INVENTIVE ENERGY

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Tel +30 2810 262525 **Email** info@ienergy.gr **Web** www.ienergy.gr

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

Product information is based on average and warmer climate conditions.

Model			IE24-CH100 TDCi IE24-CH100 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			No	
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 °C	Pdh	kW	6.4	6.6
T_j = 2 °C	Pdh	kW	3.9	4.0
T_j = 7 °C	Pdh	kW	2.7	3.2
T_j = 12 °C	Pdh	kW	3.3	3.9
T_j = bivalent temperature	Pdh	kW	7.2	7.5
T_j = operation limit temperature	Pdh	kW	7.2	7.5
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Model			IE24-CH100 TDCi	IE24-CH100 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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	7200	7200
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Product information according to Commission Delegated Regulation (EU) 813/2013

Product information is based on average and warmer climate conditions.

Model			IE24-CH120 TDCi	IE24-CH120 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			No	
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	Pdh	kW	7.5	7.7
T_j = 2 °C	Pdh	kW	4.6	4.7
T_j = 7 °C	Pdh	kW	2.9	3.0
T_j = 12 °C	Pdh	kW	3.3	3.9
T_j = bivalent temperature	Pdh	kW	8.5	8.7
T_j = operation limit temperature	Pdh	kW	8.5	8.7
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Product information is based on average and warmer climate conditions.

Model			IE24-CH120 TDCi	IE24-CH120 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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	7200	7200
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Product information is based on average and warmer climate conditions.

Model			IE24-CH140 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			No	
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 °C	Pdh	kW	8.1	9.3
T_j = 2 °C	Pdh	kW	5.5	5.7
T_j = 7 °C	Pdh	kW	4.1	4.2
T_j = 12 °C	Pdh	kW	4.8	4.9
T_j = bivalent temperature	Pdh	kW	10.3	10.5
T_j = operation limit temperature	Pdh	kW	10.3	10.5
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Product information is based on average and warmer climate conditions.

Model			IE24-CH140 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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	10800	10800
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Product information is based on average and warmer climate conditions.

Model			IE24-CH150 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			No	
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 °C	Pdh	kW	9.8	10.1
T_j = 2 °C	Pdh	kW	6.0	6.1
T_j = 7 °C	Pdh	kW	4.1	4.2
T_j = 12 °C	Pdh	kW	4.8	4.9
T_j = bivalent temperature	Pdh	kW	11.1	11.4
T_j = operation limit temperature	Pdh	kW	11.1	11.4
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Product information is based on average and warmer climate conditions.

Model			IE24-CH150 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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	10440	10440
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Product information is based on average and warmer climate conditions.

Model			IE24-CH190 TDCi IE24-CHR190 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			No	
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	Pdh	kW	12.7	12.9
T_j = 2 °C	Pdh	kW	7.8	7.9
T_j = 7 °C	Pdh	kW	4.9	5.0
T_j = 12 °C	Pdh	kW	4.8	4.9
T_j = bivalent temperature	Pdh	kW	14.4	14.6
T_j = operation limit temperature	Pdh	kW	14.4	14.6
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Model			IE24-CH190 TDCi IE24-CHR190 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	-	2.62	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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	10800	10800
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Product information is based on average and warmer climate conditions.

Model			IE24-CH240 TDCi IE24-CHR240 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			No	
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	Pdh	kW	15.9	16.2
T_j = 2 °C	Pdh	kW	9.7	9.8
T_j = 7 °C	Pdh	kW	6.2	6.4
T_j = 12 °C	Pdh	kW	6.3	6.7
T_j = bivalent temperature	Pdh	kW	17.9	18.8
T_j = operation limit temperature	Pdh	kW	17.9	18.8
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Model			IE24-CH240 TDCi IE24-CHR240 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	-	2.57	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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	14400	14400
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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Model			IE24-CH300 TDCi IE24-CHR300 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			No	
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	Pdh	kW	18,8	19.9
T_j = 2 °C	Pdh	kW	11.5	12.2
T_j = 7 °C	Pdh	kW	7.4	7.8
T_j = 12 °C	Pdh	kW	6.3	6.7
T_j = bivalent temperature	Pdh	kW	21.3	22.5
T_j = operation limit temperature	Pdh	kW	21.3	22.5
T_j = – 15 °C *(if TOL < – 20 °C)*	Pdh	kW	-	-
Bivalent temperature	T_{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not applicable	
Degradation co-efficient	Cdh	-	0.9	0.9

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Model			IE24-CH300 TDCi IE24-CHR300 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	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C	Not applicable	
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	-	m3/h	20880	20880
Declared load profile			Not applicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not applicable	
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