

Model(s):	CTC EcoAir 420 + CTC EcoLogic						
Air-to-water heat pump:	Yes	Energy efficiency class:		-			
Water-to-water heat pump:	No	Controller class:	VII	-			
Brine-to-water heat pump:	No	Controller contribution:	3,5	%			
Low-temperature heat pump:	No	Package efficiency:	144	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	η_{s}	140	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ir	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	13,0	kW	T j = +2 °C	COPd	2,56] -
T j = + 7 °C	Pdh	16,6	kW	T j = +7 °C	COPd	3,29	-
T j = + 12 °C	Pdh	20,0	kW	T j = +12 °C	COPd	4,33	-
T j = bivalent temperature	Pdh	13,4	kW	T j = bivalent temperature	COPd	2,67	-
T j = operation limit temperature	Pdh	13,8	kW	T j = operation limit temperature	COPd	2,76	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than active	e mode	•	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,3	kW
Thermostat-off mode	P_{TO}	0,020	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	5390	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic hold waste is not permitted.	er offering a ser	vice of that type	. t is of gre
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		Ljungby	/	CIC
CTC EcoAir 420 +	- CTC EcoLogic			
Yes	Energy efficiency class:		-	
No	Controller class:	VII	-	
No	Controller contribution:	3,5	%	
No	Package efficiency:	179	%	
No	Package efficiency class:		-	
No				
	Yes No No No	No Controller class: No Controller contribution: No Package efficiency: No Package efficiency class: No	CTC EcoAir 420 + CTC EcoLogic Yes Energy efficiency class: No Controller class: VII No Controller contribution: 3,5 No Package efficiency: 179 No Package efficiency class: No	Yes Energy efficiency class: - No Controller class: VII - No Controller contribution: 3,5 % No Package efficiency: 179 % No Package efficiency class: - No

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_{s}	175	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ii	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	1 -
T j = + 2 °C	Pdh	13,9	kW	T j = +2 °C	COPd	3,54] -
T j = + 7 °C	Pdh	17,6	kW	T j = +7 °C	COPd	4,46	-
T j = + 12 °C	Pdh	21,2	kW	T j = +12 °C	COPd	5,43	-
T j = bivalent temperature	Pdh	14,2	kW	T j = bivalent temperature	COPd	3,65	-
T j = operation limit temperature	Pdh	14,2	kW	T j = operation limit temperature	COPd	3,60	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than activ	e <u>mode</u>	•	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,4	kW
Thermostat-off mode	P TO	0,068	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4574	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic hold waste is not permitted.	er offering a ser	vice of that type	e. t is of gre
		. 5		•			

Information for heat pump space Average climate and Medium te	CTC AB Ljungby		CIC		
Model(s):	CTC EcoAir 420	+ CTC EcoLogic			
Air-to-water heat pump:	Yes	Energy efficiency class:	A+	-	
Water-to-water heat pump:	No	Controller class:	VII	-	
Brine-to-water heat pump:	No	Controller contribution:	3,5	%	
Low-temperature heat pump:	No	Package efficiency:	123	%	
Equipped with a supplementary hea	ater: No	Package efficiency class:	A+	-	
Heat pump combination heater:	No				

