
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items				1			
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/ł
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4092	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/ł
For heat pump combination h		1	1			1	1
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation eng t be sent correctly to a waste station or resell rrant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218

## 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 40	)8 + 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:	140	%	
Equipped with a supplementar	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate Parameters shall be declared f parameters shall be declared f	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	139	%
Declared capacity for heating f outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
ſj=−7 °C	Pdh	7,8	kW	T j = – 7 °C	COPd	3,55	] -
Г ј = + 2 °С	Pdh	8,0	kW	T j = +2 °C	COPd	3,92	] -
Г ј = + 7 °С	Pdh	8,1	kW	T j = +7 °C	COPd	4,27	-
ī j = + 12 °C	Pdh	8,2	kW	T j = +12 °C	COPd	4,52	- 1
Γ j = bivalent temperature	Pdh	7,7	kW	T j = bivalent temperature	COPd	3,28	-
Г ј = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	-	Supplementary heater		r	-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,0	kW
hermostat-off mode	Р <sub>то</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5773	kWh	flow rate, outdoor heat	-	1,6	m3/h
or heat pump combination he			1	exchanger			1
Declared load profile		na	1	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation 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. Näsväge	n 8, SE-341 34 Lj					231218

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



Cold climate and Low temp	perature				Ljungby		
Model(s):		CTC EcoPart 40	8 + 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:	184	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate		No					
Parameters shall be declared f parameters shall be declared f			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy	η <sub>s</sub>	183	%
Declared capacity for heating	for part load at in	door temperatu	re 20 °C and	efficiency Declared coefficient of performa	-	ry energy rat	io for
outdoor temperature T j				part load at indoor temperature	20 °C and out	tdoor tempe	rature T j
T j = – 7 °C	Pdh	8,3	kW	T j = – 7 °C	COPd	4,88	] -
T j = + 2 °C	Pdh	8,3	kW	T j = +2 °C	COPd	5,04	-
T j = + 7 °C	Pdh	8,4	kW	T j = +7 °C	COPd	5,16	-
T j = + 12 °C	Pdh	8,4	kW	T j = +12 °C	COPd	5,19	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,67	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode	_	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items			•		•		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4612	kWh	flow rate, outdoor heat exchanger	-	2,0	m3/h
For heat pump combination h	eater:						
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product' importance that the	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 of not nermitted	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge	of the product as ho n 8. SE-341 34 Li					231218
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#### Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature



Warm climate and Mediun	n temperature				Ljungby		
Model(s):		CTC EcoPart 40	8 + CTC Basic				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	I.	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	110	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate		No					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared f	-		Unit	lt	C. mahal	Malua	11
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	efficiency	η <sub>s</sub>	109	%
Declared capacity for heating to the ting to the temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	7,6	kW	T j = +2 °C	COPd	3,13	- 1
T j = + 7 °C	Pdh	7,6	kW	T j = +7 °C	COPd	3,03	] -
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	2,92	-
T j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	- [
T j = operation limit	Pdh	7,6	kW	T j = operation limit	COPd	3,13	-
temperature		.,.	-	temperature		0,20	
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	- 1
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater		P	
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	0,6	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,004	kW				•
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0	kW				
Other items					•		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3756	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination h		1	1			1	I
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e not permitted	r offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218
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## Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature



Warm climate and Low ten	nperature				Ljungby			
Model(s):		CTC EcoPart 40	8 + CTC Basic					
