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

Enertech AB 341 26 Ljungby



No Energy efficiency data: - Water-to-water heat pump: No Controller cast: VI Water-to-water heat pump: Yes Controller cast: VI Low-temperature heat pump: No Package efficiency: 123 %. Equipode with assignmentary heater: Yes Package efficiency: 123 %. Equipode with assignmentary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package efficiency: 123 %. Figuride Vita Supplementary heater: Yes Package officiency: 123 %. Figuride Vita Supplementary heater: Yes	Warm climate and Medium	temperature				341 26 Ljur	ngby	
Water leat pump: No Controller class: VII - Brine-to-water heat pump: Yes Controller controler controler controller controller controller controller controle	Model(s):		CTC EcoHeat 4	06				
Brine Lo water heat pump: Yes Controller contribution: 3.5 % Cove temperature heat pump: No Package efficiency: 123 % Exaple durint a supplementary heater: Yes Package efficiency: 123 % Heat pump combination heater: Yes Package efficiency class: - Package efficiency: No Package efficiency class: - Parameters shall be declared for efform temperature application. Symbol Value Unit Rated heat output (*) Protect 6 WW Beadmand active comports and indoor temperature 20 °C and outdoor temperature 20 °C and outdoot temperature 20 °C and	Air-to-water heat pump:		No		Energy efficiency class:		-	
No Package efficiency: 123 % Guipped with a supplementary heater: Yes Package efficiency: 123 % Parameters shall be declared for medium-temperature application. Yes Package efficiency: 123 % Parameters shall be declared for medium-temperature application. Item Symbol Value Unit No Package efficiency: 0,018 KW Teamonitary heating energy: 0,5 11.9 % Declared copicity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 i Ti = -7 °C COPd na Ti = -7 °C COPd 7,6 11.9 % T j = -7 °C Path 5,2 KW Ti = -7 °C COPd 7,2 1.19 % T j = -7 °C Path 5,2 KW Ti = -7 °C COPd 7,2 1.11 1.12	Water-to-water heat pump:		No		Controller class:	VII	-	
Equipped with a supplementary heater: Yes Package efficiency class: - read pump combination heater: Yes Package efficiency class: - read pump combination heater: Yes Package efficiency class: - parameters shall be declared for medium-temperature application. Item Symbol Value Unit tem Symbol Value Unit Item Symbol Value Unit tem Symbol Value Main Symbol Value Unit Symbol Value Unit temperature T Symbol Value No Symbol Value	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
VestYestParameters shall be declared for medium-temperature application.Key temperature application, except for low-temperature heat pumps, znameters shall be declared for medium-temperature application.ItemSymbolValueUnitRated heat output (*)Proted6KWSeasonal space heating energy η_s 11996Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T JDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and part load at indoor temperature 20 °C and outdoor temperature 1T j = -7 °CPdh5,2KWT j = -7 °CCOPd $\frac{na}{2,22}$ -T j = -7 °CPdh5,2KWT j = -7 °CCOPd $\frac{2,83}{3,76}$ -T j = -7 °CPdh5,2KWT j = -2 °CCOPd $\frac{2,83}{3,76}$ -T j = b operation limitPdh5,2KWT j = -13 °C (if TOL < -20 °C)COPd $\frac{2,72}{3,76}$ -T j = -15 °C (if TOL < -20 °C)PdhnaKWFor air-to-water heat pumps: TOL (if CU < -20 °C)COPd $\frac{2,72}{3,76}$ -Bivalent temperatureT fow3°CSoperation limit temperatureCOPd $\frac{2,72}{3,76}$ -Grain to water heat pumps: T j = -15 °C (if TOL < -20 °C)Pdh $\frac{1}{3,76}$ Bivalent temperatureT fow $\frac{1}{3,76}$	Low-temperature heat pump:		No		Package efficiency:	123	%	
Parameters shall be declared for medium-temperature application. term Symbol Value Unit term Symbol Value Unit ter	Equipped with a supplementary	heater:	Yes		Package efficiency class:		-	
Prover consumption in modes other than active mode. Fixed meta constraints of the declared for medium-temperature application. Term Symbol Value Unit is declared for medium-temperature 20 °C and buildon temperature 7 is 119 % Declared capacity for heating for part load at indoor temperature 20 °C and buildon temp			Yes		с ,			
temSymbolValueUnittemSymbolValueUnitRated heat output (*)Proted6kWSeasonal space heating energy n_g 119%Declared capacity for heating for part load at indoor temperature 20 °C andDeclared capacity for heating for part load at indoor temperature 20 °C andDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 10 °C and outdoor temperature 20 °C and outdoor temperature 10 °C and outdoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 10 °C and outdoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 10 °C and outdoor temperature 20 °C and outdoor temperature	Parameters shall be declared fo	r medium-temp		tion, except for	r low-temperature heat pumps. For	low- tempera	ature heat pu	ımps,
Rate de hat output (*) Protect 6 kW Beasonal space heating energy n_5 119 % Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 i Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature 20 °C a	parameters shall be declared fo	•	ure application.					
NameProtect0KWefficiency11175Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7 jDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1T j = - 7 °CPdhnakWT j = - 7 °CC Ord2,72-T j = + 7 °CPdh5,7kWT j = - 7 °CC Ord3,11-T j = + 12 °CPdh5,7kWT j = + 7 °CC Ord3,12-T j = braient temperaturePdh5,2kWT j = - 7 °CC Ord3,12-T j = braient temperaturePdh5,2kWT j = - 7 °CC Ord2,72-T j = braient temperaturePdh5,2kWT j = operation limitC Ord2,72-T j = operation limitPdh5,2kWT j = operation limitC Ord2,72-For air-to-water heat pumps:PdhnakWFor air-to-water heat pumps:C Ordna-Swalent temperatureT j = - 15 °C (if TOL < - 20 °C)	ltem	Symbol	Value	Unit		Symbol	Value	Unit
part load at indoor temperature 20 °C and outdoor temperature 1 °F = 2 °C C COPd 2.72T j = - 7 °C Path5,2kWT j = -7 °C C COPd 3.716T j = + 12 °C Path5,3kWT j = + 12 °C C COPd 2.83T j = operation limitPath5,2kWT j = operation limitPath5,2kWt = operation limitPath5,2kWt = operation limitPath5,2kWt = operation limitCOPd 2.72-For air-to-water heat pumps:Pathnat = j = -15 °C (if TOL < -20 °C)	Rated heat output (*)	Prated	6	kW		η _s	119	%
