

Product information is based on average and warmer

Clima IE24-CH1P10 IE24-CH1P10	CH1PR10 CH1PR10			
Temperature application		°C	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				es
Warmer o	limate co	nditions		
Rated heat output	P _{rated}	kW	10	11
Seasonal space heating energy efficiency	ης	%	194	266
Seasonal coefficient of performance	SCOP	-	4.93	6.72
Average o	limate co	nditions		
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 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



Product information is based on average and warmer climate conditions.

climate conditions.							
Model	IE24-CH1P10 IE24-CH1P10		1	CH1PR10 CH1PR10			
Temperatur	Temperature application			55	35		
			°C	.			
	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor						
temperatur	e T _j		<u>,</u>	<u> </u>			
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 = bivalen temperatur		COP_d	-	2.37	3.12		
T _j = - 15 °C (if TOL < - 20 °C		COPd	-	-	-		
Operation li temperatur	imit	TOL	°C	-10	-10		
Cycling inte efficiency		СОРсус	-	Not ap	plicable		
ļ	ter operating rature	WTOL	°C	55	55		
	umption in mo	des othe	r than ac	tive mod	e		
Off mode		P_{OFF}	kW	0.014	0.014		
Thermostat		P _{TO}	kW	0.014	0.014		
Standby mo	ode	P _{SB}	kW	0.014	0.014		
Crankcase h	neater mode	P _{CK}	kW	0.000	0.000		
Other items	5						
	Capacity cont	rol		Vari	able		
Sound power	er level	L _{WA}	dB	61	61		
Emissions o oxides	f nitrogen	NΟ _x	mg/kWh	Not ap	plicable		
Rated air flo	ow rate,	-	m3/h	7200	7200		
С	eclared load p	rofile		L	L		
Water heat electricity c	ing daily onsumption	Q_{elec}	kWh	3.780	3.780		
Water heat efficiency		η_{wh}	%	123	123		
Contact details INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE							



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Model					
Temperatur	e application		°C	55	35
Air-to-wate	r heat pump			Y	es
Water-to-w	ater heat pum	р		į	o
Brine-to-wa	ter heat pump	1			o
Low-tempe	rature heat pu	mp		N	o
Equipped w	ith a suppleme	entary hea	ater	N	o
Heat pump	combination h	eater		Y	es
	Warmer o	limate co	nditions		
Rated heat	output	P_{rated}	kW	10	11
Seasonal sp energy effic	_	ης	%	196	266
Seasonal co performanc		SCOP	-	4.97	6.72
	Average o	limate co	nditions	;	
Rated heat	output	P _{rated}	kW	8	9
Seasonal sp energy effic		η_{s}	%	160	199
Seasonal co performanc		SCOP	-	4.07	5.06
	pacity for heat e 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 = bivalen temperatur		Pdh	kW	8.5	8.7
T _j = operati temperatur	on limit	Pdh	kW	8.5	8.7
$T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 $^{\circ}\text{C}$	·)	Pdh	kW	-	-
Bivalent ten	nperature	T_{biv}	°C	-10	-10
Cycling inte for heating	rval capacity	Pcych	kW	Not ap	olicable
Degradation	n co-efficient	Cdh	-	0.9	0.9



Product information is based on average and warmer climate conditions.

	climate conditions.					
Model	IE24-CH1P12 IE24-CH1P12		1	CH1PR12 CH1PR12		
Temperatur	Temperature application			55	35	
			°C	.		
	efficient of per					
temperatur	rt load at indoo e T _i	or temper	ature 20) °C and c	utdoor	
T _j = -7 °C		COP_d	-	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		COP_d	-	6.46	7.16	
T _i = bivalen temperatur		COP_d	-	2.41	3.16	
$T_j = -15 ^{\circ}C$ (if TOL < -20 $^{\circ}C$		COPd	-	-	-	
Operation li temperatur	imit	TOL	°C	-10	-10	
Cycling inte efficiency	rval	СОРсус	-	Not ap	plicable	
Heating wa	ter operating rature	WTOL	°C	55	55	
	umption in mo		r than ac	tive mod	e	
Off mode		P _{OFF}	kW	0.014	0.014	
Thermostat		P _{TO}	kW	0.014	0.014	
Standby mo	ode	P _{SB}	kW	0.014	0.014	
Crankcase h	neater mode	P _{CK}	kW	0.000	0.000	
Other items	6					
	Capacity cont	rol		Vari	able	
Sound power	er level	L _{WA}	dB	61	61	
Emissions o oxides	f nitrogen	NΟ _x	mg/kWh	Not ap	plicable	
Rated air flo	ow rate,	-	m3/h	7200	7200	
С	Declared load profile			L	L	
Water heat electricity c	ing daily onsumption	Q_{elec}	kWh	3.850	3.850	
Water heat efficiency		η_{wh}	%	121	121	
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climate condition		IE24-CH1P140 SDCi IE24-CH1PR140 SDCi			
Temperature application		°C	55	35	
Air-to-water heat pump			Y	es	
Water-to-water heat pum	р		į	lo	
Brine-to-water heat pump)			lo	
Low-temperature heat pu	mp		N	lo	
Equipped with a suppleme	entary hea	ater	N	lo	
Heat pump combination h	eater		Y	es	
Warmer o	limate co	nditions		***************************************	
Rated heat output	P_{rated}	kW	14	15	
Seasonal space heating energy efficiency	ης	%	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 _j = 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 $TOL < -20 ^{\circ}C$)	Pdh	kW	-	-	
Bivalent temperature	T _{biv}	°C	-10	-10	
Cycling interval capacity for heating	Pcych	kW	kW Not applicable		
Degradation co-efficient	Cdh	-	0.9	0.9	



Product information is based on average and warmer climate conditions.

