



# TECHNICAL DATA

INDUSTRIAL GEOTHERMAL HEAT PUMPS **IGLU® Max**



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# Technical data of IGLU® Max 24÷90 kW fixed capacity brine/water heat pumps

	Units	24 kW	36 kW	45 kW	70 kW	90 kW
<b>Brine/water used</b>						
Thermal power (B0/W35) <sup>1)</sup>	kW	24,85	35,5	43,98	71,08	87,3
Thermal power (B0/W45) <sup>1)</sup>	kW	23,59	33,7	42,65	66,15	82,5
COP (B0/W35) <sup>1)</sup>	-	4,54	4,65	4,45	4,58	4,53
COP (B0/W45) <sup>1)</sup>	-	3,37	3,74	3,59	3,52	3,48
SCOP (B0/W35)	-	5,71	5,76	5,77	5,75	5,66
SCOP (B0/W45)	-	4,14	4,22	4,30	4,42	4,22
Refrigeration capacity (B24/W10) <sup>2)</sup>	kW	26,0	40,1	49,4	80,8	108,0
<b>Brine circuit</b>						
Rated flow (DT = 3K) <sup>3)</sup>	m³/h	8	9	12	17	23
Permissible external pressure drop <sup>3)</sup>	kPa	23	16	16	16	12
Maximum pressure	bar			4		
Volume (internal)	l		7			22
Operating temperature	°C			from -10 to +20		
Connection (Cu)	mm		28	35		50
<b>Compressor</b>						
Type				Spiral "Scroll"		
Mass of refrigerant R 410A <sup>4)</sup>	kg	-	-	-	12,8	15,30
Mass of refrigerant R 407C <sup>4)</sup>		2.8	3,5	3,8	-	-
Maximum pressure	bar		45			48
Rated flow (DT = 7K)	m³/h	4	6	6,4	10	13
Min. flow temperature	°C			15		
Max. flow temperature	°C			65		
Max. permissible operating pressure	bar			4,0		
Connection (Cu)	mm		28	35		50
<b>Power network connection values</b>						
Electrical connections				3/N/PE 400V/ 50Hz		
Inertial fuse; with electric heater 3kW/ 6kW/ 9kW	A					
Compressor rated power (B0/W35)	kW	5,2	7,6	10,1	14,65	19,25
Max. current with inrush current limiter	A	25	32	32	48,7	65,4
Type of protection	IP			X1		
<b>General information</b>						
Permissible ambient temperatures	°C			from +10 to +35		
Sound power level <sup>5)</sup>	dBA	55	56	56	57	64
Dimensions (width x depth x height)	mm		620 x 800 x 1200		1300 x 900 x 1200	
Weight (without packaging)	kg	150	170	220	475	520

1) With internal pump according to EN 14511

2) On models with an active cooling module

3) With ethylene glycol

4) Greenhouse potential, GWP100 = 1774

5) According to EN 3743-1



## Technical data of IGLU® Max 120÷240 kW two-stage brine/water heat pumps

	Units	120 kW	150 kW	180 kW	240 kW
<b>Brine/water used</b>					
Thermal power (B0/W35) <sup>1)</sup>	kW	119,8	145,0	181,9	231,8
COP (B0/W35) <sup>1)</sup>	-	4,69	4,69	4,67	4,75
Refrigeration capacity (B24/W10) <sup>2)</sup>	kW	135,4	163,9	205,6	261,9
<b>Brine circuit</b>					
Rated flow (DT = 3K) <sup>3)</sup>	m³/h	27,9	35,6	43,5	57,6
Permissible external pressure drop <sup>3)</sup>	kPa	30	34	38	51
Maximum pressure	bar		4		
Volume (internal)	l	29,4	38,6	48,3	62,6
Operating temperature	°C		from -10 to +20		
Connection (Cu)	mm		65		
<b>Compressor</b>					
Type			Spiral "Scroll"		
Mass of refrigerant R 410A <sup>4)</sup>	kg	23,6	27,6	36,0	48,4
Maximum pressure	bar		42		
Rated flow (DT = 7K)	m³/h	14,1	18,5	23,8	31,9
Min. flow temperature	°C		15		
Max. flow temperature	°C		65		
Max. permissible operating pressure	bar		6		
Connection (Cu)	mm		65		
<b>Power network connection values</b>					
Electrical connections		3/N/PE 400V/50Hz		3/N/PE 415V /50Hz	
Compressor rated power (B0/W35)	kW	25,56	30,9	38,9	48,8
Max. current with inrush current limiter	A	98	112	144	182
Type of protection	IP		IP20		
<b>General information</b>					
Permissible ambient temperatures	°C		from +10 to +35		
Sound power level <sup>5)</sup>	dBA	62	65	65	66
Dimensions (width x depth x height)	mm		910x2500x1600		
Weight (without packaging)	kg	830	1160	1220	1380

