Information for heat pump space heaters and heat pump combination heaters

Warm climate and Medium temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart i608M**			
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:	**150**	%
Equipped with a supplementary heater:	**Yes**	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*	**na**	kW
T j = + 2 °C	*Pdh*	**6,9**	kW
T j = + 7 °C	*Pdh*	**4,7**	kW
T j = + 12 °C	*Pdh*	**2,3**	kW
T j = bivalent temperature	*Pdh*	**6,9**	kW
T j = operation limit temperature	*Pdh*	**6,87**	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}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**2443**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**146**	%
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*	**2,84**	-
T j = +7 °C	*COPd*	**3,68**	-
T j = +12 °C	*COPd*	**4,64**	-
T j = bivalent temperature	*COPd*	**2,84**	-
T j = operation limit temperature	*COPd*	**2,84**	-
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	-	**0,9**	*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. Specific precausions/manuals can be found at http://www.ctc.se/nedladdningar

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Information for heat pump space heaters and heat pump combination heaters

Warm climate and Low temperature

CTC AB
Ljungby

Model(s):	**CTC EcoPart i608M**			
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:	**210**	%
Equipped with a supplementary heater:	**Yes**	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*	**na**	kW
T j = + 2 °C	*Pdh*	**7,4**	kW
T j = + 7 °C	*Pdh*	**4,6**	kW
T j = + 12 °C	*Pdh*	**2,7**	kW
T j = bivalent temperature	*Pdh*	**7,3**	kW
T j = operation limit temperature	*Pdh*	**7,3**	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}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**1745**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**206**	%
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*	**4,56**	-
T j = +7 °C	*COPd*	**5,40**	-
T j = +12 °C	*COPd*	**6,39**	-
T j = bivalent temperature	*COPd*	**4,56**	-
T j = operation limit temperature	*COPd*	**4,56**	-
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	-	**1,2**	*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

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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 i608M**			
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:	**163**	%
Equipped with a supplementary heater:	**Yes**	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*	**5,6**	kW
T j = + 2 °C	*Pdh*	**4,3**	kW
T j = + 7 °C	*Pdh*	**2,3**	kW
T j = + 12 °C	*Pdh*	**2,3**	kW
T j = bivalent temperature	*Pdh*	**6,9**	kW
T j = operation limit temperature	*Pdh*	**6,87**	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}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**3467**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**159**	%
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*	**3,02**	-
T j = +2 °C	*COPd*	**4,71**	-
T j = +7 °C	*COPd*	**4,46**	-
T j = +12 °C	*COPd*	**4,86**	-
T j = bivalent temperature	*COPd*	**2,66**	-
T j = operation limit temperature	*COPd*	**2,84**	-
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	-	**0,9**	*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:

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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 i608M**			
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:	**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*	**3,6**	kW
T j = + 7 °C	*Pdh*	**2,5**	kW
T j = + 12 °C	*Pdh*	**2,6**	kW
T j = bivalent temperature	*Pdh*	**7,3**	kW
T j = operation limit temperature	*Pdh*	**7,3**	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}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**2683**	*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*	**4,75**	-
T j = +2 °C	*COPd*	**5,68**	-
T j = +7 °C	*COPd*	**5,97**	-
T j = +12 °C	*COPd*	**6,05**	-
T j = bivalent temperature	*COPd*	**4,56**	-
T j = operation limit temperature	*COPd*	**4,56**	-
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	-	**1,2**	*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. Specific precausions/manuals can be found at http://www.ctc.se/nedladdningar

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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 i608M**			
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:	**166**	%
Equipped with a supplementary heater:	**Yes**	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*	**4,42**	kW
T j = + 2 °C	*Pdh*	**2,3**	kW
T j = + 7 °C	*Pdh*	**2,4**	kW
T j = + 12 °C	*Pdh*	**2,7**	kW
T j = bivalent temperature	*Pdh*	**6,9**	kW
T j = operation limit temperature	*Pdh*	**6,87**	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}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**4065**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**162**	%
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*	**4,59**	-
T j = +7 °C	*COPd*	**5,15**	-
T j = +12 °C	*COPd*	**5,92**	-
T j = bivalent temperature	*COPd*	**2,88**	-
T j = operation limit temperature	*COPd*	**2,84**	-
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	-	**0,9**	*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:

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Cold climate and Low temperature

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Model(s):	**CTC EcoPart i608M**			
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:	**221**	%
Equipped with a supplementary heater:	**Yes**	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*	**4,2**	kW
T j = + 2 °C	*Pdh*	**2,7**	kW
T j = + 7 °C	*Pdh*	**2,6**	kW
T j = + 12 °C	*Pdh*	**2,6**	kW
T j = bivalent temperature	*Pdh*	**7,3**	kW
T j = operation limit temperature	*Pdh*	**7,32**	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}	**0,023**	*kW*
Thermostat-off mode	P_{TO}	**0,023**	*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}	**34/na**	*dB*
Annual energy consumption	Q_{HE}	**3063**	*kWh*

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	**217**	%
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*	**5,52**	-
T j = +2 °C	*COPd*	**6,11**	-
T j = +7 °C	*COPd*	**6,14**	-
T j = +12 °C	*COPd*	**6,14**	-
T j = bivalent temperature	*COPd*	**4,56**	-
T j = operation limit temperature	*COPd*	**4,56**	-
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	-	**1,2**	*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

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