

**Product information according to
Commission Delegated Regulation (EU)
813/2013**

Product information is based on average and warmer
climate conditions.

Model	IE24-CH1P100 TDCi		IE24-CH1PR100 TDCi	
	IE24-CH1P100 SDCi		IE24-CH1PR100 SDCi	
Temperature application	°C	55	35	
Air-to-water heat pump		Yes		
Water-to-water heat pump		No		
Brine-to-water heat pump		No		
Low-temperature heat pump		No		
Equipped with a supplementary heater		No		
Heat pump combination heater		Yes		
Warmer climate conditions				
Rated heat output	P_{rated}	kW	10	11
Seasonal space heating energy efficiency	η_s	%	194	266
Seasonal coefficient of performance	SCOP	-	4.93	6.72
Average climate conditions				
Rated heat output	P_{rated}	kW	7	7
Seasonal space heating energy efficiency	η_s	%	158	196
Seasonal coefficient of performance	SCOP	-	4.02	4.97
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
$T_j = -7\text{ °C}$	P_{dh}	kW	6.4	6.6
$T_j = 2\text{ °C}$	P_{dh}	kW	3.9	4.0
$T_j = 7\text{ °C}$	P_{dh}	kW	2.7	3.2
$T_j = 12\text{ °C}$	P_{dh}	kW	3.3	3.9
$T_j =$ bivalent temperature	P_{dh}	kW	7.2	7.5
$T_j =$ operation limit temperature	P_{dh}	kW	7.2	7.5
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	P_{cych}	kW	Not applicable	
Degradation co-efficient	C_{dh}	-	0.9	0.9

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Model	IE24-CH1P100 TDCi IE24-CH1P100 SDCi	IE24-CH1PR100 TDCi IE24-CH1PR100 SDCi		
Temperature application	°C	55	35	
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	COP _d	-	2.60	3.46
T _j = 2 °C	COP _d	-	3.91	4.95
T _j = 7 °C	COP _d	-	5.29	6.24
T _j = 12 °C	COP _d	-	6.53	6.85
T _j = bivalent temperature	COP _d	-	2.37	3.12
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.014	0.014
Thermostat-off mode	P _{TO}	kW	0.014	0.014
Standby mode	P _{SB}	kW	0.014	0.014
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	61	61
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	7200	7200
Declared load profile			L	L
Water heating daily electricity consumption	Q _{elec}	kWh	3.780	3.780
Water heating energy efficiency	η _{wh}	%	123	123
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

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climate conditions.

Model	IE24-CH1P120 TDCi IE24-CH1P120 SDCi	IE24-CH1PR120 TDCi IE24-CH1PR120 SDCi		
Temperature application	°C	55	35	
Air-to-water heat pump		Yes		
Water-to-water heat pump		No		
Brine-to-water heat pump		No		
Low-temperature heat pump		No		
Equipped with a supplementary heater		No		
Heat pump combination heater		Yes		
Warmer climate conditions				
Rated heat output	P _{rated}	kW	10	11
Seasonal space heating energy efficiency	η _s	%	196	266
Seasonal coefficient of performance	SCOP	-	4.97	6.72
Average climate conditions				
Rated heat output	P _{rated}	kW	8	9
Seasonal space heating energy efficiency	η _s	%	160	199
Seasonal coefficient of performance	SCOP	-	4.07	5.06
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				
T _j = -7 °C	P _{dh}	kW	7.5	7.7
T _j = 2 °C	P _{dh}	kW	4.6	4.7
T _j = 7 °C	P _{dh}	kW	2.9	3.0
T _j = 12 °C	P _{dh}	kW	3.3	3.9
T _j = bivalent temperature	P _{dh}	kW	8.5	8.7
T _j = operation limit temperature	P _{dh}	kW	8.5	8.7
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable	
Degradation co-efficient	C _{dh}	-	0.9	0.9

