

Product information is based on average and warmer climate conditions.

climate conditions. IE24-CH100 TDCi Model					
	IE24		4-CH100	SDCi	
Temperature application	Temperature application		55	35	
Air-to-water heat pump			Yes		
Water-to-water heat pum	р		N	lo	
Brine-to-water heat pump)		N	lo	
Low-temperature heat pu	mp		N	lo	
Equipped with a suppleme	entary hea	ater	N	lo	
Heat pump combination h	eater		N	lo	
Warmer o	limate co	nditions			
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 o	limate co	nditions	i		
Rated heat output	Prated	kW	7	7	
Seasonal space heating energy efficiency	η_{s}	%	158	196	
Seasonal coefficient of performance	SCOP	-	4.02	4.97	
Declared capacity for heat temperature 20 °C and ou					
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	
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\circ}C)	Pdh	kW	-	-	
Bivalent temperature	T_{biv}	°C	-10	-10	
Cycling interval capacity for heating	Pcych	kW	Not ap	plicable	
Degradation co-efficient	Cdh	-	0.9	0.9	



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climate condition		IE24	1-CH100 1-CH100	
Temperature application		°C	55	35
Declared coefficient of per ratio for part load at indoc temperature T _j		-	-	
T _j = - 7 °C	COPd	-	2.60	3.46
T _j = 2 °C	COPd	-	3.91	4.95
T _j = 7 °C	COPd	-	5.29	6.24
T _j = 12 °C	COP _d	-	6.53	6.85
T _j = bivalent temperature	COP_d	-	2.37	3.12
$T_j = -15 ^{\circ}\text{C}$ $(if TOL < -20 ^{\circ}\text{C})$	COPd	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	СОРсус	-	Not ap	plicable
Heating water operating limit temperature	Heating water operating WTOI °C I			plicable
Power consumption in mo			tive mod	
Off mode	P _{OFF}	kW	0.014	0.014
Thermostat-off mode	Рто	kW	0.014	0.014
Standby mode	P_{SB}	kW	0.014	0.014
Crankcase heater mode	Рск	kW	0.000	0.000
Other items				
Capacity cont	rol		Vari	able
Sound power level outdoors	L _{WA}	dB	61	61
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable
Rated air flow rate, outdoors	-	m3/h	7200	7200
Declared load p	rofile	innuunnuunnuu	Not ap	plicable
Water heating daily electricity consumption	Q _{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not ap	plicable
efficiency INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE			l,	



Product information is based on average and warmer climate conditions.

Model	te conditi	IE24	4-CH120 4-CH120	
Temperature application		°C	55	35
Air-to-water heat pump	Air-to-water heat pump			es
Water-to-water heat pum	р			o
Brine-to-water heat pump)			o
Low-temperature heat pu	mp		N	o
Equipped with a suppleme	entary hea	ater	N	o
Heat pump combination h	eater		N	0
Warmer o	limate co	nditions	;	
Rated heat output	Prated	kW	10	11
Seasonal space heating energy efficiency	ης	%	196	266
Seasonal coefficient of performance	SCOP	-	4.97	6.72
Average o	limate co	nditions	;	
Rated heat output	P _{rated}	kW	8	9
Seasonal space heating energy efficiency	ης	%	160	199
Seasonal coefficient of performance	SCOP	-	4.07	5.06
Declared capacity for heat temperature 20 °C and ou				
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
$T_{j} = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\circ}C)	Pdh	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not ap	olicable
Degradation co-efficient	Cdh	-	0.9	0.9