T j = + 2 °CPdh5,2KWT j = + 2 °CCOPd2,72.T j = + 12 °CPdh5,4KWT j = + 2 °CCOPd3,11T j = + 12 °CPdh5,7KWT j = + 12 °CCOPd3,76T j = operation limitPdh5,2KWT j = operation limitCOPd2,72.For air-to-water heat pumps:PdhnakWT j = operation limitCOPd2,72.For air-to-water heat pumps:T j = -15 °C (if TOL < -20 °C)		or part load at in	door temperatu	ire 20 °C and				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	[i=−7°C	Pdh	na	kW	T i = − 7 °C	COPd	na] -
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					-			1 -
i j = bivalent temperaturePdh5,3KWT j = bivalent temperatureCOPd2,83i j = operation limit emperaturePdh5,2kWT j = operation limit temperatureCOPd2,72or air-to-water heat pumps: i j = -15 *C (if TOL < -20 *C)	-	Pdh		kW		COPd		- [
T j = operation limit emperaturePdh5,2kWT j = operation limit temperatureCOPd2,72-or air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	ī j = + 12 °C	Pdh		kW	T j = +12 °C	COPd	3,76	-
emperaturePan5,2KWtemperatureCDPa2,72-for air-to-water heat pumps: r j = -15 °C (if TOL < -20 °C)	「j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,83] -
r j = - 15 °C (if TOL < - 20 °C)PannaRWr j = - 15 °C (if TOL < - 20 °C)		Pdh	5,2	kW		COPd	2,72	-
avalant temperature I_{biv} 3COperation limit temperature IOL naCCycling interval capacity for neating P_{cych} nakWOperation limit temperature IOL na-Degradation co-efficient Cdh $0,98$ -Heating water operating limit temperature $WTOL$ 65*CPower consumption in modes other than active mode $O_{0,18}$ kW Heating water operating limit temperature $WTOL$ 65*CSource consumption in modes other than active mode P_{orr} $0,018$ kW Rated heat output (*) $Psup$ $0,4$ kW Type of energy inputElectricSupplementary heater Rated air flow rate, outdoors-na $m3/4$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoors-na $m3/4$ Condoors L_{WA} 43/na dB kWh For air-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger-1 $m3/4$ Condeared load profile / Energy efficiency classL / AWater heating energy efficiency Q_{hel} R_{W} Daily feel consumption onsumptionQelec $5,985$ kWhDaily fuel consumption AFC naGJThe packaging must be deposited at a recycling station or with the installation engineer for correct wate management. At the end of the product 3 like cycle, it must be sent correction capuers or an assess action or corect wate state of the management are properly disposed d. Disposed of the prod		Pdh	na	kW		COPd	na	-
heating P_{cych} nakwCycling interval efficiency $COPcyc$ naDegradation co-efficient Cdh $0,98$ Heating water operating limit $wTOL$ 65 "CDower consumption in modes other than active mode $VTOL$ 65 "C $CDPcyc$ na T Dower consumption in modes other than active mode P_{orr} $0,018$ kW $WWTOL$ 65 "CDiff mode P_{orr} $0,010$ kW $VTOL$ 65 "CStandby mode P_{ss} $0,010$ kW $VTope of energy input$ $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlFixed $Fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors na $m3/t$ Capacity control $Fixed$ L_{WA} $43/na$ dB dB dB $m3/t$ Sound power level, indoors/ L_{WA} $43/na$ dB dB $m3/t$ $m3/t$ Annual energy consumption Q_{HE} 2382 kWh $Water heating energyn_{wh}78\%Daily electricity consumptionQ_{elec}5,985kWhDaily fuel consumptionQ_{fuel}nakWiAnnual electricityAEC1317kWhAnnual fuel consumptionAFCnaGSpecific precautions and endof life information:The packaging must be deposited at a recycling station or reselice of fering a service of that typ$	Bivalent temperature	T _{biv}	3	°C		TOL	na	°C
Jegradation co-efficient Can 0,98 temperature W/OL 65 C Power consumption in modes other than active mode 0,018 kW Supplementary heater Rated heat output (*) Psup 0,4 kW Off mode P or 0,010 kW Type of energy input Electric Supplementary heater Standby mode P sa 0,018 kW Type of energy input Electric Supplementary heater Crankcase heater mode P cx 0,000 kW Type of energy input Electric Supplementary heater Capacity control Fixed For air-to-water heat pumps: na m3/s Sound power level, indoors/ L wA 43/na dB dB pumps: Rated brine or water flow rate, outdoors na m3/s For heat pump combination heater: Declared load profile / 1 m3/s m3/s Declared load profile / L / A Water heating energy Nwh 78 % Specific precautions and end of life information: AEC 1317 KWh Annual fuel consumption AFC na G Fibre pro		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode P orF 0,018 kW Rated heat output (*) P sup 0,4 kW Thermostat-off mode P to 0,010 kW Type of energy input Electric Standby mode P sa 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m3/a Sound power level, indoors/ L wA 43/na dB pumps: Rated brine or water flow rate, outdoors na m3/a For heat pump combination heater: Declared load profile / L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kW Annual electricity consumption Qelec 1317 kWh Annual fuel consumption AFC na GJ Specific precautions and end of life information: of the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose of the product's not product is non preseller offering a ser	Degradation co-efficient	Cdh	0,98	-		WTOL	65	°C
Thermostat-off mode P_{TO} 0,010 kW Standby mode P_{SB} 0,018 kW Type of energy input $Electric$ Tankcase heater mode P_{CC} 0,000 kW Dther items Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/4 For air-to-water heat pumps: Rated air flow rate, outdoors - 1 m3/4 pumps: Rated brine or water flow rate, outdoor heat - 1 m3/4 For water-/brine-to-water heat pumps: Rated air flow rate, outdoors - 1 m3/4 pumps: Rated brine or water flow rate, outdoor heat - 1 m3/4 For heat pump combination heater: Declared load profile / L / A Water heating energy η_{wh} 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWH consumption AEC 1317 kWh Annual fuel consumption AFC na GJ The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the specific precautions and end of the product's life cycle, it must be sent orrectly to a waste station or caller of that type. It is of great importance that the product's fire cycle, it must be sent correctly to a waste station or caller of that type. It is of great importance that the product's fire cycle, it must be sent correctly to a waste station or caller of the type. It is of great importance that the product's fire cycle, it must be sent correctly to a waste station or caller of the type. It is of great importance that the product's fire cycle, it must be sent correctly conscient of the type. It is of great importance that the product's fire cycle.	Power consumption in modes o	ther than active	mode		Supplementary heater			•
