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



Warm climate and Medium	temperature				Ljungby		<u> </u>
Model(s):		CTC EcoPart 41	2 + 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:	141	%	
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 fo	-		11		Gunshal	Malua	11
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	efficiency	η <sub>s</sub>	137	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
T j = – 7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] - [
T j = + 2 °C	Pdh	13,6	kW	T j = +2 °C	COPd	3,08	] -
T j = + 7 °C	Pdh	11,1	kW	T j = +7 °C	COPd	3,45	- [
T j = + 12 °C	Pdh	11,5	kW	T j = +12 °C	COPd	4,14	- 1
T j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,18	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	- 1
· For air-to-water heat pumps: T j = − 15 °C (if TOL < − 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	Р <sub>то</sub>	0,005	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4364	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h
For heat pump combination hea	ater:						
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus 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 nermitted	er offering a servic	e of that type. t	is of great
		or the product as ho	JUSEDUID WASTE IS				

#### 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 41	2 + 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:	184	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater		No					
			ion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo			Unit	lton	Symbol	Value	Unit
Item	Symbol	Value		Item Seasonal space heating energy	Symbol	value	Unit
Rated heat output (*)	Prated	13	kW	efficiency	η <sub>s</sub>	180	%
Declared capacity for heating fo outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
T j = − 7 °C	Pdh	na	kW	T i = − 7 °C	COPd	na	] -
T j = + 2 °C	Pdh	11,8	kW	T j = +2 °C	COPd	4,60	1.
Г ј = + 7 °С	Pdh	11,9	kW	T j = +7 °C	COPd	4,83	] -
T j = + 12 °C	Pdh	12,0	kW	T j = +12 °C	COPd	5,11	-
T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,68	] -
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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 o	ther than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,022	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/h
L Sound power level, indoors/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3618	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination hea	ater:						
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product' importance that the	s life cycle, it mus e product's refrige	a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic pat pagnitud	er offering a servic	e of that type. t	is of great
Contact details (		of the product as he n 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	um temperatur	e			Ljungby		
Model(s):		CTC EcoPart 41	2 + CTC EcoLo	gic			
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	142	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:	A++	-	
Heat pump combination heate		No					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	138	%
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			
T j = – 7 °C	Pdh	11	kW	T j = − 7 °C	COPd	3,25	] - [
т ј = + 2 °С	Pdh	11,2	kW	T j = +2 °C	COPd	3,64	] -
T j = + 7 °C	Pdh	11,4	kW	T j = +7 °C	COPd	4,02	-
T j = + 12 °C	Pdh	11,6	kW	T j = +12 °C	COPd	4,40	-
T j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = $-15$ °C (if TOL < $-20$ °C)	COPd	na	-
Bivalent temperature	T <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	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
Thermostat-off mode	P <sub>TO</sub>	0,005	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	7084	kWh	flow rate, outdoor heat exchanger	-	2,1	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 eng t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic not nermitted	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218
	2. 2. 2) Hastage						

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



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 41	L2 + 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:	186	%	
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	nture heat pu	ımps,
parameters shall be declared for	-						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	182	%
Declared capacity for heating for outdoor temperature T j	or part load at ir	idoor temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature	•		
T j = – 7 °C	Pdh	11,8	kW	T j = − 7 °C	COPd	4,69	] -
T j = + 2 °C	Pdh	11,9	kW	T j = +2 °C	COPd	4,88	- [
T j = + 7 °C	Pdh	12,0	kW	T j = +7 °C	COPd	5,06	-
T j = + 12 °C	Pdh	12,1	kW	T j = +12 °C	COPd	5,23	-
T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,69	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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	- 1
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	-	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,6	kW
Thermostat-off mode	Р <sub>то</sub>	0,022	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
L Sound power level, indoors/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5814	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/l
For heat pump combination he	ater:						_
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
consumption Specific precautions and end of life information:		The packaging mus end of the product	t be deposited at a '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	neer for correct we er offering a servio	vaste manageme ce of that type. t	nt. At th is of gre

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



Model(s): Air-to-water heat pump: Water-to-water heat pump:		CTC EcoPart 41	12 + CTC EcoLo	-			
Water-to-water heat pump:		No					
· · ·		NO		Energy efficiency class:		-	
		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	145	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater	:	No					
			tion, except fo	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	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	141	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	11,2	kW	T j = − 7 °C	COPd	3,56	] -
Г ј = + 2 °С	Pdh	11,4	kW	T j = +2 °C	COPd	3,94	1 -
г ј = + 7 °С	Pdh	11,6	kW	T j = +7 °C	COPd	4,29	] -
j = + 12 °C	Pdh	11,7	kW	T j = +12 °C	COPd	4,54	] -
ī j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	- [
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	] -
For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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 o	ther than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,4	kW
hermostat-off mode	<b>Р</b> <sub>то</sub>	0,005	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/
L Sound power level, indoors/ putdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	8195	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/I
or heat pump combination hea	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	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 engine t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic pat pormitted	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 Low temperature**



Cold climate and Low tempe	erature				Ljungby		
Model(s):		CTC EcoPart 41	2 + 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:	189	%	
Equipped with a supplementary	y 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	lt	C. mahal	Value	11
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	efficiency	η <sub>s</sub>	185	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
T j = − 7 °C	Pdh	11,9	kW	T j = − 7 °C	COPd	4,89	] -
T j = + 2 °C	Pdh	12,0	kW	T j = +2 °C	COPd	5,06	] -
T j = + 7 °C	Pdh	12,1	kW	T j = +7 °C	COPd	5,18	-
T j = + 12 °C	Pdh	12,1	kW	T j = +12 °C	COPd	5,20	-
T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,66	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-20	°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 c	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>	0,022	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/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6373	kWh	flow rate, outdoor heat exchanger	-	2,6	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 importance that the	s life cycle, it must	a recycling station or with the installation enging t be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic	er offering a service	e of that type. t i	s of great
		of the product as ho	unahal-l	not normalitied			

#### 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 41	L2 + CTC EcoZe	enith i360/ 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:	141	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	137	%
Declared capacity for heating for heating for the second sec	or part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature			
「j=−7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
Г ј = + 2 °С	Pdh	13,6	kW	T j = +2 °C	COPd	3,08	1.
г ј = + 7 °С	Pdh	11,1	kW	T j = +7 °C	COPd	3,45	] -
Г ј = + 12 °С	Pdh	11,5	kW	T j = +12 °C	COPd	4,14	] -
Г ј = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,18	- [
Γ j = operation limit	Pdh		kW	T j = operation limit	COPd		1
temperature	Pull	na	ĸvv	temperature	COPa	na	1
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 of	other than active	mode	_	Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,5	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,005	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/
Sound power level, indoors/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4364	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/
For heat pump combination he	ater:	•		, , , , , , , , , , , , , , , , , , ,			•
Declared load profile/		XL/A		Water heating energy	n	100	0/
nergy efficiency class		AL / A		efficiency	$\eta_{wh}$	100	%
Daily electricity consumption	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1676	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 engi 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 grea