Air-to-water heat pump:		No		Energy efficiency class:		-		
Water-to-water heat pump:		No		Controller class:	I	-		
Brine-to-water heat pump:		Yes		Controller contribution:	1	%		
Low-temperature heat pump:		No		Package efficiency:	<b>162</b>	%		
Equipped with a supplementar	ry heater:	No		Package efficiency class:		-		
Heat pump combination heate	er:	No						
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,	
parameters shall be declared f								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	161	%	
Declared capacity for heating f outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature				
Г ј = — 7 °С	Pdh	na	kW	T j = – 7 °C	COPd	na	1 -	
г ј = + 2 °С	Pdh	8,2	kW	T j = +2 °C	COPd	4,58	] -	
Г ј = + 7 °С	Pdh	8,1	kW	T j = +7 °C	COPd	4,44	-	
Г ј = + 12 °С	Pdh	8,1	kW	T j = +12 °C	COPd	4,26	- 1	
Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-	
Γ j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	- [	
For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-	
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C	
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -	
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes	other than active	mode	-	Supplementary heater			-	
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	0,6	kW	
hermostat-off mode	Р <sub>то</sub>	0,013	kW					
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric		
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW					
Other items								
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h	
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water				
Annual energy consumption	Q <sub>HE</sub>	2796	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h	
For heat pump combination he	eater:		•	<u> </u>				
Declared load profile		na	1	Water heating energy efficiency	$\eta_{wh}$	na	%	
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ	
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic en not permitted.	er offering a service	e of that type. t	is of great	
Contact details	CTC AB, Näsväge						231218	

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



Average climate and Medi	um temperatur	e			Ljungby		
Model(s):		CTC EcoPart 40	08 + CTC Basic				
Air-to-water heat pump:		No		Energy efficiency class:	A+	-	
Water-to-water heat pump:		No		Controller class:	1	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	111	%	
Equipped with a supplementa	-	No		Package efficiency class:	A+	-	
Heat pump combination heate Parameters shall be declared f parameters shall be declared f	for medium-temp		ion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	110	%
Declared capacity for heating t outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	7,6	kW	T j = − 7 °C	COPd	3,13	- 1
Г ј = + 2 °С	Pdh	7,6	kW	T j = +2 °C	COPd	3,01	- [
T j = + 7 °C	Pdh	7,6	kW	T j = +7 °C	COPd	2,94	-
T j = + 12 °C	Pdh	7,6	kW	T j = +12 °C	COPd	2,87	-
T j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	-
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode	-	Supplementary heater			7
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	1	kW
Thermostat-off mode	Р <sub>то</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6029	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	eater:			1.1.5761.001			1
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus 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 not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218
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#### Information for heat pump space heaters and heat pump combination heaters Average **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 Heat pump combination heater: Parameters shall be declared for		CTC EcoPart 40 No No Yes	8 + CTC Basic	Energy efficiency class: Controller class:	A++	-	
Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater:		No Yes				-	
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater:		Yes		Controller class:			
Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater:					1	-	
Equipped with a supplementary Heat pump combination heater:				Controller contribution:	1	%	
Heat pump combination heater:		No		Package efficiency:	164	%	
		No		Package efficiency class:	A++	-	
Parameters shall be declared for		No					
			ion, except for	low-temperature heat pumps. For	low- temperat	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	163	%
Declared capacity for heating for outdoor temperature T j	r part load at ind	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = – 7 °C	Pdh	8,2	kW	T j = − 7 °C	COPd	4,58	1 -
Г ј = + 2 °С	Pdh	8,1	kW	T j = +2 °C	COPd	4,40	<b>1</b> -
Г ј = + 7 °С	Pdh	8,1	kW	T j = +7 °C	COPd	4,30	] -
T j = + 12 °C	Pdh	8,1	kW	T j = +12 °C	COPd	4,20	-
T j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-
T j = operation limit temperature	Pdh	8,2	kW	T j = operation limit temperature	COPd	4,58	-