Cilma	IE24-	CH1P140 CH1PR14				
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	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 _j = bivalent temperature	COPd	-	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	СОРсус	-	Not applicable			
Heating water operating limit temperature	WTOL	°C	55	55		
Power consumption in mo				е		
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	58	58		
Emissions of nitrogen oxides	NOx	mg/kWh	Not apı	plicable		
Rated air flow rate, outdoors	-	m3/h	10800	10800		
Declared load p	rofile	innenenenenen	L	L		
Water heating daily electricity consumption	Q _{elec}	kWh	3.900	3.900		
Water heating energy efficiency	η_{wh}	%	120	120		
Contact details	ETIOU N	RGY KEN 1ETAXAK 304, GRE	l,			



Product information is based on average and warmer climate conditions.

CIIIIa	te conditi			
Model	IE24-CH1P150 TDCi IE24-CH1PR150 TDCi			
Temperature application		°C	55	35
Air-to-water heat pump			Υ	es
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		Υ	es
Warmer o	limate co	nditions		
Rated heat output	P_{rated}	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	i	
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 $TOL < -20 ^{\circ}\text{C}$)	Pdh	kW	-	-
Bivalent temperature	T _{biv}	°C	-10	-10
Cycling interval capacity for heating	Pcych	kW	Not ap	
Degradation co-efficient	Cdh	-	0.9	0.9



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Cilma	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	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 _i = bivalent temperature	COP_d	-	2.37	3.07		
$T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}C$)	COP₀	-	-	-		
Operation limit temperature	TOL	°C	-10	-10		
Cycling interval efficiency	СОРсус	-	Not applicable			
Heating water operating limit temperature	WTOL	°C	55	55		
Power consumption in mo				e		
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 apı	plicable		
Rated air flow rate, outdoors	-	m3/h	10440	10440		
Declared load p	Declared load profile			L		
Water heating daily electricity consumption	Q_{elec}	kWh	3.950	3.950		
Water heating energy efficiency	η_{wh}	%	118	118		
Contact details	ETIOU N	RGY KEN 1ETAXAK 304, GRE	l,			



Product information is based on average and warmer climate conditions.

climate conditions.						
Model	IE24-CH1P190 TDCi IE24-CH1PR190 TDCi				TDCi 2C2	
Temperatu	re application		°C	55	35	
Air-to-wate	er heat pump			Y	es	
Water-to-w	vater heat pum	р		N	lo	
Brine-to-wa	ater heat pump)		N	lo	
Low-tempe	rature heat pu	mp		N	lo	
Equipped w	vith a suppleme	entary hea	ater	N	lo	
Heat pump	combination h	eater		Y	es	
	Warmer o	limate co	nditions	;		
Rated heat	output	P _{rated}	kW	20	21	
Seasonal sp energy effic	pace heating ciency	ηs	%	200	267	
Seasonal co performano	pefficient of ce	SCOP	-	5.08	6.80	
	Average c	limate co	nditions) }		
Rated heat	output	Prated	kW	14	15	
Seasonal sp energy effic	pace heating ciency	η_s	%	160	202	
Seasonal co performano	oefficient of ce	SCOP	-	4.08	5.11	
	pacity for heat re 20 °C and ou				211111111111111111111111111111111111111	
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 = bivaler temperatur		Pdh	kW	14.4	14.6	
T _j = operat temperatur		Pdh	kW	14.4	14.6	
$T_j = -15 ^{\circ}C$ (if $TOL < -20 ^{\circ}C$		Pdh	kW	-	-	
Bivalent ter	mperature	T _{biv}	°C	-10	-10	
:	rval capacity	Pcych	kW	Not ap	plicable	
Degradatio	n co-efficient	Cdh	-	0.9	0.9	



Product information is based on average and warmer climate conditions.