1) With internal pump according to EN 14511

2) On models with an active cooling module

3) With ethylene glycol

4) Greenhouse potential, GWP100 = 1774

5) According to EN 3743-1



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

## Technical data of IGLU® Max 24 fixed capacity heat pump

Model	IGLU Max 24
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	Parameter	Conventional representation	Value	Measurement unit
Rated thermal power	P <sub>rated</sub>	24,85	kW	Seasonal energy efficiency for space heating	η <sub>s</sub>	151	%
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T <sub>j</sub>				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	24,07	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	4,56	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	24,64	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	4,65	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	25,18	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	4,79	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	25,85	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	4,98	-
T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	P <sub>dh</sub>	-	kW	T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	COP <sub>d</sub> or PER <sub>d</sub>	-	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	-	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	-	°C
Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	P <sub>dh</sub>	-	kW	Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	COP <sub>d</sub> arba PER <sub>d</sub>	-	
Bivalent temperature	T <sub>biv</sub>	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P <sub>cych</sub>	-	kW	Cyclical efficiency	COP <sub>cyc</sub> or PER <sub>cyc</sub>	-	- or %
Decreased efficiency in cyclic mode	C <sub>dh</sub>	0.99	—	Heating water limit operating temperature	WTOL	65	°C
<b>Power consumption in modes other than active mode</b>							
Off mode	P <sub>OFF</sub>	0.009	kW	<b>Supplementary heater</b>			
Thermostat-off mode	P <sub>TO</sub>	0.009	kW	Rated thermal power	P <sub>sup</sub>	-	kW
Standby mode	P <sub>Sb</sub>	0.064	kW	Type of energy input		Electricity	
Crankcase heater mode	P <sub>ck</sub>	-	kW				
<b>Other parameters</b>							
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	—		m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	55	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	8		m <sup>3</sup> /h
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh				
Contact details	IGLU TECH UAB			Ozo str. 12A-1, Vilnius, Lithuania			

# Technical data of IGLU® Max 36 fixed capacity heat pump

Model		IGLU Max 36	
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	Parameter	Conventional representation	Value	Measurement unit			
Rated thermal power	P <sub>rated</sub>	35,5	kW	Seasonal energy efficiency for space heating	η <sub>s</sub>	154	%			
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T <sub>j</sub>				Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T <sub>j</sub>						
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	35,01	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,50	-			
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	35,33	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,61	-			
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	35,54	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,76	-			
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	35,67	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,84	-			
T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	P <sub>dh</sub>	-	kW	T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	COP <sub>d</sub> arba PER <sub>d</sub>	-	-			
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	-	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub> arba PER <sub>d</sub>	-	°C			
Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	P <sub>dh</sub>	-	kW	Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	COP <sub>d</sub> arba PER <sub>d</sub>	-				
Bivalent temperature	T <sub>biv</sub>	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C			
Power in cyclic heating mode	P <sub>cych</sub>	-	kW	Cyclical efficiency	COP <sub>cyc</sub> or PER <sub>cyc</sub>	-	- or %			
Decreased efficiency in cyclic mode	C <sub>dh</sub>	0.99	—	Heating water limit operating temperature	WTOL	65	°C			
<b>Power consumption in modes other than active mode</b>										
Off mode	P <sub>OFF</sub>	0.009	kW	<b>Supplementary heater</b>						
Thermostat-off mode	P <sub>TO</sub>	0.009	kW	Rated thermal power	P <sub>sup</sub>	-	kW			
Standby mode	P <sub>SB</sub>	0.064	kW	Type of energy input	Electricity					
Crankcase heater mode	P <sub>CK</sub>	-	kW							
<b>Other parameters</b>										
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	—		m <sup>3</sup> /h			
Sound power level, indoors/outdoors	L <sub>WA</sub>	56	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	9		m <sup>3</sup> /h			
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh							
Contact details	IGLU TECH UAB			Ozo str. 12A-1, Vilnius, Lithuania						

# Technical data of IGLU® Max 45 fixed capacity heat pump

Model		IGLU Max 45	
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	Parameter	Conventional representation	Value	Measurement unit				
Rated thermal power	P <sub>rated</sub>	43,98	kW	Seasonal energy efficiency for space heating	η <sub>s</sub>	142	%				
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T <sub>j</sub>							Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	44,37	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,61	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	44,78	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,72	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	44,96	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,88	-				
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	45,37	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,97	-				
T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	P <sub>dh</sub>	-	kW	T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	COP <sub>d</sub> arba PER <sub>d</sub>	-	-				
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	-	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub> arba PER <sub>d</sub>	-	°C				
Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	P <sub>dh</sub>	-	kW	Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	COP <sub>d</sub> arba PER <sub>d</sub>	-					
Bivalent temperature	T <sub>biv</sub>	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C				
Power in cyclic heating mode	P <sub>cych</sub>	-	kW	Cyclical efficiency	COP <sub>cyc</sub> or PER <sub>cyc</sub>	-	- or %				
Decreased efficiency in cyclic mode	C <sub>dh</sub>	0.99	—	Heating water limit operating temperature	WTOL	65	°C				
<b>Power consumption in modes other than active mode</b>											
Off mode	P <sub>OFF</sub>	0.009	kW	Supplementary heater							
Thermostat-off mode	P <sub>TO</sub>	0.009	kW	Rated thermal power	P <sub>sup</sub>	-	kW				
Standby mode	P <sub>SB</sub>	0.064	kW	Type of energy input	Electricity						
Crankcase heater mode	P <sub>CK</sub>	-	kW								
<b>Other parameters</b>											
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	—		m <sup>3</sup> /h				
Sound power level, indoors/outdoors	L <sub>WA</sub>	56	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger		12	m <sup>3</sup> /h				
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh								
Contact details	IGLU TECH UAB			Ozo str. 12A-1, Vilnius, Lithuania							