### Information for heat pump space heaters and heat pump combination heaters



Warm climate and Low tem	perature				Ljungby		
Model(s):		CTC EcoPart 41	2 + CTC EcoZe	enith i360/ 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:	184	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
			ion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo			11	lton	Sumbol	Value	ا ما
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Uni
Rated heat output (*)	Prated	13	kW	efficiency	η <sub>s</sub>	180	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	idoor temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Γ j = − 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	] -
∫ j = + 2 °C	Pdh	11,8	kW	T j = +2 °C	COPd	4,60	1 -
г ј = + 7 °С	Pdh	11,9	kW	T j = +7 °C	COPd	4,83	] -
Г ј = + 12 °С	Pdh	12,0	kW	T j = +12 °C	COPd	5,11	] -
Γ j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,68	-
i = operation limit	Pdh	na	kW	T j = operation limit	COPd	na	1.
emperature	run	lid	KVV	temperature	COFU	na	
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	na	-
Bivalent temperature	T <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
ower consumption in modes o	ther than active	e mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	kW
hermostat-off mode	Р <sub>то</sub>	0,022	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/ putdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3618	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/
or heat pump combination hea	ater:						
Declared load profile/		XL/A		Water heating energy	η <sub>wh</sub>	100	%
nergy efficiency class				efficiency	• IWN		
Daily electricity consumption	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kWl
Annual electricity consumption	AEC	1676	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 engi t be sent correctly to a waste station or resell- erant, compressor oil and electrical/electronic not permitted	er offering a servic	e of that type. t	is of grea
Contact details (		of the product as he of 8, SE-341 34 Lj					23121

#### 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 41	2 + CTC EcoZe	enith i360/ 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	%	
ow-temperature heat pump:		No		Package efficiency:	142	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heate	r:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	imps,
parameters shall be declared for							
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	138	%
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 perform part load at indoor temperature			
Г ј = — 7 °С	Pdh	11	kW	T j = − 7 °C	COPd	3,25	<b>]</b> -
гј = + 2 °С	Pdh	11,2	kW	T j = +2 °C	COPd	3,64	1.
г ј = + 7 °С	Pdh	11,4	kW	T j = +7 °C	COPd	4,02	] -
Г ј = + 12 °С	Pdh	11,6	kW	T j = +12 °C	COPd	4,40	1 -
ī j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	1 -
Γ j = operation limit	0.46		1.1.4.4	T j = operation limit			1
emperature	Pdh	na	kW	temperature	COPd	na	1 <sup>-</sup>
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	0,99	-	Heating water operating limit temperature	WTOL	65	°c
Power consumption in modes of	other than active	mode	•	Supplementary heater			•
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
hermostat-off mode	Р <sub>то</sub>	0,005	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/ butdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	7084	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/
or heat pump combination he	ater:						·
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
nergy efficiency class			1	efficiency	' Iwh	100	70
Daily electricity consumption	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1676	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 to a waste station or reselled 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 Average climate and Low temperature