climate conditions.						
Model	IE24-CH1P190 TDCi IE24-CH1PR190 TDCi				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		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		COP _d	-	7.11	7.55	
T _j = bivaler temperatur		COP_d	-	2.40	3.11	
$T_j = -15 \degree C$ (if TOL < -20 °C	,	COPd	-	-	-	
Operation l temperatur	imit	TOL	°C	-10	-10	
Cycling inte	erval	COPcyc	-	Not ap	plicable	
Heating wa	ter operating erature	WTOL	°C	55	55	
	sumption in mo	des othe	r than ac	tive mod	e	
Off mode		P _{OFF}	kW	0.016	0.016	
Thermosta		P _{TO}	kW	0.016	0.016	
Standby mo	ode	P_{SB}	kW	0.016	0.016	
Crankcase l	neater mode	Рск	kW	0.000	0.000	
Other item	S	101101111111111111111111111111111111111		(1111111111111111111111111111111111111		
	Capacity cont	rol		Vari	able	
Sound pow outdoors	er level	L _{WA}	dB	58	58	
Emissions o	of nitrogen	NOx	mg/kWh	Not ap	plicable	
Rated air flo	ow rate,	-	m3/h	10800	10800	
	Declared load profile			XL	XL	
Water heat	ing daily onsumption	Q_{elec}	kWh	6.000	6.000	
Water heat		η_{wh}	%	127	127	
efficiency INVENTIVE ENERGY KEMAE, Contact details 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE					l,	



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climate conditions. Model IE24-CH1P240 TDCi IE24-CH1PR240-PLS1 TD IE24-CH2PR240 TDCi IE24-CH2PR240 TDCi				
Temperature application			55	35
Air-to-water heat pump			Y	es
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	•	ater	١	lo
Heat pump combination h	eater		Υ	es
Warmer o	limate co	nditions		
Rated heat output	P _{rated}	kW	25	26
Seasonal space heating energy efficiency	ης	%	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 _j = 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



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climate conditions.						
Model	IE24-CH1P24		Ē	1PR240-P		
 	IE24-CH1PR2	40 IDCi	IE24-CH	2PR240	IDCi 2C2	
Temperatu	re application		°C	55	35	
	pefficient of per rt load at indoc e T _i					
T _j = - 7 °C		COPd	-	2.57	3.42	
T _j = 2 °C		COPd	-	3.85	4.86	
T _j = 7°C		COP_d	-	5.11	6.12	
T _j = 12 °C		COPd	-	6.35	7.01	
T _j = bivalen temperatur		COP_d	-	2.33	3.07	
: T _j = - 15 °C (if TOL < - 20 °C		COP_d	-	-	-	
Operation l temperatur	imit	TOL	°C	-10	-10	
Cycling inte efficiency		СОРсус	-	Not ap	plicable	
Heating wa	ter operating rature	WTOL	°C	55	55	
	sumption in mo		r than ac	tive mod	e	
Off mode		P _{OFF}	kW	0.018	0 .018	
Thermostat		Рто	kW	0.018	0 .018	
Standby mo	ode	P_SB	kW	0.018	0 .018	
Crankcase h	neater mode	P _{CK}	kW	0.000	0.000	
Other items	5	101101111111111111111111111111111111111	6 000000000000000000000000000000000000			
	Capacity cont	rol		Vari	able	
Sound pow outdoors	er level	L _{WA}	dB	64	64	
Emissions o	of nitrogen	NOx	mg/kWh	Not ap	plicable	
Rated air flo	ow rate,	-	m3/h	14400	14400	
	Declared load profile			XL	XL	
Water heat electricity o	ing daily onsumption	Q_{elec}	kWh	6.150	6.150	
Water heat efficiency		η_{wh}	%	124	124	
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Product information is based on average and warmer

clima Model IE24-CH1P30 IE24-CH1PR3	00 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 pu	No						
Equipped with a supplementary heater			No				
Heat pump combination h	Yes						
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 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			
$T_j = -15 ^{\circ}\text{C}$ (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			



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climate conditions.								
Model		H1P300 TDCi IE24-CH1PR300-PLS1 TDCi IPR300 TDCi IE24-CH1PR300-PLS2 TDCi IE24-CH1PR30-PLS2 TDCi						
Temperature application		°C	55	35				
			<u> </u>					
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 = bivaler temperatui		COP_d	-	2.19	2.84			
$T_j = -15 °C$ (if TOL < -20 °C	2	COPd	-	-	-			
Operation l		TO:	۰,	10	10			
temperatui	re	TOL	°C	-10	-10			
Cycling inte efficiency	erval	COPcyc	-	Not applicable				
Heating wa	iter operating erature	WTOL	°C	55	55			
Power consumption in modes other than active mode								
Off mode		P_{OFF}	kW	0.020	0 .020			
Thermosta		Рто	kW	0.020	0 .020			
Standby mo	ode	P_{SB}	kW	0.020	0 .020			
Crankcase l	heater mode	P _{CK}	kW	0.000	0.000			
Other items								
Capacity control			Variable					
Sound pow outdoors	er level	L _{WA}	dB	69	69			
Emissions o	of nitrogen	NOx	mg/kWh	Not applicable				
Rated air fl	ow rate,	-	m3/h	20880	20880			
Declared load profile			XL	XL				
Water heat	ting daily consumption	Q _{elec}	kWh	6.160	6.160			
Water heat efficiency		η_{wh}	%	124	124			
Contact de	tails	INVENTIVE ENERGY KEMAE, 20 MELETIOU METAXAKI, HERAKLION, 71304, GREECE						