

Information for heat pump s Warm climate and Medium		and heat pump	combinatio	n heaters	Enertech Al 341 26 Ljur		CIC
Model(s):		CTC EcoAir 42	0 + CTC EcoLo	ogic			
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 supplementar	y heater:	No		Package efficiency class:		-	
Heat pump combination heate	r:	No					
Parameters shall be declared for parameters shall be declared for			-	or low-temperature heat pumps. F	or low- tempe	rature heat p	umps,
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 f outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C and	Declared coefficient of perforn part load at indoor temperatur	•		
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	1 -
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							1

heating	· cycn		
Degradation co-efficient	Cdh	0,99	-
Power consumption in modes of	other than active	mode	
Off mode	P OFF	0,018	kW
Thermostat-off mode	P _{TO}	0,020	kW
Standby mode	P _{SB}	0,018	kW
Crankcase heater mode	P _{CK}	0,000	kW
Other items			

	Fixed	
L _{WA}	na/66	dB
Q _{HE}	5390	kWh

Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output (*)	Psup	1,3	kW
Type of energy input		Electric	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/h

For heat pump combination heater:

Sound power level, indoors/

Annual energy consumption

Tot ficat partip combination no	acci.						
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.

For water-/brine-to-water heat pumps: Rated brine or water

flow rate, outdoor heat

exchanger

Capacity control

outdoors

m3/h

Enertech AB 341 26 Ljungby



Warm climate and Low te	341 26 Ljur	ngby					
Model(s):	•	CTC EcoAir 4	20 + CTC EcoL	ogic	•		
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:	179	%	
Equipped with a supplementa	ary heater:	No		Package efficiency class:		-	
Heat pump combination heat	ter:	No					
Parameters shall be declared parameters shall be declared	•	• • •	, ,	for low-temperature heat pumps	s. For low- tempe	rature heat p	umps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW	Seasonal space heating ener efficiency	r gy η _s	175	%

Item	Symbol	Value	Unit	Item	Symbol	Value	Ur
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_s	175	9
Declared capacity for heating for outdoor temperature T j	or part load at ir	ndoor temperat	ure 20 °C and	Declared coefficient of performa part load at indoor temperature	-		
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	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	°(
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	°(
Power consumption in modes of	other than active	mode		Supplementary heater			
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,4	kV
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,
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
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	kW
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	na	G
Specific precautions and end of life information:		end of the production	ct's life cycle, it mus he product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic Ild waste is not permitted.	er offering a ser	vice of that type.	t is of g

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

Enertech AB 341 26 Ljungby



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 heater:	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 f outdoor temperature T j	or part load at in	door temperat	cure 20 °C and	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	-
T 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	other than active	mode		Supplementary heater			_
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/l
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}	9646	kWh	flow rate, outdoor heat exchanger	-	na	m3/l
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	kWł
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 mu the product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	vice of that type.	t is of gre

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

Enertech AB 341 26 Ljungby



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:	149	%			
Equipped with a supplementary heater:	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	145	%
Declared capacity for heating f outdoor temperature T j	or part load at in	door temperat	cure 20 °C and	Declared coefficient of performa part load at indoor temperature	-		
Tj=-7°C	Pdh	11,5	kW	T j = -7 °C	COPd	3,07] -
T j = + 2 °C	Pdh	14,0	kW	T j = +2 °C	COPd	3,72	-
T 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	-
T j = bivalent temperature	Pdh	11,5	kW	T j = bivalent temperature	COPd	3,15	-
T j = operation limit temperature	Pdh	10,5	kW	T j = operation limit temperature	COPd	2,82	-
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 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-6	°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	other than active	mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,4	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/
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/l
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	kWl
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 mu the product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	vice of that type.	t is of gre

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Cold climate and Medium	temperature				341 26 Ljur	ngby	
Model(s):		CTC EcoAir 4	20 + CTC EcoLo	ogic			
Air-to-water heat pump:		Yes		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		No Co		Controller contribution:	3,5	%	
Low-temperature heat pump	:	No		Package efficiency:	111	%	
Equipped with a supplementa	ary heater:	No		Package efficiency class:		-	
Heat pump combination heat	ter:	No					
Parameters shall be declared parameters shall be declared	•		, ,	or low-temperature heat pumps. Fo	or low- tempe	rature heat p	umps,
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 part load at inc	door tempera	ture 20 °C and	Declared coefficient of perform	ance or prima	ry energy rat	io for

item	Зуппрог	value	Ollit	item	Зуппоот	value	Ollit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_s	107	%
Declared capacity for heating foutdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C and	Declared coefficient of performal part load at indoor temperature 2	•		
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 of	other 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 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:

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.