For air-to-water heat pumps: T j =  – 15 °C (if TOL <  – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	ther than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	1,1	kW
Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0	kW				
Other items							-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4467	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h
For heat pump combination hea	ter:	•	•	· · · ·			
Declared load profile		na	•	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product' importance that the	s life cycle, it must e product's refriger	recycling station or with the installation engi be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic	er offering a service	e of that type. t	is of great
Contact details C		of the product as he n 8, SE-341 34 Lj					231218

# 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 40	08 + CTC Basic				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	I.	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
Low-temperature heat pump:		No		Package efficiency:	111	%	
Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
Heat pump combination heate Parameters shall be declared f parameters shall be declared f	or medium-temp		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	8	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	110	%
Declared capacity for heating f outdoor temperature T j	for part load at in	idoor temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј =  – 7 °С	Pdh	7,6	kW	T j = − 7 °C	COPd	3,02	- 1
г ј = + 2 °С	Pdh	7,6	kW	T j = +2 °C	COPd	2,94	1 -
г ј = + 7 °С	Pdh	7,6	kW	T j = +7 °C	COPd	2,90	1 -
г ј = + 12 °С	Pdh	7,6	kW	T j = +12 °C	COPd	2,86	- 1
Γ j = bivalent temperature	Pdh	7,6	kW	T j = bivalent temperature	COPd	3,13	1 -
T j = operation limit temperature	Pdh	7,6	kW	T j = operation limit temperature	COPd	3,13	] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	1	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,004	kW				
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>СК</sub>	0	kW				
Other items			<u>,                                     </u>		ļ		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L <sub>WA</sub>	46/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6950	kWh	flow rate, outdoor heat exchanger	-	1,5	m3/h
For heat pump combination he	eater:		•				
Declared load profile		na	I	Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle trant, 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						231218
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### Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**



Rated heat output (*)Proted9kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and null construction te	Cold climate and Low temp		Ljungby <b>GIG</b>					
Water-to-water heat pump:       No       Controller class:       1       -         Brine-to-water heat pump:       Yes       Controller cantibution:       1       %         Equipped with a supplementary heater:       No       Package efficiency class:       -         Parameters shall be declared for low-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps.       -         Parameters shall be declared for low-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps.       -         Package efficiency:       1       *         Package efficiency:       1       *         Parameters shall be declared for low-temperature application, except for low-temperature application.       -         Rated heat output (*)       Proted       9       kW         Peclored capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 1       -         T j = - 7 °C       Pdh       8,1       kW       T j = - 7 °C       COPd       4,41         T j = - 7 °C       Pdh       8,1       kW       T j = - 2 °C       COPd       4,58         T j = - 7 °C       Pdh       8,2       kW       T j = - 15 °C (fT OL < - 20 °C)	Model(s):		CTC EcoPart 40	8 + CTC Basic				
Brine-to-water heat pump:       Yes       Controller contribution:       1       %         Low-temperature heat pump:       No       Package efficiency:       163       %         Equiped with a supplementary heater:       No       Package efficiency:       163       %         Parameters shall be declared for medium-temperature application.       No       Package efficiency:       163       %         Parameters shall be declared for low-temperature application.       No       Package efficiency:       162       %         Rated heat output (*)       Protect       9       kW       Package efficiency:       162       %         Declared coapacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 /       I       Fem officiency       No       162         T   = - 7 °C       Pdh       8,1       KW       Yi = - 7 °C       COPd       4,41         T   = - 7 °C       Pdh       8,1       KW       Yi = - 7 °C       COPd       4,23         T   = + 12 °C       Pdh       8,1       KW       Yi = + 12 °C       COPd       4,58         T   = oparation limit       Package       8,2       KW       T   = + 12 °C       COPd       4,58         T   = oparation limit       Regradue       Regradue	Air-to-water heat pump:		No		Energy efficiency class:		-	
