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 EcoHeat 4	10				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	128	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	r:	Yes					
Parameters shall be declared for parameters shall be declared for parame			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	10	kW	Seasonal space heating energy efficiency	n _s	124	%
Declared capacity for heating fo outdoor temperature T j	or 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	9,3	kW	T j = +2 °C	COPd	2,86	1 -
Г ј = + 7 °С	Pdh	9,5	kW	T j = +7 °C	COPd	3,20	- [
Г ј = + 12 °С	Pdh	9,8	kW	T j = +12 °C	COPd	3,78] -
Г ј = bivalent temperature	Pdh	9,3	kW	T j = bivalent temperature	COPd	2,96	1 -
T j = operation limit temperature	Pdh	9,3	kW	T j = operation limit temperature	COPd	2,86] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,026	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Sound power level, indoors/	L _{WA}	49/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4090	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/l
or heat pump combination he	ater:		•				<u>.</u>
Declared load profile /		L/A		Water heating energy	η_{wh}	87	%
Energy efficiency class			1	efficiency			
Daily electricity consumption	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1183	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product importance that th	's life cycle, it mus	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great

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



Warm climate and Low ten	nperature				Ljungby		
Model(s):		CTC EcoHeat 4	10				
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:	156	%	
Equipped with a supplementa	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate		Yes					
			ion, except for	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	11	kW	Seasonal space heating energy efficiency	η _s	152	%
Declared capacity for heating f outdoor temperature T j	for part load at in	door temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
T j = – 7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na] -
т ј = + 2 °С	Pdh	10,0	kW	T j = +2 °C	COPd	4,16] -
T j = + 7 °C	Pdh	10,1	kW	T j = +7 °C	COPd	4,35	- [
T j = + 12 °C	Pdh	10,2	kW	T j = +12 °C	COPd	4,58	-
T j = bivalent temperature	Pdh	10,0	kW	T j = bivalent temperature	COPd	4,22	-
T j = operation limit	Pdh	10,0	kW	T j = operation limit	COPd	4,16	- I
temperature				temperature		.,_0	-
For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,96	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,082	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items			•				
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	49/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3592	kWh	flow rate, outdoor heat exchanger	-	2,3	m3/h
For heat pump combination he	eater:	8		I I0			•
Declared load profile /		L/A		Water heating energy	n	07	0/
Energy efficiency class		L/ A		efficiency	η_{wh}	87	%
Daily electricity consumption	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1183	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it must e product's refrige	recycling station or with the installation engines to sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servic	e of that type. t	is of great
Contact details	CTC AB, Näsväge						231218

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



Average climate and Mediu	m temperatur	e			Ljungby		
Model(s):		CTC EcoHeat 4	10				
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	129	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater	r:	Yes					
	•		tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
parameters shall be declared for	-						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η _s	125	%
Declared capacity for heating for beating for beating for the second sec	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performation part load at indoor temperature			
Г ј = — 7 °С	Pdh	9,4	kW	T j = − 7 °C	COPd	3,02] -
; j = + 2 °C	Pdh	9,6	kW	T j = +2 °C	COPd	3,39	1 -
Г ј = + 7 °С	Pdh	9,7	kW	T j = +7 °C	COPd	3,69	1 -
ī j = + 12 ℃	Pdh	9,9	kW	T j = +12 °C	COPd	4,00] -
Γ j = bivalent temperature	Pdh	9,4	kW	T j = bivalent temperature	COPd	3,08] -
T j = operation limit temperature	Pdh	9,3	kW	T j = operation limit temperature	COPd	2,86	- 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 _{biv}	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,8	kИ
hermostat-off mode	Р _{то}	0,026	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items		÷	-		Ŧ		-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/	L _{WA}	49/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	6900	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/
For heat pump combination he	ater:						
Declared load profile /		L/A		Water heating energy	η_{wh}	87	%
Energy efficiency class		-/ -	-	efficiency	' Iwh		^
Daily electricity consumption	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1183	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of grea

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



Average climate and Low te	emperature				Ljungby		
Model(s):		CTC EcoHeat 4	10				
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:	161	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heate	r:	Yes					
Parameters shall be declared for	or medium-temp	erature applicat	tion, except for	r low-temperature heat pumps. For	·low-tempera	ture heat pu	mps,
parameters shall be declared f	or low-temperate	ure application.					