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	η _s	119	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ii	ndoor temperat	ure 20 °C	Declared coefficient of performa part load at indoor temperature	-		
Tj=-7°C	Pdh	10,9	kW	T j = - 7 °C	COPd	2,35] -
T j = + 2 °C	Pdh	13,4	kW	T j = +2 °C	COPd	2,97	-
T j = + 7 °C	Pdh	17,3	kW	T j = +7 °C	COPd	3,81	-
T j = + 12 °C	Pdh	20,3	kW	T j = +12 °C	COPd	4,62] -
Γ j = bivalent temperature	Pdh	11,5	kW	T j = bivalent temperature	COPd	2,49	-
T j = operation limit temperature	Pdh	10,0	kW	T j = operation limit temperature	COPd	2,10	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than activ	e <u>mode</u>		Supplementary heater	ı		-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	4,3	kW
Thermostat-off mode	P_{TO}	0,020	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dВ	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	9646	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:	<u>. </u>					
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	t's life cycle, it m he product's refr	at a recycling station or with the installation engust be sent correctly to a waste station or resel igerant, compressor oil and electrical/electronic hold waste is not permitted.	ler offering a ser	vice of that type	. t is of gre
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Information for heat pump s Average climate and Low ter	•	nd heat pump	combinatio	on heaters	CTC AB Ljungby		a r
Model(s):	inperature	CTC EcoAir 42	0 + CTC EcoL	ogic	LJuligby		
Air-to-water heat pump:		Yes		Energy efficiency class:	A+	-	
Vater-to-water heat pump:		No		Controller class:	VII	-	
rine-to-water heat pump:		No		Controller contribution:	3,5	%	
ow-temperature heat pump:		No		Package efficiency:	149	%	
quipped with a supplementary	heater:	No		Package efficiency class:	A+	-	
Heat pump combination heater	:	No					
			,	for low-temperature heat pumps.			
	•			Itaus	Symbol	Value	11.
	r low-temperat Symbol	ure application Value	Unit	Item	Symbol	Value	Ur
tem	•			Item Seasonal space heating energy efficiency		Value 145	Ur %
tem Nated heat output (*) Declared capacity for heating for	Symbol Prated	Value 14	Unit kW	Seasonal space heating energy	η_s	145 ary energy rat	% io for
parameters shall be declared for tem Rated heat output (*) Declared capacity for heating for and outdoor temperature T j	Symbol Prated	Value 14	Unit kW	Seasonal space heating energy efficiency Declared coefficient of perform	η_s	145 ary energy rat	% io for
tem Rated heat output (*) Declared capacity for heating for and outdoor temperature T j $j = -7$ °C	Symbol Prated or part load at in	Value 14 door temperat	Wnit kW ure 20 °C	Seasonal space heating energy efficiency Declared coefficient of perform part load at indoor temperature.	η _s mance or prima re 20 °C and ou	145 ary energy rat	% io for
Rated heat output (*) Declared capacity for heating found outdoor temperature T j	Symbol Prated or part load at in Pdh	Value 14 door temperat	Unit kW sure 20 °C	Seasonal space heating energy efficiency Declared coefficient of perform part load at indoor temperatu T j = -7 °C	n _s n _s n _s nance or primare 20 °C and ou	145 ary energy rat	% io for
tem Sated heat output (*) Declared capacity for heating for and outdoor temperature T j $j = -7 ^{\circ}\text{C}$ $j = +2 ^{\circ}\text{C}$	Symbol Prated or part load at in Pdh Pdh	Value 14 door temperat 11,5 14,0	Unit kW cure 20 °C kW kW	Seasonal space heating energy efficiency Declared coefficient of perform part load at indoor temperatu T j = -7 °C T j = +2 °C	n _s mance or prima re 20 °C and ou COPd COPd	145 ary energy rate atdoor tempe 3,07 3,72	; io for
tem Sated heat output (*) Declared capacity for heating for and outdoor temperature T j T j = -7 °C T j = +2 °C T j = +7 °C	Symbol Prated or part load at in Pdh Pdh Pdh Pdh	Value 14 door temperat 11,5 14,0 17,7	Unit kW cure 20 °C kW kW kW	Seasonal space heating energy efficiency Declared coefficient of perform part load at indoor temperatu T j = -7 °C T j = +2 °C T j = +7 °C	nance or primare 20 °C and ou COPd COPd COPd	145 ary energy rate atdoor tempe 3,07 3,72 4,64	; io for
tem lated heat output (*) Declared capacity for heating for nd outdoor temperature T j if j = -7 °C if j = +2 °C if j = +7 °C if j = +12 °C	Symbol Prated or part load at in Pdh Pdh Pdh Pdh Pdh Pdh	Value 14 door temperat 11,5 14,0 17,7 21,4	www.kw.kw	Seasonal space heating energy efficiency Declared coefficient of perform part load at indoor temperatu T j = -7 °C T j = +2 °C T j = +7 °C T j = +12 °C	nance or primare 20 °C and ou COPd COPd COPd COPd COPd COPd	145 ary energy rate atdoor tempe 3,07 3,72 4,64 5,56	% io for

T j = operation limit temperature	Pdh	10,5	kW	T j = operation limit temperature	COPd
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
Bivalent temperature	T _{biv}	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL
Power consumption in modes of	ther than active	mode		Supplementary heater	
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup
Thermostat-off mode	P_{TO}	0,068	kW		
Standby mode	P _{SB}	0,018	kW	Type of energy input	
Crankcase heater mode	P _{CK}	0,000	kW		
Other items					

Other items							_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	7739	kWh	flow rate, outdoor heat exchanger	-	na	m3/h

Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of.

Disposing of the product as household waste is not permitted.

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-10

na

55

3,4

Electric

°C

°C

kW

Cold climate and Medium temperature

CTC AB Ljungby



Cold climate and iviedium t	emperature				Ljungby		
Model(s):		CTC EcoAir 42	20 + CTC Ecol	Logic			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	111	%	
Equipped with a supplementa		No		Package efficiency class:		-	
Heat pump combination heate	-	No		,			
		perature applic	ation, except	for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared t	for low-temperat	ture application	١.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_{s}	107	%
Declared capacity for heating and outdoor temperature T j	for part load at ir	ndoor tempera	ture 20 °C	Declared coefficient of performation part load at indoor temperature	-		
T j = -7 °C	Pdh	11,0	kW	T j = - 7 °C	COPd	2,52] -
T j = + 2 °C	Pdh	13,6	kW	T j = +2 °C	COPd	3,15	
T j = + 7 °C	Pdh	17,4	kW	T j = +7 °C	COPd	4,01	
T j = + 12 °C	Pdh	20,5	kW	T j = +12 °C	COPd	4,76	
T j = bivalent temperature	Pdh	8,8	kW	T j = bivalent temperature	COPd	2,16	-
T j = operation limit temperature	Pdh	6,1	kW	T j = operation limit temperature	COPd	1,44	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	8,5	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	1,98	-
Bivalent temperature	T _{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than active	e <u>mode</u>	•	Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	4,9	kW
Thermostat-off mode	P _{TO}	0,020	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•			•		_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	9970	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:						
Declared load profile	na	Efficiency class	_	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
1							

Specific precautions and end of life information:

Annual electricity

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 great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Annual fuel consumption

