Warm climate and Medium temperature

CTC AB Liunghy



Warm climate and Medium	temperature				Ljungby		
Model(s):		CTC EcoAir 70	8M + CTC Ec	oLogic			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	188	%	
Equipped with a supplementar	y heater:	No		Package efficiency class:		-	
Heat pump combination heater	r:	No					
				for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared for	•						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	184	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	cure 20 °C	Declared coefficient of performation part load at indoor temperature	-		
T j = -7 °C	Pdh		kW	T j = - 7 °C	COPd		-
T j = + 2 °C	Pdh	5,8	kW	T j = +2 °C	COPd	2,58	
T j = + 7 °C	Pdh	3,9	kW	T j = +7 °C	COPd	3,86	-
T j = + 12 °C	Pdh	2,3	kW	T j = +12 °C	COPd	6,18	-
T j = bivalent temperature	Pdh	5,8	kW	T j = bivalent temperature	COPd	2,58	-
T j = operation limit temperature	Pdh	5,8	kW	T j = operation limit temperature	COPd	2,58	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	NA	-
Bivalent temperature	T _{biv}	2	°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	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2,787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dВ	For water-/brine-to-water heat pumps: Rated brine or water	_	NA	m3/h
Annual energy consumption	Q _{HE}	1630	kWh	flow rate, outdoor heat exchanger			
For heat pump combination he	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 produc	ct's life cycle, it n that the produc	at a recycling station or with the installation er nust be sent correctly to a waste station or rese t's refrigerant, compressor oil and electrical/ele shold waste is not permitted.	eller offering a se	rvice of that typ	e. It is of

CTC AB



Warm climate and Low tem	•	and near pamp	231112111411		Ljungby		CIC
Model(s):		CTC EcoAir 70	8M + CTC Ed	coLogic			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	247	%	
Equipped with a supplementary	/ heater:	No		Package efficiency class:		-	
Heat pump combination heater		No					
				t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared for							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	243	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	indoor temperat	ure 20 °C	Declared coefficient of perform part load at indoor temperature			
T j = -7 °C	Pdh		kW	T j = - 7 °C	COPd		_
T j = + 2 °C	Pdh	5,7	kW	T j = +2 °C	COPd	3,40	-
T j = + 7 °C	Pdh	3,5	kW	T j = +7 °C	COPd	5,00	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,51	-
T j = bivalent temperature	Pdh	5,7	kW	T j = bivalent temperature	COPd	3,40	-
T j = operation limit temperature	Pdh	5,7	kW	T j = operation limit temperature	COPd	3,40	
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}	2	°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 of	ther than activ	ve mode		Supplementary heater			
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P SB	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		•		1			
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water	-	NA	m3/h
Annual energy consumption	Q_{HE}	1237	kWh	flow rate, outdoor heat exchanger			
For heat pump combination hea	ater:	•		<u> </u>		-	-
Declared load profile	NA	Efficiency class		Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	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 product great importance t	t's life cycle, it r that the produc	I at a recycling station or with the installation en must be sent correctly to a waste station or result's refrigerant, compressor oil and electrical/elec	eller offering a se	rvice of that type	e. It is of

Disposing of the product as household waste is not permitted.

CTC AB



Average climate and Medium	•		Combinati	OII IIEalei S	Ljungby		
Model(s):		CTC EcoAir 70	8M + CTC Ec	coLogic	Ljungby		
Air-to-water heat pump:		Yes		Energy efficiency class:	A+++	-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	155	%	
Equipped with a supplementary	/ heater:	No		Package efficiency class:	A+++	_	
Heat pump combination heater		No					
			ation, except	t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared for	r low-tempera	ture application					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	151	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C	Declared coefficient of performation part load at indoor temperature			
T j = -7 °C	Pdh	4,4	kW	T j = - 7 °C	COPd	2,43] -
T j = + 2 °C	Pdh	2,7	kW	T j = +2 °C	COPd	3,82	-
T j = + 7 °C	Pdh	2,0	kW	T j = +7 °C	COPd	4,85	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,16	-
T j = bivalent temperature	Pdh	4,6	kW	T j = bivalent temperature	COPd	2,14	-
T j = operation limit temperature	Pdh	4,6	kW	T j = operation limit temperature	COPd	2,14	-
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}	-10	°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	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	ther than activ	e mode		Supplementary heater			
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P SB	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dВ	For water-/brine-to-water heat pumps: Rated brine or water	_	NA	m3/h
Annual energy consumption	Q _{HE}	2687	kWh	flow rate, outdoor heat exchanger		NA.	1113/11
For heat pump combination hea	ater:						
Declared load profile	NA	Efficiency class	NA	Water heating energy efficiency	η_{wh}	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.

Information for heat pump s Average climate and Low te		and heat pump	o combinati	on heaters	CTC AB Ljungby		Ec
Model(s):		CTC EcoAir 70	08M + CTC Ed	coLogic	Ljungby		
Air-to-water heat pump:		Yes		Energy efficiency class:	A+++	-	
Water-to-water heat pump:		No		Controller class:	VI	_	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	202	%	
Equipped with a supplementar	v heater:	No		Package efficiency class:	A+++	-	
Heat pump combination heater	•	No					
			ation, except	t for low-temperature heat pumps. F	or low- temp	erature heat	pumps
parameters shall be declared fo	or low-tempera	ture application	١.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	198	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperature	-		
T i = -7 °C	Pdh	4,7	kW	T j = - 7 °C	COPd	3,30] -
T j = + 2 °C	Pdh	2,9	kW	T j = +2 °C	COPd	4,99	-
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	6,24	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,00	-
T j = bivalent temperature	Pdh	5,0	kW	T j = bivalent temperature	COPd	2,93	-
T j = operation limit temperature	Pdh	5,0	kW	T j = operation limit temperature	COPd	2,93	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	NA	-
Bivalent temperature	T _{biv}	-10	°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	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than activ	e <u>mode</u>	•	Supplementary heater			-
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/l
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	NA	m3/l
Annual energy consumption	Q _{HE}	2176	kWh	flow rate, outdoor heat			

