

 **IGLOO**

**MultiTherma**

# MultiTherma 21

Product information / Data sheet  
Declaration of conformity / Energy label

**A+++**  
**A+++**

**COP**  
**5,5**



Cooperation  
with PV



Manufacturer's  
Warranty



Factory  
Service



GSM | LTE  
connectivity



**R290**





## **IGLOO MultiTherma**

IGLOO MultiTherma is a line of propane, inverter air-to-water heat pumps in a monoblock design, designed and manufactured by IGLOO - a Polish leader in the refrigeration industry since 1986 with experience in energy-saving.

The product is designed for new and modernized homes, commercial and industrial buildings. IGLOO MultiTherma is a product of the highest efficiency level, as confirmed by very high COP efficiency coefficients of 5.50 and SCOP of 5.36. The device operates quietly and in a way that meets the requirements of work in the Polish climatic zone. It is worth emphasizing that the heat pump operates based on patented technological solutions and the best components.

## **IGLOO**

Heat pump for home and business | **MultiTherma**

**IGLOO MultiTherma** has been distinguished with prestigious awards granted by experts in the field of design and renewable energy. The production process has obtained certification from a reputable auditing company.

### The Gold Medal in the Heat Pumps category



The IGLOO MultiTherma heat pump won the Gold Medal in the Heat Pumps category at the 25th Anniversary International ENEX Fair, the most important renewable energy industry event in Poland. The award was given by a group of professionals and experts in the field of renewable energy.

-The Gold Medal of the International ENEX Fair is a very valuable distinction- said Robert Bialik, CEO of IGLOO. -It was awarded by a group of experts and professionals in the field of renewable energy. Our heat pump owes its high energy efficiency to patented solutions in the use of the environmentally friendly and ozone-safe refrigerant R290 (propane)."

### „Good Design” award in the category of New Technologies



IGLOO MultiTherma has received the „Good Design” award in the New Technologies category. „Good Design” is the oldest Polish design competition, existing for three decades. Its aim is to promote the best-designed products and services available on the Polish market. The „Good Design” mark is awarded by the Institute of Industrial Design, one of the oldest institutions dealing with industrial design in Europe.

### TÜV Rheinland Poland Certificate



Based on the assessment results of auditors, IGLOO is authorized to label its pressure equipment (heat pumps) with the TÜV Rheinland certificate. This confirms the compliance of the devices with the Pressure Equipment Directive 2014/68/EU.

The certifying body is a company with a 150-year tradition, operating on almost all continents. Over the years of its activity, TÜV Rheinland Polska has gained the position of an expert in the field of certification on the domestic market. TÜV experts from various industries, from heavy industry to the food industry, examine products and technologies for quality and safety. TÜV certificates are recognized and valued worldwide.




## Features of the device | Discover the advantages of a modern heat pump

-  **Highest level of energy efficiency**  
**A+++/A+++ | COP 5.5 SCOP 5.36**  
 Experience the most efficient heat pump on the market and cut your energy bills. The IGLOO MultiTherma is the heat pump with the highest energy efficiency rating.
-  **Factory service and technical support**  
 More than 80 service points nationwide. For your comfort and safety.
-  **5-year manufacturer's warranty**  
 5-year extended manufacturer's warranty.
-  **Highly efficient cooperation with photovoltaics | Auto-consumption | SG Ready**  
 Efficient cooperation with photovoltaic installations and maximisation of savings by storing excess energy produced in buffer tanks and underfloor heating.
-  **Maximum level of heat pump subsidy**  
 The IGLOO MultiTherma is an air-to-water heat pump with the highest level of performance and energy efficiency (COP 5.5 | A+++/A+++). Thanks to its parameters, you can obtain maximum subsidies from support programmes.
-  **A Polish product**  
 The IGLOO MultiTherma heat pump is a Polish product - designed by Polish engineers and manufactured in Poland in a company with 100% Polish capital. Specially designed for Polish climatic conditions.



