Technical data of IGLU® Aleut 7 WTI variable capacity heat pump with integrated boiler

、 				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 wi	th supplemen	tary hea	ater		Yes				
Supplem	entary heater	is used		No					
ameters applied using a	average temp	erature	are declared. I	Parameters are declared	under average	climatic co	nditions.		
Parameter	Conventional representation	Value	Measurement unit	Parameter	Conventional representation	Value	Measuremer unit		
Rated thermal power	P _{rated}	7	kW	Seasonal energy efficiency for space heating	η _s	150	%		
Declared part load heat temperature and outdoo			indoor	Declared efficiency of radiant heat output a temperature T _j	t room temperat	o of primar ure 20 °C	y energy to and outdoor		
T _j = − 7 °C	P _{dh}	5,705	kW	T _j = − 7 °C	COP _d arba PER _d	4,855	-		
T _j = + 2 °C	P _{dh}	3,403	kW	T _j = + 2 °C	COP _d arba PER _d	5,702	-		
T _j = + 7 °C	P _{dh}	2,202	kW	T _j = + 7 °C	COP _d arba PER _d	6,153	-		
T _j = + 12 °C	P _{dh}	2,103	kW	T _j = + 12 °C	COP _d arba PER _d	5,774	-		
T_j= (T_{biv}) - bivalent temperature mode	P _{dh}	-	kW	T _j = (T _{biv})- bivalent temperature mode	COP _d arba PER _d	-	-		
T _j = operating limit temperature	P _{dh}	-	kW	T _j = operating limit temperature	COP _d arba PER _d	_	°C		
Air-to-water heat pump: T j = -15°C (where TOL <-20°C)	P _{dh}	-	kW	Air-to-water heat pump: T _j = -15°C (where TOL <-20°C)	COP _d arba PER _d	-			
Bivalent temperature	T _{biv}	-	°C	Air-to-water heat pump: operating limit temperature	TOL	-	°C		
Power in cyclic heating mode	P _{cych}	1,5-7	kW	Cyclical efficiency	COP _{cyc} or PER _{cyc}	-	– or %		
Decreased efficiency in cyclic mode	C_{dh}	0.99	_	Heating water limit operating temperature	WTOL	65	°C		
Power consumption in	n modes othe	er than	active mode	Supplementary hea	iter				
Off mode	P _{OFF}	0.009	kW	Rated thermal power	P _{sup}	3/6/9	kW		
Thermostat-off mode	P _{TO}	0.009	kW	Type of energy input		Electricity			
Standby mode	P _{SB}	0.064	kW						
Crankcase heater mode	Р _{СК}	-	kW						
Other parameters									
Capacity control	fixed			Air-to-water heat pump: rated air flow rate, outdoor	_		m³/h		
Sound power level, indoors/outdoors Emissions of nitrogen	Lwa	33-44		Ground-to-water heat pump: water flow, outdoor heat		2.0	m³/h		
oxides		-	mg/kWh	exchanger	morgon at 264				
Contact dataila									

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Contact details

IGLU TECH UAB

Technical data of IGLU® Aleut 12 WTI variable capacity heat pump with integrated boiler