For heat pump combination heater:

Declared load profile	NA	Efficiency class	NA	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

exchanger

 Q_{HE}

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. It 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



mperature				Ljungby		
	CTC EcoAir 70	8M + CTC Ec	oLogic			
	Yes		Energy efficiency class:		-	
	No		Controller class:	VI	-	
	No		Controller contribution:	4	%	
	No		Package efficiency:	138	%	
heater:	No		Package efficiency class:		-	
	No					
			for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
•						
Symbol	Value	Unit	7	Symbol	Value	Unit
Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	134	%
r part load at i	ndoor temperat	ure 20 °C				
			part load at ilidoor temperature	: 20 C and 00		
Pdh	3,7	kW	T j = -7 °C	COPd	2,93	-
Pdh	2,4	kW	1 1 7	COPd	4,28	-
Pan	2,4	KVV		СОРа	6,45	
Pdh	4,3	kW	T j = bivalent temperature	COPd	2,23	-
Pdh	3,1	kW	T j = operation limit temperature	COPd	1,57	-
Pdh	4,1	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,09	-
T _{biv}	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
P cych	NA	kW	Cycling interval efficiency	СОРсус	NA	-
Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
ther than activ	re mode		Supplementary heater			_
P OFF	0,015	kW	Rated heat output (*)	Psup	2,9	kW
P _{TO}	0,015	kW				
P SB	0,015	kW	Type of energy input		Electric	
P _{CK}	0,000	kW				
	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water			2.4
Q _{HE}	4316	kWh	flow rate, outdoor heat exchanger	-	NA	m3/h
iter:						
NA	Efficiency class	NA	Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	NA	%
Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
	r low-tempera Symbol Prated r part load at i Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	CTC EcoAir 70 Yes No No No No heater: No redium-temperature application Symbol Value Prated 6 repart load at indoor temperature application Pdh 2,4 Pdh 2,4 Pdh 2,4 Pdh 2,0 Pdh 2,4 Pdh 4,3 Pdh 4,3 Pdh 4,1 Tbiv -13 Pcych NA Cdh 0,98 ther than active mode Poff 0,015 Por 0,015	CTC EcoAir 708M + CTC Eco Yes	TCTC EcoAir 708M + CTC EcoLogic Yes Energy efficiency class: No Controller cass: No Package efficiency: No Package efficiency class: I tem Variable Class	CTC EcoAir 708M + CTC EcoLogic Yes Energy efficiency class: No Controller contribution: A No Package efficiency class: No remedium-temperature application, except for low-temperature heat pumps. For low-temperature application. Symbol Value Unit tem Symbol Prated 6 kW Seasonal space heating energy efficiency efficiency part load at indoor temperature 20 °C Padh 2,4 kW Padh 3,1 kW Padh 4,3 kW Padh 4,1 kW Padh 4,1 kW Pooperature For air-to-water heat pumps: ToL Operation limit temperature Poych NA kW Cycling interval efficiency COPCyc Heating water operating limit temperature WTOL temperature LwA NA / 46 dB QHE Variable Reficiency NA KWH Por air-to-water heat pumps: And Alb For air-to-water heat pumps: For air-to-water heat pumps: Type of energy input Powater heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated air flow rate, out	CTC EcoAir 708M + CTC EcoLogic Yes

Specific precautions and end of life information:

end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It 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



Cold climate and Low tempe		aa neat pain	r		Ljungby		
Model(s):		CTC EcoAir 70	08M + CTC E	coLogic			
Air-to-water heat pump:		Yes		Energy efficiency class:			
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	171	%	
Equipped with a supplementary	heater:	No		Package efficiency class:		-	
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	r medium-tem			t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	167	%
Declared capacity for heating fo and outdoor temperature T j	or part load at i	indoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperature			
T j = -7 °C	Pdh	3,7	kW	T j = - 7 °C	COPd	3,63] -
T j = + 2 °C	Pdh	2,3	kW	T j = +2 °C	COPd	5,20	
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	6,74	」 -
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,04	-
T j = bivalent temperature	Pdh	4,6	kW	T j = bivalent temperature	COPd	2,89	-
T j = operation limit temperature	Pdh	3,6	kW	T j = operation limit temperature	COPd	2,25	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	4,4	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,69	-
Bivalent temperature	T _{biv}	-13	°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 o	ther than activ	ve <u>mode</u>	•	Supplementary heater			_
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	2,4	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	NA	m3/h
Annual energy consumption	Q_{HE}	3484	kWh	flow rate, outdoor heat exchanger			5, 11
For heat pump combination hea			<u> </u>			<u> </u>	
Declared load profile	NA	Efficiency class	NA	Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	NA	%
Daily electricity consumption	Q_{elec}	NA	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end		end of the produ	ct's life cycle, it r	lat a recycling station or with the installation en nust be sent correctly to a waste station or reso t's refrigerant, compressor oil and electrical/ele	eller offering a se	rvice of that type	e. It is of

of life information:

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.

Information for heat pump sp			o combinati	on heaters	CTC AB		
Warm climate and Medium t	emperature		2004 · CTC Ec	-7	Ljungby		
Model(s):		CTC EcoAir 70	18IVI + CTC EC				
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	188	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:			
Heat pump combination heater:		Yes					
			· ·	t for low-temperature heat pumps.	For low- temper	erature heat	pumps,
parameters shall be declared for	·	Value	unit		Cumbal	Value	Unit
Item	Symbol	value	Unit	Item	Symbol	value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	184	%
Declared capacity for heating fo and outdoor temperature T j	r part load at i	ndoor temperat	ture 20°C	Declared coefficient of perforn part load at indoor temperatur			
T j = -7 °C	Pdh		kW	T j = - 7 °C	COPd] -
T j = + 2 °C	Pdh	5,8	kW	T j = +2 °C	COPd	2,58] -
T j = + 7 °C	Pdh	3,9	kW	T j = +7 °C	COPd	3,86	_
T j = + 12 °C	Pdh	2,3	kW	T j = +12 °C	COPd	6,18	_
T j = bivalent temperature	Pdh	5,8	kW	T j = bivalent temperature	COPd	2,58	-
T j = operation limit temperature	Pdh	5,8	kW	T j = operation limit temperature	COPd	2,58	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	NA	_
Bivalent temperature	T _{biv}	2	°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	ther than activ	e mode		Supplementary heater			=
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
	P _{TO}	0,015	kW				