Enertech AB



Cold climate and Low tem	perature				341 26 Ljur	ngby	
Model(s):		CTC EcoAir 42	0 + CTC EcoL	ogic			
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 supplement	ary heater:	No		Package efficiency class:		-	
Heat pump combination hea	ter:	No					
Parameters shall be declared parameters shall be declared				for low-temperature heat pumps. F	or low- tempe	rature heat p	oumps,
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 outdoor temperature T j	g for part load at in	ndoor temperat	ure 20 °C and	Declared coefficient of perform part load at indoor temperatur	•		

	-,				- 7		
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for outdoor temperature T j	or part load at i	ndoor temperat	ure 20 °C and	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 °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 of	other than activ	e mode		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	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:

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.

Information for heat pump sp Warm climate and Medium t		and heat pump	combination	heaters	Enertech A 341 26 Ljur		C
Model(s):		CTC EcoAir 42	20 + CTC EcoZer	nith 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 parameters shall be declared for				r low-temperature heat pumps. F	or low- tempe	rature heat p	umps,
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 outdoor temperature T j	r part load at ii	ndoor temperat	ure 20 °C and	Declared coefficient of perform 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	her than activ	e <u>mode</u>		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	
	D	0.000	1 , l				

0,000 Crankcase heater mode P_{CK} kW

Other items

Capacity control Sound power level, indoors/ outdoors

Annual energy consumption

Fixed na/66 dΒ L_{WA} kWh 6254 Q_{HE}

For heat pump combination heater: Efficiency **Declared load profile** XL

na class 9,302 kWh Qelec AEC 2047 kWh

Water heating energy efficiency Daily fuel consumption

Annual fuel consumption

For air-to-water heat pumps:

Rated air flow rate, outdoors

pumps: Rated brine or water flow rate, outdoor heat

exchanger

For water-/brine-to-water heat

 η_{wh} 82 **Q**fuel NA **AFC**

% kWh NA GJ

4100

na

m3/h

m3/h

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. 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 electricity

consumption



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								

parameters shall be declared for	or low-temperat	ure application					
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 foutdoor temperature T j	or part load at ir	ndoor temperat	ure 20 °C and	Declared coefficient of performar part load at indoor temperature 2	•		
T j = - 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
T j = + 2 °C	Pdh	13,9	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	other 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 he	eater:						
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 productimportance that t	ct's life cycle, it mu the product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resellaterant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	vice of that type.	t is of great

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoAir 420 + CTC EcoZenith i555							
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 heater:	Yes	Package efficiency class:	A+	-				
Heat pump combination heater:	Yes							

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 outdoor temperature T j	or part load at in	door temperat	ure 20 °C and	Declared coefficient of performal part load at indoor temperature	-		
T j = -7 °C	Pdh	10,8	kW	T j = -7 °C	COPd	2,22] -
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
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	other than active	mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	5,8	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		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4100	m3/l
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}	10830	kWh	flow rate, outdoor heat exchanger	-	na	m3/l
For heat pump combination he	eater:						
Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	η_{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:		end of the production	ct's life cycle, it mu he product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a ser	vice of that type.	t is of gre

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

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoAir 420 + CTC EcoZenith i555							
Air-to-water heat pump:	Yes	Energy efficiency class:	Α	-				
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 heater:	Yes	Package efficiency class:	A+	-				
Heat pump combination heater:	Yes							

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	16	kW	Seasonal space heating energy efficiency	η_s	119	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperat	ure 20 °C and	Declared coefficient of performal part load at indoor temperature	-		
Tj=-7°C	Pdh	11,5	kW	T j = -7 °C	COPd	2,49] -
T j = + 2 °C	Pdh	14,0	kW	T j = +2 °C	COPd	3,12	-
T j = + 7 °C	Pdh	17,7	kW	T j = +7 °C	COPd	4,02	-
T j = + 12 °C	Pdh	21,4	kW	T j = +12 °C	COPd	4,91	-
T j = bivalent temperature	Pdh	12,3	kW	T j = bivalent temperature	COPd	2,71	-
T j = operation limit temperature	Pdh	10,5	kW	T j = operation limit temperature	COPd	2,26	-
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
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,94	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than active	mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	5,5	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/l
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}	10879	kWh	flow rate, outdoor heat exchanger	-	na	m3/l
For heat pump combination he	eater:						
Declared load profile	XL	Efficiency class	В	Water heating energy efficiency	$\eta_{\scriptscriptstyle wh}$	70	%
Daily electricity consumption	Qelec	10,835	kWh	Daily fuel consumption	Qfuel	NA	kWł
Annual electricity consumption	AEC	2384	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the production	ct's life cycle, it mu he product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a ser	vice of that type.	t is of gre