`	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
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	Measuremei unit
Rated thermal power	P _{rated}	12	kW		Seasonal energy efficiency for space heating	η_s	157	%
Declared part load hea temperature and outdo			indoor		Declared efficiency of radiant heat output a temperature T _j	at room temperat		
T _j = − 7 °C	P _{dh}	9,403	kW		$T_j = -7 \ ^\circ C$	COP _d arba PER _d	4,772	-
T _j = + 2 °C	P _{dh}	5,705	kW		T _j = + 2 °C	COP _d arba PER _d	5,821	-
T _j = + 7 °C	P _{dh}	3,702	kW		T _j = + 7 °C	COP _d arba PER _d	6,403	-
T _j = + 12 °C	P _{dh}	2,901	kW		T _j = + 12 °C	COP _d arba PER _d	5,975	-
T _j = (T _{biv})- bivalent temperature mode	P _{dh}	-	kW		T _j = (T _{biv})- bivalent temperature mode	COP _d arba PER _d	-	-
T _j = operating limit temperature	P _{dh}	-	kW		T _j = operating limit temperature	COP _d arba PER _d	-	°C
Air-to-water heat pump: T _j = -15°C (where TOL <-20°C)	P _{dh}	-	kW		Air-to-water heat pump: T _j = -15°C (where TOL <-20°C)	COP _d arba PER _d	-	
Bivalent temperature	T _{biv}	-	°C		Air-to-water heat pump: operating limit temperature	TOL	-25	°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}	0.99	—		Heating water limit operating temperature	WTOL	65	°C
Power consumption i	n modes oth	er than	active mode	Ī	Supplementary hea	ater	·	
Off mode	P _{OFF}	0.009	kW		Rated thermal power	P _{sup}	3/6/9	kW
Thermostat-off mode	P _{TO}	0.009	kW	Ī	Type of energy input		Electricity	
Standby mode	P _{SB}	0.064	kW					
Crankcase heater mode	Рск	-	kW					
Other parameters				Ī				
Capacity control	fixed				Air-to-water heat pump: rated air flow rate, outdoor	_		m³/h
Sound power level, indoors/outdoors	Lwa	33-44	dB		Ground-to-water heat pump: water		2.0	m³/h
Emissions of nitrogen oxides	NO _x	-	mg/kWh		flow, outdoor heat exchanger		2.0	111-/11
Contact details	IGLU TECH	UAB			Uk	merges st. 364-	3, Vilnius,	Lithuania

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

`	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		Measurement unit		Parameter	Conventional representation	Value	Measuremei unit
Rated thermal power	P _{rated}	16	kW		Seasonal energy efficiency for space heating	η _s	168	%
Declared part load hea temperature and outdo			indoor		Declared efficiency of radiant heat output a temperature T _i			
$\mathbf{T}_{j} = -7 \ ^{\circ}\mathrm{C}$	P _{dh}	13.9	kW		$T_j = -7 \ ^\circ C$	COP _d arba PER _d	5,04	_
T _j = + 2 °C	P _{dh}	8.4	kW		T _j = + 2 °C	COP _d arba PER _d	5,91	-
T _j = + 7 °C	P _{dh}	5,4	kW		T _j = + 7 °C	COP _d arba PER _d	6,65	-
T _j = + 12 °C	P _{dh}	4,3	kW		T _j = + 12 °C	COP _d arba PER _d	6,49	_
T _j = (T _{biv})- bivalent temperature mode	P _{dh}	-	kW		T _j = (T _{biv})- bivalent temperature mode	COP _d arba PER _d	-	_
T _j = operating limit temperature	P _{dh}	-	kW		T _j = operating limit temperature	COP _d arba PER _d	-	°C
Air-to-water heat pump: T _j = -15°C (where TOL <-20°C)	P _{dh}	-	kW		Air-to-water heat pump: T _j = -15°C (where TOL <-20°C)	COP _d arba PER _d	-	
Bivalent temperature	T _{biv}	-	°C		Air-to-water heat pump: operating limit temperature	TOL	-	°C
Power in cyclic heating mode	P _{cych}	4÷18	kW		Cyclical efficiency	COP _{cyc} or PER _{cyc}	-	– or %
Decreased efficiency in cyclic mode	C _{dh}	0.99	—		Heating water limit operating temperature	WTOL	65	°C
Power consumption i	n modes oth	er than	active mode	Ī	Supplementary hea	iter		
Off mode	P _{OFF}	0.009	kW		Rated thermal power	P _{sup}	3/6/9	kW
Thermostat-off mode	P _{TO}	0.009	kW		Type of energy input	l	Electricity	
Standby mode	P _{SB}	0.064	kW					
Crankcase heater mode	Рск	-	kW					
Other parameters								
Capacity control	fixed				Air-to-water heat pump: rated air flow rate, outdoor	_		m³/h
Sound power level, indoors/outdoors	Lwa	33-44	dB		Ground-to-water heat pump: water		3.0	m³/h
Emissions of nitrogen oxides	NO _x	-	mg/kWh		flow, outdoor heat exchanger		3.0	111-/11
Contact details	IGLU TECH	UAB			Uk	merges st. 364-	3, Vilnius,	Lithuania