Standby mode P 58 0,018 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Dther items	Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,4	kW
Crankcase heater mode P_{cx} $0,000$ kW Dther items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na $m3/i$ Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na $m3/i$ Capacity control L_{WA} $43/na$ dB For water-/brine-to-water heat pumps: Rated brine or water na $m3/i$ Annual energy consumption Q_{HE} 2382 kWh For water-/brine-to-water heat pumps: Rated brine or water 1 $m3/i$ Cor heat pump combination heater: Declared load profile / - 1 $m3/i$ Declared load profile / L / A Water heating energy n_{wh} 78 % Daily electricity consumption Qelec $5,985$ kWh Daily fuel consumption Qfuel na kWH Annual electricity AEC 1317 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 t	hermostat-off mode	P _{TO}	0,010	kW				•
Crankcase heater mode P cx 0,000 kW Other items - na m3/4 Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/4 Gound power level, indoors/ butdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water na m3/4 Annual energy consumption Q HE 2382 kWh For water-/brine-to-water heat pumps: Rated brine or water 1 m3/4 Cor heat pump combination heater: - 1 m3/4 Declared load profile / Energy efficiency class L / A Water heating energy efficiency n _{lwh} 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWH Annual electricity AEC 1317 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 water 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 grea importance that the product's refrigerant, c	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Dther items Capacity control Fixed Sound power level, indoors/ L WA 43/na Annual energy consumption Q Annual energy consumption Q Or heat pump combination heater: Declared load profile / Declared load profile / L / A Energy efficiency class L / A Daily electricity consumption Qelec Syspecific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's 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 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 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 life cycle, it must be not cycle at a new properly disposed of. Disposed of the product as household waste is not permitted.				kW				
Capacity control Fixed Rated air flow rate, outdoors na m3/4 Sound power level, indoors/ L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 1 m3/4 Annual energy consumption Q HE 2382 kWh KWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 1 m3/4 Declared load profile / L / A Water heating energy fliciency nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC na GJ Specific precautions and end of the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose of the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose of the product as household waste is not permitted. Disposed of. Disposed of Disposed of the product as household waste is not permitted.	Other items	C.	5,000	ļ		ļ		
butdoors L WA 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 2382 kWh rec, outdoor heat 1 m3/n For heat pump combination heater: Declared load profile / L / A Water heating energy nwh 78 % Declared load profile / L / A Water heating energy nwh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1317 kWh Annual fuel consumption AFC na GJ Specific precautions and end of the product's life cycle, it 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. Dispose of the product as household waste is not permitted.	Capacity control		Fixed			-	na	m3/ł
Annual energy consumption Q HE 2382 kWn exchanger - 1 M3/1 For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy ficiency η_{wh} 78 % Deaily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1317 kWh Annual fuel consumption AFC na GJ Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose of the product as household waste is not permitted.		L _{WA}	43/na	dB				
For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency η_{wh} 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity consumption AEC 1317 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. Dispose of the product as household waste is not permitted.	Annual energy consumption	Q _{HE}	2382	kWh		-	1	m3/h
Energy efficiency class L / A efficiency I/wh 78 % Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1317 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 importance that 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 of the product as household waste is not permitted.	<u> </u>	ater:	•	•	· · · · · · · · · · · · · · · · · · ·		•	·
Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kWh Annual electricity AEC 1317 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. Dispose of the product as household waste is not permitted.	• •		L/A			η _{wh}	78	%
AEC131/KWnAnnual fuel consumptionAFCnaGJSpecific precautions and end of life information:The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great of the product as household waste is not permitted.		Qelec	5,985	kWh		Qfuel	na	kWh
Specific precautions and endend of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dispose of the product as household waste is not permitted.		AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
	Specific precautions and end		end of the product importance that th	's life cycle, it must e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	ce of that type. t	is of great
	Contact details	Enertech AB, Box						18100