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na

kWh

AEC

www.ctc.se

na

AFC

GJ

Cold climate and Low temperature

CTC AB Ljungby



Model(s):	CTC EcoAir 420 + CTC EcoLogic					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	VII	-		
Brine-to-water heat pump:	No	Controller contribution:	3,5	%		
Low-temperature heat pump:	No	Package efficiency:	133	%		
Equipped with a supplementary heater:	No	Package efficiency class:		-		
Heat pump combination heater:	No					

parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	129	%
Declared capacity for heating f and outdoor temperature T j	or part load at in	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature	-		
T j = -7 °C	Pdh	11,6	kW	T j = - 7 °C	COPd	3,20] -
T j = + 2 °C	Pdh	14,1	kW	T j = +2 °C	COPd	3,84] -
T j = + 7 °C	Pdh	17,8	kW	T j = +7 °C	COPd	4,74	-
T j = + 12 °C	Pdh	21,3	kW	T j = +12 °C	COPd	5,54	-
T j = bivalent temperature	Pdh	9,4	kW	T j = bivalent temperature	COPd	2,74	-
T j = operation limit temperature	Pdh	6,8	kW	T j = operation limit temperature	COPd	2,04	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	9,1	kW	For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C \text{)}$	COPd	2,63	-
Bivalent temperature	T _{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than activ	e <u>mode</u>	T i	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	5,0	kW
Thermostat-off mode	P_{TO}	0,068	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•		1			
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	8876	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	\mathbf{Q}_{fuel}	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the production	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic shold waste is not permitted.	ler offering a se	vice of that type	e. t is of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34	Ljungby Tel +	-46 372 88000 www.ctc.se		F0005	231218



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231218

Model(s):	CTC EcoAir 420 + CTC EcoZenith i555					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	VII	-		
Brine-to-water heat pump:	No	Controller contribution:	3,5	%		
Low-temperature heat pump:	No	Package efficiency:	127	%		
Equipped with a supplementary heater:	Yes	Package efficiency class:		-		
Heat pump combination heater:	Yes					

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_{s}	123	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	cure 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	-
T j = + 2 °C	Pdh	13,0	kW	T j = +2 °C	COPd	2,25] -
T j = + 7 °C	Pdh	16,6	kW	T j = +7 °C	COPd	2,94	_
T j = + 12 °C	Pdh	20,0	kW	T j = +12 °C	COPd	3,90	-
T j = bivalent temperature	Pdh	13,7	kW	T j = bivalent temperature	COPd	2,34	-
T j = operation limit temperature	Pdh	13,8	kW	T j = operation limit temperature	COPd	2,45	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than activ	re mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	1,7	kW
Thermostat-off mode	P_{TO}	0,051	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items						-	-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	6254	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	Qelec	9,302	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2047	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produc	ct's life cycle, it n he product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic hold waste is not permitted.	ler offering a se	rvice of that type	. t is of grea

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Contact details



Warm climate and Low temperature			Ljungby	/	CIC
Model(s):	CTC EcoAir 420 +	- CTC EcoZenith i555			
Air-to-water heat pump:	Yes	Energy efficiency class:		-	
Water-to-water heat pump:	No	Controller class:	VII	-	
Brine-to-water heat pump:	No	Controller contribution:	3,5	%	
Low-temperature heat pump:	No	Package efficiency:	151	%	
Equipped with a supplementary heater:	Yes	Package efficiency class:		-	
Heat pump combination heater:	Yes				

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	18	kW	Seasonal space heating energy efficiency	η_s	147	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ir	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	13,9	kW	T j = +2 °C	COPd	2,98] -
T j = + 7 °C	Pdh	17,6	kW	T j = +7 °C	COPd	3,89	-
T j = + 12 °C	Pdh	21,3	kW	T j = +12 °C	COPd	4,82	-
T j = bivalent temperature	Pdh	15,4	kW	T j = bivalent temperature	COPd	3,17	-
T j = operation limit temperature	Pdh	14,2	kW	T j = operation limit temperature	COPd	3,04	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,92	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	ther than active	e mode	•	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	4,1	kW
Thermostat-off mode	P_{TO}	0,160	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	6419	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	82	%
Daily electricity consumption	Qelec	9,302	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2047	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic shold waste is not permitted.	ler offering a ser	vice of that type	e. t is of gre
Contact details (CTC AB, Näsväge			<u> </u>		F0005	231218

Information for heat pump s	nace heaters	and heat num	n combinati	on heaters	CTC AB		
Average climate and Mediu	•		o combinati	on neaters	Ljungby		
Model(s):		CTC EcoAir 42	20 + CTC Eco2	Zenith i555	J- 0-7		
Air-to-water heat pump:		Yes		Energy efficiency class:	A+	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	117	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:	A+	-	
Heat pump combination heater	:	Yes					
Parameters shall be declared for parameters shall be declared for				for low-temperature heat pumps.	For low- tempe	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η _s	114	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of perforn part load at indoor temperatur	•		
T j = - 7 °C	Pdh	10,8	kW	Ti=-7°C	COPd	2,22	٦ -
T j = + 2 °C	Pdh	14,5	kW	T j = +2 °C	COPd	3,05	-
T j = + 7 °C	Pdh	17,1	kW	T j = +7 °C	COPd	3,59] -
T j = + 12 °C	Pdh	19,2	kW	T j = +12 °C	COPd	4,17] -
T j = bivalent temperature	Pdh	11,6	kW	T j = bivalent temperature	COPd	2,39] -
T j = operation limit temperature	Pdh	9,5	kW	T j = operation limit temperature	COPd	1,91	
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C

$T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C)$	run	IIa	N V V
Bivalent temperature	T _{biv}	-4	°C
Cycling interval capacity for heating	P _{cych}	na	kW
Degradation co-efficient	Cdh	0,98	-
Power consumption in modes of	her than active	mode	
Tower consumption in modes of	inci than active	mode	
Off mode	P OFF	0,018	kW
•			kW kW
Off mode	P _{OFF}	0,018	
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0,018 0,051	kW

