



Warm climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	183 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	5	kW	Seasonal space heating energy efficiency	η_s	179	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dh}</i>	4,8	kW	T _j = +2 °C	<i>COP_d</i>	2,16	-
T _j = +7 °C	<i>P_{dh}</i>	3,1	kW	T _j = +7 °C	<i>COP_d</i>	3,95	-
T _j = +12 °C	<i>P_{dh}</i>	2,6	kW	T _j = +12 °C	<i>COP_d</i>	6,03	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,8	kW	T _j = bivalent temperature	<i>COP_d</i>	2,16	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,8	kW	T _j = operation limit temperature	<i>COP_d</i>	2,16	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input: Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-	2526	m ³ /h	
Sound power level, indoors/outdoors	<i>L_{WA}</i>	35/50	dB	-	na	m ³ /h	
Annual energy consumption	<i>Q_{HE}</i>	1398	kWh				

For heat pump combination heater:

Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Q _{elec}	na	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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



Warm climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	256 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	4	kW	Seasonal space heating energy efficiency	η_s	252	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dh}</i>	4,2	kW	T _j = +2 °C	<i>COP_d</i>	2,68	-
T _j = +7 °C	<i>P_{dh}</i>	2,7	kW	T _j = +7 °C	<i>COP_d</i>	6,31	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,79	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,2	kW	T _j = bivalent temperature	<i>COP_d</i>	2,68	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,2	kW	T _j = operation limit temperature	<i>COP_d</i>	2,68	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input: Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-	2526	m ³ /h	
Sound power level, indoors/outdoors	<i>L_{WA}</i>	-/50	dB	-	na	m ³ /h	
Annual energy consumption	<i>Q_{HE}</i>	870	kWh				

For heat pump combination heater:

Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	Q _{elec}	na	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	na	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

Average climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	A++ -
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	135 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	5	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	4,7	kW	T _j = -7 °C	<i>COP_d</i>	1,88	-
T _j = +2 °C	<i>P_{dh}</i>	2,8	kW	T _j = +2 °C	<i>COP_d</i>	3,26	-
T _j = +7 °C	<i>P_{dh}</i>	1,8	kW	T _j = +7 °C	<i>COP_d</i>	4,72	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	6,47	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,7	kW	T _j = bivalent temperature	<i>COP_d</i>	1,88	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,1	kW	T _j = operation limit temperature	<i>COP_d</i>	1,77	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	-7	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	1,1	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input	Electric		
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	-/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	3245	kWh				

For heat pump combination heater:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	<i>Q_{elec}</i>	na	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	NA	kWh
Annual electricity consumption	<i>AEC</i>	na	kWh	Annual fuel consumption	<i>AFC</i>	NA	GJ

Specific precautions and end of life information:

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

Contact details

Enertech AB, Box 309, SE-341 26 Ljungby Tel +46 372 88000

www.ctc.se

200331

Average climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	A+++ -
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	192 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	5	kW	Seasonal space heating energy efficiency	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	4,3	kW	T _j = -7 °C	<i>COP_d</i>	2,60	-
T _j = +2 °C	<i>P_{dh}</i>	2,6	kW	T _j = +2 °C	<i>COP_d</i>	4,84	-
T _j = +7 °C	<i>P_{dh}</i>	1,7	kW	T _j = +7 °C	<i>COP_d</i>	6,91	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,72	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,3	kW	T _j = bivalent temperature	<i>COP_d</i>	2,60	-
T _j = operation limit temperature	<i>P_{dh}</i>	3,2	kW	T _j = operation limit temperature	<i>COP_d</i>	2,24	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	-7	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,97	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	1,6	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input	Electric		
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	-/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	2072	kWh				

For heat pump combination heater:

Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	<i>Q_{elec}</i>	na	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	NA	kWh
Annual electricity consumption	<i>AEC</i>	na	kWh	Annual fuel consumption	<i>AFC</i>	NA	GJ

Specific precautions and end of life information:

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

Contact details

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200331



Cold climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	120 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	6	kW	Seasonal space heating energy efficiency	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	3,4	kW	T _j = -7 °C	<i>COP_d</i>	2,43	-
T _j = +2 °C	<i>P_{dh}</i>	2,0	kW	T _j = +2 °C	<i>COP_d</i>	3,95	-
T _j = +7 °C	<i>P_{dh}</i>	1,3	kW	T _j = +7 °C	<i>COP_d</i>	4,24	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	6,80	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,1	kW	T _j = bivalent temperature	<i>COP_d</i>	1,96	-
T _j = operation limit temperature	<i>P_{dh}</i>	2,9	kW	T _j = operation limit temperature	<i>COP_d</i>	1,41	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	1,7	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	3,01	-
Bivalent temperature	<i>T_{biv}</i>	-12	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-20	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-/58	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	5,5	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	Type of energy input			
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/outdoors	<i>L_{WA}</i>	35/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	4610	kWh				