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

Enertech AB 341 26 Liungby



Warm climate and Low tem	perature				341 26 Ljur	ngby	
Model(s):		CTC EcoHeat 4	106				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	161	%	
Equipped with a supplementary	/ heater:	Yes		Package efficiency class:		-	
Heat pump combination heater	:	Yes					
Parameters shall be declared for parameters shall be declared for parame				r low-temperature heat pumps. For	low- tempera	ature heat pu	mps,
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	η _s	157	%
Declared capacity for heating fo outdoor temperature T j	or part load at ir	ndoor temperatu	ure 20 °C and	Declared coefficient of performa part load at indoor temperature			
Γ j = − 7 °C	Pdh	na	kW	T j = - 7 °C	COPd	na] -
Г ј = + 2 °С	Pdh	5,9	kW	T j = +2 °C	COPd	4,23	1.
г ј = + 7 °С	Pdh	6,0	kW	T j = +7 °C	COPd	4,45	1 -
ī j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	4,71] -
Г ј = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	4,30	-
Γ j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
For air-to-water heat pumps: Γ j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	3	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes c	other than active	e mode		Supplementary heater		.	
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,5	kW
hermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{ск}	0,000	kW				
Other items					1		
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/I
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	2073	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/l
or heat pump combination he	ater:			· · · · ·		-	
Declared load profile /		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class	Qelec	5,977	kWh	Daily fuel consumption	Qfuel		kWł
	QCICL	3,377			Qruei	na	
Annual electricity consumption	AEC	1315	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	t's life cycle, it mus ne product's refrige	a recycling station or with the installation engin t be sent correctly to a waste station or reseller rant, compressor oil and electrical/electronic not permitted.	er offering a servio	ce of that type. t	is of great
Contact dataila	nortoch AD De						10100
Contact details	пенесп АВ, ВО	x 309, SE-341 26	LJUNGDY TEL+2	46 372 88000 www.ctc.se			18100

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

Enertech AB 341 26 Liungby



Average climate and Mediu	m temperatur	e			341 26 Ljur	ngby	
Model(s):		CTC EcoHeat 4	06				
Air-to-water heat pump:		No		Energy efficiency class:	A+	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	123	%	
Equipped with a supplementary	y heater:	Yes		Package efficiency class:	A+	-	
Heat pump combination heater		Yes					
			tion, except fo	r low-temperature heat pumps. For	low- tempera	ature heat pu	imps,
parameters shall be declared fo	-		11	lt	Gunahal	Malua	11
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	efficiency	η _s	119	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	5,3	kW	T j = - 7 °C	COPd	2,90	1 -
Г ј = + 2 °С	Pdh	5,4	kW	T j = +2 °C	COPd	3,32	1 -
Г ј = + 7 °С	Pdh	5,6	kW	T j = +7 °C	COPd	3,66] -
Г ј = + 12 °С	Pdh	5,8	kW	T j = +12 °C	COPd	4,01	-
Γ j = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	2,96	-
T j = operation limit temperature	Pdh	5,2	kW	T j = operation limit temperature	COPd	2,72	-
For air-to-water heat pumps: F j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	_
Bivalent temperature	T _{biv}	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98] .	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes of	other than active	mode	_	Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	1,1	kW
Thermostat-off mode	Р _{то}	0,010	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{ск}	0,000	kW				
Other items			-				-
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/h
Sound power level, indoors/	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	4006	kWh	flow rate, outdoor heat exchanger	-	1	m3/h
or heat pump combination he	ater:						·
Declared load profile /		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class				efficiency			-
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it mus e product's refrige	a recycling station or with the installation engi t be sent correctly to a waste station or reselle rrant, compressor oil and electrical/electronic not permitted.	er offering a servio	ce of that type. t	is of great
Contact details	Enertech AB, Bo:						181001
		. 303, 32 341 20	-101 60 101 1				101001

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

Enertech AB 341 26 Ljungby



Average climate and Low te	mperature				341 26 Ljur	ngby	
Model(s):		CTC EcoHeat 4	06				
Air-to-water heat pump:		No		Energy efficiency class:	A++	-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	166	%	
Equipped with a supplementary	heater:	Yes		Package efficiency class:	A++	-	
Heat pump combination heater Parameters shall be declared fo parameters shall be declared fo	r medium-temp		tion, except for	r low-temperature heat pumps. For	low- tempera	ture heat pu	mps,
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	n _s	162	%
Declared capacity for heating fo outdoor temperature T j	or part load at in	door temperatu	ire 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	6,0	kW	T j = – 7 °C	COPd	4,32] -
Г ј = + 2 °С	Pdh	6,0	kW	T j = +2 °C	COPd	4,50	1 -
Г ј = + 7 °С	Pdh	6,1	kW	T j = +7 °C	COPd	4,66	-
T j = + 12 °C	Pdh	6,2	kW	T j = +12 °C	COPd	4,83] -
T j = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,32	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
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}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for neating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes o	ther than active	mode	-	Supplementary heater			-
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,8	kW
Thermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items		·	.		Ŧ		_
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/l
Cound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3281	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/ł
For heat pump combination hea	ater:	·	•			·	<u></u>
Declared load profile /		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class	Ooloc		LAA/h	Daily fuel consumption			-
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWł
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	a recycling station or with the installation engine t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic not permitted.	er offering a servio	e of that type. t	is of great
Constructed at 1	nortock AD D						10100
Contact details	nertech AB, Bo	< 309, SE-341 26	Ljungby Tel +4	46 372 88000 www.ctc.se			18100

