Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:		-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**161**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:		-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2687**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**157**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,75**	-
T j = +7 °C	*COPd*	**3,78**	-
T j = +12 °C	*COPd*	**5,12**	-
T j = bivalent temperature	*COPd*	**2,75**	-
T j = operation limit temperature	*COPd*	**2,75**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end 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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:		-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**204**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:		-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2566**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**200**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**4,29**	-
T j = +7 °C	*COPd*	**5,29**	-
T j = +12 °C	*COPd*	**5,71**	-
T j = bivalent temperature	*COPd*	**4,29**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

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

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**159**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3444**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**155**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,25**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,34**	-
T j = bivalent temperature	*COPd*	**3,00**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information:

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

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**212**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3800**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**208**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,59**	-
T j = +2 °C	*COPd*	**5,60**	-
T j = +7 °C	*COPd*	**6,05**	-
T j = +12 °C	*COPd*	**6,03**	-
T j = bivalent temperature	*COPd*	**4,30**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

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

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Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:		-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**167**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:		-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,46**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4158**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**163**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,01**	-
T j = +2 °C	*COPd*	**4,66**	-
T j = +7 °C	*COPd*	**5,17**	-
T j = +12 °C	*COPd*	**5,51**	-
T j = bivalent temperature	*COPd*	**2,86**	-
T j = operation limit temperature	*COPd*	**2,86**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information:

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

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Information for heat pump space heaters and heat pump combination heaters

Cold climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M/i612M**				
Air-to-water heat pump:	**No**		Energy efficiency class:		-
Water-to-water heat pump:	**No**		Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**		Controller contribution:	**4**	%
Low-temperature heat pump:	**No**		Package efficiency:	**214**	%
Equipped with a supplementary heater:	**No/yes**	**612M/i612M**	Package efficiency class:		-
Heat pump combination heater:	**No**				

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,45**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,013**	*kW*
Thermostat-off mode	P_{TO}	**0,034**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5145**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**210**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**5,33**	-
T j = +2 °C	*COPd*	**5,90**	-
T j = +7 °C	*COPd*	**5,95**	-
T j = +12 °C	*COPd*	**5,74**	-
T j = bivalent temperature	*COPd*	**3,93**	-
T j = operation limit temperature	*COPd*	**3,93**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**NA**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**NA**	%
Daily electricity consumption	Qelec	**NA**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**NA**	kWh	Annual fuel consumption	AFC	**NA**	GJ

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

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Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**161**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2687**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**157**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,75**	-
T j = +7 °C	*COPd*	**3,78**	-
T j = +12 °C	*COPd*	**5,12**	-
T j = bivalent temperature	*COPd*	**2,75**	-
T j = operation limit temperature	*COPd*	**2,75**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

Information for heat pump space heaters and heat pump combination heaters

Warm climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**204**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2566**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**200**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**4,29**	-
T j = +7 °C	*COPd*	**5,29**	-
T j = +12 °C	*COPd*	**5,71**	-
T j = bivalent temperature	*COPd*	**4,29**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

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

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**159**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3444**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**155**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,25**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,34**	-
T j = bivalent temperature	*COPd*	**3,00**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

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

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**212**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**na**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3800**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**208**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,59**	-
T j = +2 °C	*COPd*	**5,60**	-
T j = +7 °C	*COPd*	**6,05**	-
T j = +12 °C	*COPd*	**6,03**	-
T j = bivalent temperature	*COPd*	**4,30**	-
T j = operation limit temperature	*COPd*	**na**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

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

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Information for heat pump space heaters and heat pump combination heaters

Cold climate and Medium temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**167**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,46**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,000**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4158**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**163**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,01**	-
T j = +2 °C	*COPd*	**4,66**	-
T j = +7 °C	*COPd*	**5,17**	-
T j = +12 °C	*COPd*	**5,51**	-
T j = bivalent temperature	*COPd*	**2,86**	-
T j = operation limit temperature	*COPd*	**2,86**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

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

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Information for heat pump space heaters and heat pump combination heaters

Cold climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i360/ EcoVent i360F**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**214**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,45**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,013**	*kW*
Thermostat-off mode	P_{TO}	**0,034**	*kW*
Standby mode	P_{SB}	**0,000**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5145**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**210**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**5,33**	-
T j = +2 °C	*COPd*	**5,90**	-
T j = +7 °C	*COPd*	**5,95**	-
T j = +12 °C	*COPd*	**5,74**	-
T j = bivalent temperature	*COPd*	**3,93**	-
T j = operation limit temperature	*COPd*	**3,93**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**XL**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**100/A**	%
Daily electricity consumption	Qelec	**7,628**	kWh	Daily fuel consumption	Q_{fuel}	**na**	kWh
Annual electricity consumption	AEC	**1678**	kWh	Annual fuel consumption	AFC	**na**	GJ

Specific precautions and end of life information:

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

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**143**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**8**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**8,3**	kW
T j = + 7 °C	*Pdh*	**5,3**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**8,3**	kW
T j = operation limit temperature	*Pdh*	**8,3**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3022**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**139**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**2,51**	-
T j = +7 °C	*COPd*	**3,44**	-
T j = +12 °C	*COPd*	**4,57**	-
T j = bivalent temperature	*COPd*	**2,51**	-
T j = operation limit temperature	*COPd*	**2,51**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**178**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**na**	kW
T j = + 2 °C	*Pdh*	**10,0**	kW
T j = + 7 °C	*Pdh*	**6,4**	kW
T j = + 12 °C	*Pdh*	**2,9**	kW
T j = bivalent temperature	*Pdh*	**10,0**	kW
T j = operation limit temperature	*Pdh*	**10,0**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**2**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,98**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**2945**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**174**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**na**	-
T j = +2 °C	*COPd*	**3,83**	-
T j = +7 °C	*COPd*	**4,70**	-
T j = +12 °C	*COPd*	**5,02**	-
T j = bivalent temperature	*COPd*	**3,83**	-
T j = operation limit temperature	*COPd*	**3,83**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**142**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A++**	-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**6,0**	kW
T j = + 2 °C	*Pdh*	**3,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**6,7**	kW
T j = operation limit temperature	*Pdh*	**6,66**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**3839**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**138**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**2,96**	-
T j = +2 °C	*COPd*	**3,78**	-
T j = +7 °C	*COPd*	**4,21**	-
T j = +12 °C	*COPd*	**4,74**	-
T j = bivalent temperature	*COPd*	**2,73**	-
T j = operation limit temperature	*COPd*	**2,73**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:	**A+++**	-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**187**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:	**A+++**	-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**10**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**8,8**	kW
T j = + 2 °C	*Pdh*	**5,4**	kW
T j = + 7 °C	*Pdh*	**3,5**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**9,8**	kW
T j = operation limit temperature	*Pdh*	**9,8**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-10**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4310**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**183**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,09**	-
T j = +2 °C	*COPd*	**4,96**	-
T j = +7 °C	*COPd*	**5,33**	-
T j = +12 °C	*COPd*	**5,29**	-
T j = bivalent temperature	*COPd*	**3,82**	-
T j = operation limit temperature	*COPd*	**3,82**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,1**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,4**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	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.

Contact details CTC AB, Näsvägen 8, SE-341 34 Ljungby Tel +46 372 88000 www.ctc.se

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

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**149**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	Symbol	Value	Unit
Rated heat output (*)	*Prated*	**7**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**4,5**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**7,5**	kW
T j = operation limit temperature	*Pdh*	**7,54**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,96**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**4634**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**145**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**3,64**	-
T j = +2 °C	*COPd*	**4,18**	-
T j = +7 °C	*COPd*	**4,59**	-
T j = +12 °C	*COPd*	**4,88**	-
T j = bivalent temperature	*COPd*	**2,61**	-
T j = operation limit temperature	*COPd*	**2,61**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

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

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Information for heat pump space heaters and heat pump combination heaters

Cold climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart 612M + CTC EcoZenith i555**			
Air-to-water heat pump:	**No**	Energy efficiency class:		-
Water-to-water heat pump:	**No**	Controller class:	**VI**	-
Brine-to-water heat pump:	**Yes**	Controller contribution:	**4**	%
Low-temperature heat pump:	**No**	Package efficiency:	**189**	%
Equipped with a supplementary heater:	**Yes**	Package efficiency class:		-
Heat pump combination heater:	**Yes**			

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

Item	**Symbol**	**Value**	**Unit**
Rated heat output (*)	*Prated*	**11**	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*Pdh*	**7,0**	kW
T j = + 2 °C	*Pdh*	**4,2**	kW
T j = + 7 °C	*Pdh*	**2,8**	kW
T j = + 12 °C	*Pdh*	**2,4**	kW
T j = bivalent temperature	*Pdh*	**11,5**	kW
T j = operation limit temperature	*Pdh*	**11,5**	kW
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*Pdh*	**na**	kW
Bivalent temperature	T_{biv}	**-22**	°C
Cycling interval capacity for heating	P_{cych}	**na**	kW
Degradation co-efficient	*Cdh*	**0,97**	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	**0,030**	*kW*
Thermostat-off mode	P_{TO}	**0,030**	*kW*
Standby mode	P_{SB}	**0,030**	*kW*
Crankcase heater mode	P_{CK}	**0,000**	*kW*
Other items			
Capacity control		**Variable**	
Sound power level, indoors/ outdoors	L_{WA}	**41/na**	*dB*
Annual energy consumption	Q_{HE}	**5836**	*kWh*

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_s	**185**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = – 7 °C	*COPd*	**4,72**	-
T j = +2 °C	*COPd*	**5,19**	-
T j = +7 °C	*COPd*	**5,22**	-
T j = +12 °C	*COPd*	**5,03**	-
T j = bivalent temperature	*COPd*	**3,51**	-
T j = operation limit temperature	*COPd*	**3,51**	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	*COPd*	**na**	-
For air-to-water heat pumps: Operation limit temperature	*TOL*	**na**	°C
Cycling interval efficiency	*COPcyc*	**na**	-
Heating water operating limit temperature	*WTOL*	**65**	°C
Supplementary heater			
Rated heat output	*Psup*	**0,0**	*kW*
Type of energy input		***Electric***	
For air-to-water heat pumps: Rated air flow rate, outdoors	-	**na**	*m3/h*
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	**1,0**	*m3/h*

For heat pump combination heater:

Declared load profile		**L**		**Water heating energy efficiency/Energy class**	$\eta_{wh/-}$	**73/B**	%
Daily electricity consumption	Qelec	**7,160**	kWh	Daily fuel consumption	Q_{fuel}	**NA**	kWh
Annual electricity consumption	AEC	**1575**	kWh	Annual fuel consumption	AFC	**NA**	GJ

Specific precautions and end of life information:

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

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