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Model	IE24-CH1P120 TDCi IE24-CH1P120 SDCi	IE24-CH1PR120 TDCi IE24-CH1PR120 SDCi		
Temperature application	°C	55	35	
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	COP _d	-	2.64	3.51
T _j = 2 °C	COP _d	-	3.96	5.01
T _j = 7 °C	COP _d	-	5.36	6.34
T _j = 12 °C	COP _d	-	6.46	7.16
T _j = bivalent temperature	COP _d	-	2.41	3.16
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.014	0.014
Thermostat-off mode	P _{TO}	kW	0.014	0.014
Standby mode	P _{SB}	kW	0.014	0.014
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	61	61
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	7200	7200
Declared load profile			L	L
Water heating daily electricity consumption	Q _{elec}	kWh	3.850	3.850
Water heating energy efficiency	η _{wh}	%	121	121
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

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Model	IE24-CH1P140 SDCi			
	IE24-CH1PR140 SDCi			
Temperature application	°C	55	35	
Air-to-water heat pump	Yes			
Water-to-water heat pump	No			
Brine-to-water heat pump	No			
Low-temperature heat pump	No			
Equipped with a supplementary heater	No			
Heat pump combination heater	Yes			
Warmer climate conditions				
Rated heat output	P_{rated}	kW	14	15
Seasonal space heating energy efficiency	η_s	%	198	267
Seasonal coefficient of performance	SCOP	-	5.03	6.76
Average climate conditions				
Rated heat output	P_{rated}	kW	10	11
Seasonal space heating energy efficiency	η_s	%	157	199
Seasonal coefficient of performance	SCOP	-	4.00	5.04
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
$T_j = -7\text{ °C}$	P_{dh}	kW	8.1	9.3
$T_j = 2\text{ °C}$	P_{dh}	kW	5.5	5.7
$T_j = 7\text{ °C}$	P_{dh}	kW	4.1	4.2
$T_j = 12\text{ °C}$	P_{dh}	kW	4.8	4.9
$T_j =$ bivalent temperature	P_{dh}	kW	10.3	10.5
$T_j =$ operation limit temperature	P_{dh}	kW	10.3	10.5
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	P_{cych}	kW	Not applicable	
Degradation co-efficient	C_{dh}	-	0.9	0.9

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813/2013**

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Model		IE24-CH1P140 SDCi IE24-CH1PR140 SDCi		
Temperature application	°C		55	35
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	COP _d	-	2.57	3.39
T _j = 2 °C	COP _d	-	3.85	4.97
T _j = 7 °C	COP _d	-	5.27	6.47
T _j = 12 °C	COP _d	-	6.78	7.16
T _j = bivalent temperature	COP _d	-	2.35	3.04
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.014	0.014
Thermostat-off mode	P _{TO}	kW	0.014	0.014
Standby mode	P _{SB}	kW	0.014	0.014
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	58	58
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	10800	10800
Declared load profile			L	L
Water heating daily electricity consumption	Q _{elec}	kWh	3.900	3.900
Water heating energy efficiency	η _{wh}	%	120	120
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

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813/2013**

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Model	IE24-CH1P150 TDCi			
	IE24-CH1PR150 TDCi			
Temperature application	°C	55	35	
Air-to-water heat pump	Yes			
Water-to-water heat pump	No			
Brine-to-water heat pump	No			
Low-temperature heat pump	No			
Equipped with a supplementary heater	No			
Heat pump combination heater	Yes			
Warmer climate conditions				
Rated heat output	P_{rated}	kW	15	16
Seasonal space heating energy efficiency	η_s	%	200	270
Seasonal coefficient of performance	SCOP	-	5.06	6.82
Average climate conditions				
Rated heat output	P_{rated}	kW	11	11
Seasonal space heating energy efficiency	η_s	%	158	200
Seasonal coefficient of performance	SCOP	-	4.03	5.08
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
$T_j = -7\text{ °C}$	P_{dh}	kW	9.8	10.1
$T_j = 2\text{ °C}$	P_{dh}	kW	6.0	6.1
$T_j = 7\text{ °C}$	P_{dh}	kW	4.1	4.2
$T_j = 12\text{ °C}$	P_{dh}	kW	4.8	4.9
$T_j =$ bivalent temperature	P_{dh}	kW	11.1	11.4
$T_j =$ operation limit temperature	P_{dh}	kW	11.1	11.4
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	P_{cych}	kW	Not applicable	
Degradation co-efficient	C_{dh}	-	0.9	0.9