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

Enertech AB 341 26 Liungby



Rated heat output (*)Proted6kWDeclared capacity for heating for part load a lindoor temperature 20 °C and outdoor temperature 1 j n_s 124Declared capacity for heating for part load a lindoor temperature 20 °C and outdoor temperature 1 j n_s 124T j = -7 °CPdh5,4kWT j = -7 °CPdh5,6kWT j = -7 °CPdh5,6kWT j = + 7 °CPdh5,7kWT j = + 7 °CPdh5,7kWT j = bivalent temperaturePdh5,2kWT j = bivalent temperaturePdh5,2kWT j = oparation limit temperaturePdh5,2kWT j = oparation limit temperaturePdh5,2kWT j = -15 °C (if TOL < -20 °C)PdhnakWBivalent temperatureT biv-17°CCycling interval capacity for heatingP cychnakWOff modeP or 0,0100,018kWCycling interval capacity for heatingP or 0,0100,018kWCrankcase heater modeP or 0,0100,018kWCapacity controlFixedSouplementary heater Rated air flow rate, outdoorsnaCapacity controlFixedSouplementary heater P or 0,000kWCapacity controlL wa 43/nadB dBAd controlFor air-to-water heat pumps: Rated air flow rate, outdoorsnaCapacity controlFixedSouplementary heater Rated air flow	Cold climate and Medium t	emperature				341 26 Ljur	ngby	
Water to water heat pump: No Controller class: VII - Brine-to-water heat pump: Ves Controller contribution: 3,5 % Bruit-to-water heat pump: No Package efficiency: 128 % Equipped with a supplementary heater: Yes Package efficiency: 128 % 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. - Heat Package efficiency: 124 Use Rated heat output (*) Proted 6 kW Efficiency Efficiency 124 Use Use Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature 3,61 Yii = -7 °C COPd 3,23 T = -7 °C Pdh 5,6 KW T = -7 °C COPd 3,51 T = -7 °C Pdh 5,7 KW T = -7 °C COPd 3,91 T = +2 °C COPd 4,14 T = -7 °C<	Model(s):		CTC EcoHeat 4	06				
Brine-to-water heat pump: Yes Controller contribution: 3,5 % Low-temperature heat pump: No Package efficiency: 128 % Guipped with a supplementary heater: Yes Package efficiency: 128 % Parameters shall be declared for non-temperature application. Yes Package efficiency: No Yes Parameters shall be declared for low-temperature application. Yes Symbol Value Unit Rated heat output (*) Protect 6 kW Seasonal space heating energy and the declared for low-temperature 20 °C and outdoor temperature 1 T = -7 °C Pdh 5,4 KW T = -7 °C COPd 3,51 124 U Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 T = -7 °C COPd 3,51 124 T = +2 °C COPd 3,51 127 <td>Air-to-water heat pump:</td> <td></td> <td>No</td> <td></td> <td>Energy efficiency class:</td> <td></td> <td></td> <td></td>	Air-to-water heat pump:		No		Energy efficiency class:			
Low-temperature heat pump: No Package efficiency: 128 % Equipped with a supplementary heater: Yes Package efficiency class: - - Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps; parameters shall be declared for medium-temperature application, except for low-temperature heat pumps; - - - Rated heat output (*) Proted 6 kW -<	Water-to-water heat pump:		No		Controller class:	VII	-	
Equipped with a supplementary heater: Yes Package efficiency class: - Fiest pump combination heater: Yes Package efficiency class: - Fiest pump combination heater: Yes Package efficiency class: - Fiest pump combination heater: The Samatters shall be declared for low-temperature application, except for low-temperature heat pumps, for low-temperature heat pumps, for low-temperature heat pumps, for low-temperature heat pumps. For low-temperature heat pumps, for low-temperature for low-te	Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Hait pump combination heater: Yes Parameters shall be declared for low-temperature application. Expandences shall be declared for low-temperature application. Item Symbol Value Unit Item Symbol Value U Rated heat output (*) Protect 6 kW Seconal space heating energy n.s 12.4 Declared coefficient of performance or primary energy rots for outdoor temperature T j Image: Seconal space heating energy n.s 12.4 T j = - 7 C Pdh 5.6 kW T j = - 7 C COPd 3.23 T j = + 2 C Pdh 5.7 kW T j = + 2 C COPd 3.29 T j = + 12 °C Pdh 5.7 kW T j = + 2 °C COPd 3.29 T j = + 2 °C Pdh 5.9 KW T j = + 2 °C COPd 3.24 T j = operation limit Pdh 5.2 kW T j = peration limit COPd 2.94 T j = operation limit Pdh 5.2 kW T j = operation limit COPd 2.72 For air-to-water heat pumps: Pdh 5.2 kW T j = ope	Low-temperature heat pump:		No		Package efficiency:	128	%	
Hait pump combination heater: Yes Parameters shall be declared for low-temperature application. Expandences shall be declared for low-temperature application. Item Symbol Value Unit Item Symbol Value U Rated heat output (*) Protect 6 kW Seconal space heating energy n.s 12.4 Declared coefficient of performance or primary energy rots for outdoor temperature T j Image: Seconal space heating energy n.s 12.4 T j = - 7 C Pdh 5.6 kW T j = - 7 C COPd 3.23 T j = + 2 C Pdh 5.7 kW T j = + 2 C COPd 3.29 T j = + 12 °C Pdh 5.7 kW T j = + 2 °C COPd 3.29 T j = + 2 °C Pdh 5.9 KW T j = + 2 °C COPd 3.24 T j = operation limit Pdh 5.2 kW T j = peration limit COPd 2.94 T j = operation limit Pdh 5.2 kW T j = operation limit COPd 2.72 For air-to-water heat pumps: Pdh 5.2 kW T j = ope	Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
parameters shall be declared for low-temperature application.Item Symbol Value UnitItem Symbol Value UnitRated heat output (*)Proted6kWSeasonal space heating energyng124Declared capacity for heating for part load at indoor temperature 20 °C andDeclared coefficient of performance or primary energy ratio forparameters 20 °C and outdoor temperatureJack State Sta		-	Yes		· · · · ·			
temSymbolValueUnittemSymbolValueUnitRated heat output (*) $Proted$ 6kWEasonal space heating energy n_S 124Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j $T = -7 °C$ Pdh $5,6$ kW $T = -7 °C$ $Ord J$ $3,23$ $T = -7 °C$ Pdh $5,6$ kW $T = -7 °C$ $Ord J$ $3,23$ $3,59$ $T = -7 °C$ Pdh $5,7$ kW $T = -7 °C$ $COPd$ $3,23$ $T = -7 °C$ Pdh $5,7$ kW $T = -7 °C$ $COPd$ $3,22$ $T = -7 °C$ Pdh $5,7$ kW $T = -7 °C$ $COPd$ $3,22$ $T = -7 °C$ $COPd$ $3,59$ $4,14$ $T = -7 °C$ $COPd$ $3,22$ $T = -15 °C (1 F OL20 °C)$ Pdh na kW $T = -7 °C$ $COPd$ $2,72$ For air-to-water heat pumps: Pdh na kW $T = -7 °C$ $COPd$ $2,72$ For air-to-water heat pumps: Pdh na kW $T = -7 °C$ $COPd$ $2,72$ For air-to-water heat pumps: $Rod R$ $T = -5 °C (1 C C - 20 °C)$ $COPd$ $2,72$ For air-to-water heat pumps: $Rod R$ $Rod R$ RW $T = -5 °C (1 C - 20 °C)$ $Rod R$ Bivalent temperature T_{bv} -17 $°C$ $COPd$ $Rod R$ Degradation co-efficient Cdh $0,98$ $ Fo air-to-water heat pumps:Rod RD$				tion, except fo	r low-temperature heat pumps. For	low- tempera	ature heat pu	ımps,
Rated heat output (*) Proted 6 kW Bated heat output (*) Proted 6 kW Declared capacity for heating for part load at indoor temperature 20 *C and outdoor temperature 1 j Seasonal space heating energy n_S 124 T j = - 7 °C Pdh 5,4 kW Declared coefficient of performance or primary energy ratio for outdoor temperature 20 *C and outdoor temperature 1 j T j = - 7 °C COPd 3,23 T j = - 7 °C Pdh 5,5 kW T j = - 7 °C COPd 3,91 T j = - 12 °C Pdh 5,2 kW T j = - 7 °C COPd 3,91 T j = operation limit Pdh 5,2 kW T j = -12 °C COPd 2,94 T j = operation limit Pdh 5,2 kW T j = -13 °C (if TOL < -20 °C)	•							