Rated heat output (*)Prated13kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jSeasonal space heating energy efficiency $n_5$ 182%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 20 °C and $1j = + 2^{\circ}$ °CDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature $T = -7^{\circ}$ °CCOPd4,69T $j = +7^{\circ}$ °CPdh11,8kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +2^{\circ}$ °CPdh12,1kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +12^{\circ}$ °CPdh11,8kWT $j = -7^{\circ}$ °CCOPd4,69T $j = +12^{\circ}$ °CPdhnakWT $j = -7^{\circ}$ °CCOPd6,69T $j = +12^{\circ}$ °CPdhnakWT $j = -7^{\circ}$ °CCOPdnaT $j = -15^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)PdhnakWT $j = -5^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)COPdnaBivalent temperatureT $_{Biv}$ -7°C°CPor air-to-water heat pumps: T $j = -15^{\circ}$ °C (f TOL $< -20^{\circ}$ °C)COPdnaPower consumption in modes other than active mode0,018kWVWFor air-to-water heat pumps: Rated heat outputPsup1,6Off modeP $_{ov}$ 0,022kWNWPsup1,6kWCapacity controlFixedSa14kWhFor air-	Average climate and Low	temperature				Ljungby		<u> </u>	
Water-to-water heat pump:       No       Controller class:       VI       -         Brine-to-water heat pump:       No       Package efficiency       186       %         Equipped with a supplementary heater:       Yes       Package efficiency       186       %         Faurance in solution interaction heater:       Yes       Package efficiency       186       %         Faurance inters shall be declared for modum temperature application.       No       No       No       No         Rated heat output (*)       Protect       13       KW       Item       Symbol       Value       Unit         Rated heat output (*)       Protect       13       KW       Item       Symbol       Value       Unit         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Item (Symbol       Value       Unit       Item (Symbol       Value       Unit       Item (Symbol       Value       Unit         Item (Symbol       Value       Unit       Item (Symbol       Value       Unit       Item (Symbol       Value       Unit         Item (Symbol       Value       Unit       Item (Symbol       Value       Unit       Item (Symbol       Value	Model(s):		CTC EcoPart 41	.2 + CTC EcoZe	enith i360/ i360F				
Brine-to-water heat pump:       Yes       Controller contribution:       3,5       %         Low-temperature heat pump:       No       Package efficiency:       166       %         Equipoed with a supplementary heater:       Yes       Package efficiency class:       A+++       -         Heat pump combination heater:       Yes       Package efficiency class:       A+++       -         Parameters shall be declared for witemperature application.       Yes       Symbol       Value       Unit         Rate heat output (*)       Proted       13       kW       Seasonal space heating energy       ng       1822       %         Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 J       Image: temperature for part load at indoor temperature 20 °C and outdoor temperature 7 J       19 = - 7°C       Pdh       11,8       kW       Tj = - 7°C       COPd       4,69       -	Air-to-water heat pump:		No		Energy efficiency class:	A+++	-		
Low-temperature heat pumpe:         No         Package efficiency         186         %           Equipped with a supplementary heater:         Yes         Package efficiency class:         A++         -           Parameters shall be declared for medium-temperature application.         The parameters shall be declared for medium-temperature application.         Item         Symbol         Value         Unit           Rated heat output (*)         Protect         13         KW         Second space heating energy         ng         1822         %           Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1         Item         Symbol         Value         Unit           T = - 7 °C         Pdh         11.8         WW         Ti = - 7 °C         COPd         4,88         -           T = + 7 °C         Pdh         11.9         WW         Ti = + 2 °C         COPd         4,69         -           T = + 7 °C         Pdh         11,9         WW         Ti = + 2 °C         COPd         4,69         -           T = + 7 °C         Pdh         11,8         WW         Ti = + 2 °C         COPd         5,26         -           T = + 12 °C         Pdh         na         KW         Ti = + 2 °C         COPd         na<	Water-to-water heat pump:		No		Controller class:	VII	-		
Equipped with a supplementary heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for medium-temperature application. Heat for low-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for medium-temperature application, except for low-temperature for low-temperature application, except for low-temperature application, except for low-temperature application, except for low-temperature beat pumps, parameters shall be declared for medium-temperature approximation temperature approximation temperature application, except for low-temperature application, except for low-temperature application, except for low-temperature application, except for low and the door temperature application temperature application, except for low and the door temperature application temperature application temperature application in temperature application in temperature application in temperature application application in temperature application in tempera	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%		
Heat pump combination heater:       Yes         Parameters shall be declared for medum-temperature application.       Item       Symbol       Value       Unit         Rated heat output (*)       Proted       13       kW       Item       Symbol       Value       Unit         T = - 7 C       Pdh       11,8       kW       T = - 7 C       COPd       4,69       -         T = - 7 C       Pdh       11,8       kW       T = - 7 C       COPd       4,69       -         T = + 12 °C       Pdh       12,0       kW       T = - 7 °C       COPd       4,69       -         T = operation limit       Pdh       12,0       kW       T = + 12 °C       COPd       5,66       -         T = operation limit       Pdh       na       kW       T = + 12 °C       COPd       na       -         For air-to-water heat pumps:       r = - 7 °C       Pdh       na       -	Low-temperature heat pump		No		Package efficiency:	186	%		
Parameters shall be declared for low-temperature application.         tem       Symbol       Value       Unit       Value       Value       Value       Value       Value       Value <th colspa<="" td=""><td>Equipped with a supplementa</td><td>ary heater:</td><td>Yes</td><td></td><td>Package efficiency class:</td><td>A+++</td><td>-</td><td></td></th>	<td>Equipped with a supplementa</td> <td>ary heater:</td> <td>Yes</td> <td></td> <td>Package efficiency class:</td> <td>A+++</td> <td>-</td> <td></td>	Equipped with a supplementa	ary heater:	Yes		Package efficiency class:	A+++	-	
parameters shall be declared for low-temperature application. <b>Item Symbol Value Unit Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy ns Item Symbol Value Unit Seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit dual at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit of the seasonal Space heating energy nato for part load at indoor temperature 20 'C and Unit temperature 20 'C and Unit 11,9 KW Ti = 7 'C C COPd 4,88 - 1,9 'C C OPd 4,88 - 1,9 'C C OPd 5,23 - 2 'C C OPd 4,88 - 1,9 'C C OPd 4,69 - 1,1 'F 'C C COPd 5,23 - 2 'C C OPd 4,69 - 1,1 'F 'C C COPd 4,69 - 2 'C 'C C OPd 1,1 'F 'C 'C 'C C OPd 1,1 'F 'C </b>									
ItemSymbolValueUnitItemSymbolValueUnitRated heat output (*) $Prated$ 13kWSeasonal space heating energy $n_s$ 1829xDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j $T = -7^{\circ}C$ $Pdh$ $T = -7^{\circ}C$ $COPd$ $4.69$ $-4.69$ $-7.7^{\circ}C$ $COPd$ $4.69$ $-7.7^{\circ}C$ $COPd$ $7.6^{\circ}C$ $-7.7^{\circ}C$ $COPd$ $7.6^{\circ}COPd$ $7.6^{\circ}CO$				ion, except fo	r low-temperature heat pumps. For	<sup>-</sup> low- tempera	ture heat pu	mps,	
Rate deat output (*)Proted13kWDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T iSeasonal space heating energy efficiency $n_s$ 182%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T iDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C	·	-							
Rate near output (*)Protect1.3KWDeclared 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 20 *C and outdoor temperature 20 *C and part load at indoor temperature 20 *C and outdoor temperature 20 *C and part load at indoor temperature 20 *C and outdoor temperature 1 = - 7*CT = - 7*CPdh11,8KWT = + 7*CPdh12,0KWT = + 7*CPdh12,0KWT = + 7*CPdh11,8KWT = + 7*CPdh11,8KWT = + 2*CPdh11,8KWT = + 2*CPdhnaKWT = - stricto-water temperaturePdhnaT = - stricto-water heat pumps: t = - 15*C (If TOL < - 20*C)	Item	Symbol	Value	Unit			Value	Unit	
outdoor temperature T j $T   = -7^{\circ}C$ Pdh11.8KW $T   = -7^{\circ}C$ Pdh11.9KW $T   = -7^{\circ}C$ Pdh11.9KW $T   = +2^{\circ}C$ Pdh12.1KW $T   = +2^{\circ}C$ COPd4.69 $T   = +2^{\circ}C$ Pdh12.1KW $T   = +2^{\circ}C$ COPd5.23 $T   = +2^{\circ}C$ COPd4.69 $T   = +2^{\circ}C$ COPd4.69 $T   = +2^{\circ}C$ COPd5.23 $T   = +2^{\circ}C$ COPd4.69 $T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $P dh$ naKW $T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ Pdh $R v   T   = -15^{\circ}C (f TOL < -20^{\circ}C)$ ParePereckal v   T   = 0, 0, 018KWPereckal v   T   = 0, 0, 012KWPereckal v   T   = 0, 0, 012KWPor	Rated heat output (*)	Prated	13	kW		n <sub>s</sub>	182	%	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		for part load at in	door temperatu	re 20 °C and	-				
T j = + 7 °CPdh12,0kWT j = +7 °CCOPd5,06T j = + 12 °CPdh12,1kWT j = +12 °CCOPd5,23-T j = bivalent temperaturePdh11,8kWT j = bivalent temperatureCOPd4,69-T j = operation limit temperaturePdhnakWT j = operation limit temperatureCOPdna-For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = – 7 °C	Pdh	11,8	kW	T j = – 7 °C	COPd	4,69	<b>]</b> -	
T j = + 7 °CPdh12,0kWT j = +7 °CCOPd5,06T j = + 12 °CPdh12,1kWT j = +12 °CCOPd5,23-T j = byalent temperaturePdh11,8kWT j = byalent temperatureCOPd4,69-T j = operation limitPdhnakWT j = operation limitCOPdna-For air-to-water heat pumps:PdhnakWT j = operation limitCOPdna-For air-to-water heat pumps:PdhnakWT j = -15 °C (if TOL < -20 °C)		Pdh				COPd	-	- 1	
Tj = bivalent temperaturePdh11,8kWTj = bivalent temperatureCOPd4,69Tj = operation limit temperaturePdhnakWTj = operation limit temperatureTj = operation limit temperatureCOPdna-For air-to-water heat pumps: TTPdhnakWFor air-to-water heat pumps: TCOPdna-Bivalent temperatureTbiv-7rCFor air-to-water heat pumps: Operation limit temperatureTOLna-Cycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,98For air-to-water heat pumps: Operation limit temperatureTOLna-Power consumption in modes other than active mode0,018kWKWSupplementary heater Rated heat outputPsup1,6kWType of energy inputElectricSupplementary heater for air-to-water heat pumps: Rated air flow rate, outdoorsnam3Gapacity controlFixed5814kWhFor air-to-water heat pumps: Rated brine or water flow rate, outdoorsnam3For heat pump combination heater:DPourse: Aled brine or water flow rate, outdoorsnam3Daily electricity consumptionQelec7,619kWhAnnual fleel consumptionQfuelnaDaily electricity consumptionAEC1676KWhAnnu	T j = + 7 °C	Pdh	12,0	kW	T j = +7 °C	COPd	5,06	- [	
T j = operation limit temperature $Pdh$ na $KW$ T j = operation limit temperature $COPd$ naFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = + 12 °C	Pdh	12,1	kW	T j = +12 °C	COPd	5,23	-	