-  **25-year warranty on the housing of the device**  
 The revolutionary Magnelis® coating provides unparalleled corrosion resistance and effectively protects the IGLOO MultiTherma heat pump housing against harmful factors atmospheric. You can enjoy durability and aesthetics for many years.
-  **AntiFreeze-System**  
 A range of solutions to ensure correct pump operation in the harshest conditions, such as hot vapour defrosting and insulated drip trays. Trouble-free and energy-efficient solutions that have been proven in business applications.
-  **Wireless connectivity (LTE | GSM) as standard**  
 Every IGLOO MultiTherma heat pump has GSM | LTE connectivity as standard, allowing your installer to check the parameters of your unit at any time and remotely make changes to its settings, reset it or restore it to factory settings. You can also check whether your heat pump is operating optimally using the modern and intuitive MultiTherma Mobile app.
-  **Wide range of applications**  
 The unit's specification and top quality components allow the IGLOO MultiTherma heat pump to be used in new homes, retrofitted homes as well as commercial buildings.



-  **Low noise level - Only 34 dB(A)\***  
 The IGLOO MultiTherma heat pump is one of the quietest units on the market.
-  **MultiTherma Mobile App**  
 Ability to remotely change the temperature and set, for example, a weekly or monthly schedule for the heat pump. Available from GOOGLE PLAY & APP STORE.
-  **Highly efficient operation in cascade systems**  
 For the most demanding commercial buildings.

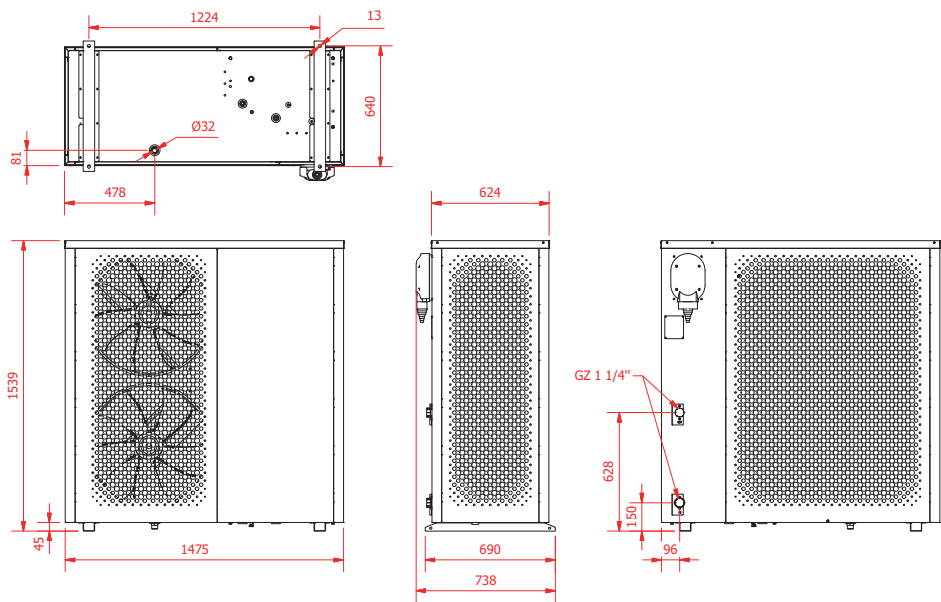
MultiTherma 21 | Data sheet



MultiTherma - air-to-water heat pump

It takes energy for heating - even at very low, sub-zero temperatures - from an inexhaustible source - the air. In this way, it supplies heat for heating the building and domestic water in an extremely environmentally friendly.


The MultiTherma heat pump can work with with photovoltaic cells and intelligent electrical systems (SG ready). This enables it to provide heating at virtually no extra cost.