Off mode	P OFF	0,015	kW
Thermostat-off mode	P _{TO}	0,015	kW
Standby mode	P _{SB}	0,015	kW
Crankcase heater mode	P _{CK}	0,000	kW
Other items			
Capacity control		Variable	

Variable			For air-to-water heat pumps: Rated air flow rate, outdoors
L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water
Q _{HE}	1630	kWh	flow rate, outdoor heat

Type of energy input

Electric

2787

NA

m3/h

m3/h

231206

For heat pump combination heater:

Sound power level, indoors/

Annual energy consumption

outdoors

Declared load profile	XL	Efficiency class		Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	116	%
Daily electricity consumption	Qelec	7	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1445	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. It 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



Information for heat pump sp Warm climate and Low temp	•	and neat pump	Combinati	on neaters	CTC AB Ljungby		
Model(s):	, -	CTC EcoAir 70	8M + CTC Ec	coZenith i360	-Julipp A		
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	247	%	
Equipped with a supplementary	heater	Yes		Package efficiency class:		-	
Heat pump combination heater		Yes		r ackage efficiency class.			
			ation, except	t for low-temperature heat pumps. Fo	or low- temp	erature heat	pumps
parameters shall be declared fo				, and the property of the prop			
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	243	%
Declared capacity for heating fo and outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C	Declared coefficient of performa part load at indoor temperature	-		
Г j = – 7 °C	Pdh		kW	T j = - 7 °C	COPd] -
T j = + 2 °C	Pdh	5,7	kW	T j = +2 °C	COPd	3,40	-
Г j = + 7 °C	Pdh	3,5	kW	T j = +7 °C	COPd	5,00	-
Γ j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,51	-
T j = bivalent temperature	Pdh	5,7	kW	T j = bivalent temperature	COPd	3,40	-
Γ j = operation limit temperature	Pdh	5,7	kW	T j = operation limit temperature	COPd	3,40	_
For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C \text{)}$	Pdh	NA	kW	For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C)$	COPd	NA	-
Bivalent temperature	T _{biv}	2	°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	re mode		Supplementary heater			-
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water		NI A	m2
Annual energy consumption	Q _{HE}	1237	kWh	flow rate, outdoor heat exchanger	-	NA	m3/
For heat pump combination hea	ater:						-
Declared load profile	XL	Efficiency class		Water heating energy efficiency	$\eta_{\sf wh}$	116	%
Daily electricity consumption	Qelec	6,570	kWh	Daily fuel consumption	Qfuel	NA	kWl
Annual electricity	AEC	1445	kWh	Annual fuel consumption	AFC	NA	GJ

of life information:

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.