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η _s	157	%
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	10,0	kW	T j = – 7 °C	COPd	4,24] -
г ј = + 2 °С	Pdh	10,1	kW	T j = +2 °C	COPd	4,40] -
Г ј = + 7 °С	Pdh	10,2	kW	T j = +7 °C	COPd	4,54	-
Г ј = + 12 °С	Pdh	10,3	kW	T j = +12 °C	COPd	4,68	-
ī j = bivalent temperature	Pdh	10,0	kW	T j = bivalent temperature	COPd	4,27	-
Γ j = operation limit temperature	Pdh	10,0	kW	T j = operation limit temperature	COPd	4,16] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	1 -
Degradation co-efficient	Cdh	0,96	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,9	kW
Thermostat-off mode	Р _{то}	0,082	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items	· CK	0,000					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
L Sound power level, indoors/ putdoors	L _{WA}	49/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			1
Annual energy consumption	Q _{HE}	5938	kWh	flow rate, outdoor heat exchanger	-	2,3	m3/
For heat pump combination he	eater:			· · · · · · · · · · · · · · · · · · ·		•	•
Declared load profile /		L/A		Water heating energy	n	07	0/
Energy efficiency class		L/ A		efficiency	η_{wh}	87	%
Daily electricity consumption	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1183	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

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 EcoHeat 42	10				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	131	%	
Equipped with a supplementar	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	er:	Yes					
			ion, except fo	r low-temperature heat pumps. For	low- tempera	ature heat pu	mps,
parameters shall be declared f	-	ure application.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	n _s	127	%
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			
T j = − 7 °C	Pdh	9,5	kW	T j = − 7 °C	COPd	3,30] -
T j = + 2 °C	Pdh	9,7	kW	T j = +2 °C	COPd	3,62	1 -
T j = + 7 °C	Pdh	9,8	kW	T j = +7 °C	COPd	3,90] -
T j = + 12 °C	Pdh	10,0	kW	T j = +12 °C	COPd	4,11	-
T j = bivalent temperature	Pdh	9,4	kW	T j = bivalent temperature	COPd	3,02	- 1
T j = operation limit temperature	Pdh	9,3	kW	T j = operation limit temperature	COPd	2,86] -
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,2	kW
Thermostat-off mode	Р _{то}	0,026	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/ outdoors	L _{WA}	49/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	7647	kWh	flow rate, outdoor heat exchanger	-	1,9	m3/h
For heat pump combination he	eater:						
Declared load profile /		L/A		Water heating energy	η _{wh}	87	%
Energy efficiency class		- / · ·		efficiency	· Iwn	<u> </u>	
Daily electricity consumption	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1183	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product'	s life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	ce of that type. t	is of great
Contact details	CTC AB, Näsväge						231218
	CICIU, Masvage	0, 32 341 34 LJ	4050y 101 140				201210

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



No Energy efficiency class: - Water-to-water heat pump: No Controller class: VII Water-to-water heat pump: No Controller contribution: 3.5 % Ident-to-water heat pump: No Package efficiency: 162 % Expandent Shall be declared for iow-temperature application. Package efficiency class: - - Part class Symbol Value Unit Bessonal space heating energy ng 158 % Part class Symbol Value Unit Item Symbol Value Unit Based class of provided 11 KW Sessonal space heating energy ng 158 % Declared coaciticant of part load at indoor temperature 20 'C and buckdoor temperature 20 'C and buckdoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the part ind at indoor temperature 20 'C and buckdoor temperature 7 in the	Cold climate and Low temp	erature				Ljungby		
Water to water heat pump: No Controller class: VII - Brine Le water heat pump: Yes Controller contribution: 3,5 % Device temperature heat pumps: No Package efficiency: 162 % Equipped with a supplementary heater: Yes Package efficiency: 162 % Parameters shall be declared for low-temperature application. Package efficiency: 162 % Parameters shall be declared for low-temperature application. Package efficiency: 158 % Declared coapicity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 in 1 = -7 °C Pdh 10,2 kW T = -2 °C Pdh 10,2 kW T = -2 °C COPd 4,42 - T = -2 °C Pdh 10,2 kW T = -2 °C COPd 4,42 - T = +2 °C Pdh 10,2 kW T = -2 °C COPd 4,42 - T = operation limit Pdh 10,0 kW T = epacetant limit COPd 4,26 - T = operation limit Pdh 10,0 KW T = epacetant l	Model(s):		CTC EcoHeat 4	10				