Enertech AB 341 26 Ljungby



mperature				341 26 Ljur	igby	
	CTC EcoAir 42	0 + CTC EcoZ	enith i555			
	Yes		Energy efficiency class:		-	
	No		Controller class:	VII	-	
	No		Controller contribution:	3,5	%	
	No		Package efficiency:	94	%	
heater:	Yes		Package efficiency class:		-	
	Yes					
•	• • •	•	for low-temperature heat pumps. Fo	or low- tempe	rature heat p	umps,
Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	15	kW	Seasonal space heating energy efficiency	η_{s}	90	%
	heater: r medium-temper low-temperatu	Yes No No No heater: Yes r medium-temperature application Symbol Value	Yes No No No heater: Yes r medium-temperature application, except r low-temperature application. Symbol Value Unit	CTC EcoAir 420 + CTC EcoZenith i555 Yes Energy efficiency class: No Controller class: No Controller contribution: No Package efficiency: heater: Yes Package efficiency class: Yes r medium-temperature application, except for low-temperature heat pumps. For low-temperature application. Symbol Value Unit Item Proted 15 kW Seasonal space heating energy	CTC EcoAir 420 + CTC EcoZenith i555 Yes Energy efficiency class: No Controller class: VII No Controller contribution: 3,5 No Package efficiency: 94 heater: Yes Package efficiency class: Yes medium-temperature application, except for low-temperature heat pumps. For low-temperature low-temperature application. Symbol Value Unit Item Symbol Proted 15 kW Seasonal space heating energy	The state of the s

Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	η_s	90	%
Declared capacity for heating for outdoor temperature T j	or part load at in	door temperat	ure 20 °C and	Declared coefficient of performal part load at indoor temperature	· · · · · · · · · · · · · · · · · · ·		
T j = -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 of	other than active	mode		Supplementary heater			
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	8,5	kИ
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/
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}	15548	kWh	flow rate, outdoor heat exchanger	-	na	m3,
For heat pump combination he	ater:						
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	kW
Annual electricity consumption	AEC	2626	kWh	Annual fuel consumption	AFC	NA	G.

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.

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

Enertech AB 341 26 Liungby



cold chillage and Low temperature	341 20 Ljungby						
Model(s):		CTC EcoAir 42	0 + CTC EcoZ	enith 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:	106	%	
Equipped with a supplementary heate	er:	Yes		Package efficiency class:		-	
Heat pump combination heater:		Yes					
Parameters shall be declared for medi	ium-temp	erature applica	tion, except f	for low-temperature heat pumps	s. For low- tempe	erature heat	pumps,
parameters shall be declared for low-	temperatu	re application.	•				
Item Sy	mbol	Value	Unit	Item	Symbol	Value	Unit