Model(s): CTC EcoAir 708M + CTC EcoZenitr 1850 Air-to-water heat pump: No Controller class: VI - Brine-to-water heat pump: No Controller contribution: 4 % Low temperature heat pump: No Package efficiency: 155 % Equipped with a supplementary heater: Yes Package efficiency: 155 % Faculipped with a supplementary heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pump combination heater: Yes Package efficiency class: A+++ - Heat pumps: For low-temperature heat pumps; For low-temperature heat pumps; For low-temperature heat pumps; For low-temperature 1 pumps; For low-temperature 20 °C class class and a supplication, except for low-temperature heat pumps; For low-temperature 20 °C class class class and a supplication, except for low-temperature beat pumps; For low-temperature 20 °C class	Information for heat pump s	CTC AB		Te				
Air to water heat pump: Yes		m temperatu				Ljungby		
Water to water heat pump: No Controller class: VI	Model(s):			8M + CTC Ed				
Brine-to-water heat pump: No							-	
Low-temperature heat pump: No Package efficiency: 155 % Equipped with a supplementary heater: Yes Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. Por low-temperatu	Water-to-water heat pump:		No		Controller class:		-	
Equipped with a supplementary heater: Yes Package efficiency class: A+++ Heat pump combination heater: Yes Package efficiency class: A+++ Heat pump combination heater: Yes Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for low-temperature application. Item Symbol Value Unit Rated heat output (*) Prated 5 kW Declared capacity for heating for part load at indoor temperature 20 °C Declared capacity for heating for part load at indoor temperature 20 °C Padh 2,7 kW Tj = -7 °C Padh 2,1 kW Tj = -7 °C Padh 2,4 kW Tj = +7 °C Padh 2,4 kW Tj = +7 °C Padh 2,4 kW Tj = +7 °C Padh 3,82 - Tj = +1 °C Tj = operation limit Padh 4,6 kW Tj = operation limit temperature For air-to-water heat pumps: Tj = -15 °C (if ToL < -20 °C) Park 0,015 Park 0,015 RW Thermostat-off mode Par 0,015 RW Thermostat-off mode Par 0,015 RW Crankcase heater mode Par 0,015 RW Toral co-water heat pumps: Capacity control Variable XL Efficiency Anoual energy consumption QHE Z687 RWh Anoual energy consumption Quelec 7,700 RWh Annual electricity Anoual ele	Brine-to-water heat pump:		No		Controller contribution:	4	%	
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 Rated heat output (*) Prated 5 kW Declared capacity for heating for part load at indoor temperature 20 °C part and outdoor temperature T j Fig. 15 1	Low-temperature heat pump:		No		Package efficiency:	155	%	
Parameters shall be declared for medium-temperature application. Item Symbol Value Unit Rated heat output (*) Proted 5 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 protect 1 protect 20 °C and outdoor temperature 7 protect 20 °C and outdoor temperature 8 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor temperature 8 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor temperature 8 protect 20 °C and outdoor temperature 9 protect 20 °C and outdoor 10 °C °C and outdoor 10 °C	Equipped with a supplementar	y heater:	Yes		Package efficiency class:	A+++	-	
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 7 Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 20°C part load at indoor temperature 20°C part load at indoor temperature 20°C and outdoor temperature 20°C part load at indoor temperature 20°C and outdoor 20°C and and outdoor 20°C								
Retern Symbol Value Unit Rated heat output (*) Protect 5 kW Seasonal space heating energy \(\pi_S \) 151 %					t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
Rated heat output (*) Protect Seasonal space heating energy of the efficiency of efficiency of efficiency of efficiency of the eating for part load at indoor temperature 20 °C and outdoor temperature T T T T = -7 °C Pdh 4,4 kW T T = -7 °C Pdh 2,7 kW T T = -7 °C COPd 3,82 - T T T = +12 °C Pdh 2,4 kW T T T = +12 °C COPd 3,82 - T T T = +12 °C COPd 4,85 - T T T = +12 °C COPd 6,16 - T T T T T T T T T T T T T T T T T T	·	•			No. an	Sumbol	Value	Unit
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j $T = -7 ^{\circ} C$	item	Зуппьот	Value	Oilit	¬	Зуппоп	Value	I
part load at indoor temperature 20° C and outdoor temperature 7° 1° $1^$	Rated heat output (*)	Prated	5	kW	1 1	η_{s}	151	%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat		-			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tj=-7°C	Pdh	4,4	kW	T j = - 7 °C	COPd	2,43] -
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tj=+2°C							1 -
T j = bivalent temperature	T j = + 7 °C	Pdh	2,0	kW	T j = +7 °C	COPd] -
T j = operation limit temperature Pdh A,6 kW T j = operation limit temperature For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Pdh na kW For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) Power consumption in modes other than active mode Off mode Poef Off mode Off mode Off mode Off mode Off mode Off mode	T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,16	-
temperature $Pall = 4,6$ RW $Pall = 4,6$ RW temperature $Pall = 4,6$ RW temperature $Pall = 4,6$ RW $Pall = 4,6$ RW temperature $Pall = 4,6$ RW $Pall = 4,6$ RW $Pall = 4,6$ RW temperature $Pall = 4,6$ RW RW $Pall = 4,6$ RW $Pall = 4,6$ RW RW $Pall = 4,6$ RW $Pall = 4,6$ RW RW RW RW $Pall = 4,6$ RW RW $Pall = 4,6$ RW RW RW $Pall = 4,6$ RW RW RW RW RW RW RW RANUal electricity $Pall = 4,6$ RW RW RW RANUal electricity $Pall = 4,6$ RW RW RW RANUal electricity $Pall = 4,6$ RW RW RW RANUAL electricity $Pall = 4,6$ RW RW RW RW RW	T j = bivalent temperature	Pdh	4,6	kW	T j = bivalent temperature	COPd	2,14	-
Bivalent temperature T_{biv} -10 °C For air-to-water heat pumps: Operation limit temperature T_{biv} -10 °C Supplementary deating T_{biv} -10 °C Supplementary heating water operating limit T_{biv}	= -	Pdh	4,6	kW		COPd	2,14	_
Cycling interval capacity for heating Degradation co-efficient Cycling interval capacity for heating Degradation co-efficient Cycling interval efficiency About 1 Cycling interval efficiency Cycling interval efficiency About 1 Coperation 1 Coperation 1 Coperation 1 Coperation 1 Coperation 1		Pdh	na	kW	1 1	COPd	na	-
heating	Bivalent temperature	T _{biv}	-10	°C		TOL	-10	°C
Power consumption in modes other than active mode Off mode Poff Off mode Na Who Na Na Na Na Na Na Na Na Na N	Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode	Degradation co-efficient	Cdh	0,98	-	1 1	WTOL	55	°C
Thermostat-off mode Standby mode Crankcase heater mode Pox O,015 kW Type of energy input Electric For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency paily electricity consumption Qelec 7,700 RWh Annual electricity AEC 1694 RWh Annual fuel consumption AEC NA GI	Power consumption in modes of	other than activ	re mode		Supplementary heater			_
Standby mode	Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Crankcase heater mode	Thermostat-off mode	P TO	0,015	kW				
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency flow rate, outdoor heat exchanger NA Mater heating energy efficiency flow rate, outdoor heat exchanger NA Mater heating energy efficiency flow rate, outdoor heat exchanger NA Mater heating energy efficiency flow rate, outdoor heat exchanger NA Mater heating energy efficiency flow rate, outdoors NA Mater heating energy efficiency flow rate, outdoors NA Mater heating energy efficiency efficiency flow rate, outdoors NA Mater heating energy efficiency flow rate, outdoors NA Mater heating energy efficiency efficiency flow rate, outdoors NA Mater heating energy efficiency efficiency flow rate, outdoors NA Mater heating energy efficiency flow rate, outdoors NA NA Mater heating energy efficiency flow rate, outdoors NA Mater heating energy efficiency flow rate, outdoors NA Mater heating energy efficiency flow rate, outdoors NA NA Mater heating	Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency flow rate, outdoor heat exchanger Water heating energy efficiency A Daily electricity consumption Qelec 7,700 KWh Annual electricity AEC 1694 KWh Annual fuel consumption AEC NA AFC NA AFC NA GI AFC NA AFC	Crankcase heater mode	P _{CK}	0,000	kW				
Capacity control Variable Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class Daily electricity consumption Qelec 7,700 Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger NA M3/h Water heating energy efficiency Poally fuel consumption Qfuel NA Rated air flow rate, outdoors NA M3/h Daily fuel consumption AFC NA GI GI Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water ABC NA MA M3/h Annual fuel consumption AFC NA GI GI Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water ABC NA MA M3/h Annual fuel consumption ABC NA GI GI Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water ABC NA MA Annual fuel consumption ABC NA GI GI Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water For water-/brine-to-water heat pumps: Rated air flow rate, outdoors ABC NA MA MA MA MA MA Annual fuel consumption ABC NA GI SI MA GI MA ABC NA ABC NA GI MA ABC NA ABC NA GI MA ABC NA ABC N	Other items		•		1	.1		
outdoors Annual energy consumption QHE 2687 Wh pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class Daily electricity consumption Qelec 7,700 KWh Annual electricity AEC 1694 KWh Annual fuel consumption AEC NA MA / 46 dB pumps: Rated brine or water flow rate, outdoor heat exchanger NA Maj/h Mater heating energy efficiency AEC NA AEC NA GI SINA SINA GI SINA SINA GI SINA SINA SINA GI SINA SINA GI SINA SIN	Capacity control		Variable		1 1	-	2787	m3/h
Annual energy consumption Q_{HE} 2687 kWh flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency flow for the pump consumption Qelec 7,700 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AFC 1694 kWh Annual fuel consumption AFC NA GI	Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	pumps: Rated brine or water	_	NΔ	m3/h
Declared load profile XL Efficiency class A Water heating energy efficiency η _{wh} 99 % Daily electricity consumption Qelec 7,700 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AFC 1694 kWh Annual fuel consumption AFC NA GI	Annual energy consumption	Q _{HE}	2687	kWh	· ·		101	
Daily electricity consumption Qelec 7,700 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AFC 1694 kWh Annual fuel consumption AFC NA GI	For heat pump combination he	ater:						
Daily electricity consumption Qelec 7,700 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AFC 1694 kWh Annual fuel consumption AFC NA GI	Declared load profile	XL	-	A	1 1	$\eta_{\sf wh}$	99	%
AFC I 1694 I kWh IAnnual fuel consumption AFC I NA I GI	Daily electricity consumption	Qelec		kWh	-	Qfuel	NA	kWh
<u> </u>	Annual electricity consumption	AEC	1694	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. It 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.