Brine to water heat pump: Yes Controller contribution: 3,5 % Convergence of the act pump: No Package efficiency: 162 % Regulared that supplementary heater: Yes Package efficiency class:	Air-to-water heat pump:		No		Energy efficiency class:			
No Package efficiency: 162 % Equipped with a supplementary heater: Yes Package efficiency; class: - Parameters shall be declared for modum-temperature application, except for low-temperature heat pumps, parameters shall be declared for two-temperature application. - tem Symbol Value Unit Item Symbol Value Unit tated heat output (*) Praced 11 kW Seasonal space heating energy in s 158 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 j Image and the state of the	Water-to-water heat pump:		No		Controller class:	VII	-	
Equipped with a supplementary heater: Yes Package efficiency class: - Heat pump combination heater: Yes Package efficiency class: - Arranteres shall be declared for moleman-temperature application, except for low-temperature heat pumps, for low-temperature heat pumps, parameters shall be declared for moleman-temperature application. Item Symbol Value Unit Rated heat output (*) Prated 11 kW Item Symbol Value Unit Rated heat output (*) Prated 11 kW Item Symbol Value Unit Beclared coefficient of performance or primary encergy ratio for part load at indoor temperature 20 °C and outdoor temperature Ti Item Symbol 4.42 - I = -7 °C Pah 10.2 kW T = -7 °C COPd 4.56 - I = -7 °C Pah 10.0 kW T = +2 °C COPd 4.66 - - I = -7 °C Pah 10.0 kW T = operation limit CoPd 4.26 - - I = -15 °C (if TOL < - 20 °C)	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Vest Yest Parameters shall be declared for medum-temperature application. Exemperature spatication. Term Symbol Value Unit Rate heat output (*) Parameters shall be declared for inextemperature application. Seasonal space heating energy n.s 15.8 % Rate heat output (*) Parated 11 KW Seasonal space heating energy n.s 15.8 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7. Declared coefficient of performance or primary energy ratio of part load at indoor temperature 7. T = -7 °C COPd 4.42 - T = -7 °C Pah 10.2 KW T = -7 °C COPd 4.56 - T = -7 °C Pah 10.2 KW T = -7 °C COPd 4.66 - T = + 12 °C Pah 10.0 KW T = -7 °C COPd 4.66 - T = operation limit Pah 10.0 KW T = -7 °C COPd 4.66 - T = operation limit Pah 10.0 KW T = -12 °C (if TOL < -20 °C)	Low-temperature heat pump:		No		Package efficiency:	162	%	
Parameters shall be declared for medium-temperature application. term Symbol Value Unit Reters shall be declared for low-temperature application. Kerm Symbol Value Unit Reters shall be declared for medium-temperature application. Kerm Symbol Value Unit Reters shall be declared for medium-temperature application. Symbol Value Unit Reters application. Kerm Symbol Value Unit Symbol Value Unit To C Pdh 10.2 KW T = -7 °C COPd 4,422 - T = -7 °C COPd 4,422 - T = -7 °C COPd 4,426 - T = -7 °C COPd 4,426 -	Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
parameters shall be declared for low-temperature application. Item Symbol Value Unit Rated heat output (*) Prated 11 kW Prated 11 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j T = -7 °C Pdh 10,1 T = -7 °C Pdh 10,2 tr = +2 °C Pdh 10,2 tr = +2 °C Pdh 10,2 tr = +2 °C COPd 4,42 T = +2 °C COPd 4,66 T = +2 °C COPd 4,16 T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2 °C) COPd na T = -15 °C (# T OL < -2	Heat pump combination heate	r:	Yes					
temSymbolValueUnittemSymbolValueUnitRated heat output (*)Prated1.1kWSeasonal space heating energy endineersy n_5 15.8%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C andDeclared capacity for heating for part load at indoor temperature 20 °C and toutdoor temperature 20 °C and 10.2Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 30 °C and 4,666 ·				tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Rated heat output (*) Proted 11 kW Bescand space heating energy ns 158 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor 20 °C and	parameters shall be declared for		ure application.					