T j = - 7 °C	COPd	2,22	-	
T j = +2 °C	COPd	3,05	-	
T j = +7 °C	COPd	3,59	-	
T j = +12 °C	COPd	4,17	-	
T j = bivalent temperature	COPd	2,39	-	
T j = operation limit temperature	COPd	1,91	-	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-	
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval efficiency	СОРсус	na	-	
Heating water operating limit temperature	WTOL	55	°C	
Supplementary heater				
Rated heat output (*)	Psup	5,8	kW	
Type of energy input	Electric			

Capacity control	Variable				
Sound power level, indoors/outdoors	L _{WA}	na/66	dB		
Annual energy consumption	Q _{HE}	10830	kWh		

For air-to-water heat pumps: Rated air flow rate, outdoors	4100	m3/h
For water-/brine-to-water heat pumps: Rated brine or water		
flow rate, outdoor heat - exchanger	na	m3/h

Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	70	%
Daily electricity consumption	Qelec	10,835	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2384	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of.

Disposing of the product as household waste is not permitted.

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rmation for heat pump sprage climate and Low ter		and heat pum	p combinati	on heaters	CTC AB Ljungby		
odel(s):		CTC EcoAir 42	20 + CTC Eco2	enith i555	-,		
r-to-water heat pump:		Yes		Energy efficiency class:	Α	-	
ater-to-water heat pump:		No		Controller class:	VII	-	
ine-to-water heat pump:		No		Controller contribution:	3,5	%	
w-temperature heat pump:		No		Package efficiency:	123	%	
uipped with a supplementary	heater:	Yes		Package efficiency class:	A+	-	
eat pump combination heater		Yes					
			ation, except	for low-temperature heat pumps.	or low- tempe	rature heat	pump
arameters shall be declared fo	r low-temperat	ure application	1.				
em	Symbol	Value	Unit	Item	Symbol	Value	Un
ated heat output (*)	Prated	16	kW	Seasonal space heating energy efficiency	η _s	119	%
eclared capacity for heating fond outdoor temperature T j	r part load at ir	ndoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperatur	•		
j = − 7 °C	Pdh	11,5	kW	T j = - 7 °C	COPd	2,49] -
j = + 2 °C	Pdh	14,0	kW	T j = +2 °C	COPd	3,12] -
j = + 7 °C	Pdh	17,7	kW	T j = +7 °C	COPd	4,02] -
j = + 12 °C	Pdh	21,4	kW	T j = +12 °C	COPd	4,91	_
j = bivalent temperature	Pdh	12,3	kW	T j = bivalent temperature	COPd	2,71	-
j = operation limit emperature	Pdh	10,5	kW	T j = operation limit temperature	COPd	2,26	
or air-to-water heat pumps: $j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C)$	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
valent temperature	T _{biv}	-4	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
ycling interval capacity for eating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
cating							

Degradation co-efficient	Cdh	0,94	-	Heating water operating limit temperature	WTO
Power consumption in modes	other than active	mode	_	Supplementary heater	
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup
Thermostat-off mode	P_{TO}	0,160	kW		
Standby mode	P_{SB}	0,018	kW	Type of energy input	
Crankcase heater mode	P _{CK}	0,000	kW		
Other items					

Fixed

na/66

10879

Type of energy input		Electric	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat		n o	m2/h

For heat pump combination heater:

Sound power level, indoors/

Annual energy consumption

Capacity control

outdoors

Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	$\eta_{\sf wh}$	70	%
Daily electricity consumption	Qelec	10,835	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2384	kWh	Annual fuel consumption	AFC	NA	GJ

dB

kWh

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of.

Disposing of the product as household waste is not permitted.

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Q_{HE}

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231218

°C

kW

m3/h

CTC AB



Cold climate and Medium te	mperature				Ljungby			
Model(s):		CTC EcoAir 4	20 + CTC EcoZ	Zenith i555				
Air-to-water heat pump:		Yes		Energy efficiency class:		-		
Water-to-water heat pump:		No		Controller class:	VII	-		
Brine-to-water heat pump:	er heat pump: No		Controller contribution:	3,5 %				
Low-temperature heat pump:		No I		Package efficiency:	94	%		
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-		
Heat pump combination heater: Parameters shall be declared for parameters shall be declared for	r medium-temp			for low-temperature heat pumps. F	or low- tempo	erature heat	pumps,	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η _s	90	%	
Declared capacity for heating fo	r part load at in	door tempera	ture 20 °C	Declared coefficient of perform	ance or prima	iry energy ra	tio for	

TCIII	5,551	value	01		3,	value	0
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_{s}	90	%
Declared capacity for heating f and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature	-		
Tj=-7°C	Pdh	11,0	kW	T j = -7 °C	COPd	2,16] -
T j = + 2 °C	Pdh	13,6	kW	T j = +2 °C	COPd	2,73	-
T j = + 7 °C	Pdh	17,4	kW	T j = +7 °C	COPd	3,55	-
T j = + 12 °C	Pdh	20,5	kW	T j = +12 °C	COPd	4,26	-
T j = bivalent temperature	Pdh	10,1	kW	T j = bivalent temperature	COPd	2,01	-
T j = operation limit temperature	Pdh	6,1	kW	T j = operation limit temperature	COPd	1,13	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	8,5	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,62	-
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than activ	re <u>mode</u>	-	Supplementary heater		,	-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	8,5	kW
Thermostat-off mode	P _{TO}	0,051	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	15548	kWh	flow rate, outdoor heat exchanger		na	m3/h
For heat pump combination he	eater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	64	%
Daily electricity consumption	Qelec	11,937	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity	AEC	2626	kWh	Annual fuel consumption	AFC	NA	GJ