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813/2013**

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Model		IE24-CH1P150 TDCi IE24-CH1PR150 TDCi		
Temperature application	°C	55	35	
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	COP _d	-	2.59	3.42
T _j = 2 °C	COP _d	-	3.88	5.00
T _j = 7 °C	COP _d	-	5.32	6.52
T _j = 12 °C	COP _d	-	6.87	7.32
T _j = bivalent temperature	COP _d	-	2.37	3.07
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.015	0.015
Thermostat-off mode	P _{TO}	kW	0.015	0.015
Standby mode	P _{SB}	kW	0.015	0.015
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	57	57
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	10440	10440
Declared load profile			L	L
Water heating daily electricity consumption	Q _{elec}	kWh	3.950	3.950
Water heating energy efficiency	η _{wh}	%	118	118
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

**Product information according to
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813/2013**

Product information is based on average and warmer
climate conditions.

Model	IE24-CH1P190 TDCi IE24-CH1PR190 TDCi	IE24-CH2PR190 TDCi 2C2		
Temperature application	°C	55	35	
Air-to-water heat pump		Yes		
Water-to-water heat pump		No		
Brine-to-water heat pump		No		
Low-temperature heat pump		No		
Equipped with a supplementary heater		No		
Heat pump combination heater		Yes		
Warmer climate conditions				
Rated heat output	P _{rated}	kW	20	21
Seasonal space heating energy efficiency	η _s	%	200	267
Seasonal coefficient of performance	SCOP	-	5.08	6.80
Average climate conditions				
Rated heat output	P _{rated}	kW	14	15
Seasonal space heating energy efficiency	η _s	%	160	202
Seasonal coefficient of performance	SCOP	-	4.08	5.11
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				
T _j = -7 °C	P _{dh}	kW	12.7	12.9
T _j = 2 °C	P _{dh}	kW	7.8	7.9
T _j = 7 °C	P _{dh}	kW	4.9	5.0
T _j = 12 °C	P _{dh}	kW	4.8	4.9
T _j = bivalent temperature	P _{dh}	kW	14.4	14.6
T _j = operation limit temperature	P _{dh}	kW	14.4	14.6
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable	
Degradation co-efficient	C _{dh}	-	0.9	0.9

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813/2013**

Product information is based on average and warmer
climate conditions.

Model	IE24-CH1P190 TDCi IE24-CH1PR190 TDCi	IE24-CH2PR190 TDCi 2C2		
Temperature application		°C	55	35
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	COP _d	-	2.62	3.45
T _j = 2 °C	COP _d	-	3.92	5.02
T _j = 7 °C	COP _d	-	5.31	6.48
T _j = 12 °C	COP _d	-	7.11	7.55
T _j = bivalent temperature	COP _d	-	2.40	3.11
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.016	0.016
Thermostat-off mode	P _{TO}	kW	0.016	0.016
Standby mode	P _{SB}	kW	0.016	0.016
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	58	58
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	10800	10800
Declared load profile			XL	XL
Water heating daily electricity consumption	Q _{elec}	kWh	6.000	6.000
Water heating energy efficiency	η _{wh}	%	127	127
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

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Model	IE24-CH1P240 TDCi IE24-CH1PR240 TDCi	IE24-CH1PR240-PLS1 TDCi IE24-CH2PR240 TDCi 2C2		
Temperature application	°C	55	35	
Air-to-water heat pump		Yes		
Water-to-water heat pump		No		
Brine-to-water heat pump		No		
Low-temperature heat pump		No		
Equipped with a supplementary heater		No		
Heat pump combination heater		Yes		
Warmer climate conditions				
Rated heat output	P _{rated}	kW	25	26
Seasonal space heating energy efficiency	η _s	%	194	258
Seasonal coefficient of performance	SCOP	-	4.91	6.52
Average climate conditions				
Rated heat output	P _{rated}	kW	18	18
Seasonal space heating energy efficiency	η _s	%	155	195
Seasonal coefficient of performance	SCOP	-	3.96	4.94
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				
T _j = -7 °C	P _{dh}	kW	15.9	16.2
T _j = 2 °C	P _{dh}	kW	9.7	9.8
T _j = 7 °C	P _{dh}	kW	6.2	6.4
T _j = 12 °C	P _{dh}	kW	6.3	6.7
T _j = bivalent temperature	P _{dh}	kW	17.9	18.8
T _j = operation limit temperature	P _{dh}	kW	17.9	18.8
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable	
Degradation co-efficient	C _{dh}	-	0.9	0.9