Name has output (*)Protect5KWefficiencynn1/2Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1Declared coefficient of performance or primary energy rate to part load at indoor temperature 20 °C and part load at indoor temperature 20 °C and 	Item	Symbol	Value	Unit	1	Symbol	Value	Unit
outdoor temperature T jT j = -7 °CPdh5,6T j = + 2 °CPdh5,7WWT j = + 2 °CCOPd3,91T j = + 12 °CPdh5,3WWT j = + 2 °CCOPd3,91T j = operation limitPdh5,2WWT j = operation limitCOPd2,72For air-to-water heat pumps:PdhnaT j = -15 °C (If TOL < -20 °C)	Rated heat output (*)	Prated	6	kW		η _s	124	%
$T_{j} = 2 C C Pdh 5.6 KW T_{j} = + 2 C C OPd 3.59 (T_{j} = + 7 C C) COPd 3.51 (T_{j} = + 12 C C) COPd 4.14 (T_{j} = + 15 C C) (T CL < - 20 C) Pdh 5.2 KW (T_{j} = + 15 C C) (T CL < - 20 C) Pdh 7.1 (T CL < - 2$		or part load at in	idoor temperatu	ire 20 °C and				
$ T_{j} = -2^{\circ}C \qquad Pah \qquad 5.6 \\ T_{j} = +7^{\circ}C \qquad Pah \qquad 5.6 \\ T_{j} = +7^{\circ}C \qquad COPd \qquad 3.59 \\ T_{j} = +7^{\circ}C \qquad COPd \qquad 4.14 \\ T_{j} = +7^{\circ}C \qquad COPd \qquad 4.14 \\ T_{j} = -17^{\circ}C \qquad COPd \qquad 2.72 \\ Pah \qquad 1^{\circ} = -17^{\circ}C \qquad COPd \qquad 1^{\circ} = -17^{\circ}C \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad Pdh \qquad na \qquad kW \qquad For air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ T_{j} = -15^{\circ}C (if TOL < -20^{\circ}C) \qquad COPd \qquad na \\ Por air-to-water heat pumps: \\ Por air-to-water heat pumps:$	T j = – 7 °C	Pdh	5.4	kW	T j = – 7 °C	COPd	3.23	٦ - T
T j = + 7 °CPah5,7KWT j = + 7 °CCOPd3,91T j = + 7 °CPah5,9KWT j = + 7 °CCOPd3,91T j = bivalent temperaturePah5,3KWT j = bivalent temperatureCOPd2,94T j = operation limitPah5,2KWT j = operation limitCOPd2,72For air-to-water heat pumps:PahnaKWT j = operation limitCOPd2,72For air-to-water heat pumps:PahnaKWT j = -15 °C (if TOL < -20 °C)	-			-				1 -
T j = bivalent temperature Pdh $5,3$ kW T j = bivalent temperature $COPd$ $2,94$ T j = operation limit temperature Pdh $5,2$ kW T j = operation limit temperature $COPd$ $2,72$ For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	-	Pdh		kW] -
T j = operation limit temperature Pdh 5,2kWT j = operation limit temperature $COPd$ 2,72For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = + 12 °C	Pdh	5,9	kW	T j = +12 °C	COPd	4,14	-
temperaturePan5,2KWtemperatureCDPa2,72For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = bivalent temperature	Pdh	5,3	kW	T j = bivalent temperature	COPd	2,94	-
T j = -15 °C (if TOL < - 20 °C)PahnaKWT j = -15 °C (if TOL < - 20 °C)CUPanaBivalent temperatureT $_{biv}$ -17°CFor air-to-water heat pumps: Operation limit temperatureTOLnaSivalent temperatureT $_{biv}$ -17°CVicing interval capacity for heatingP $_{cych}$ nakWDegradation co-efficientCdh0.98-Cycling interval efficiencyCOPcycnaPower consumption in modes other than active mode0,018kWKWRated heat output (*)P $_{Sup}$ 0,9kOff modeP $_{orr}$ 0,010kWKWType of energy inputElectricFielectricCrankcase heater modeP $_{cx}$ 0,000kWType of energy inputElectricmaCapacity controlFixedFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsnamSound power level, indoors/L $_{WA}$ 43/nadBdBFor water,/brine-to-water heat pumps: Rated brine or water flow rate, outdoorsnamFor heat pump combination heater:Declared load profile / Energy efficiency classL / AWater heating energy efficiency n_{wh} 78Daily electricity consumptionQelec5,985kWhDaily fuel consumptionAfcnaSpecific precautions and end of the product's the cycle, it must be ent correctly to a wate station or reseller offering a servec of that type. to fig mortance tergingent, compresor of and electricid/ectronic cupment are p		Pdh	5,2	kW		COPd	2,72	- 1
Bavalent temperature I_{bhv} $-1/$ C Operation limit temperature IOL Ina Cycling interval capacity for heating P_{Cych} Ina KW $Cycling interval efficiency COPcyc InaDegradation co-efficient Cdh 0,98 -Power consumption in modes other than active modeOff mode P_{orr} 0,018 KW Rate operating limit WTOL 65Thermostat-off mode P_{rr} 0,018 KW Rate delta to utput (*) Psup 0,9 KThermostat-off mode P_{cx} 0,000 KW Type of energy input ElectricCapacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - Sound power level, indoors/ L_{WA} 43/na dB MWh Rate drift or water rheat pumps: Rated bine or water rheat pumps: Rated air flow rate, outdoors - for heat pump combination heater: Declared load profile / L/A MWh MWh Mater heating energy \Pi_{Wh} 78 MHH Rated fleic consumption Q fuel Ina KAnnual electricity consumption Q elec 5,985 KWh Annual fuel consumption AFC Ina KW Annual fuel consumption AFC Ina KWh Ina Annual fuel consumption AFC Ina KWh Ina Annual fuel consumption AFC Ina Ina Annual fuel consumption AFC Ina Ina Ina Annual fuel consumption AFC Ina Ina Annual fuel consumption IR Ina Annual Ina Ina Ina Ina Ina Ina Ina Ina Ina Ina$		Pdh	na	kW		COPd	na	
heating P_{cych} nakWCycling interval efficiency $COPcyc$ naDegradation co-efficient Cdh $0,98$ -Heating water operating limit temperature $WTOL$ 65Power consumption in modes other than active mode $0,018$ kW Supplementary heater Rated heat output (*) $Psup$ $0,9$ k Thermostat-off mode P_{ror} $0,010$ kW Type of energy input $Electric$ Standby mode P_{ss} $0,018$ kW Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlFixedFor air-to-water heat pumps: Rated air flow rate, outdoorsnamSound power level, indoors/ outdoors L_{WA} 43/na dB dB $Pro-for air-to-water heat pumps:Rated brine or waterflow rate, outdoor heatexchangernamFor heat pump combination heater:Declared load profile /Energy efficiency classL / AWater heating energyefficiency\eta_{wh}78Daily electricityconsumptionAEC1317KWhAnnual fuel consumptionAFCnadSpecific precautions and endoil life information:The packaging must be deposited at a recycling station or with the installation engineer for correct wate management. At-end of the product's freigneant, compresso oil and electricid/electronic equipment are properly disposed of. Dis$	Bivalent temperature	T _{biv}	-17	°C		TOL	na	°C
Degradation co-efficient Cah 0,98 - temperature WIOL 65 Power consumption in modes other than active mode Off mode Porf 0,018 kW Supplementary heater Rated heat output (*) Psup 0,9 k Thermostat-off mode Pro 0,010 kW Standby mode Psa 0,018 kW Crankcase heater mode Pcx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m Sound power level, indoors/ outdoors L WA 43/na dB KWh For water-/brine-to-water heat pumps: Rated air flow rate, outdoors - 1 m For heat pump combination heater: Declared load profile / L / A Water heating energy - 1 m Dealy electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na Annual fuel consumption AFC na M Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or meseller offering a service of that type. It is of gimportance that		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Power consumption in modes other than active mode Supplementary heater Off mode P orr 0,018 kW Thermostat-off mode P ro 0,010 kW Standby mode P sg 0,018 kW Crankcase heater mode P cc 0,000 kW Other items Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m Sound power level, indoors/ outdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na k Annual electricity consumption AEC 1317 KWh Annual fuel consumption AFC na M Specific precautions and end of the product's life cycle, it must be sent correctly of a waste station or reseller offering a service of that type. t is of gimportance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis <td>Degradation co-efficient</td> <td>Cdh</td> <td>0,98</td> <td>-</td> <td></td> <td>WTOL</td> <td>65</td> <td>°C</td>	Degradation co-efficient	Cdh	0,98	-		WTOL	65	°C