No       Package efficiency:       163       %         Equipped with a supplementary heater:       No       Package efficiency class:       -         Parameters shall be declared for medium-temperature application.       Symbol       Value       Unit       Item       Symbol       Value       Item       Symbol       Value       Unit       Item       Symbol       Value       Item	Water-to-water heat pump:		No		Controller class:	1	-	
Equipped with a supplementary heater: No Package efficiency class:	Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
No       No         Parameters shall be declared for medium-temperature application.       Second parameters shall be declared for low-temperature application.         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output (*)       Proted       9       kW       Seasonal space heating energy efficiency $n_s$ 162         Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j       Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j       Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 0 #h       8,1       kW       T j = -7 °C       COPH       4,41         T j = -7 °C       Pdh       8,1       kW       T j = +2 °C       COPH       4,30       4,17         T j = 12 °C       Pdh       8,1       kW       T j = +2 °C       COPH       4,58         T j = +1 2°C       Pdh       8,2       kW       T j = +12 °C       COPH       4,58         T j = -15 °C (If TOL < -20 °C)	Low-temperature heat pump:		No		Package efficiency:	<b>163</b>	%	
Parameters shall be declared for modulm-temperature application, except for low-temperature heat pumps. Parameters shall be declared for low-temperature application. Team Symbol Value Unit tem Symbol Value I Rated heat output (*) Proted 9 kW Proted 9 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j T = - 7 °C Pdh 8,1 KW T = - 7 °C COPd 4,30 T = - 7 °C COPd 4,31 T = - 7 °C COPd 4,32 T = - 7 °C COPd 4,58 T = - 5 °C (if T OL < - 20 °C) Pdh na kW T = - 15 °C (if T OL < - 20 °C) Pdh na kW For air-to-water heat pumps: T = - 15 °C (if T OL < - 20 °C) Pdh na kW Power consumption in modes other than active mode Power consumption in modes other than active mode Power consumption in modes other than active mode Power lowel, indoors/ L wA 46/na dB Annual energy onsumption Parce Capacity control L wA 46/na dB Annual energy onsumption Q <sub>HE</sub> 5009 kWh Parce for air-to-water heat pumps: Rated air flow rate, outdoor s - na Fixed air flow rate, outdoor s - na Parce romound on heater: Declared load profile na Parce na Water heating energy nue energy nue Parce nosumption Qelec na KWh Annual fuel consumption Qruel NA Annual fuel consumption AFC NA	Equipped with a supplementa	ry heater:	No		Package efficiency class:		-	
parameters shall be declared for low-temperature application.tremSymbolValueUnittemSymbolValueValueRated heat output (*) $Proted$ 9kWSeasonal space heating energy efficiency $n_s$ 162Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1Declared coefficient of performance or primary energy ratio for load at indoor temperature 20 °C and part load at indoor temperature 20 °C and part 1 = -7 °C C COPdDeclared coefficient of performance or primary energy ratio for data indoor temperature COPd dataT j = -7 °C part no imit t = + 12 °C t j = + 12 °C part no imit t = + 12 °C t j = part comperativeNuT j = -7 °C t = -7 °C C COPdCOPd dataT j = -7 °C t j = + 12 °C t j = + 12 °C t j = + 12 °C t j = -7 °C t j = + 12 °CPart t = + 12 °C C COPdA,30 t = + 12 °C t = + 12 °CT j = -7 °C t = + 12 °C t = + 12 °CCOPd t dataT j = -12 °C (if TOL < - 20 °C) t memberaturePart t = + 12 °CPart t = + 12 °CCOPd t dataFor air-to-water heat pumps: t mater and the modePart t = + 12 °CCOPd t mater t = + 12 °CnaBivalent temperatureT biw t = -15 °C (if TOL < - 20 °C)								
teemSymbolValueUnittemSymbolValueValueRated heat output (*)Proted9kWSeasonal space heating energyn <sub>5</sub> 162Declared capacity for heating for part load at indoor temperature 20 °C andDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperatureT ] = -7 °CPdh8,1KWT ] = -7 °CCOPd4,41T ] = -7 °CPdh8,1KWT ] = -7 °CCOPd4,43T ] = -7 °CPdh8,1KWT ] = -7 °CCOPd4,43T ] = -7 °CPdh8,1KWT ] = -7 °CCOPd4,58T ] = -7 °CPdh8,1KWT ] = -7 °CCOPd4,58T ] = -7 °CPdh8,2KWT ] = -12 °CCOPd4,58T ] = obvalent temperaturePdh8,2KWT ] = operation limit temperatureCOPd4,58T ] = -15 °C (if TOL < -0 °C)PdhnaKWT ] = operation limit temperatureCOPdnaBivalent temperatureT biv-20°C°CPdhSaSaBivalent temperatureT biv-20°C°CnaBivalent temperatureT biv-20°C°CnaBivalent temperatureT biv-20°C <td></td> <td></td> <td></td> <td>ion, except for</td> <td>r low-temperature heat pumps. For</td> <td>low- tempera</td> <td>ture heat pu</td> <td>mps,</td>				ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Rated heat output (*)       Proted       9       kW         Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and 0.10 °C and 2.58         T j = + 12 °C       Pdh       8,2       kW         T j = operation limit temperature       Pdh       8,2       kW         T j = -15 °C (if TOL < -20 °C)	•							