Name harded near output (*)Partico11KWefficiency n_5 1.5 γ_5 Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1Dackared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 20 °C and tool at indoor temperature 20 °C and outdoor temperature 20 °C and tool at indoor temperature 20 °C and outdoor temperature T j = -7 °CCOPd $4,42$ - - - - - - - - - - - - - - - - - -Dackared coefficient of performance or primary energy ratio for - 	Item	Symbol	Value	Unit		Symbol	Value	Unit
part load at indoor temperature T j $I = -7^{\circ}C$ Path10,1KW $I = -7^{\circ}C$ COPd4,42- $I = -7^{\circ}C$ Path10,2KW $I = -7^{\circ}C$ COPd4,54- $I = +7^{\circ}C$ Path10,2KW $I = +7^{\circ}C$ COPd4,64- $I = +7^{\circ}C$ Path10,2KW $I = +7^{\circ}C$ COPd4,66- $I = +7^{\circ}C$ Path10,0KW $I = +7^{\circ}C$ COPd4,66- $I = -7^{\circ}C$ Path10,0KW $I = +7^{\circ}C$ COPd4,66- $I = -7^{\circ}C$ Path10,0KW $I = -7^{\circ}C$ COPd4,66- $I = -7^{\circ}C$ Path10,0KW $I = -7^{\circ}C$ COPd4,66- $I = -7^{\circ}C$ Path10,0KW $I = -7^{\circ}C$ COPd4,66- $I = -5^{\circ}C (I TOL < -20^{\circ}C)$ PathnaKW $I = -5^{\circ}C (I TOL < -20^{\circ}C)$ A,16-Bivalent temperature T_{bbv} -18'COperation limit temperatureTOLna-Cycling interval capacity for heating P_{cych} naKWKWEvertheat pumps: Superation limit temperatureTOLna-Degradation co-efficientCdh0,018KWKWElectricSupplementary heaterRated heat outputElectricCycling interval capacity for heating P_{cx} 0,000KWType of energy inputElectricNa <t< td=""><td>Rated heat output (*)</td><td>Prated</td><td>11</td><td>kW</td><td></td><td>η_s</td><td>158</td><td>%</td></t<>	Rated heat output (*)	Prated	11	kW		η _s	158	%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Declared capacity for heating for heating for the second sec	or part load at in	door temperatu	ire 20 °C and				
T j = 7 °CPdh10,2kWT j = +7 °CCOPd4,66-T j = 412 °CPdh10,2kWT j = +12 °CCOPd4,66-T j = bivalent temperaturePdh10,0kWT j = bivalent temperatureCOPd4,26-T j = operation limitPdh10,0kWT j = operation limitCOPd4,16-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPdna-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:ToLna-Bivalent temperatureT j = -15 °C (if TOL < -20 °C)	T j = – 7 °C	Pdh	10,1	kW	T j = – 7 °C	COPd	4,42] - [
T j = + 12 °CPdh10,2kWT j = + 12 °CCOPd4,66-T j = bivalent temperaturePdh10,0kWT j = bivalent temperatureCOPd4,66-T j = poration limitPdh10,0kWT j = operation limitCOPd4,16-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPd4,16-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPdna-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:COPdna-Bivalent temperatureT biv-18°CFor air-to-water heat pumps:COPdna-Cycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Power consumption in modes other than active modeNoKWSupplementary heaterSupplementary heaterSupplementary heaterRated heat outputFicetricCapacity controlFixedFixedFor air-to-water heat pumps:-nam3/hCapacity controlFixed6656kWhPumps: Rated bine or waternam3/hCor heat pump combination heater:Colored load profile /L / AWater heating energynafieDelared load profile /L / A1183kWhAnnual fuel consumptionAfeCnafieSpecific precautions and endGelec5,377kWh<	T j = + 2 °C	Pdh		kW	T j = +2 °C	COPd] -
Tj = bivalent temperaturePdh10,0kWTj = bivalent temperatureCOPd4,26Tj = operation limit temperaturePdh10,0kWTj = operation limit temperatureCOPd4,16For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = + 7 °C	Pdh	10,2	kW	T j = +7 °C	COPd	4,64	-
T j = operation limit temperaturePdh10,0kWT j = operation limit temperatureCOPd4,16For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = + 12 °C	Pdh	10,2	kW	T j = +12 °C	COPd	4,66	·
temperaturepan10,0KWtemperatureCOPd4,16-For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = bivalent temperature	Pdh	10,0	kW	T j = bivalent temperature	COPd	4,26	-
T j = -15 °C (if TOL < - 20 °C)PdnnakWT j = -15 °C (if TOL < - 20 °C)CDPana-Bivalent temperatureT biv -18°CFor air-to-water heat pumps: Operation limit temperatureTOLna°CCycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,96-Heating water operating limit temperatureWTOL65°CPower consumption in modes other than active modeSupplementary heaterSupplementary heaterSupplementary heaterRated heat outputPsup1,2kWThemosta-off modeP ro 0,0820,018kWType of energy inputElectricFor air-to-water heat pumps: Rated air flow rate, outdoorsnam3/hCapacity controlFixedFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsnam3/hSound power level, indoors/ outdoorsL wA49/nadBdBpumps: Rated hine or water flow rate, outdoor heat2,3m3/hFor heat pump combination heater:Declared load profile / Energy efficiencyL / AWater heating energy efficiencyNuh87%Daily lelectricity consumption ConsumptionQelec5,377kWhDaily fuel consumptionQfuelnakWhAnnual electricity consumptionAEC1183kWhAnnual fuel consumptionAFCnaGi get fuporace kite with product sife regres, correct was	T j = operation limit temperature	Pdh	10,0	kW		COPd	4,16] -