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Cilma	IE24	4-CH120 4-CH120		
Temperature application		°C	55	35
Declared coefficient of per ratio for part load at indoc temperature T _i				
T _j = - 7 °C	COPd	-	2.64	3.51
T _j = 2 °C	COPd	-	3.96	5.01
T _j = 7 °C	COPd	-	5.36	6.34
T _j = 12 °C	COPd	-	6.46	7.16
T _i = bivalent temperature	COP_d	-	2.41	3.16
$T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}C$)	COP₀	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	СОРсус	-	Not ap	plicable
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	Рто	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	101000000000000000000000000000000000000	Tomorous and the control of the cont		1
Capacity cont	rol		Vari	able
Sound power level outdoors	L _{WA}	dB	61	61
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable
Rated air flow rate, outdoors	-	m3/h	7200	7200
Declared load p	rofile		Not ap	plicable
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy	η_{wh}	%	Not ap	plicable
efficiency INVENTIVE ENERGY Contact details 20 MELETIOU MET. HERAKLION, 71304			ЛЕТАХАК	l,



Product information is based on average and warmer climate conditions.

Model	te conditi		4-CH140	SDCi
Temperature application °(55	35
Air-to-water heat pump			Y	es
Water-to-water heat pum	р		N	lo
Brine-to-water heat pump)		N	lo
Low-temperature heat pu	mp		N	lo
Equipped with a suppleme	entary hea	ater	N	lo
Heat pump combination h	eater		N	lo
Warmer o	limate co	nditions	,	
Rated heat output	P _{rated}	kW	14	15
Seasonal space heating energy efficiency	ηs	%	198	267
Seasonal coefficient of performance	SCOP	-	5.03	6.76
Average o	limate co	nditions	;	
Rated heat output	P _{rated}	kW	10	11
Seasonal space heating energy efficiency	ης	%	157	199
Seasonal coefficient of performance	SCOP	-	4.00	5.04
Declared capacity for heat temperature 20 °C and ou				
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 _i = bivalent temperature	Pdh	kW	10.3	10.5
T _j = operation limit temperature	Pdh	kW	10.3	10.5
$T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}\text{C}$)	Pdh	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not ap	plicable
Degradation co-efficient	Cdh	-	0.9	0.9



Product information is based on average and warmer climate conditions.

Model		4-CH140	SDCi	
Temperature application		°C	55	35
Declared coefficient of per ratio for part load at indoc temperature T _j				
T _j = -7 °C	COPd	-	2.57	3.39
T _j = 2 °C	COPd	-	3.85	4.97
T _j = 7 °C	COPd	-	5.27	6.47
T _j = 12 °C	COPd	-	6.78	7.16
T _i = bivalent temperature	COP _d	-	2.35	3.04
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\chick}C)	COPd	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COPcyc	-	Not applicable	
Heating water operating limit temperature	WTOL	°C		plicable
Power consumption in modes other than active mode				
Off mode	P _{OFF}	kW	0.014	0.014
Thermostat-off mode	Рто	kW	0.014	0.014
Standby mode	P_{SB}	kW	0.014	0.014
Crankcase heater mode	Рск	kW	0.000	0.000
Other items				
Capacity cont	trol		Vari	able
Sound power level outdoors	L _{WA}	dB	58	58
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable
Rated air flow rate, outdoors	-	m3/h	10800	10800
Declared load p	rofile	in 100 100 100 100 100 100 100 100 100 10	Not applicable	
Water heating daily electricity consumption	Q _{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not ap	plicable
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Product information is based on average and warmer

climate conditions.				
Model	Model IE2		I-CH150 TDCi	
Temperature application	Temperature application		55	35
Air-to-water heat pump			Y	es
Water-to-water heat pum	р		N	lo
Brine-to-water heat pump)		N	lo
Low-temperature heat pu	mp		N	lo
Equipped with a suppleme	•	ater	N	lo
Heat pump combination h			N	lo
Warmer o	limate co	nditions	, ,	
Rated heat output	Prated	kW	15	16
Seasonal space heating energy efficiency	ης	%	200	270
Seasonal coefficient of performance	SCOP	-	5.06	6.82
Average o	limate co	nditions		
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 heat temperature 20 °C and ou				
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
$T_{j} = -15 ^{\circ}\text{C}$ $(if TOL < -20 ^{\circ}C)$	Pdh	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW		plicable
Degradation co-efficient	Cdh	-	0.9	0.9