Name has output (*)Protect9KWefficiency $\Pi_5$ $102$ Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 1 $T_1 = -7^{\circ}$ Pdh $\overline{8,1}$ kW $T_1 = -7^{\circ}$ CCOPd $4.41$ $T_1 = +2^{\circ}$ Pdh $\overline{8,1}$ kW $T_1 = -7^{\circ}$ CCOPd $4.41$ $T_1 = +2^{\circ}$ Pdh $\overline{8,1}$ kW $T_1 = +7^{\circ}$ CCOPd $4.53$ $T_1 = +12^{\circ}$ CPdh $\overline{8,2}$ kW $T_1 = +12^{\circ}$ CCOPd $4.58$ $T_1 = 15^{\circ}$ C (fTOL < -20^{\circ})	Item	Symbol	Value	Unit		Symbol	Value	Unit
autoor temperature T jT j = - 7 °CPdh8,1kWT j = -7 °CC OPd4,41T j = - 7 °CPdh8,1kWT j = + 2 °CC OPd4,41T j = + 7 °CPdh8,1kWT j = + 7 °CC OPd4,23T j = + 12 °CPdh8,1kWT j = + 7 °CC OPd4,23T j = + 12 °CPdh8,1kWT j = + 12 °CC OPd4,23T j = + 12 °CPdh8,2kWT j = - 15 °CG OPd4,58T j = oparation limit temperaturePdh8,2kWT j = oparation limit temperatureC OPd4,58T j = - 15 °C (if TOL < - 20 °C)	Rated heat output (*)	Prated	9	kW		η <sub>s</sub>	<b>162</b>	%
T j = + 2 °CPdh8,1kWT j = +2 °CCOPd4,30T j = + 12 °CPdh8,1kWT j = +7 °CCOPd4,23T j = + 12 °CPdh8,1kWT j = +7 °CCOPd4,23T j = + 12 °CPdh8,1kWT j = +12 °CCOPd4,32T j = poration limitPdh8,2kWT j = operation limitCOPd4,58For air-to-water heat pumps:Pdh8,2kWT j = operation limitCOPd4,58For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPdnaBivalent temperatureT biv-20°C°CPor air-to-water heat pumps:TOLnaCycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcvnaDegradation co-efficientCdh0,99-Heating water operating limit temperatureWTOL65Power consumption in modes other than active modeSupplementary heater Rated heat outputPsup0,5IOther itemsCapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-naCapacity controlFixedS009kWhFor air-to-water heat pumps: Rated birie or water flow rate, outdoors-naCapacity controlFixedS009kWhAnnual energy extra pump combination heater:-1,9nDeclared load profilenaWater heating energy					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
$ \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	8,1	kW	T j = – 7 °C	COPd	4,41	] -
T j = + 12 °CPdh8,1kWT j = +12 °CCOPd4,17T j = bivalent temperaturePdh8,2kWT j = bivalent temperatureCOPd4,58T j = operation limit temperaturePdh8,2kWT j = operation limit temperatureCOPd4,58For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)		Pdh						] -
F j = bivalent temperaturePdh8,2kWT j = bivalent temperatureCOPd4,58T j = operation limit temperaturePdh8,2kWT j = operation limit temperatureCOPd4,58For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Г ј = + 7 °С	Pdh	8,1	kW	T j = +7 °C	COPd	4,23	- 1
T j = operation limit temperaturePdh8,2kWT j = operation limit temperatureCOPd4,58For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	Г ј = + 12 °С	Pdh	8,1	kW	T j = +12 °C	COPd	4,17	-
temperaturePah8,2KWtemperatureCOPa4,58For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	Γ j = bivalent temperature	Pdh	8,2	kW	T j = bivalent temperature	COPd	4,58	-
T j = - 15 °C (if TOL < - 20 °C)PannakWT j = - 15 °C (if TOL < - 20 °C)CDPanaBivalent temperatureT biv-20°C°CFor air-to-water heat pumps: Operation limit temperatureTOLnaBivalent temperatureT biv-20°C°CPoperation limit temperatureTOLnaCycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycnaDegradation co-efficientCdh0,99-Heating water operating limit temperatureWTOL65Power consumption in modes other than active mode0,007kWSupplementary heaterRated heat outputPsup0,5IIOff modeP orr0,013kWType of energy inputElectricIIIIIIIIIIIIICapacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-narrSound power level, indoors/ outdoorsL wA46/nadBIII ow rate, outdoors-narrFor heat pump combination heater:TonakWhMater heating energy efficiencyNwhnaIII ow nakDealiy electricity consumptionQelecnakWhAnnual fuel consumptionQfuelNAk		Pdh	8,2	kW		COPd	4,58	] -