For fleat pullip combination in	eater.						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	$\eta_{\sf wh}$	64	%
Daily electricity consumption	Qelec	11,937	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2626	kWh	Annual fuel consumption	AFC	NA	GJ
	-	The packaging m	ust he deposited at a	recycling station or with the installation	ongineer for correct	wasto managon	nont Attho

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

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CTC AB



°C

°C

kW

Cold climate and Low tem	perature	na neat pain	p combinati	onneaters	Ljungby		
Model(s):		CTC EcoAir 42	20 + CTC EcoZ	Zenith i555			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No		Controller contribution:	3,5	%	
Low-temperature heat pump	p: No			Package efficiency: 106		%	
Equipped with a supplement	ary heater:	Yes		Package efficiency class:		-	
Heat pump combination hear	ter:	Yes					
				f 1			
Parameters shall be declared parameters shall be declared Item				for low-temperature heat pumps. F	or low- temp	erature heat Value	pumps, Unit
parameters shall be declared	I for low-temperat	ure application	۱.				
parameters shall be declared	Symbol Prated g for part load at in	value 18	unit kW	Item Seasonal space heating energy	$Symbol$ $n_{\mathcal{S}}$ ance or prima	Value 102 ary energy rat	Unit %
parameters shall be declared Item Rated heat output (*) Declared capacity for heating	Symbol Prated g for part load at in	value 18	unit kW	Seasonal space heating energy efficiency Declared coefficient of perform	$Symbol$ $n_{\mathcal{S}}$ ance or prima	Value 102 ary energy rat	Unit %

T j = - 7 °C	Pdh	11,6	kW	T j = - 7 °C	COPd	2,60
T j = + 2 °C	Pdh	14,1	kW	T j = +2 °C	COPd	3,22
T j = + 7 °C	Pdh	17,8	kW	T j = +7 °C	COPd	4,11
T j = + 12 °C	Pdh	21,4	kW	T j = +12 °C	COPd	4,90
T j = bivalent temperature	Pdh	11,3	kW	T j = bivalent temperature	COPd	2,54
T j = operation limit temperature	Pdh	6,8	kW	T j = operation limit temperature	COPd	1,48
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	9,1	kW	For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	COPd	2,59
Bivalent temperature	T _{biv}	-8	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na
Degradation co-efficient	Cdh	0,93	-	Heating water operating limit temperature	WTOL	55
Power consumption in modes o	ther than active	mode	_	Supplementary heater		
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	11,0
Thermostat-off mode	P _{TO}	0,160	kW			-

		-,	l				
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 pum Rated air flow rate, outdoo	ors	4100	m3/h
Cound namer lavel indeers/				For water /bring to water	hoat		

For water-/brine-to-water heat Sound power level, indoors/ na/66 dΒ L_{WA} pumps: Rated brine or water outdoors flow rate, outdoor heat 16783 kWh Annual energy consumption na m3/h Q_{HE} exchanger

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	64	%
Daily electricity consumption	Qelec	11,937	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2626	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of.

Disposing of the product as household waste is not permitted. CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 F0005 231218 Contact details www.ctc.se

Warm climate and Medium temperature

CTC AB Ljungby



Model(s):	CTC EcoAir 420 + CTC Basicstyrning						
Air-to-water heat pump:	Yes	Energy efficiency class:	Energy efficiency class:				
Water-to-water heat pump:	No	Controller class:	1	-			
Brine-to-water heat pump:	No	Controller contribution:	1	%			
Low-temperature heat pump:	No	Package efficiency:	141	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	η_{s}	140	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ir	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	13,0	kW	T j = +2 °C	COPd	2,56] -
T j = + 7 °C	Pdh	16,6	kW	T j = +7 °C	COPd	3,29	-
T j = + 12 °C	Pdh	20,0	kW	T j = +12 °C	COPd	4,33	-
T j = bivalent temperature	Pdh	13,4	kW	T j = bivalent temperature	COPd	2,67	-
T j = operation limit temperature	Pdh	13,8	kW	T j = operation limit temperature	COPd	2,76	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than active	e mode	•	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,3	kW
Thermostat-off mode	P_{TO}	0,020	kW				
Standby mode	P_{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	5390	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic hold waste is not permitted.	er offering a ser	vice of that type	. t is of gre
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Information for heat pump space heaters and heat pump comb	ination heaters
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Warm climate and Low temperature

CTC AB Ljungby



Model(s):	CTC EcoAir 420 +			
Air-to-water heat pump:	Yes	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	I	-
Brine-to-water heat pump:	No	Controller contribution:	1	%
Low-temperature heat pump:	No	Package efficiency:	176	%
Equipped with a supplementary heater:	No	Package efficiency class:		-
Heat pump combination heater:	No			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_{s}	175	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ii	ndoor temperat	ture 20 °C	Declared coefficient of performal part load at indoor temperature 2			
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	1 -
T j = + 2 °C	Pdh	13,9	kW	T j = +2 °C	COPd	3,54] -
T j = + 7 °C	Pdh	17,6	kW	T j = +7 °C	COPd	4,46	-
T j = + 12 °C	Pdh	21,2	kW	T j = +12 °C	COPd	5,43	-
T j = bivalent temperature	Pdh	14,2	kW	T j = bivalent temperature	COPd	3,65	-
T j = operation limit temperature	Pdh	14,2	kW	T j = operation limit temperature	COPd	3,60	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than activ	e <u>mode</u>	•	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,4	kW
Thermostat-off mode	P TO	0,068	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4574	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resell rigerant, compressor oil and electrical/electronic hold waste is not permitted.	er offering a ser	vice of that type	e. t is of gre
		. 5		•			