Thermostat-off mode P TO 0,010 kW Standby mode P SB 0,018 kW Crankcase heater mode P CK 0,000 kW Other items 0,000 kW Type of energy input Electric Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m Sound power level, indoors/ outdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency Nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC na M 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. Att importance that the product's life cycle, it must be sent correctly to a waste station or reseller offring a service of that type. It is of g importance that the product's life cycle, it must be sent correct yealestestation	Power consumption in modes	other than active	e mode		Supplementary heater		-	
Standby mode P sB 0,018 kW Type of energy input Electric Crankcase heater mode P ck 0,000 kW Type of energy input Electric Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m Sound power level, indoors/ outdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1 m For heat pump combination heater: Energy efficiency class L / A Water heating energy n_wh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC na KI Specific precautions and end of the product's refrigerant, compressor oil and electrici/electronic equipment are properly disposed of. Dis importance that the product's refigerant, compressor oil and electrici/electronic equipment are properly disposed of. Dis Einergy efficiency (electronic equipment are properly disposed of. Dis	Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,9	kW
Crankcase heater mode P cx 0,000 kW Other items Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors na m Sound power level, indoors/ boutdoors L wA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat 1 m Annual energy consumption Q HE 4560 kWh exchanger 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency Nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kt Annual electricity consumption AEC 1317 KWh Annual fuel consumption AFC na M 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that the product's life cycle, it must be sent correctly to a waste station or is an engineer of that type	Thermostat-off mode	Ρ _{τΟ}	0,010	kW				
Other items Capacity control Fixed Sound power level, indoors/ L WA 43/na dB outdoors Annual energy consumption Annual energy consumption Q HE 4560 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - 1 m For heat pump combination heater: - Declared load profile / L / A Energy efficiency class L / A Daily electricity consumption Qelec 5,985 Annual electricity AEC 1317 Capacity and of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. Is of g importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. Is of g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Capacity control Fixed For air-to-water heat pumps: Rated air flow rate, outdoors - na m Sound power level, indoors/ outdoors L wa 43/na dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1 m Annual energy consumption Q HE 4560 kWh KWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency Nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kk Annual electricity consumption AEC 1317 KWh Annual fuel consumption AFC na M 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 product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Crankcase heater mode	Р _{СК}	0,000	kW				
Capacity control Fixed Rated air flow rate, outdoors - na ma Sound power level, indoors/ butdoors L WA 43/na dB For water-/brine-to-water heat pumps: Rated brine or water For water-/brine-to-water heat pumps: Rated brine or water 1 m Annual energy consumption Q HE 4560 kWh Exchanger - 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy efficiency Nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC na M 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that 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 g importance that 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 g importance that the product's refrigerant, compressor oil and electri	Other items			·				_
L wa 43/na dB pumps: Rated brine or water Annual energy consumption Q HE 4560 kWh pumps: Rated brine or water For heat pump combination heater: Declared load profile / L / A Water heating energy nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity AEC 1317 kWh Annual fuel consumption AFC na Generging 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 g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Capacity control		Fixed			-	na	m3/h
Annual energy consumption Q HE 4560 kWn exchanger - 1 m For heat pump combination heater: Declared load profile / Energy efficiency class L / A Water heating energy ficiency nwh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity AEC 1317 kWh Annual fuel consumption AFC na M 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that 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 g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis		L _{WA}	43/na	dB	· ·			
For heat pump combination heater: Declared load profile / L / A Water heating energy efficiency class η_{wh} 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na k Annual electricity AEC 1317 kWh Annual fuel consumption AFC na k 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Annual energy consumption	Q _{HE}	4560	kWh		-	1	m3/h
Energy efficiency class L / A efficiency I wh 78 Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity AEC 1317 kWh Annual fuel consumption AFC na KV 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of grimportance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	For heat pump combination he	eater:						
Energy efficiency class efficiency Daily electricity consumption Qelec 5,985 kWh Daily fuel consumption Qfuel na kV Annual electricity AEC 1317 kWh Annual fuel consumption AFC na kV 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 product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Declared load profile /		ι/Δ		Water heating energy	n	78	%
Annual electricity consumption AEC 1317 kWh Annual fuel consumption AFC na The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At is 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 grid importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis	Energy efficiency class		-/ ~	1	efficiency	' Iwh	70	/0
AEC 1317 KWn Annual fuel consumption AFC na Consumption Consumption The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At a 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 g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dist	Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kWh
Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. t is of g importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Dis		AEC						GJ
			end of the product importance that th	's life cycle, it mus e product's refrige	t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic	er offering a servio	ce of that type. t	is of great
Contact details Enertech AB, Box 309, SE-341 26 Ljungby Tel +46 372 88000 www.ctc.se 181	Contact details	Enertech AB, Bo	x 309, SE-341 26	Ljungby Tel +4	46 372 88000 www.ctc.se			181001