F-0137

231206

Average climate and Low temperature

CTC AB Ljungby



			, ,	,				
Model(s):	CTC EcoAir 708M + CTC EcoZenith i360							
Air-to-water heat pump:	Yes	Energy efficiency class:	A+++	-				
Water-to-water heat pump:	No	Controller class:	VI	-				
Brine-to-water heat pump:	No	Controller contribution:	4	%				
Low-temperature heat pump:	No	Package efficiency:	202	%				
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++	-				
Heat pump combination heater:	Yes							

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	198	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C	Declared coefficient of performa part load at indoor temperature	-		
T j = -7 °C	Pdh	4,7	kW	T j = - 7 °C	COPd	3,30] -
T j = + 2 °C	Pdh	2,9	kW	T j = +2 °C	COPd	4,99	-
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	6,24] -
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,00	-
T j = bivalent temperature	Pdh	5,0	kW	T j = bivalent temperature	COPd	2,93	-
T j = operation limit temperature	Pdh	5,0	kW	T j = operation limit temperature	COPd	2,93	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-10	°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	0,97	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	ther than activ	re mode		Supplementary heater			
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		l l		1			
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dВ	For water-/brine-to-water heat pumps: Rated brine or water	_	NA	m3/h
Annual energy consumption	Q _{HE}	2176	kWh	flow rate, outdoor heat exchanger		IVA	1113/11
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	Α	Water heating energy efficiency	η_{wh}	99	%
Daily electricity consumption	Qelec	7,700	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1694	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It 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



Cold climate and Medium t	emperature	•	•		Ljungby		HC
Model(s):		CTC EcoAir 70	08M + CTC E	coZenith i360			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	138	%	
Equipped with a supplemental	ry heater:	Yes		Package efficiency class:		-	
Heat pump combination heate		Yes					
	-			t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared f		ure application		H	Cumahal	Value	Hait
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	efficiency	$\eta_{\mathcal{S}}$	134	%
Declared capacity for heating and outdoor temperature T j	for part load at ii	ndoor tempera	ture 20 °C	Declared coefficient of perform part load at indoor temperature			
T j = -7 °C	Pdh	3,7	kW	T j = - 7 °C	COPd	2,93] -
T j = + 2 °C	Pdh	2,4	kW	T j = +2 °C	COPd	4,28	-
T j = + 7 °C	Pdh	2,0	kW	T j = +7 °C	COPd	5,21	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,45	-
T j = bivalent temperature	Pdh	4,3	kW	T j = bivalent temperature	COPd	2,23	-
T j = operation limit temperature	Pdh	3,1	kW	T j = operation limit temperature	COPd	1,57	-
For air-to-water heat pumps: $T j = -15 ^{\circ}\text{C} \text{ (if TOL } < -20 ^{\circ}\text{C)}$	Pdh	4,1	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,09	-
Bivalent temperature	T _{biv}	-13	°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 mode	_	Supplementary heater			_
Off mode	P _{OFF}	0,015	kW	Rated heat output (*)	Psup	2,9	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water		na	m3/h
Annual energy consumption	Q _{HE}	4316	kWh	flow rate, outdoor heat exchanger	-	IIa	1113/11
For heat pump combination he	eater:						
Declared load profile	XL	Efficiency class		Water heating energy efficiency	η_{wh}	84	%
Daily electricity consumption	Qelec	9,070	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1995	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produ great importance	ct's life cycle, it re that the produc	at a recycling station or with the installation en must be sent correctly to a waste station or reset t's refrigerant, compressor oil and electrical/ele schold waste is not permitted.	eller offering a se	rvice of that type	. It is of