Seasonal space heating energy 102 % Rated heat output (*) Prated 18 kW η_s efficiency Declared capacity for heating for part load at indoor temperature 20 °C and Declared coefficient of performance or primary energy ratio for outdoor temperature T j part load at indoor temperature 20 °C and outdoor temperature T j Ti = -7°C Pdh 11,6 kW Ti = -7°C COPd 2,60 T j = + 2 °C T j = +2 °C Pdh 14,1 kW COPd3,22 T j = + 7 °C T j = +7 °C COPd 4,11 Pdh 17,8 kW T j = + 12 °C COPd Pdh 21,4 kW T j = +12 °C 4,90 T j = bivalent temperature Pdh 11,3 kW T j = bivalent temperature COPd 2,54 T j = operation limit T j = operation limit Pdh 6,8 kW COPd 1,48 temperature temperature For air-to-water heat pumps: For air-to-water heat pumps: Pdh 9,1 kW COPd 2,59 T j = -15 °C (if TOL < -20 °C)T j = -15 °C (if TOL < -20 °C)For air-to-water heat pumps: -8 °C TOI -22 °C Bivalent temperature Operation limit temperature Cycling interval capacity for kW Cycling interval efficiency COPcyc P cych na na heating Heating water operating limit Degradation co-efficient Cdh 0,93 WTOL 55 °C temperature Power consumption in modes other than active mode Supplementary heater Off mode 0,018 kW Rated heat output (*) 11,0 kW P OFF Psup Thermostat-off mode P_{TO} 0,160 kW 0,018 Type of energy input **Electric** Standby mode P_{SB} kW 0,000 kW Crankcase heater mode P_{CK} Other items For air-to-water heat pumps: Capacity control **Fixed** 4100 m3/h Rated air flow rate, outdoors 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 Annual energy consumption 16783 kWh na m3/h Q_{HE} exchanger For heat pump combination heater: Efficiency Water heating energy **Declared load profile** XL na η_{wh} 64 % efficiency class Daily electricity consumption Qelec 11,937 kWh Daily fuel consumption **Q**fuel NA kWh Annual electricity AEC kWh Annual fuel consumption AFC NA 2626 consumption The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great

	nformation for heat pump space heaters and heat pump combination Narm climate and Medium temperature			n heaters	Enertech AB 341 26 Ljungby			
Model(s):		CTC EcoAir 42	0 + CTC Basics	styrning				
Air-to-water heat pump:		Yes		Energy efficiency class:		-		
Water-to-water heat pump:		No		Controller class:	T	-		
Brine-to-water heat pump:		No		Controller contribution:	1	%		
Low-temperature heat pump:	perature heat pump: No		Package efficiency:	141	%			
Equipped with a supplementary	heater:	No		Package efficiency class:		-		
Heat pump combination heater	:	No						
Parameters shall be declared for parameters shall be declared for				or low-temperature heat pumps. Fo	or low- tempe	rature heat p	umps,	
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 for part load at indoor temperature 20 °C and outdoor temperature T j					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T			
T j = -7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na	1 -	
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	1 -	
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 of	ther than active	e <u>mode</u>		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/	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 heater:

Declared load profile	na	Efficiency class		Water heating energy efficiency		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:

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.



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:	176	%			
Equipped with a supplementary heater:	No	Package efficiency class:		-			
Heat pump combination heater:	No						

parameters shall be declared for	or low-temperat	ure application					
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 foutdoor temperature T j	or part load at ir	ndoor temperat	ure 20 °C and	Declared coefficient of performar part load at indoor temperature 2	•		
T j = -7 °C	Pdh	na	kW	T j = -7 °C	COPd	na] -
T j = + 2 °C	Pdh	13,9	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 of	other than active	mode		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 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 productimportance that t	ct's life cycle, it must the product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	vice of that type.	t is of great



Information for heat pump space heaters and heat pump combination Average climate and Medium temperature			n heaters	Enertech AB 341 26 Ljungby		C	
Model(s):		CTC EcoAir 42	20 + CTC Basic	styrning			
Air-to-water heat pump:		Yes		Energy efficiency class:	A +	-	
Water-to-water heat pump:		No		Controller class:	-		
Brine-to-water heat pump:	Brine-to-water heat pump: No			Controller contribution:	1	%	
.ow-temperature heat pump:			Package efficiency:	120	%		
Equipped with a supplementary	heater:	No		Package efficiency class:	A+	-	
Heat pump combination heater		No		, , , , , , , , , , , , , , , , , , ,			
Parameters shall be declared fo	r medium-temp	erature applica	ation, except f	for low-temperature heat pumps. Fo	r low- tempe	rature heat p	umps,
parameters shall be declared fo	r low-temperat	ure application					
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 fooutdoor temperature T j	or part load at ir	ndoor temperat	ure 20 °C and	Declared coefficient of performation part load at indoor temperature			
T j = - 7 °C	Pdh	10,9	kW	T j = - 7 °C	COPd	2,35	1 -
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	-
T 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 active	e mode	_,	Supplementary heater			
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/ł
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}	9646	kWh	flow rate, outdoor heat exchanger	-	na	m3/h

For heat	numn	combination	heater.

Tot ficat partip combination fic	acci.						
Declared load profile	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:

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.