avaient temperature I_{biv} -18-COperation limit temperature IOL na-CCycling interval capacity for heating P_{cych} nakWCycling interval efficiency $COPcyc$ na-Degradation co-efficient Cdh $0,96$ Heating water operating limit temperature $WTOL$ 65 *CPower consumption in modes other than active mode O_{off} $0,018$ VW WV KW Supplementary heaterSupplementary heaterPower consumption in modes other than active mode P_{orr} $0,018$ 		Pdh	na	kW		COPd	na	_
heating P_{cych} nakWCycling interval efficiencyCOPycenaDegradation co-efficientCdh0,96-Heating water operating limit $WTOL$ 65"CPower consumption in modes other than active modeSupplementary heaterSupplementary heaterRated heat output $PSup$ 1,2kWOff mode P_{orr} 0,018kWType of energy input $Electric$ $Electric$ Standby mode P_{sa} 0,018kWType of energy input $Electric$ Crankcase heater mode P_{cx} 0,000kWType of energy input $Electric$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsna $m3/h$ Sound power level, indoors/ outdoors L_{WA} $49/na$ dB B_{cx} $m3/h$ For heat pump combination heater: $Electrict$ $m3/h$ $m3/h$ $m3/h$ Declared load profile / Energy efficiency classL / AWater heating energy efficiency n_{wh} 87 %Daily electricity consumptionQelec5,377kWhDaily fuel consumption AFC na GJ Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. ti s of great importance that the product's refreserant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product's house is not permitted.	Bivalent temperature	T _{biv}	-18	°C		TOL	na	°C
Degradation co-efficient Can 0,96 - temperature WIOL 65 C Power consumption in modes other than active mode Off mode Porr 0,018 kW Supplementary heater Rated heat output Psup 1,2 kW Thermostat-off mode P ro 0,082 kW Type of energy input Electric Electric Standby mode P sa 0,018 kW Type of energy input Electric ma m3/h Crankcase heater mode P cx 0,000 kW For air-to-water heat pumps: Rated air flow rate, outdoors na m3/h Capacity control Fixed For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors na m3/h Annual energy consumption Q HE 66556 kWh Water heating energy efficiency nwh 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na Gi Specific preca	Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na] -
Off mode P OFF 0,018 kW Thermostat-off mode P TO 0,082 kW Standby mode P SB 0,018 kW Standby mode P SB 0,018 kW Crankcase heater mode P CK 0,000 kW Other items 0,000 kW Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L WA 49/na dB for water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors - na m3/h For heat pump combination heater: Electric - 2,3 m3/h Declared load profile / Energy efficiency class L / A Water heating energy efficiency na kWh Annual electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct water management. At the end of the product's life cycle, it must be sent correctly to a water station or conseller offering a service of that type. I is of great of the product sing cycle, it must be sent correctly to a water station or esteller offering a service of that type. I is of great	Degradation co-efficient	Cdh	0,96] -		WTOL	65	°C
Thermostat-off mode P_{TO} $0,082$ kW Standby mode P_{SB} $0,018$ kW Crankcase heater mode P_{Cx} $0,000$ kW Other items Image: Consumption of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor of and electrical/electronic equipment are properly disposed of. Disposin of the product shousehold waste is not permitted.	Power consumption in modes of	other than active	mode		Supplementary heater			_
Standby mode P se 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - na m3/h Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ L wA 49/na dB for water-/brine-to-water heat pumps: Rated air flow rate, outdoors - 2,3 m3/h Annual energy consumption Q HE 6656 kWh Water heating energy - 2,3 m3/h For heat pump combination heater: - Declared load profile / L / A Water heating energy Twh 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent	Off mode	P _{OFF}	0,018	kW	Rated heat output	Psup	1,2	kW
Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ boutdoors L WA 49/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 2,3 m3/h For heat pump combination heater: Declared load profile / L / A Water heating energy nwh 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer of correct waste management. At the importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposin of the product as household waste is not permitted.	Thermostat-off mode	Р _{то}	0,082	kW				
Other items Capacity control Fixed Sound power level, indoors/ outdoors L wA Annual energy consumption Q HE 6656 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 2,3 M3/h For heat pump combination heater: Declared load profile / Energy efficiency class L / A Daily electricity consumption Qelec Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na ma Mater heating energy efficiency nwh 87 % Daily electricity consumption Qelec 5,377 kWh Annual fuel consumption Qfuel AEC 1183 KWh Annual fuel consumption AFC Na det product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L wa 49/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 2,3 m3/h Annual energy consumption Q HE 6656 kWh Water heating energy efficiency - 2,3 m3/h For heat pump combination heater: - Declared load profile / Energy efficiency class L / A Water heating energy efficiency na kWh Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. Is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. Is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. Is of great imp	Crankcase heater mode	Р _{СК}	0,000	kW				
Capacity control Fixed Rated air flow rate, outdoors na m3/h Sound power level, indoors/ outdoors L wA 49/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat For water-/brine-to-water heat 2,3 m3/h Annual energy consumption Q HE 6656 kWh KWh State brine or water 2,3 m3/h For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency Nwh 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	Other items					,		
L WA 49/na dB pumps: Rated brine or water Annual energy consumption Q HE 6656 kWh pumps: Rated brine or water For heat pump combination heater: 0 0 0 0 0 Declared load profile / L / A Water heating energy 0 0 0 Energy efficiency class L / A Water heating energy 0 0 0 0 Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	Capacity control		Fixed			-	na	m3/h
Annual energy consumption Q HE 6656 kWh exchanger - 2,3 m3/h For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency η_{wh} 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	L Sound power level, indoors/ outdoors	L _{WA}	49/na	dB				
Declared load profile / Energy efficiency class L / A Water heating energy efficiency nwh 87 % Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.		Q _{HE}	6656	kWh	flow rate, outdoor heat	-	2,3	m3/h
Energy efficiency classL / AefficiencyI/wh87%Daily electricity consumptionQelec5,377kWhDaily fuel consumptionQfuelnakWhAnnual electricity consumptionAEC1183kWhAnnual fuel consumptionAFCnaGJSpecific precautions and end of life information:The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.		ater:						
Energy efficiency class efficiency Daily electricity consumption Qelec 5,377 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1183 kWh Annual fuel consumption AFC na GJ Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.			L/A		Water heating energy	n	87	%
Annual electricity consumption AEC 1183 kWh Annual fuel consumption AFC na GJ The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	Energy efficiency class		-/ ~	1	efficiency	• Iwn		
AEC1183KWnAnnual fuel consumptionAFCnaGJConsumptionFNaGJThe packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	, , ,	Qelec	5,377	kWh	Daily fuel consumption	Qfuel	na	kWh
Specific precautions and endend 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 greatof life information:importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposin of the product as household waste is not permitted.	Annual electricity consumption	AEC			-			
	Specific precautions and end of life information:		end of the product importance that th	's life cycle, it mus e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	e of that type. t	is of great
VIII (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Contact details	CTC AB. Näsväge	•					231218