CTC AB



Information for heat pump	ion heaters	CTC AB					
Cold climate and Low temp		Ljungby					
Model(s):		CTC EcoAir 7	08M + CTC Ed	coZenith i360			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	171	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate	r:	Yes					
Parameters shall be declared f	or medium-tem	perature applic	ation, except	t for low-temperature heat pumps. I	For low- temp	erature heat	pumps,
parameters shall be declared for	or low-tempera	ture application	n.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	167	%
Declared capacity for heating f and outdoor temperature T j	or part load at i	ndoor tempera	ture 20 °C	Declared coefficient of perform	•		
T j = -7 °C	Pdh	3,7	kW	T j = - 7 °C	COPd	3,63] -
T j = + 2 °C	Pdh	2,3	kW	T j = +2 °C	COPd	5,20] -
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	6,74	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	8,04	-
T j = bivalent temperature	Pdh	4,6	kW	T j = bivalent temperature	COPd	2,89	-
T j = operation limit temperature	Pdh	3,6	kW	T j = operation limit temperature	COPd	2,25	-
For air-to-water heat pumps: $T j = -15 ^{\circ}\text{C} \text{ (if TOL } < -20 ^{\circ}\text{C)}$	Pdh	4,4	kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	2,69	-
Bivalent temperature	T _{biv}	-13	°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 mode	_	Supplementary heater			_
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	2,4	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items					I.		
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA / 46	dB	For water-/brine-to-water heat pumps: Rated brine or water	; -	NA	m3/h
Annual energy consumption	Q _{HE}	3484	kWh	flow rate, outdoor heat exchanger			
For heat pump combination he	eater:						
Declared load profile	XL	Efficiency class		Water heating energy efficiency	η_{wh}	84	%
Daily electricity consumption	Q_{elec}	9,07	kWh	Daily fuel consumption	\mathbf{Q}_{fuel}	NA	kWh
Annual electricity consumption	AEC	1995,4	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. It 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.

Warm climate and Medium temperature

CTC AB 341 34 Ljungby



warm climate and ivieulum	temperature				341 34 LJU	ingby	
Model(s):		CTC EcoAir 70	D8M + CTC Ec	coZenith i555			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	161	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Heat pump combination heater:		Yes					
		perature applic	ation, except	t for low-temperature heat pumps. Fo	or low- tempe	erature hea	t pumps,
parameters shall be declared fo	r low-tempera	ture applicatior	١.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η_{s}	157	%
Declared capacity for heating fo and outdoor temperature T j	r part load at i	ndoor tempera	ture 20 °C	Declared coefficient of performa part load at indoor temperature			
T j = - 7 °C	Pdh		kW	T j = - 7 °C	COPd		٦ -
T j = + 2 °C	Pdh	5,4	kW	T j = +2 °C	COPd	2,35	_
T j = + 7 °C	Pdh	3,6	kW	T j = +7 °C	COPd	3,40	
T j = + 12 °C	Pdh	2,2	kW	T j = +12 °C	COPd	5,10	
T j = bivalent temperature	Pdh	5,4	kW	T j = bivalent temperature	COPd	2,35	-
T j = operation limit temperature	Pdh	5,4	kW	T j = operation limit temperature	COPd	2,35	
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh		kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T _{biv}	2	°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
,		_	1	Supplementary heater			_
Off mode	P _{OFF}	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items				<u> </u>		1	1
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/l
Sound power level, indoors/ outdoors	L _{WA}	NA/46	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	na	m3/
Annual energy consumption	Q _{HE}	1899	kWh	flow rate, outdoor heat exchanger	-	na	1113/1
For heat pump combination hea	iter:	T .	ī			ı	
Declared load profile	XL	Efficiency class	NA	Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption	Qelec	7,800	kWh	Daily fuel consumption	Qfuel	NA	kWl
Annual electricity consumption	AEC	1716	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produc great importance	ct's life cycle, it r that the produc	at a recycling station or with the installation er must be sent correctly to a waste station or rese t's refrigerant, compressor oil and electrical/ele ehold waste is not permitted.	ller offering a ser	vice of that typ	e. It is of

Warm climate and Low temperature

Model(s):

CTC AB 341 34 Ljungby



	Yes		Energy efficiency class:		-	
	No		Controller class:	VI	-	
	No		Controller contribution:	4	%	
	No		Package efficiency:	218	%	
heater:	Yes		Package efficiency class:		-	
	Yes perature applica	ition, except	for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
r low-tempera	ture application	•				
Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6	kW	Seasonal space heating energy efficiency	η _s	214	%
r part load at i	ndoor temperat	ure 20 °C				
Pdh		kW	T j = - 7 °C	COPd		_
Pdh	6,2	kW	T j = +2 °C	COPd	3,42	-
Pdh	3,4	kW	T j = +7 °C	COPd	4,53	-
Pdh	2,3	kW	T j = +12 °C	COPd	7,08	-
Pdh	6,2	kW	T j = bivalent temperature	COPd	3,41	-
Pdh	6,2	kW	T j = operation limit temperature	COPd	3,40	-
Pdh		kW	For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C \text{)}$	COPd		-
T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
P cych	NA	kW	Cycling interval efficiency	СОРсус	NA	-
Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
ther than activ	e mode		Supplementary heater			-
P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
P _{TO}	0,015	kW				
P SB	0,015	kW	Type of energy input		Electric	
P _{CK}	0,000	kW				
	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
L _{WA}	NA/46	dB	For water-/brine-to-water heat pumps: Rated brine or water			2.//
Q _{HE}	1403	kWh	flow rate, outdoor heat exchanger	-	NA	m3/h
ter:						
XL	Efficiency class	NA	Water heating energy efficiency	$\eta_{\scriptscriptstyle \sf wh}$	98	%
Qelec	8	kWh	Daily fuel consumption	Qfuel	NA	kWh
AEC	1717	kWh	Annual fuel consumption	AFC	NA	GJ
	end of the produc	t's life cycle, it n that the produc	nust be sent correctly to a waste station or reset's refrigerant, compressor oil and electrical/ele	eller offering a se	rvice of that type	. It is of
	r low-tempera Symbol Prated In part load at it Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	No N	No N	No Controller class: No Controller contribution: No Package efficiency: Yes Package efficiency class: Yes redium-temperature application, except for low-temperature heat pumps. For low-temperature application. Symbol Value Unit Item Proted 6 kW efficiency In part load at indoor temperature 20 °C Declared coefficient of performs part load at indoor temperature deficiency Path 6,2 kW Tj = -7 °C Tj = -7 °C Tj = 2 °C Tj = 12 °C T	No Controller class: VI No Controller contribution: 4 No Package efficiency: 218 Package efficiency class: Yes Package efficiency class Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class: Yes Package efficiency class. Yes Copd Yes Package efficiency class: Yes Package efficiency class. Yes Package efficiency class. Yes Copd Yes Package efficiency class: Yes Copd Yes Package fficiency class. Yes Copd Yes Package fficiency classes. Yes Copd Yes Pack	No Controller class: VI - No Controller contribution: 4 % No Package efficiency: 218 % Theater: Yes Package efficiency class: - Tredium-temperature application, except for low-temperature heat pumps. For low-temperature heat rick-temperature papilication. Symbol Value Unit Item Symbol Value Proted 6 kW To part load at indoor temperature 20 °C Path G,2 kW Path