For heat pump combination heater:

Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	<i>Q_{elec}</i>	na	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	NA	kWh
Annual electricity consumption	<i>AEC</i>	na	kWh	Annual fuel consumption	<i>AFC</i>	NA	GJ

Specific precautions and end of life information:

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



Cold climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoLogic		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	147 %
Equipped with a supplementary heater:	No	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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	4	kW	Seasonal space heating energy efficiency	η_s	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	2,4	kW	T _j = -7 °C	<i>COP_d</i>	3,15	-
T _j = +2 °C	<i>P_{dh}</i>	2,4	kW	T _j = +2 °C	<i>COP_d</i>	5,06	-
T _j = +7 °C	<i>P_{dh}</i>	1,0	kW	T _j = +7 °C	<i>COP_d</i>	5,17	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,90	-
T _j = bivalent temperature	<i>P_{dh}</i>	2,9	kW	T _j = bivalent temperature	<i>COP_d</i>	2,22	-
T _j = operation limit temperature	<i>P_{dh}</i>	2,0	kW	T _j = operation limit temperature	<i>COP_d</i>	1,50	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	1,7	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	4,02	-
Bivalent temperature	<i>T_{biv}</i>	-12	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-20	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,97	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	4,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input: Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-	2526	<i>m³/h</i>	
Sound power level, indoors/outdoors	<i>L_{WA}</i>	-/50	<i>dB</i>	-	na	<i>m³/h</i>	
Annual energy consumption	<i>Q_{HE}</i>	2694	<i>kWh</i>	For heat pump combination heater:			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared load profile	na	Efficiency class	na	Water heating energy efficiency	η_{wh}	na	%
Daily electricity consumption	<i>Q_{elec}</i>	na	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	NA	kWh
Annual electricity consumption	<i>AEC</i>	na	kWh	Annual fuel consumption	<i>AFC</i>	NA	GJ

Specific precautions and end of life information:

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Warm climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	183 %
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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	5	kW	Seasonal space heating energy efficiency	η_s	179	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dh}</i>	4,8	kW	T _j = +2 °C	<i>COP_d</i>	2,16	-
T _j = +7 °C	<i>P_{dh}</i>	3,1	kW	T _j = +7 °C	<i>COP_d</i>	3,95	-
T _j = +12 °C	<i>P_{dh}</i>	2,6	kW	T _j = +12 °C	<i>COP_d</i>	6,03	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,8	kW	T _j = bivalent temperature	<i>COP_d</i>	2,16	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,8	kW	T _j = operation limit temperature	<i>COP_d</i>	2,16	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input: Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-		2526	m ³ /h
Sound power level, indoors/outdoors	<i>L_{WA}</i>	35/50	dB	-		na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	1398	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	121	%
Daily electricity consumption	Q _{elec}	6,610	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1390	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

Warm climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	256 %
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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	4	kW	Seasonal space heating energy efficiency	η_s	252	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dh}</i>	4,2	kW	T _j = +2 °C	<i>COP_d</i>	2,68	-
T _j = +7 °C	<i>P_{dh}</i>	2,7	kW	T _j = +7 °C	<i>COP_d</i>	6,31	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,79	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,2	kW	T _j = bivalent temperature	<i>COP_d</i>	2,68	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,2	kW	T _j = operation limit temperature	<i>COP_d</i>	2,68	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-	2526	m ³ /h	
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	-/50	dB	-	na	m ³ /h	
Annual energy consumption	<i>Q_{HE}</i>	870	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	121	%
Daily electricity consumption	Q _{elec}	6,610	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1390	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

Contact details

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Average climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	A++ -
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	135 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++ -
Heat pump combination heater:	Yes		

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	5	kW	Seasonal space heating energy efficiency	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	4,7	kW	T _j = -7 °C	<i>COP_d</i>	1,88	-
T _j = +2 °C	<i>P_{dh}</i>	2,8	kW	T _j = +2 °C	<i>COP_d</i>	3,26	-
T _j = +7 °C	<i>P_{dh}</i>	1,8	kW	T _j = +7 °C	<i>COP_d</i>	4,72	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	6,47	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,7	kW	T _j = bivalent temperature	<i>COP_d</i>	1,88	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,1	kW	T _j = operation limit temperature	<i>COP_d</i>	1,77	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	-7	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	1,1	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input	Electric		
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/outdoors	<i>L_{WA}</i>	-/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	3245	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	A	Water heating energy efficiency	η_{wh}	100	%
Daily electricity consumption	Qelec	7,990	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1682	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

