

iglu

HEAT PUMPS

TECHNICAL DATA

GROUND SOURCE HEAT PUMPS IGLU Aleut



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The sequence of IGLU TECH products configuration

- X1 – IGLU Aleut/IGLU Aleut WT/IGLU Aleut I/IGLU Aleut WTI – AL;
- X1 – IGLU ALEUT WTI (1800x600x600) – AS;
- X1 – IGLU Inuit Split/IGLU Inuit Split WT – In;
- X1 – IGLU Aleut Max – MA;
- X1 – IGLU Inuit Mono/IGLU Inuit Mono WT – MB;
- X2 – Capacity of pump – 5/7/9... kW;
- X3 – Kind of compressor (I – inverter/F – fixed speed);
- X4 – Water tank – (W);
- X5 – Active cooling – (A);
- X6 – Passive cooling – (P);
- X7 – Construction – Split (S);
- X8 – Unit location – Inside/Outside, (I/O);
- X9 – Energy supply:
 - Sr - single phase 1P 230 V;
 - Tr - triple phase 3P 400V;
 - Sn – single phase to north 2P 110 V;
 - Tn – triple phase to north 3P 110 V;
- X10 – Agent (R 410A – a; R 407C – b; R32 – c; R 290– d);
- N – not applicable;

Technical data of IGLU Aleut fixed capacity heat pumps

<i>Model</i>		IGLU Aleut 5	IGLU Aleut 7	IGLU Aleut 9	IGLU Aleut 11	IGLU Aleut 13	IGLU Aleut 16	
Brine/water used								
Thermal power (B0/W35) ¹⁾	kW	5,24	7,25	9,22	10,95	13,07	15,45	
Thermal power (B0/W45) ¹⁾	kW	4,89	6,85	8,67	9,98	12,30	14,75	
Thermal power (B0/W55) ¹⁾	kW	4,67	6,46	8,22	9,76	11,65	13,77	
COP (B0/W35) ¹⁾	-	4,37	4,42	4,45	4,52	4,54	4,46	
COP (B0/W45) ¹⁾	-	3,37	3,42	3,47	3,41	3,47	3,52	
COP (B0/W55) ¹⁾	-	2,66	2,69	2,70	2,75	2,76	2,71	
SCOP (B0/W35)	-	5,55	5,66	5,72	5,86	5,77	5,77	
SCOP (B0/W45)	-	4,14	4,22	4,26	4,37	4,3	4,3	
SCOP (B0/W55)	-	3,99	4,07	4,11	4,22	4,15	4,15	
Brine circuit								
Rated flow (DT = 3K) ²⁾	m ³ /h	1,50	2,0	2,50	3,00	3,50	4,0	
Permissible external pressure drop ²⁾	kPa	73	80	89	70	55	52	
Maximum pressure	bar	4						
Volume (internal)	l	5					6	
Operating temperature	°C	from -10 to +20						
Connection (Cu)	mm	28						
Compressor								
Type		Spiral "Scroll"						
Mass of refrigerant R 407C ³⁾	kg	1,20	1,30	1,35	1,40	1,50	-	
Mass of refrigerant R 410A ³⁾	kg	-						2,15
Maximum pressure	bar	30						
Heating circuit								
Rated flow (DT = 7K)	m ³ /h	1,00	1,50	2,00	2,00	2,20	2,20	
Min, flow temperature	°C	15						
Max, flow temperature	°C	65						
Max, permissible operating pressure	bar	4,0						
Connection (Cu)	mm	28						
Power network connection values								
<i>Model</i>		IGLU Aleut 5	IGLU Aleut 7	IGLU Aleut 9	IGLU Aleut 11	IGLU Aleut 13	IGLU Aleut 16	
External circuit breaker (3P, 400 V), electric heater 9 kW	A	C25 (3P)	C25 (3P)			C32 (3P)		
RLA – rated load amps (3P, 400 V), electric heater 9 kW	A	4,5	6,1	6,4	8,3	9,6	12,2	
Compressor rated power (B0/W35), (3P, 400 V), electric heater 9 kW	kW	1,86	2,68	3,30	3,83	4,26	5,26	
External circuit breaker (3P, 230V), electric heater 6 kW	A	-	C32 (3P)	C32 (3P)			-	
RLA – rated load amps (3P, 230 V), electric heater 6 kW	A	-	11,2	16	16	16,7	-	
Compressor rated power (B0/W35), (3P, 230 V), electric heater 6 kW	kW	-	4,48	6,4	6,4	6,68	-	
Type of protection	IP	IP20						
General information								
Permissible ambient temperatures	°C	from +10 to +35						
Sound power level ⁴⁾	dBA	42					45	
Dimensions (width x depth x height)	mm	600 x 600 x 1100						
Weight (without packaging)	kg	102	110	115	130	135	145	