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813/2013**

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climate conditions.

Model	IE24-CH1P240 TDCi IE24-CH1PR240 TDCi	IE24-CH1PR240-PLS1 TDCi IE24-CH2PR240 TDCi 2C2		
Temperature application		°C	55	35
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	COP _d	-	2.57	3.42
T _j = 2 °C	COP _d	-	3.85	4.86
T _j = 7 °C	COP _d	-	5.11	6.12
T _j = 12 °C	COP _d	-	6.35	7.01
T _j = bivalent temperature	COP _d	-	2.33	3.07
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.018	0.018
Thermostat-off mode	P _{TO}	kW	0.018	0.018
Standby mode	P _{SB}	kW	0.018	0.018
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	64	64
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	14400	14400
Declared load profile			XL	XL
Water heating daily electricity consumption	Q _{elec}	kWh	6.150	6.150
Water heating energy efficiency	η _{wh}	%	124	124
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			

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813/2013**

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Model	IE24-CH1P300 TDCi IE24-CH1PR300 TDCi	IE24-CH1PR300-PLS1 TDCi IE24-CH1PR300-PLS2 TDCi		
Temperature application	°C	55	35	
Air-to-water heat pump		Yes		
Water-to-water heat pump		No		
Brine-to-water heat pump		No		
Low-temperature heat pump		No		
Equipped with a supplementary heater		No		
Heat pump combination heater		Yes		
Warmer climate conditions				
Rated heat output	P _{rated}	kW	30	32
Seasonal space heating energy efficiency	η _s	%	165	216
Seasonal coefficient of performance	SCOP	-	4.19	5.47
Average climate conditions				
Rated heat output	P _{rated}	kW	21	22
Seasonal space heating energy efficiency	η _s	%	137	169
Seasonal coefficient of performance	SCOP	-	3.50	4.29
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				
T _j = -7 °C	P _{dh}	kW	18,8	19,9
T _j = 2 °C	P _{dh}	kW	11.5	12.2
T _j = 7 °C	P _{dh}	kW	7.4	7.8
T _j = 12 °C	P _{dh}	kW	6.3	6.7
T _j = bivalent temperature	P _{dh}	kW	21.3	22.5
T _j = operation limit temperature	P _{dh}	kW	21.3	22.5
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable	
Degradation co-efficient	C _{dh}	-	0.9	0.9

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813/2013**

Product information is based on average and warmer
climate conditions.

Model	IE24-CH1P300 TDCI IE24-CH1PR300 TDCI	IE24-CH1PR300-PLS1 TDCI IE24-CH1PR300-PLS2 TDCI		
Temperature application		°C	55	35
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	COP _d	-	2.42	3.17
T _j = 2 °C	COP _d	-	3.56	4.48
T _j = 7 °C	COP _d	-	4.77	5.63
T _j = 12 °C	COP _d	-	6.13	6.75
T _j = bivalent temperature	COP _d	-	2.19	2.84
T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyc}	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	55	55
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.020	0.020
Thermostat-off mode	P _{TO}	kW	0.020	0.020
Standby mode	P _{SB}	kW	0.020	0.020
Crankcase heater mode	P _{CK}	kW	0.000	0.000
Other items				
Capacity control			Variable	
Sound power level outdoors	L _{WA}	dB	69	69
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate, outdoors	-	m ³ /h	20880	20880
Declared load profile			XL	XL
Water heating daily electricity consumption	Q _{elec}	kWh	6.160	6.160
Water heating energy efficiency	η _{wh}	%	124	124
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			