temperaturePannaKWtemperatureCDPanaFor air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,69	-	
T j = -15 °C (if TOL < - 20 °C)PannaKWT j = -15 °C (if TOL < -20 °C)COPanaBivalent temperatureT $_{biv}$ -7°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CCycling interval capacity for heating $P_{cych}$ nakWCycling interval efficiencyCOPcycna~Degradation co-efficientCdh0,98-Heating water operating limit temperatureWTOL65°CPower consumption in modes other than active mode0,018kWKWSupplementary heaterRated heat outputPsup1,6kWType of energy inputElectricSupplementary heaterRated air flow rate, outdoorsnam3Capacity controlFixedSol/nadBFor air-to-water heat pumps: nanam3Sound power level, indoors/ outdoorsL_WASO/nadBFor water/brine-to-water heat pumps: Rated air flow rate, outdoorsnam3For heat pump combination heater:Declared load profile/ Energy efficiency classXL / AWater heating energy efficiencynaMADaily electricity consumptionAEC1676kWhAnnual fuel consumptionAFCnaAnnual be deposited at a recycling station or with the installation engineer for correct water wate management. At the end of the product sile cycling station or with the installation engineer for correct water management. At the end of the product sile cycle, it must be send or correct yo to a waste station or realer defficing a service of tat		Pdh	na	kW		COPd	na	- 1	
Bradent temperature $I_{biv}$ $-I_{c}$ $C_{c}$ Operation limit temperature $IOL$ $Ina$ $C_{c}$ Operation limit temperature $IOL$ $Ina$ $C_{c}$ $Cycling interval capacity for P_{cych} Ina V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych} V_{cych} V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych} Ina V_{cych} Ina V_{cych} V_{cych}$		Pdh	na	kW		COPd	na	-	
heating $P_{cych}$ nakwCycling interval efficiency $CDPcyc$ naDegradation co-efficient $Cdh$ $0,98$ -Heating water operating limit $WTOL$ 65 $TC$ Power consumption in modes other than active modeOff mode $P_{orr}$ $0,018$ $kW$ Supplementary heaterRated heat output $Psup$ $1,6$ $kV$ Off mode $P_{orr}$ $0,022$ $kW$ Type of energy input $Electric$ $Electric$ Standby mode $P_{se}$ $0,018$ $kW$ Type of energy input $Electric$ $m3$ Capacity control $Fixed$ $For air-to-water heat pumps:numps: Rated brine or waterflow rate, outdoorsnam3Sound power level, indoors/outdoorsL_{WA}50/nadBWhhRated heating energyn_{wh}naFor heat pump combination heater:Erergy efficiency classXL / AWater heating energyefficiencyn_{wh}100\%Daily electricity consumptionQelec7,619kWhAnnual fuel consumptionAFCnaKWAnnual electricityconsumptionAEC1676kWhAnnual fuel consumptionAFCnaKWSpecific precautions and endThe packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At thend the product's life cycle, it must be sent correctly to a waste station or with the installation engineer for correct waste management. At th$	Bivalent temperature	T <sub>biv</sub>	-7	°C		TOL	na	°C	
Degradation co-efficient       Cah       0,98       -       temperature       W10L       65       Can         Power consumption in modes other than active mode       Off mode       Porf       0,018       kW       Supplementary heater         Off mode       Porf       0,018       kW       Supplementary heater       Rated heat output       Psup       1,6       kV         Thermostat-off mode       Pro       0,022       kW       Type of energy input       Electric       Electric         Crankcase heater mode       Por       0,000       kW       Type of energy input       Electric       m3,         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       na       m3,         Sound power level, indoors/ outdoors       L       KWA       50/na       dB       Jumps: Rated brine or water       -       2,6       m3,         For heat pump combination heater:       Declared load profile/       XL / A       Water heating energy       Nuh       100       %         Daily electricity consumption       Qelec       7,619       kWh       Annual fuel consumption       AFC       na       KW         Annual electricity       AEC       1676       kWh       Annual fuel consumptio		P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-	
Off mode       P orf       0,018       kW       Rated heat output       P sup       1,6       kV         Thermostat-off mode       P ro       0,022       kW       Type of energy input       Electric       Electric         Standby mode       P sa       0,018       kW       Type of energy input       Electric       Electric         Crankcase heater mode       P cx       0,000       kW       Type of energy input       Electric         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       na       m3,         Sound power level, indoors/ outdoors       L wA       50/na       dB       For water-/brine-to-water heat pumps: Rated brine or water       na       m3,         For heat pump combination heater:       Declared load profile/       XL / A       Water heating energy       n_wh       100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer of correct waste management. At thend of the product's lif	Degradation co-efficient	Cdh	0,98	-		WTOL	65	°C	
Thermostat-off mode $P_{TO}$ $0,022$ kW         Standby mode $P_{ss}$ $0,018$ kW         Crankcase heater mode $P_{CK}$ $0,000$ kW         Other items $P_{CK}$ $0,000$ kW         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       na       m3,         Sound power level, indoors/ $L_{WA}$ $50/na$ dB       For water-/brine-to-water heat pumps: Rated air flow rate, outdoors       na       m3,         Annual energy consumption $Q_{HE}$ $5814$ kWh       For water./brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       2,6       m3,         For heat pump combination heater:       Declared load profile/       KL / A       Water heating energy fliciency $\eta_{wh}$ 100       %         Daily electricity consumption       Qelec $7,619$ kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At th end of the product's	Power consumption in modes	other than active	mode	_	Supplementary heater			-	
Standby mode       P s8       0,018       kW       Type of energy input       Electric         Crankcase heater mode       P cx       0,000       kW       Type of energy input       Electric         Other items       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       na       m3,         Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       na       m3,         Sound power level, indoors/ outdoors       L wA       50/na       dB       For water-/brine-to-water heat pumps: Rated brine or water       -       2,6       m3,         For heat pump combination heater:       Declared load profile/       XL / A       Water heating energy efficiency       nu       100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,6	kW	
Crankcase heater mode       P cx       0,000       kW         Other items       Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       na       m3,         Capacity control       Image: construct the construction of t	Thermostat-off mode	Р <sub>то</sub>	0,022	kW					
Other items         Capacity control       Fixed         Sound power level, indoors/       L         WA       50/na         outdoors       -         Annual energy consumption       Q         HE       5814         kWh       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         Energy efficiency class       XL / A         Daily electricity consumption       Qelec         7,619       kWh         Annual electricity       AEC         1676       kWh         Annual fuel consumption       AFC         Namual electricity       AEC         1676       kWh         Annual fuel consumption       AFC         The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric		
Capacity control       Fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       na       m3,         Sound power level, indoors/ outdoors       L       WA       50/na       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       2,6       m3,         Annual energy consumption       Q       HE       5814       kWh       Water heating energy       -       2,6       m3,         For heat pump combination heater:       Declared load profile/       XL / A       Water heating energy       nwh       100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kWh         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Crankcase heater mode	Р <sub>СК</sub>	0,000	kW					
Capacity control       Fixed       Rated air flow rate, outdoors       na       m3,         Sound power level, indoors/ outdoors       L wA       50/na       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       For water-/brine-to-water heat pumps: Rated brine or water       m3,         For heat pump combination heater:       5814       kWh       Water heating energy efficiency class       -       2,6       m3,         Declared load profile/ Energy efficiency class       XL / A       Water heating energy efficiency       nwh       100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Other items		· · ·						
outdoors     LWA     50/na     dB     pumps: Rated brine or water       Annual energy consumption     QHE     5814     kWh     pumps: Rated brine or water       For heat pump combination heater:     -     2,6     m3,       Declared load profile/     XL / A     Water heating energy     nwh     100     %       Daily electricity consumption     Qelec     7,619     kWh     Daily fuel consumption     Qfuel     na     kW       Annual electricity     AEC     1676     kWh     Annual fuel consumption or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Capacity control		Fixed			-	na	m3/h	
Annual energy consumption       Q HE       5814       kWh       exchanger       -       2,6       m3,         For heat pump combination heater:       Declared load profile/       XL / A       Water heating energy $\eta_{wh}$ 100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kWh         Annual electricity       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	•	L <sub>WA</sub>	50/na	dB					
For heat pump combination heater:         Declared load profile/         XL / A       Water heating energy efficiency $\eta_{wh}$ 100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	Annual energy consumption	Q <sub>HE</sub>	5814	kWh		-	2,6	m3/h	
Energy efficiency class       XL / A       efficiency       Ilwh       100       %         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kW         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree		leater:							
Energy efficiency class       efficiency         Daily electricity consumption       Qelec       7,619       kWh       Daily fuel consumption       Qfuel       na       kWh         Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G.         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	-		XL / A			n	100	%	
Annual electricity consumption       AEC       1676       kWh       Annual fuel consumption       AFC       na       G.         Specific precautions and end       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At th 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 gree	Energy efficiency class	I		1	efficiency	- IWI			
AEC       1676       KWh       Annual fuel consumption       AFC       na       G.         consumption       The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree	, , ,	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kWh	
Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of gree		AEC			-			GJ	
of the product as household waste is not permitted.			end of the product' importance that the	s life cycle, it mus e product's refrige	t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic	er offering a servic	e of that type. t	is of great	
	Contact details	CTC AB, Näsväge						231218	