Recommended maximum heating coil area for hot water tank:

Thermal power, kW	Coil area, m²
5 – 7	< 2,5
9 – 11	< 3
13	< 3,5
16 – 18	< 4

1) With internal pump according to EN 14511

2) With ethylene glycol

3) Greenhouse potential, R 407C - GWP100 = 1774; R 410A - GWP100=2088;

4) According to EN 3743-1

Technical data of IGLU Aleut fixed capacity heat pumps with water tank

<i>Model</i>		IGLU Aleut 5 WT	IGLU Aleut 7 WT	IGLU Aleut 9 WT	IGLU Aleut 11 WT	IGLU Aleut 13 WT	IGLU Aleut 16 WT
Brine/water used							
Thermal power (B0/W35) ¹⁾	kW	5,24	7,25	9,22	10,95	13,07	15,45
Thermal power (B0/W45) ¹⁾	kW	4,89	6,85	8,67	9,98	12,30	14,75
Thermal power (B0/W55) ¹⁾	kW	4,67	6,46	8,22	9,76	11,65	13,77
COP (B0/W35) ¹⁾	-	4,37	4,42	4,45	4,52	4,54	4,46
COP (B0/W45) ¹⁾	-	3,37	3,42	3,47	3,41	3,47	3,52
COP (B0/W55) ¹⁾	-	2,66	2,69	2,70	2,75	2,76	2,71
SCOP (B0/W35)	-	5,55	5,66	5,72	5,86	5,77	5,77
SCOP (B0/W45)	-	4,14	4,22	4,26	4,37	4,3	4,3
SCOP (B0/W55)	-	3,99	4,07	4,11	4,22	4,15	4,15
Brine circuit							
Rated flow (DT = 3K) ²⁾	m ³ /h	1,50	2,0	2,50	3,00	3,50	4,0
Permissible external pressure drop ²⁾	kPa	73	80	89	70	55	52
Maximum pressure	bar	4					
Volume (internal)	l	5					6
Operating temperature	°C	from -10 to +20					
Connection (Cu)	mm	28					
Compressor							
Type		Spiral "Scroll"					
Mass of refrigerant R 407C ³⁾	kg	1,20	1,30	1,35	1,40	1,50	-
Mass of refrigerant R 410A ³⁾	kg	-					2,15
Maximum pressure	bar	30					
Heating circuit							
Rated flow (DT = 7K)	m ³ /h	1,00	1,50	2,00	2,00	2,20	2,20
Min, flow temperature	°C	15					
Max, flow temperature	°C	65					
Max, permissible operating pressure	bar	4,0					
Hot water tank volume	l	200					
Capacity material	-	Stainless steel 1,4404					
Connection (Cu)	mm	28					
Power network connection values							
<i>Model</i>		IGLU Aleut 5 WT	IGLU Aleut 7 WT	IGLU Aleut 9 WT	IGLU Aleut 11 WT	IGLU Aleut 13 WT	IGLU Aleut 16 WT
External circuit breaker (3P, 400 V), electric heater 9 kW	A	C25 (3P)	C25 (3P)			C32 (3P)	
RLA – rated load amps (3P, 400 V), electric heater 9 kW	A	4,5	6,1	6,4	8,3	9,6	12,2
Compressor rated power (B0/W35), (3P, 400 V), electric heater 9 kW	kW	1,86	2,68	3,30	3,83	4,26	5,26
External circuit breaker (3P, 230V), electric heater 6 kW	A	-	C32 (3P)	C32 (3P)			-
RLA – rated load amps (3P, 230 V), electric heater 6 kW	A	-	11,2	16	16	16,7	-
Compressor rated power (B0/W35), (3P, 230 V), electric heater 6 kW	kW	-	4,48	6,4	6,4	6,68	-
Type of protection	IP						
General information							

Permissible ambient temperatures	°C	from +10 to +35					
Sound power level ⁴⁾	dBA	42					45
Dimensions (width x depth x height)	mm	700 x 750 x 1750					
Weight (without packaging)	kg	187	195	200	215	220	230

1) With internal pump according to EN 14511

2) With ethylene glycol

3) Greenhouse potential, R 407C - GWP100 = 1774; R 410A - GWP100=2088

4) According to EN 3743-1

Technical data of IGLU Aleut variable capacity heat pumps

	Units	IGLU Aleut 7 I			IGLU Aleut 12 I			IGLU Aleut 18 I		
Power network connection values										
External circuit breaker; (3P, 400 V), electric heater 9 kW	A	C25 (3P)			C25 (3P)			C32 (3P)		
Inverter Max. current., (3P, 400 V), electric heater 9 kW	A	22			9			20		
External circuit breaker; (3P, 230 V / 2P, 110 V) electric heater 6 kW	A	C32 (3P)/C32 (2P)						-		
Inverter Max. current (3P, 230 V / 2P, 110 V) electric heater 6 kW	A	22/22			9/26			-		
Type of protection	IP	IP 20								
Heat (electric) power of a heat pump / COP (B0/W35)										
		IGLU Aleut 7 I			IGLU Aleut 12 I			IGLU Aleut 18 I		
	kW	Heating capacity (kW)	Input power (kW)	COP	Heating capacity (kW)	Input power (kW)	COP	Heating capacity (kW)	Input power (kW)	COP
Compressor power @ 1200 rpm	kW	1,79	0,50	3,58	2,70	0,70	3,86	4,00	0,90	4,44
Compressor power @ 2100 rpm	kW	3,24	0,76	4,28	4,59	1,01	4,54	7,00	1,40	5,00
Compressor power @ 3500 rpm	kW	5,49	1,21	4,53	7,69	1,66	4,63	11,64	2,36	4,93
Compressor power @ 4300 rpm	kW	7,10	1,60	4,44	9,54	2,09	4,56	14,43	3,06	4,72
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	11,61	2,70	4,30	17,88	4,00	4,47
Heat (electric) power of a heat pump / COP (B0/W55)										
Compressor power 1200 rpm	kW	1,70	0,80	2,13	2,60	0,97	2,68	3,69	1,46	2,53
Compressor power @ 2100 rpm	kW	3,20	1,12	2,86	4,40	1,50	2,93	6,37	2,19	2,91
Compressor power @ 3500 rpm	kW	5,18	1,80	2,87	7,28	2,34	3,12	10,49	3,40	3,09
Compressor power @ 4300 rpm	kW	6,49	2,30	2,82	8,74	2,94	2,97	12,95	4,25	3,05
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	10,70	3,70	2,89	16,12	5,35	3,01
SCOP										
FLOOR HEATING (35 C°) average climate conditions	kW	5,6			5,72			5,95		
SCOP										
RADIATOR HEATING (55 C°) average climate conditions	kW	3,98			4,14			4,44		

Brine circuit	Units	IGLU Aleut 7 l	IGLU Aleut 12 l	IGLU Aleut 18 l
Rated flow (DT = 3K) ²⁾	m ³ /h	2	3	4
Permissible external pressure drop ²⁾	kPa	80	70	52
Maximum pressure	bar	4		
Volume (internal)	l	5		6
Operating temperature	°C	from -10 to +20		
Connection (Cu)	mm	28		
Compressor				
Type		"Scroll"		
Mass of refrigerant R410A ³⁾	kg	1,3	1,5	2,2
Maximum pressure	bar	45		
Heating system				
Max. permissible operating pressure	bar	4		
Max. supply temperature	°C	65		
Nominal flow (DT = 6K)	m ³ /h	1	1,4	2,1
Min. flow temperature	°C	15		
Connection (Cu)	mm	28		
General information				
Permissible ambient temperatures	°C	from +10 to +35		
Sound power level ⁴⁾	dBA	39	39	39
Dimensions (width x depth x height)	mm	600 x 600 x 1100		
Weight (without packaging)	kg	132	160	175

Recommended maximum heating coil area for hot water tank:

Thermal power, kW	Coil area, m²
5 – 7	< 2,5
9 – 11	< 3
13	< 3,5
16 – 18	< 4

2) With ethylene glycol

3) Greenhouse potential, R 407C - GWP100 = 1774; R 410A - GWP100=2088

4) According to EN 3743-1

Technical data of IGLU Aleut variable capacity heat pumps with water tank

	Units	IGLU Aleut 7 WTI			IGLU Aleut 12 WTI			IGLU Aleut 18 WTI		
Power network connection values										
External circuit breaker; (3P, 400 V), electric heater 9 kW	A	C25 (3P)			C25 (3P)			C32 (3P)		
Inverter Max. current., (3P, 400 V), electric heater 9 kW	A	22			9			20		
External circuit breaker; (3P, 230 V / 2P, 110 V) electric heater 6 kW	A	C32 (3P)/C32 (2P)						-		
Inverter Max. current; (3P, 230 V / 2P, 110 V) electric heater 6 kW	A	22/22			9/26			-		
Type of protection	IP	IP20								
Heat (electric) power of a heat pump / COP (B0/W35)										
	kW	Heating capacity (kW)	Input power (kW)	COP	Heating capacity (kW)	Input power (kW)	COP	Heating capacity (kW)	Input power (kW)	COP
Compressor power @ 1200 rpm	kW	1,79	0,50	3,58	2,70	0,70	3,86	4,00	0,90	4,44
Compressor power @ 2100 rpm	kW	3,24	0,76	4,28	4,59	1,01	4,54	7,00	1,40	5,00
Compressor power @ 3500 rpm	kW	5,49	1,21	4,53	7,69	1,66	4,63	11,64	2,36	4,93
Compressor power @ 4300 rpm	kW	7,10	1,60	4,44	9,54	2,09	4,56	14,43	3,06	4,72
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	11,61	2,70	4,30	17,88	4,00	4,47
Heat (electric) power of a heat pump / COP (B0/W55)										
Compressor power @ 1200 rpm	kW	1,70	0,80	2,13	2,60	0,97	2,68	3,69	1,46	2,53
Compressor power @ 2110 rpm	kW	3,20	1,12	2,86	4,40	1,50	2,93	6,37	2,19	2,91
Compressor power @ 3500 rpm	kW	5,18	1,80	2,87	7,28	2,34	3,12	10,49	3,40	3,09
Compressor power @ 4300 rpm	kW	6,49	2,30	2,82	8,74	2,94	2,97	12,95	4,25	3,05
Compressor power @ 5300 rpm	kW	N/A	N/A	N/A	10,70	3,70	2,89	16,12	5,35	3,01
SCOP	kW	5,6			5,72			5,95		
FLOOR HEATING (35 C°) average climate conditions										
SCOP	kW	3,98			4,14			4,44		
RADIATOR HEATING (55 C°) average climate conditions										

Brine circuit	Units	IGLU Aleut 7 WTI	IGLU Aleut 12 WTI	IGLU Aleut 18 WTI
Rated flow (DT = 3K) ²⁾	m ³ /h	2	3	4
Permissible external pressure drop ²⁾	kPa	80	70	52
Maximum pressure	bar	4		
Volume (internal)	l	5		6
Operating temperature	°C	from -10 to +20		
Connection (Cu)	mm	28		
Compressor				
Type		"Scroll"		
Mass of refrigerant R410A	kg	1,3	1,5	2,2
Maximum pressure	bar	45		
Heating system				
Hot water tank volume	l	200		
Max. permissible operating pressure	bar	4		
Max. supply temperature	°C	65		
Nominal flow (DT = 6K)	m ³ /h	1	1,4	2,1
Min. flow temperature	°C	15		
DHW tank material	-	Stainless steel 1,4404		
Connection (Cu)	mm	28		
General information				
Permissible ambient temperatures	°C	from +10 to +35		
Sound power level ⁴⁾	dBA	39	39	39
Dimensions (width x depth x height)	mm	700 x 750 x 1750		
Weight (without packaging)	kg	245	260	284

2) With ethylene glycol

3) Greenhouse potential, R 407C - GWP100 = 1774; R 410A - GWP100=2088

4) According to EN 3743-1

Annex to the technical characteristics according to European Commission Regulation No 813/2013

Technical data of IGLU Aleut 5 fixed capacity heat pump

Model	IGLU Aleut 5
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	4,67	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	4,69	kW
$T_j = +2\text{ °C}$	P_{dh}	4,95	kW
$T_j = +7\text{ °C}$	P_{dh}	5,11	kW
$T_j = +12\text{ °C}$	P_{dh}	5,26	kW
$T_j = (T_{iv})$ - bivalent temperature mode	P_{dh}	4,67	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	139	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,86	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,67	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,25	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,89	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,79	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	9	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	1,5	m ³ /h
Ukmerges st. 364-3, Vilnius, Lithuania			

Technical data of IGLU Aleut 7 fixed capacity heat pumps

Model	IGLU Aleut 7
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	6,46	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	6,49	kW
$T_j = +2\text{ °C}$	P_{dh}	6,85	kW
$T_j = +7\text{ °C}$	P_{dh}	7,07	kW
$T_j = +12\text{ °C}$	P_{dh}	7,27	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	6,46	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,009	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,064	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB Ukmerges st. 364-3, Vilnius, Lithuania		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	141	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,90	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,71	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,30	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,95	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,82	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 9 fixed capacity heat pump

Model	IGLU Aleut 9
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	8,38	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	8,42	kW
$T_j = +2\text{ °C}$	P_{dh}	8,88	kW
$T_j = +7\text{ °C}$	P_{dh}	9,16	kW
$T_j = +12\text{ °C}$	P_{dh}	9,43	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	8,38	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	144	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,93	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,76	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,36	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,02	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,86	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,5	m ³ /h
Ukmerges st. 364-3, Vilnius, Lithuania			

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 11 fixed capacity heat pump

Model	IGLU Aleut 11
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	9,95	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	10,00	kW
$T_j = +2\text{ °C}$	P_{dh}	10,55	kW
$T_j = +7\text{ °C}$	P_{dh}	10,88	kW
$T_j = +12\text{ °C}$	P_{dh}	11,20	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	9,95	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	145	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,96	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,80	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,40	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,06	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,89	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,0	m ³ /h
Ukmerges st. 364-3, Vilnius, Lithuania			

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 13 fixed capacity heat pump

Model	IGLU Aleut 13
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	11,88	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11,94	kW
$T_j = +2\text{ °C}$	P_{dh}	12,59	kW
$T_j = +7\text{ °C}$	P_{dh}	12,98	kW
$T_j = +12\text{ °C}$	P_{dh}	13,37	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	11,88	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	146	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,97	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,81	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,42	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,08	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,90	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,5	m ³ /h
Ukmerges st. 364-3, Vilnius, Lithuania			

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 16 fixed capacity heat pump

Model	IGLU Aleut 16
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	14,04	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	14,11	kW
$T_j = +2\text{ °C}$	P_{dh}	14,88	kW
$T_j = +7\text{ °C}$	P_{dh}	15,35	kW
$T_j = +12\text{ °C}$	P_{dh}	15,80	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	14,04	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	45/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	144	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,92	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,75	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,34	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,00	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,85	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	4,0	m ³ /h
Contact details	Ukmerges st. 364-3, Vilnius, Lithuania		

1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 5 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 5 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	4,67	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	4,69	kW
$T_j = +2\text{ °C}$	P_{dh}	4,95	kW
$T_j = +7\text{ °C}$	P_{dh}	5,11	kW
$T_j = +12\text{ °C}$	P_{dh}	5,26	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	4,67	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	139	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,86	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,67	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,25	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,89	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,79	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	9	kW
Type of energy input	Electricity		
Air-to-water heat pump rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	1,5	m ³ /h
Contact details	Ukmerges st. 364-3, Vilnius, Lithuania		

Technical data of IGLU Aleut 7 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 7 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	6,46	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	6,49	kW
$T_j = +2\text{ °C}$	P_{dh}	6,85	kW
$T_j = +7\text{ °C}$	P_{dh}	7,07	kW
$T_j = +12\text{ °C}$	P_{dh}	7,27	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	6,46	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB Ukmerges st. 364-3, Vilnius, Lithuania		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	141	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,90	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,71	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,30	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,95	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,82	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h

1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 9 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 9 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	8,38	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	8,42	kW
$T_j = +2\text{ °C}$	P_{dh}	8,88	kW
$T_j = +7\text{ °C}$	P_{dh}	9,16	kW
$T_j = +12\text{ °C}$	P_{dh}	9,43	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	8,38	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	144	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,93	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,76	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,36	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,02	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,86	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,5	m ³ /h
Contact details	Ukmerges st. 364-3, Vilnius, Lithuania		

1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 11 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 11 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	9,95	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	10,00	kW
$T_j = +2\text{ °C}$	P_{dh}	10,55	kW
$T_j = +7\text{ °C}$	P_{dh}	10,88	kW
$T_j = +12\text{ °C}$	P_{dh}	11,20	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	9,95	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	145	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,96	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,80	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,40	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,06	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,89	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,0	m ³ /h
Contact details	Ukmerges st. 364-3, Vilnius, Lithuania		

1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 13 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 13 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	11,88	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11,94	kW
$T_j = +2\text{ °C}$	P_{dh}	12,59	kW
$T_j = +7\text{ °C}$	P_{dh}	12,98	kW
$T_j = +12\text{ °C}$	P_{dh}	13,37	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	11,88	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	42/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	146	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,97	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,81	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,42	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,08	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,90	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,5	m ³ /h

1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 16 WT fixed capacity heat pump with water tank

Model	IGLU Aleut 16 WT
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using average temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	14,04	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	14,11	kW
$T_j = +2\text{ °C}$	P_{dh}	14,88	kW
$T_j = +7\text{ °C}$	P_{dh}	15,35	kW
$T_j = +12\text{ °C}$	P_{dh}	15,80	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	14,04	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	1,00	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,014	kW
Thermostat-off mode	P_{TO}	0,014	kW
Standby mode	P_{SB}	0,014	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Fixed		
Sound power level, indoors/outdoors	L_{WA}	45/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	144	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	2,92	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,75	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,34	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,00	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,85	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	4,0	m ³ /h

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 7 I variable capacity heat pump

Model	IGLU Aleut 7 I
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions

Parameter	Conventional representation	Value	Measurement unit	Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	6	kW	Seasonal energy efficiency for space heating	η_s	148	%
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	5,68	kW	$T_j = -7\text{ °C}$	COP_d or PER_d	3,05	-
$T_j = +2\text{ °C}$	P_{dh}	3,38	kW	$T_j = +2\text{ °C}$	COP_d or PER_d	4,01	-
$T_j = +7\text{ °C}$	P_{dh}	2,15	kW	$T_j = +7\text{ °C}$	COP_d or PER_d	4,51	-
$T_j = +12\text{ °C}$	P_{dh}	2,04	kW	$T_j = +12\text{ °C}$	COP_d or PER_d	4,52	-
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW	$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	P_{dh}	-	kW	T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW	Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d arba PER_d	-	-
Bivalent temperature	T_{biv}	-10	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P_{cyc}	1,5-7	kW	Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Decreased efficiency in cyclic mode	C_{dh}	0,9	-	Heating water limit operating temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0,009	kW	Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Thermostat-off mode	P_{TO}	0,009	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0,064	kW				
Crankcase heater mode	P_{CK}	-	kW				
Other parameters							
Capacity control	Variable			Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	39/0	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h
Emissions of nitrogen oxides	NO_x	-	mg/kWh				
For heat pump combination heater							
Declared load profile	-			Water heating Energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Contact details	IGLU TEC UAB			Ukmerges st. 364-3, Vilnius, Lithuania			

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 12 I variable capacity heat pump

Model	IGLU Aleut 12 I
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions

Parameter	Conventional representation	Value	Measurement unit	Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	11	kW	Seasonal energy efficiency for space heating	η_s	154	%
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	9,21	kW	$T_j = -7\text{ °C}$	COP_d or PER_d	3,08	-
$T_j = +2\text{ °C}$	P_{dh}	5,59	kW	$T_j = +2\text{ °C}$	COP_d or PER_d	4,09	-
$T_j = +7\text{ °C}$	P_{dh}	3,61	kW	$T_j = +7\text{ °C}$	COP_d or PER_d	4,66	-
$T_j = +12\text{ °C}$	P_{dh}	2,82	kW	$T_j = +12\text{ °C}$	COP_d or PER_d	4,51	-
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW	$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	P_{dh}	-	kW	T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW	Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	-
Bivalent temperature	T_{biv}	-10	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P_{cych}	3-12	kW	Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Decreased efficiency in cyclic mode	C_{dh}	0,9	-	Heating water limit operating temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0,009	kW	Rated thermal power	P_{sup}	9	kW
Thermostat-off mode	P_{TO}	0,009	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0,064	kW				
Crankcase heater mode	P_{CK}	-	kW				
Other parameters							
Capacity control	Variable			Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	39/0	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h
Emissions of nitrogen oxides	NO_x	-	mg/kWh				
For heat pump combination heater							
Declared load profile	-			Water heating Energy efficiency	η_{wh}	-	%
	Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-
Contact details	IGLU TEC UAB			Ukmerges st. 364-3, Vilnius, Lithuania			

Technical data of IGLU Aleut 18 I variable capacity heat pump

Model	IGLU Aleut 18 I
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	16	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	13,54	kW
$T_j = +2\text{ °C}$	P_{dh}	8,17	kW
$T_j = +7\text{ °C}$	P_{dh}	5,29	kW
$T_j = +12\text{ °C}$	P_{dh}	4,19	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-10	°C
Power in cyclic heating mode	P_{cych}	4-18	kW
Decreased efficiency in cyclic mode	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,009	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,064	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Variable		
Sound power level, indoors/outdoors	L_{WA}	39/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
For heat pump combination heater			
Declared load profile	-		
Daily electricity consumption	Q_{elec}	-	kWh
Contact details	IGLU TEC UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	164	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	3,29	-
$T_j = +2\text{ °C}$	COP_d or PER_d	4,30	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,99	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,12	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	9	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,0	m ³ /h
Water heating Energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Ukmerges st. 364-3, Vilnius, Lithuania			

Technical data of IGLU Aleut 7 WTI variable capacity heat pump with water tank

Model	IGLU Aleut 7 WTI
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions

Parameter	Conventional representation	Value	Measurement unit	Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	6	kW	Seasonal energy efficiency for space heating	η_s	148	%
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T			
$T_j = -7\text{ °C}$	P_{dh}	5,68	kW	$T_j = -7\text{ °C}$	COP_d or PER_d	3,05	-
$T_j = +2\text{ °C}$	P_{dh}	3,38	kW	$T_j = +2\text{ °C}$	COP_d or PER_d	4,01	-
$T_j = +7\text{ °C}$	P_{dh}	2,15	kW	$T_j = +7\text{ °C}$	COP_d or PER_d	4,51	-
$T_j = +12\text{ °C}$	P_{dh}	2,04	kW	$T_j = +12\text{ °C}$	COP_d or PER_d	4,52	-
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW	$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	P_{dh}	-	kW	T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW	Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d arba PER_d	-	-
Bivalent temperature	T_{biv}	-10	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P_{cyc}	1,5-7	kW	Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Decreased efficiency in cyclic mode	C_{dh}	0,9	-	Heating water limit operating temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0,009	kW	Rated thermal power	P_{sup}	6/9 ¹⁾	kW
Thermostat-off mode	P_{TO}	0,009	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0,064	kW				
Crankcase heater mode	P_{CK}	-	kW				
Other parameters							
Capacity control	Variable			Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	39/0	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h
Emissions of nitrogen oxides	NO_x	-	mg/kWh				
For heat pump combination heater							
Declared load profile	XL			Water heating Energy efficiency	η_{wh}	104	%
Daily electricity consumption	Q_{elec}	7,328	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Contact details	IGLU TEC UAB			Ukmerges st. 364-3, Vilnius, Lithuania			

- 1) Rated thermal power – 6 kW, when 3P, 230 V / 2P, 110 V;
Rated thermal power – 9 kW, when 3P, 400 V;

Technical data of IGLU Aleut 12 WTI variable capacity heat pump with water tank

Model	IGLU Aleut 12 WTI
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions

Parameter	Conventional representation	Value	Measurement unit	Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	11	kW	Seasonal energy efficiency for space heating	η_s	154	%
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	9,21	kW	$T_j = -7\text{ °C}$	COP_d or PER_d	3,08	-
$T_j = +2\text{ °C}$	P_{dh}	5,59	kW	$T_j = +2\text{ °C}$	COP_d or PER_d	4,09	-
$T_j = +7\text{ °C}$	P_{dh}	3,61	kW	$T_j = +7\text{ °C}$	COP_d or PER_d	4,66	-
$T_j = +12\text{ °C}$	P_{dh}	2,82	kW	$T_j = +12\text{ °C}$	COP_d or PER_d	4,51	-
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW	$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	P_{dh}	-	kW	T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW	Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d or PER_d	-	-
Bivalent temperature	T_{biv}	-10	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P_{cyc}	3-12	kW	Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Decreased efficiency in cyclic mode	C_{dh}	0,9	-	Heating water limit operating temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0,009	kW	Rated thermal power	P_{sup}	9	kW
Thermostat-off mode	P_{TO}	0,009	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0,064	kW				
Crankcase heater mode	P_{CK}	-	kW				
Other parameters							
Capacity control	Variable			Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	39/0	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	-	2,0	m ³ /h
Emissions of nitrogen oxides	NO_x	-	mg/kWh				
For heat pump combination heater							
Declared load profile	XL			Water heating Energy efficiency	η_{wh}	104	%
Daily electricity consumption	Q_{elec}	7,328	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Contact details	IGLU TEC UAB			Ukmerges st. 364-3, Vilnius, Lithuania			

Technical data of IGLU Aleut 18 WTI variable capacity heat pump with water tank

Model	IGLU Aleut 18 WTI
Air-to-water heat pump	No
Water-to-water heat pump	No
Ground-to-water heat pump	Yes
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters applied using **medium** temperature are declared. Parameters are declared under average climatic conditions.

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P_{rated}	16	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	13,54	kW
$T_j = +2\text{ °C}$	P_{dh}	8,17	kW
$T_j = +7\text{ °C}$	P_{dh}	5,29	kW
$T_j = +12\text{ °C}$	P_{dh}	4,19	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	-	kW
T_j = operating limit temperature	P_{dh}	-	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-10	°C
Power in cyclic heating mode	P_{cyc}	4-18	kW
Decreased efficiency in cyclic mode	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,009	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,064	kW
Crankcase heater mode	P_{CK}	-	kW
Other parameters			
Capacity control	Variable		
Sound power level, indoors/outdoors	L_{WA}	39/0	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
For heat pump combination heater			
Declared load profile	XL		
Daily electricity consumption	Q_{elec}	7,328	kWh
Contact details	IGLU TEC UAB		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	164	%
Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d or PER_d	3,29	-
$T_j = +2\text{ °C}$	COP_d or PER_d	4,30	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,99	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,12	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	-	-
T_j = operating limit temperature	COP_d or PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d or PER_d	-	-
Air-to-water heat pump: operating limit temperature	TOL	-	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	65	°C
Supplementary heater			
Rated thermal power	P_{sup}	9	kW
Type of energy input	Electricity		
Air-to-water heat pump: rated air flow rate, outdoor	-	-	m ³ /h
Ground-to-water heat pump: water flow, outdoor heat exchanger	-	3,0	m ³ /h
Water heating Energy efficiency	η_{wh}	104	%
Daily fuel consumption	Q_{fuel}	-	kWh
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