IGLOO MultiTherma - outdoor unit 21 kW

CONSTRUCTION	
Type (based on the heat source)	air / water
Type (based on the construction)	monoblock
Type (based on the performance regulation)	smooth performance regulation
Compressor type	scroll
HEATING	
Energy efficiency class	A+++ / A+++
Rated heating capacity (A7/W35)	8,4 kW
Maximum heating capacity (A7/W35)	20,3 kW
COP (A7/W35)	5,50
Maximum heating capacity (A2/W35)	16,0 kW
COP (A2/W35)	4,25
Maximum heating capacity (A-7/W35)	12,3 kW
COP (A-7/W35)	3,42
Rated heating capacity (A7/W55)	7,4 kW
Maximum heating capacity (A7/W55)	18,6 kW
COP (A7/W55)	3,30
Maximum heating capacity (A2/W55)	15,0 kW
COP (A2/W55)	2,69
Maximum heating capacity (A-7/W55)	11,2 kW
COP (A-7/W55)	2,19
COOLING	
Maximum cooling capacity (A35/W18)	16,6 kW
EER (A35/W18)	3,60
REFRIGERATION SYSTEM	
Type of refrigerant	R290 (propane)
Refrigerant charge	2,20 kg
GWP (Global Warming Potential)	3
ODP (Ozone Depletion Potential)	0
CO <sub>2</sub> equivalent	0,066 t CO <sub>2</sub> e
PS pressure	30 bar
ELECTRICAL DATA	
Electric power supply	400 V / ~3 / 50 Hz
Maximum electrical power	6,9 kW
IP protection degree	IP24
UPPER HEAT SOURCE	
Heating agent connections	GZ 5/4" / GZ 5/4"
DIMENSIONS AND WEIGHT	
Dimensions	1475 x 738 x 1539 mm
Mounting foot spacing	1224 mm
Weight	305 kg
ACOUSTICS	
Sound pressure level	34 db (A)*

\* Sound pressure level measured at a distance of 3 m.



Winner of the  
GOOD DESIGN 2022 competition  
in the New Technologies category



Efficiency class  
A+++



LTE | GSM  
in STANDARD



Certified product  
at TÜV Rheinland



The product is on the list  
Green Devices and Materials



The Gold Medal at the  
International ENEX Fair



MultiTherma **BASIC**

Data sheet



The MultiTherma BASIC is the basic version of the indoor module for wall mounting. The module cooperates with the MultiTherma heat pump external unit.

In BASIC version the unit is equipped with a circulation pump, 3-way valve with actuator, electrical switchboard and modern control panel.

The unit is offered in 2 power ranges: 5-15 kW (for MultiTherma 12) and 16-25 kW (for MultiTherma 17 and MultiTherma 21), which allows a suitable selection and configuration for the outdoor unit.

**Touch control panel:**



**Specification:**

- circulation pump
- 3-way valve with actuator
- electrical switchboard
- user panel (control)
- temperature sensor kit

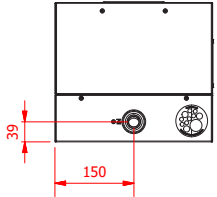
OPTION:  
MultiTherma BASIC HEATBOX - BASIC hydromodule adapter allowing control and operation of external electric heaters.



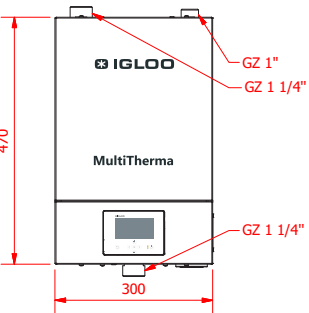
MultiTherma **BASIC 16-25 kW**

Device dimensions:

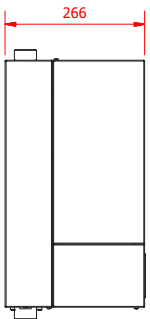
view from above:



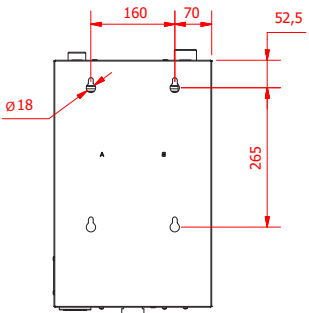
front view:



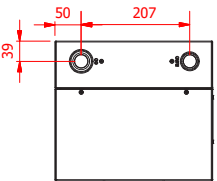
side view:



rear view:



view from below:



MultiTherma PRO

Data sheet



The MultiTherma PRO is a wall-mounted indoor module that works with the external unit of a heat pump MultiTherma.