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature						
perature			Ljungby			
CTC EcoAir	420 + CTC Bas	icstyrning				
Yes		Energy efficiency class:	A+	-		
No		Controller class:	I	-		
No		Controller contribution:	1	%		
No		Package efficiency:	120	%		
: No		Package efficiency class:	A+	-		
No	,					
ım-temperature appl	ication, excep	t for low-temperature heat pump	s. For low- tem	perature	heat pu	ımps,
	Yes No No No No No No	CTC EcoAir 420 + CTC Bas Yes No No No No No	CTC EcoAir 420 + CTC Basicstyrning Yes Energy efficiency class: No Controller class: No Controller contribution: No Package efficiency: No Package efficiency class: No	CTC EcoAir 420 + CTC Basicstyrning Yes Energy efficiency class: A+ No Controller class: I No Controller contribution: 1 No Package efficiency: 120 : No Package efficiency class: A+ No	CTC EcoAir 420 + CTC Basicstyrning Yes Energy efficiency class: A+ - No Controller class: I - No Controller contribution: 1 % No Package efficiency: 120 % No Package efficiency class: A+ - No	CTC EcoAir 420 + CTC Basicstyrning Yes Energy efficiency class: A+ - No Controller class: I - No Controller contribution: 1 % No Package efficiency: 120 % No Package efficiency class: A+ -