# Technical data of IGLU® Max 70 fixed capacity heat pump

Model		IGLU Max 70	
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	Parameter	Conventional representation	Value	Measurement unit				
Rated thermal power	P <sub>rated</sub>	70	kW	Seasonal energy efficiency for space heating	η <sub>s</sub>	135	%				
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T <sub>j</sub>							Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	70,04	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,59	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	70,60	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,64	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	71,16	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,78	-				
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	71,78	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,97	-				
T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	P <sub>dh</sub>	-	kW	T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	COP <sub>d</sub> arba PER <sub>d</sub>	-	-				
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	-	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub> arba PER <sub>d</sub>	-	°C				
Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	P <sub>dh</sub>	-	kW	Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	COP <sub>d</sub> arba PER <sub>d</sub>	-					
Bivalent temperature	T <sub>biv</sub>	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C				
Power in cyclic heating mode	P <sub>cyc</sub>	-	kW	Cyclical efficiency	COP <sub>cyc</sub> or PER <sub>cyc</sub>	-	- or %				
Decreased efficiency in cyclic mode	C <sub>dh</sub>	0.99	—	Heating water limit operating temperature	WTOL	65	°C				
<b>Power consumption in modes other than active mode</b>											
Off mode	P <sub>OFF</sub>	0.009	kW	Supplementary heater							
Thermostat-off mode	P <sub>TO</sub>	0.009	kW	Rated thermal power	P <sub>sup</sub>	-	kW				
Standby mode	P <sub>SB</sub>	0.064	kW	Type of energy input	Electricity						
Crankcase heater mode	P <sub>ck</sub>	-	kW								
<b>Other parameters</b>											
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	—		m <sup>3</sup> /h				
Sound power level, indoors/outdoors	L <sub>WA</sub>	57	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger		17	m <sup>3</sup> /h				
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh								
Contact details	IGLU TECH UAB			Ozo str. 12A-1, Vilnius, Lithuania							

# Technical data of IGLU® Max 90 fixed capacity heat pump

Model		IGLU Max 90	
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	Parameter	Conventional representation	Value	Measurement unit			
Rated thermal power	P <sub>rated</sub>	87	kW	Seasonal energy efficiency for space heating	η <sub>s</sub>	131	%			
Declared part load heating capacity at 20 °C indoor temperature and outdoor temperature T <sub>j</sub>						Declared efficiency coefficient or ratio of primary energy to radiant heat output at room temperature 20 °C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	87,03	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,51	-			
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	87,35	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,62	-			
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	87,55	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,74	-			
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	87,63	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> arba PER <sub>d</sub>	4,81	-			
T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	P <sub>dh</sub>	-	kW	T <sub>j</sub> = (T <sub>biv</sub> ) - bivalent temperature mode	COP <sub>d</sub> arba PER <sub>d</sub>	-	-			
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	-	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub> arba PER <sub>d</sub>	-	°C			
Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	P <sub>dh</sub>	-	kW	Air-to-water heat pump: T <sub>j</sub> = -15°C (where TOL <-20°C)	COP <sub>d</sub> arba PER <sub>d</sub>	-				
Bivalent temperature	T <sub>biv</sub>	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C			
Power in cyclic heating mode	P <sub>cych</sub>	-	kW	Cyclical efficiency	COP <sub>cyc</sub> or PER <sub>cyc</sub>	-	- or %			
Decreased efficiency in cyclic mode	C <sub>dh</sub>	0.99	—	Heating water limit operating temperature	WTOL	65	°C			
<b>Power consumption in modes other than active mode</b>										
Off mode	P <sub>OFF</sub>	0.009	kW	<b>Supplementary heater</b>						
Thermostat-off mode	P <sub>TO</sub>	0.009	kW	Rated thermal power	P <sub>sup</sub>	-	kW			
Standby mode	P <sub>SB</sub>	0.064	kW	Type of energy input	Electricity					
Crankcase heater mode	P <sub>ck</sub>	-	kW							
<b>Other parameters</b>										
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	—		m <sup>3</sup> /h			
Sound power level, indoors/outdoors	L <sub>WA</sub>	64	dB	Ground-to-water heat pump: water flow, outdoor heat exchanger	23		m <sup>3</sup> /h			
Emissions of nitrogen oxides	NO <sub>x</sub>	-	mg/kWh							
Contact details	IGLU TECH UAB			Ozo str. 12A-1, Vilnius, Lithuania						