CTC EcoAir 708M + CTC EcoZenith i555

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

CTC AB 341 34 Ljungby



Model(s):		CTC EcoAir 70	8M + CTC Fo	oZenith i555	341 34 Lju	<i>U</i> ,	
Air-to-water heat pump:		Yes	OW CICE	Energy efficiency class:		A+	
Water-to-water heat pump:		No		Controller class:	VI	_	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	120	%	
Equipped with a supplementary	v heater:	Yes		Package efficiency class:		A+	
Heat pump combination heater		Yes		. delicate emercine, elassi			
	or medium-tem			t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	116	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C	Declared coefficient of performation part load at indoor temperature			
T j = -7 °C	Pdh	3,5	kW	T j = - 7 °C	COPd	1,93	1 -
T j = + 2 °C	Pdh	2,1	kW	T j = +2 °C	COPd	2,84] -
T j = + 7 °C	Pdh	1,9	kW	T j = +7 °C	COPd	3,95	-
T j = + 12 °C	Pdh	2,2	kW	T j = +12 °C	COPd	5,09	-
T j = bivalent temperature	Pdh	3,6	kW	T j = bivalent temperature	COPd	1,69	-
T j = operation limit temperature	Pdh	3,6	kW	T j = operation limit temperature	COPd	1,69	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh		kW	For air-to-water heat pumps: $T j = -15 ^{\circ}C \text{ (if TOL } < -20 ^{\circ}C \text{)}$	COPd		_
Bivalent temperature	T _{biv}	-10	°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 of	other than activ	re mode		Supplementary heater			-
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA/46	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	na	m3/h
Annual energy consumption	Q _{HE}	2609	kWh	flow rate, outdoor heat exchanger		IIa	1113/11
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	A	Water heating energy efficiency	$\eta_{\sf wh}$	80	%
Daily electricity consumption	Qelec	9,490	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2088	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produc great importance	t's life cycle, it r that the produc	at a recycling station or with the installation er must be sent correctly to a waste station or rese t's refrigerant, compressor oil and electrical/ele ehold waste is not permitted.	eller offering a se	vice of that type	. It is of

Average climate and Low temperature

Model(s):

CTC AB 341 34 Ljungby



Air-to-water heat pump:		Yes		Energy efficiency class:		A+++	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	167	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		A+++	
Heat pump combination heate Parameters shall be declared for parameters shall be declared for	or medium-tem			t for low-temperature heat pumps. F	or low- temp	perature heat	pumps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	163	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C	Declared coefficient of performation part load at indoor temperature	-		
T j = - 7 °C	Pdh	4,0	kW	T j = - 7 °C	COPd	2,82	-
T j = + 2 °C	Pdh	2,5	kW	T j = +2 °C	COPd	4,01	-
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	5,28	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,72	-
T j = bivalent temperature	Pdh	4,2	kW	T j = bivalent temperature	COPd	2,52	-
T j = operation limit temperature	Pdh	4,2	kW	T j = operation limit temperature	COPd	2,53	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh		kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T _{biv}	-10	°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 of	other than activ	e mode		Supplementary heater			-
Off mode	P _{OFF}	0,015	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW	J			
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA/46	dВ	For water-/brine-to-water heat pumps: Rated brine or water	_	na	m3/h
Annual energy consumption	Q _{HE}	2239	kWh	flow rate, outdoor heat exchanger	-	na	1113/11
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	Α	Water heating energy efficiency	$\eta_{\scriptscriptstyle wh}$	80	%
Daily electricity consumption	Qelec	9,490	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	2088	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produc great importance	t's life cycle, it n that the produc	at a recycling station or with the installation er nust be sent correctly to a waste station or rese t's refrigerant, compressor oil and electrical/ele shold waste is not permitted.	eller offering a se	ervice of that type	. It is of

