



TECHNICAL DATA

GEOHERMAL HEAT PUMPS IGLU® Aleut



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Technical data of IGLU® Aleut fixed capacity heat pumps

	Units	5 kW	7 kW	9 kW	11 kW	13 kW	16 kW
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
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
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
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	1.50
Maximum pressure	bar	30					
Heating system							
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	60					
Max. permissible operating pressure	bar	4.0					
Connection (Cu)	mm	28					
Power network connection values							
Electrical connections		400 V 3 N~50 Hz					
Inertial fuse; with electric heater 3kW/ 6kW/ 9kW	A	10/16/20	16/16/20	16/20/25	16/25/25	20/25/32	20/25/32
Compressor rated power (B0/W35)	kW	1,19	1,64	2,06	2,56	3,06	3,46
Max. current with inrush current limiter ⁴⁾	A	4,10	5,20	6,80	8,23	10,10	11,8
Type of protection	IP	X1					
General information							
Permissible ambient temperatures	°C	from +10 to +35					
Sound power level ⁵⁾	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

1) With internal pump according to EN 14511

2) With ethylene glycol

3) Greenhouse potential, GWP100 = 1774

4) WPS 6-1: Max. current without inrush current limiter

5) According to EN 3743-1

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HEAT PUMPS

Technical data of IGLU® Aleut WT fixed capacity heat pump with water heater

	Units	5 kW	7 kW	9 kW	11 kW	13 kW	16 kW
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
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
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
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	1.50
Maximum pressure	bar	30					
Heating system							
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	60					
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							
Electrical connections		400 V 3 N~50 Hz					
Inertial fuse; with electric heater 3kW/ 6kW/ 9kW	A	10/16/20	16/16/20	16/20/25	16/25/25	20/25/32	20/25/32
Compressor rated power (B0/W35)	kW	1,19	1,64	2,06	2,56	3,06	3,46
Max. current with inrush current limiter ⁴⁾	A	4,10	5,20	6,80	8,23	10,10	11,8
Type of protection	IP	X1					
General information							
Permissible ambient temperatures	°C	from +10 to +35					
Sound power level ⁵⁾	dBA	42					45
Dimensions (width x depth x height)	mm	700 x 700 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, GWP100 = 1774

4) WPS 6-1: Max. current without inrush current limiter

5) According to EN 3743-1



Technical data of IGLU® Aleut 18 WTI variable capacity heat pump with integrated water heater

	Units	
Power network connection values		
Electrical connections		400 V 3 N-50 Hz
Inertial fuse; with electric heater 3 kW/ 6 kW/ 9 kW	A	20/25/32
Compressor rated power consumption (B0/W35) @ 60 rps	kW	2.84
Max. current	A	10.70
Type of protection	IP	X1
Heat (electric) power of a heat pump / COP (B0/W35)		
Compressor power @ 30 rps	kW	5.85 (1.32) / 4,43
Compressor power @ 60 rps	kW	13.00 (2.84) / 4.58
Compressor power @ 85 rps	kW	18.60 (4.32) / 4.31
Compressor		
Type		"Scroll"
Mass of refrigerant R410A	kg	2.20
Maximum pressure	bar	45
Heating system		
Hot water tank volume	l	200
Max. permissible operating pressure	bar	4.00
Max. supply temperature	°C	60
Nominal flow (DT = 6K)	m ³ /h	2.17
Min. flow temperature	°C	15
Hot water tank volume	l	200
Boiler tank material	-	Stainless steel 1,4404
Connection (Cu)	mm	28
General information		
Permissible ambient temperatures	°C	from +10 to +35
Sound power level ⁵⁾	dBA	35÷44
Dimensions (width x depth x height)	mm	700 x 700 x 1750
Weight (without packaging)	kg	235



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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	No
Supplementary heater is used	No

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}	5.24	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	5.50	kW
$T_j = +2\text{ °C}$	P_{dh}	5.58	kW
$T_j = +7\text{ °C}$	P_{dh}	5.72	kW
$T_j = +12\text{ °C}$	P_{dh}	5.81	kW
$T_j = (T_{iv})$ - 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}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	147	%
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	5.52	—
$T_j = +2\text{ °C}$	COP_d or PER_d	5.64	—
$T_j = +7\text{ °C}$	COP_d or PER_d	5.71	—
$T_j = +12\text{ °C}$	COP_d or PER_d	5.85	—
$T_j = (T_{biv})$ - 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 arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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
Ozo str. 12A-1, Vilnius, Lithuania			

Technical data of IGLU® Aleut 7 fixed capacity heat pump

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	No
Supplementary heater is used	No

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}	7.25	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	7.59	kW
$T_j = +2\text{ °C}$	P_{dh}	7.69	kW
$T_j = +7\text{ °C}$	P_{dh}	7.85	kW
$T_j = +12\text{ °C}$	P_{dh}	7.92	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}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	150	%
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 arba PER_d	5.53	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.65	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.74	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	5.84	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
T_j = operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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
Ozo str. 12A-1, Vilnius, Lithuania			

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	No
Supplementary heater is used	No

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}	9.22	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	9.60	kW
$T_j = +2\text{ °C}$	P_{dh}	9.69	kW
$T_j = +7\text{ °C}$	P_{dh}	9.73	kW
$T_j = +12\text{ °C}$	P_{dh}	9.82	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 $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	151	%
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 arba PER_d	5.54	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.66	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.79	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	5.85	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
T_j = operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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	Ozo str. 12A-1, Vilnius, Lithuania		

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	No
Supplementary heater is used	No

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}	10.95	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11.56	kW
$T_j = +2\text{ °C}$	P_{dh}	11.60	kW
$T_j = +7\text{ °C}$	P_{dh}	11.65	kW
$T_j = +12\text{ °C}$	P_{dh}	11.87	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}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	155	%
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 arba PER_d	5.69	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.75	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.89	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	6.08	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
T_j = operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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	Ozo str. 12A-1, Vilnius, Lithuania		

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	No
Supplementary heater is used	No

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}	13.07	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	13.53	kW
$T_j = +2\text{ °C}$	P_{dh}	13.71	kW
$T_j = +7\text{ °C}$	P_{dh}	13.71	kW
$T_j = +12\text{ °C}$	P_{dh}	14.05	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 $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	153	%
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 arba PER _d	5.51	—
$T_j = +2\text{ °C}$	COP _d arba PER _d	5.84	—
$T_j = +7\text{ °C}$	COP _d arba PER _d	5.98	—
$T_j = +12\text{ °C}$	COP _d arba PER _d	6.24	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP _d arba PER _d	—	—
$T_j =$ operating limit temperature	COP _d arba PER _d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP _d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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
Contact details	Ozo str. 12A-1, Vilnius, Lithuania		

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	No
Supplementary heater is used	No

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}	15.45	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	15,95	kW
$T_j = +2\text{ °C}$	P_{dh}	16,10	kW
$T_j = +7\text{ °C}$	P_{dh}	16,25	kW
$T_j = +12\text{ °C}$	P_{dh}	16,40	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 $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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}	45	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	149	%
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 arba PER _d	5,52	—
$T_j = +2\text{ °C}$	COP _d arba PER _d	5,74	—
$T_j = +7\text{ °C}$	COP _d arba PER _d	5,87	—
$T_j = +12\text{ °C}$	COP _d arba PER _d	5,98	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP _d arba PER _d	—	—
T_j = operating limit temperature	COP _d arba PER _d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP _d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	-	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	Ozo str. 12A-1, Vilnius, Lithuania		

Technical data of IGLU® Aleut 5 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	5.24	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	5.50	kW
$T_j = +2\text{ °C}$	P_{dh}	5.58	kW
$T_j = +7\text{ °C}$	P_{dh}	5.72	kW
$T_j = +12\text{ °C}$	P_{dh}	5.81	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}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB Ozo str. 12A-1, Vilnius, Lithuania		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	147	%
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 arba PER_d	5.52	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.64	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.71	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	5.85	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	-	—
$T_j =$ operating limit temperature	COP_d arba PER_d	-	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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

Technical data of IGLU® Aleut 7 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	7.25	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	7.59	kW
$T_j = +2\text{ °C}$	P_{dh}	7.69	kW
$T_j = +7\text{ °C}$	P_{dh}	7.85	kW
$T_j = +12\text{ °C}$	P_{dh}	7.92	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 $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB Ozo str. 12A-1, Vilnius, Lithuania		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	150	%
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 arba PER_d	5.53	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.65	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.74	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	5.84	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
$T_j =$ operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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	—	2.0	m ³ /h

Technical data of IGLU® Aleut 9 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	9.22	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	9.60	kW
$T_j = +2\text{ °C}$	P_{dh}	9.69	kW
$T_j = +7\text{ °C}$	P_{dh}	9.73	kW
$T_j = +12\text{ °C}$	P_{dh}	9.82	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}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	151	%
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 arba PER_d	5.54	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.66	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.79	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	5.85	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
$T_j =$ operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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	—	2.5	m ³ /h
Contact details	Ozo str. 12A-1, Vilnius, Lithuania		

Technical data of IGLU® Aleut 11 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	10.95	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11.56	kW
$T_j = +2\text{ °C}$	P_{dh}	11.60	kW
$T_j = +7\text{ °C}$	P_{dh}	11.65	kW
$T_j = +12\text{ °C}$	P_{dh}	11.87	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}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	155	%
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 arba PER_d	5.69	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.75	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.89	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	6.08	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
$T_j =$ operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20 °C)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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
Contact details	Ozo str. 12A-1, Vilnius, Lithuania		

Technical data of IGLU® Aleut 13 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	13.07	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	13.53	kW
$T_j = +2\text{ °C}$	P_{dh}	13.71	kW
$T_j = +7\text{ °C}$	P_{dh}	13.71	kW
$T_j = +12\text{ °C}$	P_{dh}	14.05	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 $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-	°C
Power in cyclic heating mode	P_{cyc}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	dB
Emissions of nitrogen oxides	NO_x	-	mg/kWh
Contact details	IGLU TECH UAB Ozo str. 12A-1, Vilnius, Lithuania		

Parameter	Conventional representation	Value	Measurement unit
Seasonal energy efficiency for space heating	η_s	153	%
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 arba PER_d	5.51	—
$T_j = +2\text{ °C}$	COP_d arba PER_d	5.84	—
$T_j = +7\text{ °C}$	COP_d arba PER_d	5.98	—
$T_j = +12\text{ °C}$	COP_d arba PER_d	6.24	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d arba PER_d	—	—
T_j = operating limit temperature	COP_d arba PER_d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	COP_d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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		3.5	m ³ /h

Technical data of IGLU® Aleut 16 WT fixed capacity heat pump with boiler

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
Supplementary heater is used	No

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}	15.45	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	15,95	kW
$T_j = +2\text{ °C}$	P_{dh}	16,10	kW
$T_j = +7\text{ °C}$	P_{dh}	16,25	kW
$T_j = +12\text{ °C}$	P_{dh}	16,40	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}	-	°C
Power in cyclic heating mode	P_{cych}	-	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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}	45	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	149	%
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 arba PER _d	5,52	—
$T_j = +2\text{ °C}$	COP _d arba PER _d	5,74	—
$T_j = +7\text{ °C}$	COP _d arba PER _d	5,87	—
$T_j = +12\text{ °C}$	COP _d arba PER _d	5,98	—
$T_j = (T_{biv})$ - bivalent temperature mode	COP _d arba PER _d	—	—
T_j = operating limit temperature	COP _d arba PER _d	—	°C
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	COP _d arba 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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	—	4.0	m ³ /h
Contact details	Ozo str. 12A-1, Vilnius, Lithuania		

Technical data of IGLU® Aleut 18 WTI variable capacity heat pump with integrated boiler

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
Supplementary heater is used	No

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}	18	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	14.05	kW
$T_j = +2\text{ °C}$	P_{dh}	13.56	kW
$T_j = +7\text{ °C}$	P_{dh}	13.02	kW
$T_j = +12\text{ °C}$	P_{dh}	12.80	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}	-	°C
Power in cyclic heating mode	P_{cyc}	5-18	kW
Decreased efficiency in cyclic mode	C_{dh}	0.99	—
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	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	157	%
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	5.49	—
$T_j = +2\text{ °C}$	COP_d or PER_d	5.58	—
$T_j = +7\text{ °C}$	COP_d or PER_d	5.62	—
$T_j = +12\text{ °C}$	COP_d or PER_d	5.71	—
$T_j = (T_{biv})$ - 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	60	°C
Supplementary heater			
Rated thermal power	P_{sup}	3/6/9	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		3.5	m ³ /h
Contact details	Ozo str. 12A-1, Vilnius, Lithuania		