Bivalent temperature       I       biv       -20       -C       Operation limit temperature       IOL       na         Cycling interval capacity for heating       P cych       na       kW       Cycling interval efficiency       COPcyc       na         Degradation co-efficient       Cdh       0,99       -       Heating water operating limit temperature       WTOL       65         Power consumption in modes other than active mode       Supplementary heater       Rated heat output       Psup       0,5       I         Off mode       P orr       0,007       kW       KW       Type of energy input       Electric         Standby mode       P se       0,007       kW       Type of energy input       Electric         Capacity control       Fixed       For air-to-water heat pumps: rated or or water flow rate, outdoors       -       na       rr         Sound power level, indoors/       L wA       46/na       dB       flow rate, outdoor heat       -       1,9       rr         For heat pump combination heater:       Declared load profile       na       WM       Annual energy       na       kWh       Daily fuel consumption       Qfruel       NA       k         Daily electricity consumption       Qelec       na       kWh       An		Pdh	na	kW		COPd	na	-
Peating       P cych       na       kW       Cycling interval efficiency       COPcyc       na         Degradation co-efficient       Cdh       0,99       -       Heating water operating limit temperature       WTOL       65         Power consumption in modes other than active mode       Supplementary heater       Supplementary heater       65         Power consumption in modes other than active mode       0,007       kW       Rated heat output       Psup       0,5       1         Off mode       P or       0,0013       kW       Type of energy input       Electric       1         Standby mode       P ss       0,000       kW       Type of energy input       Electric       1         Capacity control       Fixed       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       na       n         Sound power level, indoors/       L wA       46/na       dB       MWh       For water-/brine-to-water heat pumps: Rated air flow rate, outdoors       -       1,9       n         Annual energy consumption       Q HE       5009       kWh       Water heating energy       1,9       n         Declared load profile       na       KWh       Daily fuel consumption       Qfuel       NA       k	Bivalent temperature	T <sub>biv</sub>	-20	°C		TOL	na	°C
Degradation co-efficient     Cah     0,99     -     temperature     WIOL     65       Power consumption in modes other than active mode     Supplementary heater     Supplementary heater       Off mode     P orf     0,007     kW       Thermostat-off mode     P ro     0,013     kW       Standby mode     P ss     0,007     kW       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       Sound power level, indoors/     L wA     46/na     dB     flow rate, outdoors     -     na       Annual energy consumption     Q HE     5009     kWh     State dair flow rate, outdoors     -     1,9     m       For heat pump combination heater:     Declared load profile     na     kWh     Mater heating energy     n <sub>lwn</sub> na       Daily electricity consumption     Qelec     na     kWh     Annual fuel consumption     Qfuel     NA     k		P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	- 1
Off mode $P_{orF}$ $0,007$ $kW$ Rated heat output $Psup$ $0,5$ $M$ Thermostat-off mode $P_{TO}$ $0,013$ $kW$ Type of energy input $Electric$ $Electric$ Standby mode $P_{SB}$ $0,007$ $kW$ Type of energy input $Electric$ $Electric$ Crankcase heater mode $P_{CK}$ $0,000$ $kW$ $Type of energy input$ $Electric$ Other items $Capacity control$ $Fixed$ $For air-to-water heat pumps:Rated air flow rate, outdoorsnanaSound power level, indoors/outdoorsL_{WA}46/nadBS009kWhFor water-/brine-to-water heatpumps: Rated brine or waterflow rate, outdoor heatexchangernanaFor heat pump combination heater:Declared load profilenakWhDaily fuel consumptionQ_{fuel}NADaily electricity consumptionQelecnakWhDaily fuel consumptionQfuelNA$	Degradation co-efficient	Cdh	0,99	] .		WTOL	65	°C
Thermostat-off mode $P_{TO}$ $0,013$ $kW$ Standby mode $P_{SB}$ $0,007$ $kW$ 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         Capacity control $Fixed$ For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors       -       na $rr$ Sound power level, indoors/ $L_{WA}$ 46/na $dB$ For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       1,9 $rr$ Annual energy consumption $Q_{HE}$ 5009 $kWh$ Water heating energy $n_{wh}$ na         Declared load profile       na       kWh       Daily fuel consumption $Q_{fuel}$ NA       k         Annual electricity consumption       AEC       na       kWh       Annual fuel consumption       AFC       NA	Power consumption in modes	other than active	mode	_	Supplementary heater			