Rated heat output (*) Prate Declared capacity for heating for part load and outdoor temperature T j $T j = -7 ^{\circ}C$ Pdh $T j = +2 ^{\circ}C$ Pdh $T j = +7 ^{\circ}C$ Pdh $T j = +12 ^{\circ}C$ Pdh $T j = \text{bivalent temperature}$ Pdh $T j = \text{operation limit}$ Pdh temperature Pdh For air-to-water heat pumps: Pdh $T j = -15 ^{\circ}C ^{\circ}$	10,9 13,4 17,3 20,3 11,5	kW erature 20 °C kW kW kW kW kW	Seasonal space heating energy efficiency Declared coefficient of performa part load at indoor temperature T j = -7 °C T j = +2 °C T j = +7 °C T j = +12 °C T j = bivalent temperature T j = operation limit temperature	•		
and outdoor temperature T j $T = -7 ^{\circ}C$	10,9 13,4 17,3 20,3 11,5 10,0	kW kW kW kW kW	part load at indoor temperature $Tj = -7 ^{\circ}C$ $Tj = +2 ^{\circ}C$ $Tj = +7 ^{\circ}C$ $Tj = +12 ^{\circ}C$ $Tj = \text{bivalent temperature}$ $Tj = \text{operation limit}$	20 °C and ou COPd COPd COPd COPd	2,35 2,97 3,81 4,62	
T j = -7 °C Pdh T j = $+2$ °C Pdh T j = $+2$ °C Pdh T j = $+7$ °C Pdh T j = $+7$ °C Pdh T j = $+12$ °C Pdh T j = bivalent temperature Pdh T j = operation limit Pdh temperature For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Bivalent temperature T biv Cycling interval capacity for heating P cyc. Degradation co-efficient Cdh Power consumption in modes other than Off mode P off Thermostat-off mode P To Standby mode P SB	13,4 17,3 20,3 11,5 10,0	kW kW kW kW	$Tj = -7 ^{\circ}C$ $Tj = +2 ^{\circ}C$ $Tj = +7 ^{\circ}C$ $Tj = +12 ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit$	COPd COPd COPd COPd	2,35 2,97 3,81 4,62	rature T
T j = + 2 °C Pdh T j = + 7 °C Pdh T j = + 12 °C Pdh T j = + 12 °C Pdh T j = bivalent temperature Pdh T j = operation limit Pdh temperature Pdh T j = operation limit Pdh temperature Pdh T j = -15 °C (if TOL < -20 °C) Pdh Bivalent temperature T biv Cycling interval capacity for heating P cyc. Degradation co-efficient Cdh Power consumption in modes other than Off mode P OFF Thermostat-off mode P TO Standby mode P SB	13,4 17,3 20,3 11,5 10,0	kW kW kW kW	T j = +2 °C T j = +7 °C T j = +12 °C T j = bivalent temperature T j = operation limit	COPd COPd COPd COPd	2,97 3,81 4,62	- - - -
T j = + 7 °C Pdh T j = + 12 °C Pdh T j = bivalent temperature Pdh T j = operation limit temperature For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Bivalent temperature T_{biv} Cycling interval capacity for heating P_{cyc} Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{off} Thermostat-off mode P_{To} Standby mode P_{SB}	17,3 20,3 11,5 10,0	kW kW kW	T j = +7 °C $T j = +12 °C$ $T j = bivalent temperature$ $T j = operation limit$	COPd COPd COPd	3,81 4,62	- - -
T j = + 12 °C Pdh T j = bivalent temperature Pdh T j = operation limit temperature For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C) Bivalent temperature Pdh Cycling interval capacity for heating P Degradation co-efficient P Power consumption in modes other than Off mode P Thermostat-off mode P To said the strength P Thermostat-off mode P Thermostat-off mode P To said P To sa	20,3 11,5 10,0 na	kW kW kW	T j = +12 °C T j = bivalent temperature T j = operation limit	COPd COPd	4,62	- - -
T j = bivalent temperature T j = operation limit temperature For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Power consumption in modes other than Off mode Thermostat-off mode Poss Figure 19 10 10 10 10 10 10 10 10 10 10 10 10 10	11,5 10,0 na	kW kW	T j = bivalent temperature T j = operation limit	COPd		- -
T j = operation limit temperature For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Power consumption in modes other than Off mode Thermostat-off mode Poss Standby mode Pdh Poh Poh Poss	10,0 na	kW	T j = operation limit		2,49	-
temperature For air-to-water heat pumps: $T j = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Cdh Power consumption in modes other than Off mode Thermostat-off mode P_{TO} Standby mode	na			COPd		
For air-to-water heat pumps: Pdh T $j = -15$ °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Cdh Power consumption in modes other than Off mode Thermostat-off mode P $_{TO}$ Standby mode		k/M/	temperature		2,10	-
T j = -15 °C (if TOL < -20 °C) Bivalent temperature Cycling interval capacity for heating Degradation co-efficient Cdh Power consumption in modes other than Off mode Thermostat-off mode P TO Standby mode		k۱۸/	1 1			ł
Bivalent temperature T_{biv} Cycling interval capacity for heating P_{cyc} Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{off} Thermostat-off mode P_{To} Standby mode P_{SB}		I. V V	For air-to-water heat pumps:	COPd	na	-
Cycling interval capacity for heating P_{cyc} Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{off} Thermostat-off mode P_{TO} Standby mode P_{SB}	_		T j = -15 °C (if TOL < -20 °C)			
Cycling interval capacity for heating P_{cyc} Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{off} Thermostat-off mode P_{TO} Standby mode P_{SB}		°C	For air-to-water heat pumps:	TOL	-10	°c
heating P_{cyc} Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{OFF} Thermostat-off mode P_{TO} Standby mode P_{SB}	, -3		Operation limit temperature	TOL	-10	
Degradation co-efficient Cdh Power consumption in modes other than Off mode P_{OFF} Thermostat-off mode P_{TO} Standby mode P_{SB}	_h na	kW	Cycling interval efficiency	СОРсус	na] -
Power consumption in modes other than Off mode P_{OFF} Thermostat-off mode P_{TO} Standby mode P_{SB}	11	_		.,.		
Off mode P_{OFF} Thermostat-off mode P_{TO} Standby mode P_{SB}	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Thermostat-off mode P_{TO} Standby mode P_{SB}	active mode		Supplementary heater			1
Standby mode P _{SB}	0,018	kW	Rated heat output (*)	Psup	4,3	kW
	0,020	kW				
-	0,018	kW	Type of energy input		Electric	
Crankcase heater mode P_{CK}	0,000	kW				
Other items		•		•		
			For air-to-water heat pumps:			
Capacity control	Fixed		Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/			For water-/brine-to-water heat			
outdoors L_{WA}	na/66	dB	pumps: Rated brine or water			
Annual energy consumption Q HE	9646	kWh	flow rate, outdoor heat	_	na	m3/h
	3040	KVIII	exchanger		iiu	1113/11
For heat pump combination heater:	F#: -:		Materia antina anama		1	
Declared load profile na	Efficiency class	/	Water heating energyefficiency	η_{wh}	na	%
Daily electricity consumption Qele	ec na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
consumption		g must be deposited	at a recycling station or with the installation er		t waste manager	nent. At th
Specific precautions and end	end of the pr	oduct's life cycle, it r	must be sent correctly to a waste station or rese	ller offering a se	rvice of that type	. t is of gre
of life information:			rigerant, compressor oil and electrical/electroni ehold waste is not permitted.	c equipment are	properly dispose	d of.
Contact details CTC AB, N		34 Ljungby Tel	·		F0005	231218

Information for heat pump s Average climate and Low te	=	and heat pum	o combinati	on heaters	CTC AB Ljungby		To
Model(s):	•	CTC EcoAir 42	20 + CTC Basi	cstyrning	<u> </u>		
Air-to-water heat pump:		Yes		Energy efficiency class:	A+	-	
Water-to-water heat pump:		No		Controller class:	1	-	
Brine-to-water heat pump:		No		Controller contribution:	1	%	
ow-temperature heat pump:		No		Package efficiency:	146	%	
Equipped with a supplementary	/ heater:	No		Package efficiency class:	A+	-	
Heat pump combination heater Parameters shall be declared fo		No perature applic	ation, except	for low-temperature heat pumps.	or low- tempe	erature heat	pumps,
parameters shall be declared fo	r low-temperat	ure application	١.				
ltem	Symbol Value Unit Item		Symbol	Value	Unit		
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	η_s	145	%
Declared capacity for heating fo and outdoor temperature T j	or part load at ii	ndoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperatur	•		
Tj=-7°C	Pdh	11,5	kW	T j = - 7 °C	COPd	3,07	-
Γ j = + 2 °C	Pdh	14,0	kW	T j = +2 °C	COPd	3,72] -
Γ j = + 7 °C	Pdh	17,7	kW	T j = +7 °C	COPd	4,64	-
T j = + 12 °C	Pdh	21,4	kW	T j = +12 °C	COPd	5,56	_
Γ j = bivalent temperature	Pdh	11,5	kW	T j = bivalent temperature	COPd	3,15	-
Γj = operation limit	Pdh	10,5	kW	T j = operation limit temperature	COPd	2,82	-
cemperature							
For air-to-water heat pumps:	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
· For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C)	Pdh T _{biv}	na -6	kW °C	1 1	COPd TOL	-10	- °C
Temperature For air-to-water heat pumps: $\Gamma j = -15 ^{\circ}\text{C}$ (if $\text{TOL} < -20 ^{\circ}\text{C}$) Bivalent temperature Cycling interval capacity for meating				T j = -15 °C (if TOL < -20 °C) For air-to-water heat pumps:			- °C