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



Cold climate and Medium te	emperature				Ljungby		
Model(s):		CTC EcoPart 4	12 + CTC EcoZe	enith i360/ 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:	145	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
		erature applicat	tion, except fo	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	r low-temperat	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	141	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	idoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	11,2	kW	T j = – 7 °C	COPd	3,56	] -
Г ј = + 2 °С	Pdh	11,4	kW	T j = +2 °C	COPd	3,94	] -
Г ј = + 7 °С	Pdh	11,6	kW	T j = +7 °C	COPd	4,29	-
Г ј = + 12 °С	Pdh	11,7	kW	T j = +12 °C	COPd	4,54	-
i = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: [ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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 o	ther than active	mode	_	Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,4	kW
Thermostat-off mode	Р <sub>то</sub>	0,005	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	8195	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h
For heat pump combination hea	ater:						
Declared load profile/		XL/A		Water heating energy	η <sub>wh</sub>	100	%
Energy efficiency class		<u> </u>		efficiency	' Iwh	100	
Daily electricity consumption	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1676	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great

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



Model(s):Air-to-water heat pump:Water-to-water heat pump:Brine-to-water heat pump:Low-temperature heat pump:Equipped with a supplementary heHeat pump combination heater:Parameters shall be declared for mparameters shall be declared for loItemRated heat output (*)Declared capacity for heating for poutdoor temperature T jT j = -7 °CT j = + 2 °CT j = + 7 °CT j = + 12 °CT j = bivalent temperatureT j = operation limittemperature	nedium-tempe ow-temperatu <b>Symbol</b> Prated	No No Yes No Yes Yes Yes Prature application. Value 12 door temperatur 11,9 12,0 12,1	on, except for Unit kW	nith i360/ i360F Energy efficiency class: Controller class: Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature T j = -7 °C	3,5 189 low- temperat Symbol $\eta_s$ ance or primar	Value 185	Unit %
Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7$ °C T $j = +2$ °C T $j = +7$ °C T $j = +12$ °C T $j = hivalent temperature$ T $j = operation limit$	nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	No Yes No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Controller class: Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature	3,5 189 low- temperat Symbol $\eta_S$ ance or primar	% - ture heat pur Value 185	Unit %
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree$ C T j = $+2 \degree$ C T j = $+7 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C T j = bivalent temperature T j = operation limit	nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	Yes No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Controller contribution: Package efficiency: Package efficiency class: Tow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature	3,5 189 low- temperat Symbol $\eta_S$ ance or primar	% - ture heat pur Value 185	Unit %
Low-temperature heat pump: Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = $+12 \degree C$ T j = bivalent temperature T j = operation limit	nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	No Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Package efficiency: Package efficiency class: low-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performation part load at indoor temperature	189 low- temperat Symbol η <sub>s</sub> ance or primar	% - cure heat pur Value 185	Unit %
Equipped with a supplementary he Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo <b>Item</b> Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree$ C T j = $+2 \degree$ C T j = $+7 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C T j = $+12 \degree$ C	nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	Yes Yes erature application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Package efficiency class:  Iow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	low- temperat <b>Symbol</b> η <sub>s</sub> ance or primar	- ture heat pur Value 185	Unit %
Heat pump combination heater: Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = $+12 \degree C$ T j = operation limit	nedium-tempe ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	Yes erature applicati re application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Iow-temperature heat pumps. For Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	Symbol N <sub>S</sub>	Value 185	Unit %
Parameters shall be declared for m parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7 °C$ T $j = + 2 °C$ T $j = + 7 °C$ T $j = + 12 °C$ T $j = bivalent temperature$ T $j = operation limit$	ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	erature applicati re application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	Symbol N <sub>S</sub>	Value 185	Unit %
parameters shall be declared for lo Item Rated heat output (*) Declared capacity for heating for p outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit	ow-temperatu Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	re application. Value 12 door temperatur 11,9 12,0 12,1	Unit kW e 20 °C and kW	Item Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	Symbol N <sub>S</sub>	Value 185	Unit %
Item Rated heat output (*) Declared capacity for heating for poutdoor temperature T j T $j = -7$ °C T $j = +2$ °C T $j = +7$ °C T $j = +12$ °C T $j = bivalent temperature$ T $j = operation limit$	Symbol Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	Value 12 door temperatur 11,9 12,0 12,1	kW re 20 °C and kW	Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	م مnce or primar	185	%
Rated heat output (*) Declared capacity for heating for po outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit	Prated Dart load at inc Pdh Pdh Pdh Pdh Pdh	12 door temperatur 11,9 12,0 12,1	kW re 20 °C and kW	Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature	م مnce or primar	185	%
Declared capacity for heating for p outdoor temperature T j T j = $-7 \degree C$ T j = $+2 \degree C$ T j = $+7 \degree C$ T j = $+12 \degree C$ T j = bivalent temperature T j = operation limit	part load at inc Pdh Pdh Pdh Pdh Pdh	door temperatur 11,9 12,0 12,1	e 20 °C and kW	efficiency Declared coefficient of performa part load at indoor temperature	ance or primar		
outdoor temperature T j T j = - 7 °C T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit	Pdh Pdh Pdh Pdh	11,9 12,0 12,1	kW	part load at indoor temperature		y energy rati	
T j = + 2 °C T j = + 7 °C T j = + 12 °C T j = bivalent temperature T j = operation limit	Pdh Pdh Pdh	12,0 12,1		Ti = -7 °C			
Τ j = + 2 °C Γ j = + 7 °C Γ j = + 12 °C Γ j = bivalent temperature Γ j = operation limit	Pdh Pdh Pdh	12,0 12,1			COPd	4,89	] -
Γ j = + 12 °C Γ j = bivalent temperature Γ j = operation limit	Pdh			T j = +2 °C	COPd	5,06	] -
Γ j = bivalent temperature Γ j = operation limit		10.1	kW	T j = +7 °C	COPd	5,18	- [
Γ j = operation limit	Pdh	12,1	kW	T j = +12 °C	COPd	5,20	-
		11,8	kW	T j = bivalent temperature	COPd	4,66	-
•	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j =  – 15 °C (if TOL <  – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-20	°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 othe	er 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>	0,022	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		, <del>-</del>	L				
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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6373	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination heater	er:				I		<u>.</u>
Declared load profile/		XL/A		Water heating energy	n	100	%
Energy efficiency class		<b>AL / A</b>		efficiency	$\eta_{wh}$	100	%
Daily electricity consumption	Qelec	7,619	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1676	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 refriger	recycling station or with the installation engin be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic	r offering a service	e of that type. t i	is of great
Contact details CTC	CAB, Näsväger			not permitted.		, aisposed (	