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Model		1-CH150	TDCi	
Temperature application	°C	55	35	
Declared coefficient of per ratio for part load at indoo temperature T _j			,	0,
T _j = - 7 °C	COPd	-	2.59	3.42
T _j = 2 °C	COPd	-	3.88	5.00
T _j = 7 °C	COPd	-	5.32	6.52
T _j = 12 °C	COPd	-	6.87	7.32
T _j = bivalent temperature	COP_d	-	2.37	3.07
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\circ})	COPd	-	-	-
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COPcyc	-	Not ap	plicable
Heating water operating limit temperature	WTOL	°C	• •	plicable
Power consumption in mo			tive mod	
Off mode	P _{OFF}	kW	0.015	0.015
Thermostat-off mode	Рто	kW	0.015	0 .015
Standby mode	P_{SB}	kW	0.015	0 .015
Crankcase heater mode	Рск	kW	0.000	0.000
Other items				
Capacity cont	rol		Vari	able
Sound power level outdoors	L _{WA}	dB	57	57
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable
Rated air flow rate, outdoors	-	m3/h	10440	10440
Declared load p	innuunnuunnuu	Not ap	plicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable	
Water heating energy efficiency	η_{wh}	%	Not ap	plicable
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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			Υ	Yes	
Water-to-water heat pum	р		١	lo	
Brine-to-water heat pump)		١	lo	
Low-temperature heat pu	mp		١	lo	
Equipped with a suppleme	entary hea	ater	١	lo	
Heat pump combination h	eater		١	lo	
Warmer o	limate co	nditions	.		
Rated heat output	Prated	kW	20	21	
Seasonal space heating energy efficiency	ης	%	200	267	
Seasonal coefficient of performance	SCOP	-	5.08	6.80	
Average o	limate co	nditions	·······		
Rated heat output	P _{rated}	kW	14	15	
Seasonal space heating energy efficiency	ης	%	160	202	
Seasonal coefficient of performance	SCOP	-	4.08	5.11	
Declared capacity for heat temperature 20 °C and ou	ting for pa tdoor ten	irt load a iperatur	at indoor e 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 _i = operation limit temperature	Pdh	kW	14.4	14.6	
$T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}C$)	Pdh	kW	-	-	
Bivalent temperature	T _{biv}	°C	-10	-10	
Cycling interval capacity for heating	Pcych	kW	Not ap	plicable	
Degradation co-efficient	Cdh	-	0.9	0.9	



Product information is based on average and warmer climate conditions.

Climate condition		IE24	1-CH190 -CHR190		
Temperature application		°C	55	35	
Declared coefficient of per ratio for part load at indoo temperature T _j					
T _j = - 7 °C	COPd	-	2.62	3.45	
T _j = 2 °C	COPd	-	3.92	5.02	
T _j = 7 °C	COPd	-	5.31	6.48	
T _j = 12 °C	COPd	-	7.11	7.55	
T _j = bivalent temperature	COP_d	-	2.40	3.11	
$T_j = -15 ^{\circ}\text{C}$ $(if TOL < -20 ^{\circ}\text{C})$	COPd	-	-	-	
Operation limit temperature	TOL	°C	-10	-10	
Cycling interval efficiency	COPcyc	-	Not applicable		
Heating water operating limit temperature	rating water operating WTOL °C Not applie				
Power consumption in mo			tive mod		
Off mode	P _{OFF}	kW	0.016	0.016	
Thermostat-off mode	Рто	kW	0.016	0.016	
Standby mode	P_{SB}	kW	0.016	0.016	
Crankcase heater mode	Рск	kW	0.000	0.000	
Other items					
Capacity cont	rol		Vari	able	
Sound power level outdoors	Lwa	dB	58	58	
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable	
Rated air flow rate, outdoors	-	m3/h	10800	10800	
Declared load p	rofile	innuunnuunnuu	Not ap	plicable	
Water heating daily electricity consumption	Q_{elec}	kWh	Not applicable		
Water heating energy efficiency	η_{wh}	%	Not ap	plicable	
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Product information is based on average and warmer climate conditions.