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

Enertech AB 341 26 Ljungby



Cold climate and Low temp	erature				341 26 Ljur	igby	
Model(s):		CTC EcoHeat 4	06				
Air-to-water heat pump:		No		Energy efficiency class:		-	
Water-to-water heat pump:		No		Controller class:	VII	-	
Brine-to-water heat pump:		Yes		Controller contribution:	3,5	%	
Low-temperature heat pump:		No		Package efficiency:	168	%	
Equipped with a supplementar	y heater:	Yes		Package efficiency class:		-	
Heat pump combination heate Parameters shall be declared f		Yes	ion except for	r low-temperature heat pumps. For	low-tempera	ture heat nu	mns
parameters shall be declared for						ture neut pu	mp3)
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Uni
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	164	%
Declared capacity for heating f outdoor temperature T j	or part load at ir	ndoor temperatu	re 20 °C and	Declared coefficient of performa part load at indoor temperature			
Г ј = — 7 °С	Pdh	6,1	kW	T j = − 7 °C	COPd	4,52	1 -
Г ј = + 2 °С	Pdh	6,1	kW	T j = +2 °C	COPd	4,66	1 -
г ј = + 7 °С	Pdh	6,2	kW	T j = +7 °C	COPd	4,78	- [
Г ј = + 12 °С	Pdh	6,2	kW	T j = +12 °C	COPd	4,80	
T j = bivalent temperature	Pdh	6,0	kW	T j = bivalent temperature	COPd	4,32	-
T j = operation limit temperature	Pdh	5,9	kW	T j = operation limit temperature	COPd	4,23	-
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}	-19	°C	For air-to-water heat pumps: Operation limit temperature	TOL	na	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,97	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes	other than active	e mode		Supplementary heater			_
Off mode	P _{OFF}	0,018	kW	Rated heat output (*)	Psup	0,6	kИ
Thermostat-off mode	Р _{то}	0,027	kW				
Standby mode	P _{SB}	0,018	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{СК}	0,000	kW				
Other items							
Capacity control		Fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	na	m3/
Sound power level, indoors/ outdoors	L _{WA}	43/na	dB	For water-/brine-to-water heat pumps: Rated brine or water			
Annual energy consumption	Q _{HE}	3709	kWh	flow rate, outdoor heat exchanger	-	1,4	m3/
For heat pump combination he		1	1			<u> </u>	1
Declared load profile /		L/A		Water heating energy	η_{wh}	78	%
Energy efficiency class		-/ ~	1	efficiency	' Iwh	/0	- [*]
Daily electricity consumption	Qelec	5,985	kWh	Daily fuel consumption	Qfuel	na	kW
Annual electricity consumption	AEC	1317	kWh	Annual fuel consumption	AFC	na	GJ
Specific precautions and end of life information:		end of the product	's life cycle, it must e product's refrige	recycling station or with the installation engin t be sent correctly to a waste station or reselle rant, compressor oil and electrical/electronic e	r offering a servic	e of that type. t	is of grea