#### 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 41	L2 + 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:	126	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	iture heat pu	mps,
parameters shall be declared for							
tem	Symbol	Value	Unit	ltem	Symbol	Value	Uni
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	122	%
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			
_j=−7 °C	Pdh	na	kW	T j = − 7 °C	COPd	na	<b>1</b> -
ī j = + 2 ℃	Pdh	10,9	kW	T j = +2 °C	COPd	2,81	1 -
j = + 7 °C	Pdh	11,3	kW	T j = +7 °C	COPd	3,14	1 -
j = + 12 °C	Pdh	11,7	kW	T j = +12 °C	COPd	3,72	] -
j = bivalent temperature	Pdh	11,0	kW	T j = bivalent temperature	COPd	2,90	] -
Γ j = operation limit temperature	Pdh	10,9	kW	T j = operation limit temperature	COPd	2,81	- 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>	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		-	_
)ff mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,3	kW
hermostat-off mode	Р <sub>то</sub>	0,018	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/
Lound power level, indoors/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q <sub>HE</sub>	4905	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/
or heat pump combination he	ater:						·
Declared load profile/		L/A		Water heating energy	$\eta_{wh}$	86	%
nergy efficiency class		- / A	1	efficiency	lwh	00	70
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kWl
Annual electricity consumption	AEC	1195	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 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 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 41	2 + 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:	154	%	
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	ture heat pu	mps,
parameters shall be declared fo							
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	150	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	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	11,9	kW	T j = +2 °C	COPd	4,11	1 -
Г ј = + 7 °С	Pdh	12,0	kW	T j = +7 °C	COPd	4,30	] -
Г ј = + 12 °С	Pdh	12,1	kW	T j = +12 °C	COPd	4,54	- [
Γ j = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,17	-
T j = operation limit temperature	Pdh	11,9	kW	T j = operation limit temperature	COPd	4,11	-
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	0,95	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	e mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	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			•				-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4331	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/
For heat pump combination hea	ater:						
Declared load profile/		L/A		Water heating energy	$\eta_{wh}$	86	%
Energy efficiency class		-,	1	efficiency	• IWN		- <sup>~</sup>
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1195	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 reseller rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of grea
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#### 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: Parameters shall be declared for parameters shall be declared for Item		CTC EcoPart 41 No No	2 + CTC EcoZe	nith i255 Energy efficiency class:	A+	-	
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 parameters shall be declared for		No		Energy efficiency class:	A+	-	
Brine-to-water heat pump: Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater: Parameters shall be declared for parameters shall be declared for							
Low-temperature heat pump: Equipped with a supplementary Heat pump combination heater Parameters shall be declared for parameters shall be declared for	h	Voc		Controller class:	VII	-	
Equipped with a supplementary Heat pump combination heaters Parameters shall be declared for parameters shall be declared for		Yes		Controller contribution:	3,5	%	
Heat pump combination heater: Parameters shall be declared for parameters shall be declared for	h t .	No		Package efficiency:	136	%	
Parameters shall be declared for parameters shall be declared for parameters shall be declared for parameters shall be declared for parameters and parameters and param	neater:	Yes		Package efficiency class:	A++	-	
parameters shall be declared for		Yes					
•			ion, 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	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	132	%
Declared capacity for heating fo outdoor temperature T j	r part load at in	door temperatur	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј =  – 7 °С	Pdh	10,9	kW	T j = – 7 °C	COPd	3,11	] -
Г ј = + 2 °С	Pdh	11,3	kW	T j = +2 °C	COPd	3,57	] -
Г ј = + 7 °С	Pdh	11,3	kW	T j = +7 °C	COPd	3,87	] -
T j = + 12 °C	Pdh	11,5	kW	T j = +12 °C	COPd	4,23	-
T j = bivalent temperature	Pdh	11,0	kW	T j = bivalent temperature	COPd	3,16	-
T j = operation limit temperature	Pdh	10,8	kW	T j = operation limit temperature	COPd	2,93	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	] -
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode		Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	2,1	kW
Thermostat-off mode	P <sub>TO</sub>	0,018	kW				
Standby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	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/ putdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q <sub>HE</sub>	7652	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h
For heat pump combination hea				Tevenanger		1	
Declared load profile/		1/4		Water heating energy	n		
Energy efficiency class		L/A		efficiency	$\eta_{wh}$	86	%
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1195	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product's	s life cycle, it mus 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 C	TC AB, Näsväge	n 8, SE-341 34 Lj					231218

#### 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 41	.2 + CTC EcoZe	enith i255			
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	159	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heate		Yes					
			ion, except for	r low-temperature heat pumps. For	<sup>-</sup> low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	155	%
Declared capacity for heating for beating for the second sec	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	11,9	kW	T j = – 7 °C	COPd	4,19	] -
Г ј = + 2 °С	Pdh	12,0	kW	T j = +2 °C	COPd	4,36	1 -
Г ј = + 7 °С	Pdh	12,1	kW	T j = +7 °C	COPd	4,50	] -
Г ј = + 12 °С	Pdh	12,2	kW	T j = +12 °C	COPd	4,64	-
Γ j = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,21	-
T j = operation limit temperature	Pdh	11,9	kW	T j = operation limit temperature	COPd	4,11	-
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	0,95	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	e mode	•	Supplementary heater		-	-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	2,2	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/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q <sub>HE</sub>	7153	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	$\eta_{wh}$	86	%
Energy efficiency class				efficiency	IWII		-
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1195	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 eng t be sent correctly to a waste station or resell grant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great

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



Cold climate and Medium to	emperature				Ljungby		
Model(s):		CTC EcoPart 41	L2 + 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:	129	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for		ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	125	%
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	11,4	kW	T j = − 7 °C	COPd	3,24	1.
Г ј = + 2 °С	Pdh	11,6	kW	T j = +2 °C	COPd	3,56	1 -
г ј = + 7 °С	Pdh	11,8	kW	T j = +7 °C	COPd	3,85	- 1
Г ј = + 12 °С	Pdh	11,9	kW	T j = +12 °C	COPd	4,06	-
ī j = bivalent temperature	Pdh	11,1	kW	T j = bivalent temperature	COPd	3,00	] -
T j = operation limit temperature	Pdh	10,9	kW	T j = operation limit temperature	COPd	2,81	] -
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>	-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	0,98	-	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	1,9	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/I
Sound power level, indoors/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			]
Annual energy consumption	Q <sub>HE</sub>	9526	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/l
For heat pump combination he	ater:						
Declared load profile/		L/A		Water heating energy	$\eta_{wh}$	86	%
Energy efficiency class		-/ -		efficiency	' Iwh	00	
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1195	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engine t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great

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



Cold climate and Low temp	erature				Ljungby		
Model(s):		CTC EcoPart 41	2 + 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:	160	%	
Equipped with a supplementar	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared f			11	lt	Cumphiel	Value	11
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	156	%
Declared capacity for heating f outdoor temperature T j	for part load at ir	idoor temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = − 7 °C	Pdh	12,0	kW	T j = − 7 °C	COPd	4,37	] -
T j = + 2 °C	Pdh	12,1	kW	T j = +2 °C	COPd	4,50	- 1
T j = + 7 °C	Pdh	12,1	kW	T j = +7 °C	COPd	4,60	-
T j = + 12 °C	Pdh	12,2	kW	T j = +12 °C	COPd	4,62	-
T j = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,21	-
T j = operation limit	Pdh	11,9	kW	T j = operation limit	COPd	4,11	-
temperature		-	-	temperature		,	-
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	0,95	-	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	1,5	kW
Thermostat-off mode	<b>Р</b> <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
I Sound power level, indoors/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	8028	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination he	eater:	•					1
Declared load profile/		L/A		Water heating energy	n	86	%
Energy efficiency class		-/ ~	1	efficiency	$\eta_{wh}$	00	/0
Daily electricity consumption	Qelec	5,434	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1195	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic of not permitted	er offering a servic	e of that type. t	is of great
Contact details	CTC AB. Näsväge	en 8, SE-341 34 Lj					231218
	,	-, <b>-</b>	0.7.10.110				