clima	te conditi	ons.			
Model	IE24-CH240 TDCi IE24-CHR240 TDCi				
Temperature application		°C	55	35	
Air-to-water heat pump			Yes		
Water-to-water heat pum	р		N	lo	
Brine-to-water heat pump)		N	lo	
Low-temperature heat pu	mp		N	lo	
Equipped with a suppleme	entary he	ater	N	lo	
Heat pump combination h	eater		N	lo	
Warmer o	limate co	nditions			
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 o	limate co	nditions			
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 heat temperature 20 °C and ou					
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 _i = bivalent temperature	Pdh	kW	17.9	18.8	
T_j = operation limit temperature	Pdh	kW	17.9	18.8	
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 $^{\circ}\text{C}$)	Pdh	kW	-	-	
Bivalent temperature	T_{biv}	°C	-10	-10	
Cycling interval capacity for heating	Pcych	kW	Not ap	plicable	
Degradation co-efficient	Cdh	-	0.9	0.9	



Product information is based on average and warmer climate conditions.

Model		•	1-CH240 -CHR240		
Temperature application		°C	55	35	
Declared coefficient of per ratio for part load at indoo temperature T _j	rformanc	e or prim		gy	
T _j = - 7 °C	COP_d	-	2.57	3.42	
T _j = 2 °C	COP_d	-	3.85	4.86	
T _j = 7 °C	COPd	-	5.11	6.12	
T _j = 12 °C	COPd	-	6.35	7.01	
T _j = bivalent temperature	COPd	-	2.33	3.07	
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\circ})	COPd	-	-	-	
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	Рто	kW	0.018	0.018	
Standby mode	P_{SB}	kW	0.018	0 .018	
Crankcase heater mode	Рск	kW	0.000	0.000	
Other items					
Capacity cont	rol		Vari	able	
Sound power level outdoors	L _{WA}	dB	64	64	
Emissions of nitrogen oxides	NOx	mg/kWh	Not ap	plicable	
Rated air flow rate, outdoors	-	m3/h	14400	14400	
Declared load p	rofile		Not ap	plicable	
Water heating daily electricity consumption	Q _{elec}	kWh	Not applicable		
Water heating energy efficiency	η_{wh}	%	Not ap	plicable	
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Product information is based on average and warmer climate conditions.

climate conditions.							
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	ης	%	165	216			
Seasonal coefficient of performance	SCOP	-	4.19	5.47			
Average o	limate co	nditions	; pourone	,,,,,,,,,,,,,,,,,,,,			
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 _i = operation limit temperature	Pdh	kW	21.3	22.5			
$T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}\text{C}$)	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			



Product information is based on average and warmer climate conditions.

Model	ons. 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 _i						
T _j = - 7 °C	COPd	-	2.42	3.17		
T _j = 2 °C	COPd	-	3.56	4.48		
T _j = 7 °C	COPd	-	4.77	5.63		
T _j = 12 °C	COPd	-	6.13	6.75		
T _j = bivalent temperature	COP_d	-	2.19	2.84		
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 ^{\circ}C)	COPd	-	-	-		
Operation limit temperature	TOL	°C	-10	-10		
Cycling interval efficiency	СОРсус	-	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	Рто	kW	0.020	0 .020		
Standby mode	P_SB	kW	0.020	0 .020		
Crankcase heater mode	Рск	kW	0.000	0.000		
Other items						
Capacity control			Variable			
Sound power level outdoors	L _{WA}	dB	69	69		
Emissions of nitrogen oxides	NOx	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			
Contact details	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE					