



TECHNICAL DATA

AIR-TO-WATER HEAT PUMPS IGLU Inuit



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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 Inuit 6 – 16 kW air-to-water heat pumps

	Units	6 kW	9 kW	12 kW	16 kW
Air-water used					
Nominal Heating capacity/ COP (A7/W35) ¹⁾	kW/ W/W	6,0/ 4,92	9,0/ 4,81	12,0/ 4,63	16,0/ 4,26
Nominal Heating capacity/ COP (A2/W35) ²⁾	kW/ W/W	5,2/ 3,51	7,7/ 3,41	12,79/ 3,49	15,93/3,26
Nominal Heating capacity/ COP (A-7/W35) ³⁾	kW/ W/W	5,5/ 2,75	7,9/ 2,72	11,77/2,41	14,38/ 2,22
Nominal Heating capacity/ COP (A7/W45) ⁴⁾	kW/ W/W	5,4/ 3,58	8,6/ 3,69	11,50/3,56	15,30/3,37
Nominal Heating capacity/ COP (A7/W55) ⁵⁾	kW/ W/W	4,80/ 2,65	8,0/ 2,93	11,01/2,87	14,60/2,74
Nominal Cooling capacity/ EER (A35/W18) ⁶⁾	kW/ W/W	6,5/ 4,42	8,7/ 4,12	12,0/3,87	15,0/3,62
Seasonal enr. efficiency η_s LWT 35°C/ 55°C	ETA %	180/129	175/ 127	181/122	175/121
Outdoor units					
Water Flow Rate (35°C)	m³/h	1,04	1,56	2,1	2,76
Water Flow Rate (55°C)	m³/h	0,57	0,87	1,17	1,54
Ambient Temperature, Heating	°C	from -25 to +35			
Ambient Temperature, Cooling	°C	from +10 to +46			
Ambient Temperature, DHW	°C	from -25 to +43			
Compressor Type		BLDC Twin Rotary			
Refrigerant Type		R32		R410A	
Refrigerant Factory Charging	kg	1,2	1,4	2,98	
Dimensions (width x height x depth)	mm	880x638x310	940x998x330	940x1420x330	
Weight (without packaging)	kg	46,5	72	109	
Power network connection values					
Electrical connections		1F 220÷240V/ 50Hz	3F 400V/ 50Hz		
Compressor rated power, Heating (A7/W35) ¹⁾	kW	1,22	1,87	2,59	3,76
Compressor rated power, Heating (A7/W55) ⁵⁾	kW	1,81	2,73	3,7	5,38
Compressor rated power, Cooling (A35/W18) ⁶⁾	kW	1,47	2,11	3,10	4,14
External circuit breaker; with electric heater 3kW/ 6kW/ 9kW	A	32	25	25	25
Piping Connections					
Liquid Pipe Connections	mm	6,35	6,35	9,52	9,52
Gas Pipe Connections	mm	15,88	15,88	15,88	15,88
Max.[Equiv.] Piping length (ODU-IDU)	m	30	35	50	50
Indoor units					
Ambient Temperature	°C	from +5 to +35			
Min. flow temperature	°C	15			
Max. flow temperature ⁷⁾	°C	65			
Dimensions (width x height x depth)	mm	535x640x481			
Weight (without packaging)	kg	54	56	58	60
Electric heater power	kW	3 / 6	3 / 6 / 9		

1) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]

2) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 2°CDB

3) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air -7°CDB

4) A2W Condition: (Heating) Water In/Out 40°C/45°C, Outdoor Air 7°CDB

5) A2W Condition: (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°CDB

6) A2W Condition: (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

7) 65°C down to +10°C (max. 60°C down to -5°C)

Technical data of IGLU Inuit 6 air-to-water heat pump

Model	IGLU Inuit 6
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Ground-to-water heat pump	No
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	No

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C).

Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	6	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	5,3	kW
$T_j = +2\text{ °C}$	P_{dh}	3,2	kW
$T_j = +7\text{ °C}$	P_{dh}	2,1	kW
$T_j = +12\text{ °C}$	P_{dh}	1,9	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	5,3	kW
T_j = operating limit temperature	P_{dh}	5,0	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/47	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	129	%
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	2,00	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,23	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,47	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,72	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,00	-
T_j = operating limit temperature	COP_d or PER_d	1,80	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	2580	m ³ /h

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$

Technical data of IGLU Inuit 9 air-to-water heat pump

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

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C).
Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	8	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	7,1	kW
$T_j = +2\text{ °C}$	P_{dh}	4,3	kW
$T_j = +7\text{ °C}$	P_{dh}	2,8	kW
$T_j = +12\text{ °C}$	P_{dh}	2,6	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	7,1	kW
T_j = operating limit temperature	P_{dh}	4,9	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cych}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/49	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	127	%
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	1,76	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,23	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,62	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,88	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	1,76	-
T_j = operating limit temperature	COP_d or PER_d	1,35	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	—	3960	m ³ /h

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$

Technical data of IGLU Inuit 12 air-to-water heat pump

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

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C). Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	12,5	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11,1	kW
$T_j = +2\text{ °C}$	P_{dh}	6,7	kW
$T_j = +7\text{ °C}$	P_{dh}	4,3	kW
$T_j = +12\text{ °C}$	P_{dh}	4,0	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	11,1	kW
T_j = operating limit temperature	P_{dh}	11,5	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/50	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	122	%
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	2,09	-
$T_j = +2\text{ °C}$	COP_d or PER_d	2,98	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,06	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,94	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,09	-
T_j = operating limit temperature	COP_d or PER_d	1,64	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	5940	m ³ /h

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$

Technical data of IGLU Inuit 16 air-to-water heat pump

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

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C).
Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	14	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	12,4	kW
$T_j = +2\text{ °C}$	P_{dh}	7,5	kW
$T_j = +7\text{ °C}$	P_{dh}	4,8	kW
$T_j = +12\text{ °C}$	P_{dh}	4,3	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	12,4	kW
T_j = operating limit temperature	P_{dh}	12,0	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/54	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	121	%
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	1,88	-
$T_j = +2\text{ °C}$	COP_d or PER_d	2,88	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,29	-
$T_j = +12\text{ °C}$	COP_d or PER_d	6,14	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	1,88	-
T_j = operating limit temperature	COP_d or PER_d	1,74	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	7080	m ³ /h

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{design,h}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

Technical data of IGLU Inuit 6 – 16 kW air-to-water heat pumps with integrated water tank

	Units	6 kW	9 kW	12 kW	16 kW
Air-water used					
Nominal Heating capacity/ COP (A7/W35) ¹⁾	kW/ W/W	6,0/ 4,92	9,0/ 4,81	12,0/ 4,63	16,0/ 4,26
Nominal Heating capacity/ COP (A2/W35) ²⁾	kW/ W/W	5,2/ 3,51	7,7/ 3,41	12,79/ 3,49	15,93/3,26
Nominal Heating capacity/ COP (A-7/W35) ³⁾	kW/ W/W	5,5/ 2,75	7,9/ 2,72	11,77/2,41	14,38/ 2,22
Nominal Heating capacity/ COP (A7/W45) ⁴⁾	kW/ W/W	5,4/ 3,58	8,6/ 3,69	11,50/3,56	15,30/3,37
Nominal Heating capacity/ COP (A7/W55) ⁵⁾	kW/ W/W	4,80/ 2,65	8,0/ 2,93	11,01/2,87	14,60/2,74
Nominal Cooling capacity/ EER (A35/W18) ⁶⁾	kW/ W/W	6,5/ 4,42	8,7/ 4,12	12,0/3,87	15,0/3,62
Seasonal enr. efficiency η_s LWT 35°C/ 55°C	ETA %	180/129	175/ 127	181/122	175/121
Outdoor units					
Water Flow Rate (35°C)	m ³ /h	1,04	1,56	2,1	2,76
Water Flow Rate (55°C)	m ³ /h	0,57	0,87	1,17	1,54
Ambient Temperature, Heating	°C	from -25 to +35			
Ambient Temperature, Cooling	°C	from +10 to +46			
Ambient Temperature, DHW	°C	from -25 to +43			
Compressor Type		BLDC Twin Rotary			
Refrigerant Type		R32		R410A	
Refrigerant Factory Charging	kg	1,2	1,4	2,98	
Dimensions (width x height x depth)	mm	880x638x310	940x998x330	940x1420x330	
Weight (without packaging)	kg	46,5	72	109	
Power network connection values					
Electrical connections		1P 220÷240V/ 50Hz	3P 400V/ 50Hz		
Compressor rated power, Heating (A7/W35) ¹⁾	kW	1,22	1,87	2,59	3,76
Compressor rated power, Heating (A7/W55) ⁵⁾	kW	1,81	2,73	3,7	5,38
Compressor rated power, Cooling (A35/W18) ⁶⁾	kW	1,47	2,11	3,10	4,14
External circuit breaker; with electric heater 3kW/ 6kW/ 9kW	A	32	25	25	25
Piping Connections					
Liquid Pipe Connections	mm	6,35	6,35	9,52	9,52
Gas Pipe Connections	mm	15,88	15,88	15,88	15,88
Max.[Equiv.] Piping length (ODU-IDU)	m	30	35	50	50
Indoor units					
Ambient Temperature	°C	from +5 to +35			
Min. flow temperature	°C	15			
Max. flow temperature ⁷⁾	°C	65			
Dimensions (width x height x depth)	mm	600x1672x676			
Weight (without packaging)	kg	158	160	164	168
DHW volume	l	200			
Electric heater power	kW	3 / 6	3 / 6 / 9		

1) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]

2) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 2°CDB

3) A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air -7°CDB

4) A2W Condition: (Heating) Water In/Out 40°C/45°C, Outdoor Air 7°CDB

5) A2W Condition: (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°CDB

6) A2W Condition: (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

7) 65°C down to +10°C (max. 60°C down to -5°C)

Technical data of IGLU Inuit 6 air-to-water heat pump with integrated water tank

Model	IGLU Inuit 6 WTI
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Ground-to-water heat pump	No
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C). Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	6	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	5,3	kW
$T_j = +2\text{ °C}$	P_{dh}	3,2	kW
$T_j = +7\text{ °C}$	P_{dh}	2,1	kW
$T_j = +12\text{ °C}$	P_{dh}	1,9	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	5,3	kW
$T_j =$ operating limit temperature	P_{dh}	5,0	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/47	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	129	%
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	2,00	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,23	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,47	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,72	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,00	-
$T_j =$ operating limit temperature	COP_d or PER_d	1,80	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	2580	m ³ /h
For heat pump combination heater			
Water heating energy efficiency	η_{wh}	118	%

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

Technical data of IGLU Inuit 9 air-to-water heat pump with integrated water tank

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

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C). Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	8	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	7,1	kW
$T_j = +2\text{ °C}$	P_{dh}	4,3	kW
$T_j = +7\text{ °C}$	P_{dh}	2,8	kW
$T_j = +12\text{ °C}$	P_{dh}	2,6	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	7,1	kW
T_j = operating limit temperature	P_{dh}	4,9	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/49	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	127	%
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	1,76	-
$T_j = +2\text{ °C}$	COP_d or PER_d	3,23	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,62	-
$T_j = +12\text{ °C}$	COP_d or PER_d	5,88	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	1,76	-
T_j = operating limit temperature	COP_d or PER_d	1,35	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	3960	m ³ /h
For heat pump combination heater			
Water heating energy efficiency	η_{wh}	122	%
Ukmerges st. 364-3, Vilnius, Lithuania			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

Technical data of IGLU Inuit 12 air-to-water heat pump with integrated water tank

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

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C). Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	12,5	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	11,1	kW
$T_j = +2\text{ °C}$	P_{dh}	6,7	kW
$T_j = +7\text{ °C}$	P_{dh}	4,3	kW
$T_j = +12\text{ °C}$	P_{dh}	4,0	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	11,1	kW
T_j = operating limit temperature	P_{dh}	11,5	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where TOL < -20°C)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/50	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	122	%
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	2,09	-
$T_j = +2\text{ °C}$	COP_d or PER_d	2,98	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,06	-
$T_j = +12\text{ °C}$	COP_d or PER_d	4,94	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	2,09	-
T_j = operating limit temperature	COP_d or PER_d	1,64	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	5940	m ³ /h
For heat pump combination heater			
Water heating energy efficiency	η_{wh}	121	%

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

Technical data of IGLU Inuit 16 air-to-water heat pump with integrated water tank

Model	IGLU Inuit 16 WT1
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Ground-to-water heat pump	No
Low temperature heat pump	No
Equipped with supplementary heater	Yes
Heat pump combination heater	Yes

Parameters declared for average climate conditions. Parameters are declared for medium-temperature application (55 °C). Product Information Requirements (according to EU regulation No 813/2013)

Parameter	Conventional representation	Value	Measurement unit
Rated thermal power*	P_{rated}	14	kW
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	12,4	kW
$T_j = +2\text{ °C}$	P_{dh}	7,5	kW
$T_j = +7\text{ °C}$	P_{dh}	4,8	kW
$T_j = +12\text{ °C}$	P_{dh}	4,3	kW
$T_j = (T_{biv})$ - bivalent temperature mode	P_{dh}	12,4	kW
T_j = operating limit temperature	P_{dh}	12,0	kW
Air-to-water heat pump: $T_j = -15\text{ °C}$ (where $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Power in cyclic heating mode	P_{cyc}		kW
Decreased efficiency in cyclic mode**	C_{dh}	0,9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,022	kW
Thermostat-off mode	P_{TO}	0,022	kW
Standby mode	P_{SB}	0,022	kW
Crankcase heater mode	P_{CK}	0,000	kW
Other parameters			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	26/54	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	121	%
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	1,88	-
$T_j = +2\text{ °C}$	COP_d or PER_d	2,88	-
$T_j = +7\text{ °C}$	COP_d or PER_d	4,29	-
$T_j = +12\text{ °C}$	COP_d or PER_d	6,14	-
$T_j = (T_{biv})$ - bivalent temperature mode	COP_d or PER_d	1,88	-
T_j = operating limit temperature	COP_d or PER_d	1,74	°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	-10	°C
Cyclical efficiency	COP_{cyc} or PER_{cyc}	-	- or %
Heating water limit operating temperature	WTOL	-	°C
Supplementary heater			
Rated heat output*	P_{sup}	3/6/9	kW
Type of energy input	Electricity		
Other items			
Air-to-water heat pump: rated air flow rate, outdoor	-	7080	m ³ /h
For heat pump combination heater			
Water heating energy efficiency	η_{wh}	120	%
Contact details	Ukmerges st. 364-3, Vilnius, Lithuania		

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

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