#### 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 41	L2 + 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:	126	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared for parameters shall be declared for	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- tempera	ature heat pu	mps,
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	122	%
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	] -
∫ j = + 2 °C	Pdh	10,9	kW	T j = +2 °C	COPd	2,81	1 -
г ј = + 7 °С	Pdh	11,3	kW	T j = +7 °C	COPd	3,14	] -
j = + 12 °C	Pdh	11,7	kW	T j = +12 °C	COPd	3,72	] -
ī j = bivalent temperature	Pdh	11,0	kW	T j = bivalent temperature	COPd	2,90	-
T j = operation limit temperature	Pdh	10,9	kW	T j = operation limit temperature	COPd	2,81	] -
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 of	other than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	kW
hermostat-off mode	Р <sub>то</sub>	0,025	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
Lound power level, indoors/	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4879	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/
or heat pump combination he	ater:		•				<u>.</u>
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
nergy efficiency class			r	efficiency	• Iwh	100	- 7
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWł
Annual electricity consumption	AEC	1676	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 engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	r offering a servi	ce of that type. t	is of great

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



Model(s): Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump:		CTC EcoPart 41	2 + CTC EcoZe	enith i555 Energy efficiency class:			
Water-to-water heat pump: Brine-to-water heat pump:				Energy efficiency class:			
Brine-to-water heat pump:				Energy enherency class.		-	
		No		Controller class:	VII	-	
Low-temperature heat pump:		Yes		Controller contribution:	3,5	%	
		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	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit T
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	154	%
Declared capacity for heating for outdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of performation part load at indoor temperature	•		
Г ј =  – 7 °С	Pdh	na	kW	T j = − 7 °C	COPd	na	] -
Г ј = + 2 °С	Pdh	11,9	kW	T j = +2 °C	COPd	4,11	1 -
Г ј = + 7 °С	Pdh	12,0	kW	T j = +7 °C	COPd	4,30	] -
Г ј = + 12 °С	Pdh	12,1	kW	T j = +12 °C	COPd	4,54	] -
Г ј = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,17	-
T j = operation limit temperature	Pdh	11,9	kW	T j = operation limit temperature	COPd	4,11	-
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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes ot	ther than active	mode		Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,073	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4228	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination hea	ter:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
Energy efficiency class				efficiency			
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1676	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 engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not nermitted	er offering a servic	e of that type. t	is of great

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



Average climate and Mediu	um temperatur	e			Ljungby		
Model(s):		CTC EcoPart 41	2 + CTC EcoZe	enith i555			
Air-to-water heat pump:		No		Energy efficiency class:	A+	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	127	%	
Equipped with a supplementar	ry heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heate	er:	Yes					
			ion, except for	r low-temperature heat pumps. For	r low- tempera	ture heat pu	mps,
parameters shall be declared f	•						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	123	%
Declared capacity for heating f outdoor temperature T j	for part load at in	idoor temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј = — 7 °С	Pdh	11,1	kW	T j = − 7 °C	COPd	2,97	] -
Г ј = + 2 °С	Pdh	11,5	kW	T j = +2 °C	COPd	3,32	1 -
Г ј = + 7 °С	Pdh	11,6	kW	T j = +7 °C	COPd	3,63	] -
Г ј = + 12 °С	Pdh	11,8	kW	T j = +12 °C	COPd	3,94	- [
Г ј = bivalent temperature	Pdh	11,2	kW	T j = bivalent temperature	COPd	3,02	- [
Γ j = operation limit temperature	Pdh	10,9	kW	T j = operation limit temperature	COPd	2,81	-
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 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	2,3	kW
Thermostat-off mode	Р <sub>то</sub>	0,025	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/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	7388	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h
or heat pump combination he	eater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
Energy efficiency class		//s/ rt	r	efficiency	' Iwh	100	
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1676	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	en 8, SE-341 34 Lj					231218

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



Average climate and Low te	mperature				Ljungby		
Model(s):		CTC EcoPart 41	2 + 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:	16 <b>2</b>	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater		Yes					
			ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	•				<u> </u>		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	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	door temperatu	re 20 °C and	Declared coefficient of perform part load at indoor temperature			
Г ј =  – 7 °С	Pdh	11,9	kW	T j = – 7 °C	COPd	4,19	<b>1</b> -
Г ј = + 2 °С	Pdh	12,0	kW	T j = +2 °C	COPd	4,34	1 -
Г ј = + 7 °С	Pdh	12,1	kW	T j = +7 °C	COPd	4,49	] -
Г ј = + 12 °С	Pdh	12,2	kW	T j = +12 °C	COPd	4,64	- 1
Γ j = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,19	-
T j = operation limit temperature	Pdh	11,9	kW	T j = operation limit temperature	COPd	4,11	- 1
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>	-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 o	other than active	mode		Supplementary heater			-
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output	Psup	1,6	kW
Thermostat-off mode	Р <sub>то</sub>	0,073	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/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6728	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination hea	ater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
Energy efficiency class				efficiency	- Iwn		ļ
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1676	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product's importance that the	s life cycle, it mus e product's refrige	a recycling station or with the installation enging t be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic and permitted	er offering a servio	e of that type. t	is of great
Contact details (	CTC AB, Näsväge	of the product as ho		not permitted.			

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



Cold climate and Medium t	emperature				Ljungby		
Model(s):		CTC EcoPart 4	12 + 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:	129	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	125	%
Declared capacity for heating for heating for the structure T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј =  – 7 °С	Pdh	11,4	kW	T j = − 7 °C	COPd	3,23	<b>1</b> -
Г ј = + 2 °С	Pdh	11,6	kW	T j = +2 °C	COPd	3,55	1 -
г ј = + 7 °С	Pdh	11,7	kW	T j = +7 °C	COPd	3,84	] -
Г ј = + 12 °С	Pdh	11,9	kW	T j = +12 °C	COPd	4,05	-
Г ј = bivalent temperature	Pdh	11,1	kW	T j = bivalent temperature	COPd	2,96	] -
T j = operation limit temperature	Pdh	10,9	kW	T j = operation limit temperature	COPd	2,81	] -
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	0,99	-	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	1,5	kW
Thermostat-off mode	Р <sub>то</sub>	0,025	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		_
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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	9177	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h
For heat pump combination he	ater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
nergy efficiency class		// / A		efficiency	' Iwh	100	
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1676	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	er offering a servio	e of that type. t	is of great

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



Cold climate and Low tempe	erature				Ljungby		
Model(s):		CTC EcoPart 41	2 + CTC EcoZe	nith i555			
Air-to-water heat pump:		No		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:		No		Package efficiency:	163	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes					
			ion, except for	low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	•		11		C h. a l	Malua	11
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	159	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	idoor temperatui	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	12,0	kW	T j = − 7 °C	COPd	4,37	] -
Г ј = + 2 °С	Pdh	12,1	kW	T j = +2 °C	COPd	4,50	- 1
Г ј = + 7 °С	Pdh	12,1	kW	T j = +7 °C	COPd	4,60	- [
Г ј = + 12 °С	Pdh	12,2	kW	T j = +12 °C	COPd	4,62	-
T j = bivalent temperature	Pdh	11,9	kW	T j = bivalent temperature	COPd	4,21	- [
T j = operation limit temperature	Pdh	11,9	kW	T j = operation limit temperature	COPd	4,11	-
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	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	e mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,073	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	7875	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
For heat pump combination hea	ater:						
Declared load profile/		XL/A		Water heating energy	$\eta_{wh}$	100	%
Energy efficiency class		~~/ ~		efficiency	' IWN	100	
Daily electricity consumption	Qelec	7,620	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1676	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 engin be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic	r offering a servic	e of that type. t	is of great