CTC EcoAir 708M + CTC EcoZenith i555

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

CTC AB 341 34 Ljungby



P SB P CK L WA Q HE	0,000 Variable NA/46 4171 Efficiency	dB kWh	For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy	-	2787 na	m3/h m3/h
P _{CK}	0,000 Variable NA/46	kW	For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	2787	
P _{CK}	0,000 Variable	kW	For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat	-	2787	
	0,000		For air-to-water heat pumps:	-		m3/h
			, , , , , , , , , , , , , , , , , , ,			
P SB	0,013	7	1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
n	0.015	kW	Type of energy input	I	Electric	
P _{TO}	0,015	kW				
P OFF	0,015	kW	Rated heat output (*)	Psup	2,4	kW
other than activ	e mode		Supplementary heater		•	
Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
T _{biv}	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Pdh		kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd		-
Pdh	2,1	kW	T j = operation limit temperature	COPd	1,06	
Pdh	3,4	kW	T j = bivalent temperature	COPd	1,78	-
Pdh	2,2	kW	T j = +12 °C	COPd	5,29	
Pdh	1,9	kW	T j = +7 °C	COPd	4,24	-
Pdh	1,9	kW	T j = +2 °C	COPd	3,17	-
Pdh	3,0	kW	T j = - 7 °C	COPd	2,30	٦.
or part load at i	ndoor tempera	ture 20 °C				
Prated	5	kW	Seasonal space heating energy efficiency	$\eta_{\mathcal{S}}$	103	%
Symbol	Value	Unit	Item	Symbol	Value	Unit
or medium-tem	perature applic		for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
•			Package efficiency class:		-	
				107 %		
	No					
					-	
					-	
	Yes	08M + CTC Ec	Energy efficiency class:	· · ·	-	
	or low-temperary Symbol Prated or part load at it Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	No No No No No No y heater: Yes or medium-temperature application Symbol Value Prated 5 or part load at indoor temperat Pdh 1,9 Pdh 1,9 Pdh 1,9 Pdh 2,2 Pdh 3,4 Pdh 2,1 Pdh 2,1 Pdh 3,0 Pdh 1,9 Pdh 1,9 Pdh 1,9 Pdh 1,9 Pdh 2,1 Pdh 0,99 Pdh 0,015 Pro O,015 Pro O,015	Yes No No No No y heater: Yes or medium-temperature application, except or low-temperature application. Symbol Value Unit Prated 5 kW or part load at indoor temperature 20 °C Pdh 3,0 kW Pdh 1,9 kW Pdh 1,9 kW Pdh 1,9 kW Pdh 2,2 kW Pdh 2,1 kW Pdh 2,1 kW Pdh 2,1 kW Pdh 4 kW Pdh 5 kW Pdh 6 kW Pdh 7 kW Pdh 7 kW Pdh 9 kW Pdh 1,9 kW Pdh 1,9 kW Pdh 1,9 kW Pdh 2,1 kW Pdh 2,1 kW Pdh 2,1 kW Pdh 2,1 kW Pdh 0,015 kW Cdh 0,99 - other than active mode Poff 0,015 kW Pro 0,015 kW	No Controller class: No Controller contribution: No Package efficiency: y heater: Yes or medium-temperature application, except for low-temperature heat pumps. For low-temperature application. Symbol Value Unit Prated 5 kW or part load at indoor temperature 20 °C Path 3,0 kW Path 1,9 kW Path 1,9 kW Path 2,2 kW Path 2,2 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 2,1 kW Path 3,4 kW Path 3,4 kW Path 4 kW Path 4 kW Path 5 coperation limit temperature Path 6 kW Path 7 in intervaler heat pumps: Cycling interval efficiency Heating water operating limit temperature Supplementary heater Rated heat output (*)	TCC EcoAir 708M + CTC EcoZenith i555 Yes Energy efficiency class: No Controller class: VI No Controller contribution: 4 No Package efficiency: 107 y heater: Yes Package efficiency class: Text Yes Package efficiency converted the package eff	Yes Energy efficiency class: - No Controller class: VI - No Controller contribution: 4 % No Package efficiency: 107 % y heater: Yes Package efficiency: 107 % y heater: Yes Package efficiency: 107 % or medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps: Or part load at indoor temperature 20 °C kW Seasonal space heating energy efficiency Indicate the part of the performance or primary energy rapart load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and the part load at indoor temperature 20 °C and outdoor temperature and load at indoor temperature 20 °C and outdoor temperature and load at indoor temper

Specific precautions and end of life information:

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

Daily fuel consumption

Annual fuel consumption

11,240

2473

 kWh

kWh

Qelec

AEC

Qfuel

AFC

NA

NA

F-0137

kWh

GJ

Annual electricity

consumption

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

CTC AB 341 34 Ljungby



•					3-1 3-1 Lju		
Model(s):		CTC EcoAir 70	8M + CTC Ed	coZenith i555			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VI	-	
Brine-to-water heat pump:		No		Controller contribution:	4	%	
Low-temperature heat pump:		No		Package efficiency:	140	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	:	Yes					
				t for low-temperature heat pumps. F	or low- temp	erature heat	pumps,
parameters shall be declared for	•						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_{s}	136	%
Declared capacity for heating for and outdoor temperature T j	or part load at i	ndoor temperat	Declared coefficient of performation part load at indoor temperature				
T j = - 7 °C	Pdh	3,1	kW	T j = - 7 °C	COPd	3,01] -
T j = + 2 °C	Pdh	1,9	kW	T j = +2 °C	COPd	4,08] -
T j = + 7 °C	Pdh	2,1	kW	T j = +7 °C	COPd	5,68	-
T j = + 12 °C	Pdh	2,4	kW	T j = +12 °C	COPd	6,73	<u> </u>
T j = bivalent temperature	Pdh	3,9	kW	T j = bivalent temperature	COPd	2,49	-
T j = operation limit temperature	Pdh	2,8	kW	T j = operation limit temperature	COPd	1,80	_
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh		kW	For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T _{biv}	-13	°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 of	other than activ	re mode	•	Supplementary heater			_
Off mode	P OFF	0,015	kW	Rated heat output (*)	Psup	2,3	kW
Thermostat-off mode	P_{TO}	0,015	kW				
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2787	m3/h
Sound power level, indoors/ outdoors	L _{WA}	NA/46	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	na	m3/h
Annual energy consumption	Q _{HE}	3616	kWh	flow rate, outdoor heat exchanger			
For heat pump combination he	ater:						
Declared load profile	XL	Efficiency class	NA	Water heating energy efficiency	$\eta_{\sf wh}$	68	%
Daily electricity consumption	Q_{elec}	11,240	kWh	Daily fuel consumption	\mathbf{Q}_{fuel}	NA	kWh
Annual electricity consumption	AEC	2473	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end		end of the produc	ct's life cycle, it r	at a recycling station or with the installation er must be sent correctly to a waste station or rese t's refrigerant, compressor oil and electrical/ele	eller offering a se	rvice of that type	e. It is of

of life information:

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.