Enertech AB 341 26 Ljungby



Model(s):	CTC EcoAir 420 + CTC Basicstyrning							
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	%				
Low-temperature heat pump:	No	Package efficiency:	146	%				
Equipped with a supplementary heater:	No	Package efficiency class:	A+	-				
Heat pump combination heater:	No							
Parameters shall be declared for medium-te	mperature application	n, except for low-temperature heat pumps	s. For low- te	mperature heat pumps,				

Item	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 f outdoor temperature T j	or part load at in	door temperat	cure 20 °C and	Declared coefficient of performa part load at indoor temperature	-		
Tj=-7°C	Pdh	11,5	kW	T j = -7 °C	COPd	3,07] -
T j = + 2 °C	Pdh	14,0	kW	T j = +2 °C	COPd	3,72	-
T 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	-
T j = bivalent temperature	Pdh	11,5	kW	T j = bivalent temperature	COPd	3,15	-
T j = operation limit temperature	Pdh	10,5	kW	T j = operation limit temperature	COPd	2,82	-
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 °C (if TOL < -20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-6	°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	other than active	mode		Supplementary heater			_
Off mode	P OFF	0,018	kW	Rated heat output (*)	Psup	3,4	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/
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/l
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	kWl
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 mu the product's refrig	a recycling station or with the installation eng st be sent correctly to a waste station or resell erant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	vice of that type.	t is of gre



Information for heat pump : Cold climate and Medium t	•	nd heat pump	combinatio	n heaters	Enertech AB 341 26 Ljungby		TC
Model(s):		CTC EcoAir 42	0 + CTC Basic	styrning			
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 supplementar	y heater:	No		Package efficiency class:		-	
Parameters shall be declared f parameters shall be declared f Item				or low-temperature heat pumps. F	or low- temper	rature heat p Value	umps, Unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	η_s	107	%
Declared capacity for heating foutdoor temperature T j	or part load at in	door temperat	ure 20 °C and	Declared coefficient of perform 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 i = +12 °C	COPd	4,76	1 .
		- / -			co, a	4,70	

T j = + 7 °C	Pdh	17,4	kW					
T j = + 12 °C	Pdh	20,5	kW					
T j = bivalent temperature	Pdh	8,8	kW					
T j = operation limit temperature	Pdh	6,1	kW					
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	8,5	kW					
Bivalent temperature	T _{biv}	-14	°C					
Cycling interval capacity for heating	P _{cych}	na	kW					
Degradation co-efficient	Cdh	0,99	-					
Power consumption in modes other than active mode								
Off mode	P OFF	0,018	kW					
Thermostat-off mode	P _{TO}	0,020	kW					

Crankcase heater mode	P _{CK} 0,000 kV				
Other items					
Capacity control	Fixed				
Sound power level, indoors/ outdoors	L _{WA}	na/66	dB		
Annual anargy consumption	0	0070	kWh		

 P_{SB}

l' '		•	,
T j = - 7 °C	COPd	2,52	-
T j = +2 °C	COPd	3,15	-
T j = +7 °C	COPd	4,01	-
T j = +12 °C	COPd	4,76	-
T j = bivalent temperature	COPd	2,16	-
T j = operation limit temperature	COPd	1,44	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	COPd	1,98	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	СОРсус	na	-
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output (*)	Psup	4,9	kW
Type of energy input		Electric	

Seclared lood profile		Efficiency		Water heating energy	n		0/
or heat pump combination he	eater:						
annual energy consumption	Q _{HE}	9970	kWh	flow rate, outdoor heat exchanger	-	na	m3/h
ound power level, indoors/ outdoors	L _{WA}	na/66	dB	For water-/brine-to-water heat pumps: Rated brine or water			
apacity control		Fixed		Rated air flow rate, outdoors	-	4100	m3/h

kW

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:

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.

Standby mode

0,018

Information for heat pump space heaters Cold climate and Low temperature		and heat pump combination heaters			Enertech AB 341 26 Ljungby		CIC
Model(s):		CTC EcoAir 42	20 + CTC Basics	tyrning			
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					
Parameters shall be declared for parameters shall be declared for			•	r low-temperature heat pumps. F	or low- tempe	rature heat p	umps,
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 for outdoor temperature T j	part load at i	ndoor temperat	cure 20 °C and	Declared coefficient of perform part load at indoor temperatur	•		
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 ot	her than activ	e mode	_	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				

Fixed Capacity control Sound power level, indoors/ na/66 dΒ L_{WA} outdoors Q_{HE} 8876 kWh Annual energy consumption

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

For heat pump combination heater:

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:

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.