Degradation co-efficient	Cdh	0,98	-		eating water operating limit emperature	WTOL	55
Power consumption in modes	other than active	e mode	_	Sı	upplementary heater		
Off mode	P OFF	0,018	kW	Ra	ated heat output (*)	Psup	3,4
Thermostat-off mode	P _{TO}	0,068	kW				•
Standby mode	P_{SB}	0,018	kW	Ty	pe 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
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water
Annual energy consumption	Q _{HE}	7739	kWh	flow rate, outdoor heat exchanger

For heat pump combination he	eater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ

4100

na

°C

kW

m3/h

m3/h

consumption					<u> </u>		
	The packaging m	ust be deposited at a	recycling station or with the installation engineer for correc	t waste managen	nent. At the		
Specific precautions and end	end of the produ	ct's life cycle, it must	be sent correctly to a waste station or reseller offering a ser	vice of that type.	t is of great		
of life information:	importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of.						
of the information.	Disposing of the product as household waste is not permitted.						

Cold climate and Medium temperature

CTC AB Ljungby



Model(s):	CTC EcoAir 420 + CTC Basicstyrning					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	1	-		
Brine-to-water heat pump:	No	Controller contribution:	1	%		
Low-temperature heat pump:	No	Package efficiency:	108	%		
Equipped with a supplementary heater:	No	Package efficiency class:		-		
Heat pump combination heater:	No					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_{s}	107	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	ture 20 °C	Declared coefficient of performa part load at indoor temperature	•		
Tj=-7°C	Pdh	11,0	kW	T j = -7 °C	COPd	2,52	-
T j = + 2 °C	Pdh	13,6	kW	T j = +2 °C	COPd	3,15	-
T j = + 7 °C	Pdh	17,4	kW	T j = +7 °C	COPd	4,01	-
T j = + 12 °C	Pdh	20,5	kW	T j = +12 °C	COPd	4,76	-
T j = bivalent temperature	Pdh	8,8	kW	T j = bivalent temperature	COPd	2,16	-
T j = operation limit temperature	Pdh	6,1	kW	T j = operation limit temperature	COPd	1,44	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	8,5	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,98	-
Bivalent temperature	T _{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than activ	e mode	•	Supplementary heater			-
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	4,9	kW
Thermostat-off mode	P_{TO}	0,020	kW			•	
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•					
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	9970	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination hea	ater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n the product's ref	at a recycling station or with the installation eng nust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic shold waste is not permitted.	ler offering a se	vice of that type	. t is of great
Contact details (TC AB. Näsväge	en 8, SE-341 34	Liungby Tel +	-46 372 88000 www.ctc.se		F0005	231218

Cold climate and Low temperature

CTC AB Ljungby



Model(s):	CTC EcoAir 420 + CTC Basicstyrning					
Air-to-water heat pump:	Yes	Energy efficiency class:		-		
Water-to-water heat pump:	No	Controller class:	1	-		
Brine-to-water heat pump:	No	Controller contribution:	1	%		
Low-temperature heat pump:	No	Package efficiency:	130	%		
Equipped with a supplementary heater:	No	Package efficiency class:		-		
Heat pump combination heater:	No					

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	129	%
Declared capacity for heating f and outdoor temperature T j	or part load at in	ndoor temperat	cure 20 °C	Declared coefficient of performal part load at indoor temperature			
T j = -7 °C	Pdh	11,6	kW	T j = -7 °C	COPd	3,20	-
T j = + 2 °C	Pdh	14,1	kW	T j = +2 °C	COPd	3,84	-
T j = + 7 °C	Pdh	17,8	kW	T j = +7 °C	COPd	4,74	-
T j = + 12 °C	Pdh	21,3	kW	T j = +12 °C	COPd	5,54	-
T j = bivalent temperature	Pdh	9,4	kW	T j = bivalent temperature	COPd	2,74	-
T j = operation limit temperature	Pdh	6,8	kW	T j = operation limit temperature	COPd	2,04	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	9,1	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,63	-
Bivalent temperature	T _{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	_
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes	other than active	e mode	r	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	5,0	kW
Thermostat-off mode	P _{TO}	0,068	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	8876	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
For heat pump combination he	eater:						
Declared load profile	na	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	na	%
Daily electricity consumption	Qelec	na	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the productimportance that t	ct's life cycle, it n he product's ref	at a recycling station or with the installation enginust be sent correctly to a waste station or resel rigerant, compressor oil and electrical/electronic hold waste is not permitted.	er offering a ser	vice of that type	. t is of great
Contact details	CTC AB, Näsväge	en 8, SE-341 34	Ljungby Tel +	-46 372 88000 www.ctc.se		F0005	231218