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



Warm climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoPart 41	2 + 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:	138	%	
Equipped with a supplementary	/ heater:	No		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared fo		No erature applicat	ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	or low-temperatu	ire application.			-	-	-
Item	Symbol	Value	Unit I	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	137	%
Declared capacity for heating for part load at indoor temperature 20 $^\circ C$ and outdoor temperature T j				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	13,6	kW	T j = +2 °C	COPd	3,08	] -
Г ј = + 7 °С	Pdh	11,1	kW	T j = +7 °C	COPd	3,45	-
Г ј = + 12 °С	Pdh	11,5	kW	T j = +12 °C	COPd	4,14	- 1
T j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,18	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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	0,5	kW
Thermostat-off mode	Р <sub>то</sub>	0,005	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/ putdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	4364	kWh	flow rate, outdoor heat exchanger	-	2,1	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' importance that the	's life cycle, it mus e product's refrige	a recycling station or with the installation enging to be sent correctly to a waste station or reselled rant, compressor oil and electrical/electronic pot permitted	er offering a servic	e of that type. t	is of great
Contact details		of the product as he n 8, SE-341 34 Lj					231218

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



Warm climate and Low ten	nperature				Ljungby	<u> </u>	
Model(s):		CTC EcoPart 41	2 + 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:	181	%	
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							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	180	%
Declared capacity for heating f 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	] - [
Г ј = + 2 °С	Pdh	11,8	kW	T j = +2 °C	COPd	4,60	1 -
Г ј = + 7 °С	Pdh	11,9	kW	T j = +7 °C	COPd	4,83	- [
T j = + 12 °C	Pdh	12,0	kW	T j = +12 °C	COPd	5,11	-
T j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,68	- [
T j = operation limit	Pdh	na	kW	T j = operation limit	COPd	na	_
temperature	, an	110		temperature	0014	nu	
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 heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,9	kW
Thermostat-off mode	Р <sub>то</sub>	0,022	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	3618	kWh	flow rate, outdoor heat	-	2,6	m3/h
For heat pump combination he		_	l	exchanger			
	calei.			Water heating energy			
Declared load profile		na	1	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 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

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



Average climate and Mediu	m temperature	e			Ljungby			
Model(s):		CTC EcoPart 41	L2 + 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:	139	%		
Equipped with a supplementary	-	No		Package efficiency class:	A++	-		
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	or medium-temp		ion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,	
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit	
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	138	%	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature				
T j = – 7 °C	Pdh	11	kW	T j = – 7 °C	COPd	3,25	] -	
T j = + 2 °C	Pdh	11,2	kW	T j = +2 °C	COPd	3,64	-	
T j = + 7 °C	Pdh	11,4	kW	T j = +7 °C	COPd	4,02	-	
T j = + 12 °C	Pdh	11,6	kW	T j = +12 °C	COPd	4,40	-	
T j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	-	
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-	
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-	
Bivalent temperature	T <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 c	other than active	mode	-	Supplementary heater			-	
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,5	kW	
Thermostat-off mode	Р <sub>то</sub>	0,005	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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water				
Annual energy consumption	Q <sub>HE</sub>	7084	kWh	flow rate, outdoor heat exchanger	-	2,1	m3/h	
For heat pump combination he		L	<u> </u>			I	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 mus	a recycling station or with the installation engi t be sent correctly to a waste station or resell rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great	
		of the product as h	ousphold wasta in			. , .		

#### 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 41	L2 + 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:	183	%	
Equipped with a supplementar	ry heater:	No		Package efficiency class:	A+++	-	
Heat pump combination heate	er:	No					
			ion, except for	r low-temperature heat pumps. For	<sup>-</sup> low- tempera	ture heat pu	mps,
parameters shall be declared f	•	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	182	%
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			
Г ј = — 7 °С	Pdh	11,8	kW	T j = − 7 °C	COPd	4,69	1 -
Γ j = + 2 °C	Pdh	11,9	kW	T j = +2 °C	COPd	4,88	1 -
г ј = + 7 °С	Pdh	12,0	kW	T j = +7 °C	COPd	5,06	] -
Г ј = + 12 °С	Pdh	12,1	kW	T j = +12 °C	COPd	5,23	- [
Γ j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,69	-
T j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <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	1,6	kW
Thermostat-off mode	Р <sub>то</sub>	0,022	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 m		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	5814	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/h
or heat pump combination he		I	1	ן ובאטומווצבו		l	
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 resell- 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

	nation for heat pump space heaters and heat pump combination h limate and Medium temperature		neaters	CTC AB Ljungby	ENERI	GROUP	
Model(s):	-	CTC EcoPart 4	12 + 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	%	
.ow-temperature heat pump:		No		Package efficiency:	142	%	
quipped with a supplementary	v heater:	No		Package efficiency class:		_	
leat pump combination heater	-	No					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ature heat pu	mps,
parameters shall be declared for	or low-temperat	ure application.	•		-	-	-
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	141	%
Declared capacity for heating for beating for beating for beating for the second second second second second se	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
j = – 7 °C	Pdh	11,2	kW	T j = − 7 °C	COPd	3,56	] -
j = + 2 °C	Pdh	11,4	kW	T j = +2 °C	COPd	3,94	-
j = + 7 °C	Pdh	11,6	kW	T j = +7 °C	COPd	4,29	
j = + 12 °C	Pdh	11,7	kW	T j = +12 °C	COPd	4,54	-
j = bivalent temperature	Pdh	11	kW	T j = bivalent temperature	COPd	3,25	-
j = operation limit emperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
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>	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for leating	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	e mode		Supplementary heater			_
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	1,4	kW
hermostat-off mode	Р <sub>то</sub>	0,005	kW				
itandby mode	P <sub>SB</sub>	0,018	kW	Type of energy input		Electric	
rankcase heater mode	Р <sub>СК</sub>	0,000	kW				
)ther 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>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Innual energy consumption	Q <sub>HE</sub>	8195	kWh	flow rate, outdoor heat	-	2,1	m3/
or heat pump combination he			1	exchanger			1
Declared load profile		na		Water heating energy efficiency	$\eta_{wh}$	na	%
aily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kW
nnual electricity onsumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	r offering a servi	ce of that type. t	is of g

# 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		Ljungby		0.000			
Model(s):		CTC EcoPart 4	styrning				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Vater-to-water heat pump:		No		Controller class:	I.	-	
Brine-to-water heat pump:		Yes		Controller contribution:	1	%	
ow-temperature heat pump:		No		Package efficiency:	186	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater		No					
			tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared fo	Symbol	Value	Unit	Item	Symbol	Value	Uni
tem	Symbol	value		Seasonal space heating energy	Symbol	value	T
Rated heat output (*)	Prated	12	kW	efficiency	η <sub>s</sub>	185	%
Declared capacity for heating fo butdoor temperature T j	r part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
「 j = − 7 °C	Pdh	11,9	kW	T j = − 7 °C	COPd	4,89	] -
Г ј = + 2 °С	Pdh	12,0	kW	T j = +2 °C	COPd	5,06	1 -
j = + 7 °C	Pdh	12,1	kW	T j = +7 °C	COPd	5,18	] -
Г ј = + 12 °С	Pdh	12,1	kW	T j = +12 °C	COPd	5,20	<b>_</b> -
j = bivalent temperature	Pdh	11,8	kW	T j = bivalent temperature	COPd	4,66	-
Γ j = operation limit temperature	Pdh	na	kW	T j = operation limit temperature	COPd	na	-
For air-to-water heat pumps: [ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P <sub>cych</sub>	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode		Supplementary heater			
Off mode	P <sub>OFF</sub>	0,018	kW	Rated heat output	Psup	0,7	kИ
Thermostat-off mode	<b>Р</b> <sub>то</sub>	0,022	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	LN	0,000	1		<u>ı</u>		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3,
⊾ Sound power level, indoors/ putdoors	L <sub>WA</sub>	50/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q <sub>HE</sub>	6373	kWh	flow rate, outdoor heat exchanger	-	2,6	m3/
or heat pump combination hea	ater:			<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	kW
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	recycling station or with the installation engir 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