Standby mode       P 58       0,007       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       nr         Sound power level, indoors/ boutdoors       L WA       46/na       dB       power-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       1,9       nr         Annual energy consumption       Q HE       5009       kWh       Water heating energy       -       1,9       nr         Declared load profile       na       kWh       Daily fuel consumption       Qfuel       NA       k         Annual electricity consumption       AEC       na       kWh       Annual fuel consumption       AFC       NA       k	Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output	Psup	0,5	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 air-to-water heat pumps: Rated air flow rate, outdoors       -       na       n         Sound power level, indoors/ boutdoors       L WA       46/na       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       1,9       n         For heat pump combination heater:       Declared load profile       na       KWh       Water heating energy efficiency       n_wh       na         Daily electricity consumption       Qelec       na       kWh       Daily fuel consumption       Qfuel       NA       k         Annual electricity       AEC       na       kWh       Annual fuel consumption       AFC       NA       k	Thermostat-off mode	Р <sub>то</sub>	0,013	kW				
Crankcase heater mode $P_{CK}$ $0,000$ kW         Other items       -       na       r         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       na       rr         Sound power level, indoors/ boutdoors $L_{WA}$ 46/na       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       1,9       rr         Annual energy consumption $Q_{HE}$ 5009       kWh       exchanger       -       1,9       rr         For heat pump combination heater:       -       -       1,9       rr         Declared load profile       na       kWh       Daily fuel consumption $Q_{fuel}$ NA       k         Annual electricity consumption       AEC       na       kWh       Annual fuel consumption       AFC       NA       k	Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric	
Other items       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       na       na       na         Sound power level, indoors/ outdoors       L WA       46/na       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       na       nr         Annual energy consumption       Q HE       5009       kWh       exchanger       1,9       nr         For heat pump combination heater:       Mater heating energy efficiency       nu       na       Mater heating energy efficiency       na       kWh         Daily electricity consumption       Qelec       na       kWh       Daily fuel consumption       Qfuel       NA       k         Annual electricity consumption       AEC       na       kWh       Annual fuel consumption       AFC       NA       k				kW				
Capacity control       Fixed       Rated air flow rate, outdoors       na       ma       ma <thma< th=""> <thma< th=""> <thma< th=""></thma<></thma<></thma<>	Other items				1			
outdoors     L     WA     46/na     dB     pumps: Rated brine or water flow rate, outdoor heat       Annual energy consumption     Q     For heat pump combination heater:     -     1,9     nr       Declared load profile     na     Water heating energy efficiency     Nwh     na       Daily electricity consumption     Qelec     na     kWh     Daily fuel consumption     Qfuel     NA     k       Annual electricity consumption     AEC     na     kWh     Annual fuel consumption     AFC     NA     k	Capacity control	Fixed				-	na	m3/h
Annual energy consumption     Q HE     5009     kWn     exchanger     -     1,9     m       For heat pump combination heater:		L <sub>WA</sub>	46/na	dB				
For heat pump combination heater:       Water heating energy efficiency       Nwh       na         Declared load profile       na       kWh       Daily fuel consumption       Qfuel       NA       k         Daily electricity consumption       Qelec       na       kWh       Daily fuel consumption       Qfuel       NA       k         Annual electricity consumption       AEC       na       kWh       Annual fuel consumption       AFC       NA       k	Annual energy consumption	Q <sub>HE</sub>	5009	kWh		-	1,9	m3/h
Declared load profile     na     efficiency     Iwh     na       Daily electricity consumption     Qelec     na     kWh     Daily fuel consumption     Qfuel     NA     k       Annual electricity consumption     AEC     na     kWh     Annual fuel consumption     AFC     NA	For heat pump combination h	eater:						
Annual electricity AEC na kWh Annual fuel consumption AFC NA	Declared load profile	na			$\eta_{wh}$	na	%	
consumption AFC NA	, , ,	Qelec	na	kWh	Daily fuel consumption	Qfuel	NA	kWh
		AEC						GJ
The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At 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 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 importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis of the product as household waste is not permitted.			end of the product' importance that the	's life cycle, it must e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great
	Contact details	CTC AB. Näsväge						231218