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Average climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	A+++ -
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	192 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++ -
Heat pump combination heater:	Yes		

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

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	5	kW	Seasonal space heating energy efficiency	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	4,3	kW	T _j = -7 °C	<i>COP_d</i>	2,60	-
T _j = +2 °C	<i>P_{dh}</i>	2,6	kW	T _j = +2 °C	<i>COP_d</i>	4,84	-
T _j = +7 °C	<i>P_{dh}</i>	1,7	kW	T _j = +7 °C	<i>COP_d</i>	6,91	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,72	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,3	kW	T _j = bivalent temperature	<i>COP_d</i>	2,60	-
T _j = operation limit temperature	<i>P_{dh}</i>	3,2	kW	T _j = operation limit temperature	<i>COP_d</i>	2,24	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	-7	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,97	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	1,6	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input	Electric		
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	-/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	2072	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	A	Water heating energy efficiency	η_{wh}	100	%
Daily electricity consumption	Q _{elec}	7,990	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1682	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

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Cold climate and Medium temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	120 %
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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	6	kW	Seasonal space heating energy efficiency	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	3,4	kW	T _j = -7 °C	<i>COP_d</i>	2,43	-
T _j = +2 °C	<i>P_{dh}</i>	2,0	kW	T _j = +2 °C	<i>COP_d</i>	3,95	-
T _j = +7 °C	<i>P_{dh}</i>	1,3	kW	T _j = +7 °C	<i>COP_d</i>	4,24	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	6,80	-
T _j = bivalent temperature	<i>P_{dh}</i>	4,1	kW	T _j = bivalent temperature	<i>COP_d</i>	1,96	-
T _j = operation limit temperature	<i>P_{dh}</i>	2,9	kW	T _j = operation limit temperature	<i>COP_d</i>	1,41	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	1,7	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	3,01	-
Bivalent temperature	<i>T_{biv}</i>	-12	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-20	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-/58	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	5,5	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2526	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	35/50	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	4610	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	Q _{elec}	9,700	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	2046	kWh	Annual fuel consumption	AFC	NA	GJ

Specific precautions and end of life information:

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

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Cold climate and Low temperature

Model(s):	CTC CombiAir 6M + CTC EcoZenith i360/EcoVent i360F		
Air-to-water heat pump:	Yes	Energy efficiency class:	-
Water-to-water heat pump:	No	Controller class:	VI -
Brine-to-water heat pump:	No	Controller contribution:	4 %
Low-temperature heat pump:	No	Package efficiency:	147 %
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	Item	Symbol	Value	Unit
Rated heat output (*)	<i>P_{rated}</i>	4	kW	Seasonal space heating energy efficiency	η_s	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	2,4	kW	T _j = -7 °C	<i>COP_d</i>	3,15	-
T _j = +2 °C	<i>P_{dh}</i>	2,4	kW	T _j = +2 °C	<i>COP_d</i>	5,06	-
T _j = +7 °C	<i>P_{dh}</i>	1,0	kW	T _j = +7 °C	<i>COP_d</i>	5,17	-
T _j = +12 °C	<i>P_{dh}</i>	2,7	kW	T _j = +12 °C	<i>COP_d</i>	7,90	-
T _j = bivalent temperature	<i>P_{dh}</i>	2,9	kW	T _j = bivalent temperature	<i>COP_d</i>	2,22	-
T _j = operation limit temperature	<i>P_{dh}</i>	2,0	kW	T _j = operation limit temperature	<i>COP_d</i>	1,50	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	1,7	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	4,02	-
Bivalent temperature	<i>T_{biv}</i>	-12	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-20	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,97	-	Heating water operating limit temperature	<i>WTOL</i>	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,007	kW	Rated heat output (*)	<i>P_{sup}</i>	4,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input: Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW	For air-to-water heat pumps: Rated air flow rate, outdoors			
Other items				For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Capacity control	Variable			-	2526	<i>m³/h</i>	
Sound power level, indoors/outdoors	<i>L_{WA}</i>	-/50	<i>dB</i>	-	na	<i>m³/h</i>	
Annual energy consumption	<i>Q_{HE}</i>	2694	<i>kWh</i>	For heat pump combination heater:			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	<i>Q_{elec}</i>	9,700	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	NA	kWh
Annual electricity consumption	<i>AEC</i>	2046	kWh	Annual fuel consumption	<i>AFC</i>	NA	GJ

Specific precautions and end of life information:

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