In the PRO version the device is additionally equipped with an electric heater, automatic air vent, hydraulic coupling and safety valve.

The unit is offered in 2 power ranges: 5-15 kW (for MultiTherma 12) and 16-25 kW (for MultiTherma 17 and MultiTherma 21), which allows a suitable selection and configuration for the outdoor unit.

The MultiTherma PRO indoor unit is also equipped with a touch control panel.

Touch control panel:



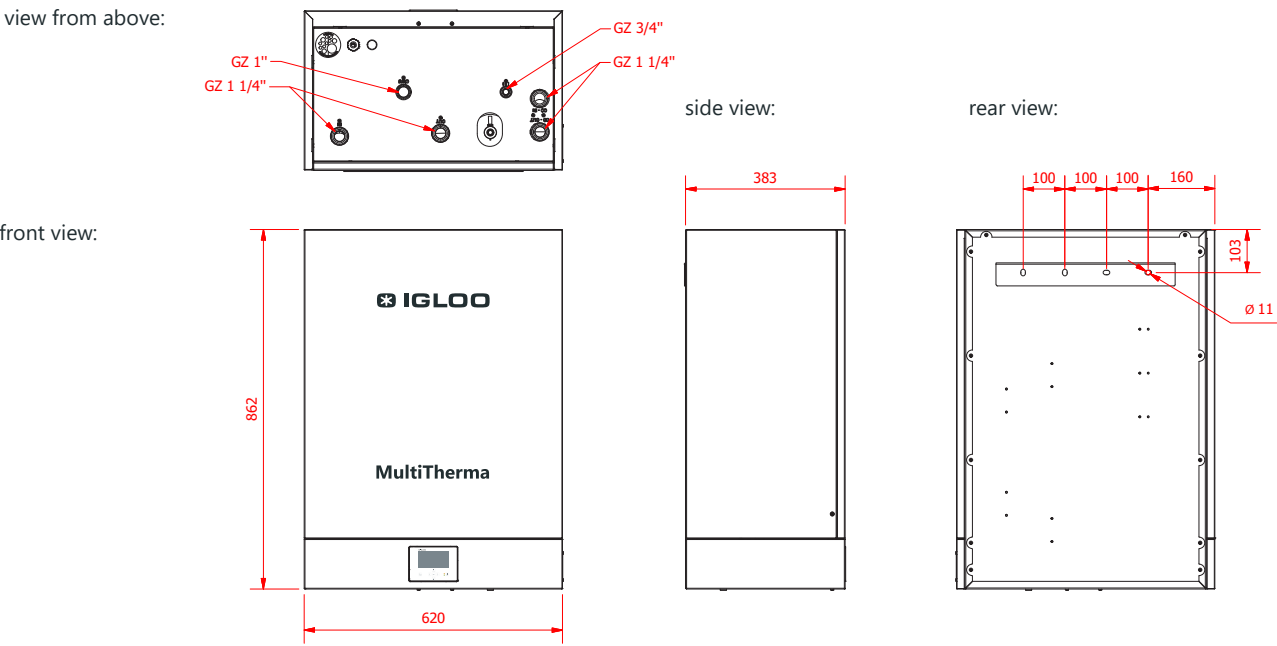
Specification:

- circulation pump
- 3-way valve with actuator
- electrical switchboard
- user panel (control)
- electric heater
- automatic air vent
- hydraulic coupling
- safety valve
- temperature sensor kit



MultiTherma PRO 16-25 kW

Device dimensions:



The contents of this catalog should be treated as business information. It does not constitute an offer within the meaning of Article 66 and subsequent of the Civil Code. The appearance of the supplied devices may differ from the photos and drawings. The company IGLOO Sp. z o. o. reserves the right to withdraw products from this catalog as well as to change their final parameters. Products in this catalog only constitute a part of the available trade offer. The employees of our sales department will provide detailed information on the product range.





## DECLARATION OF CONFORMITY EU

no 04/2023

IGLOO Sp. z o.o.  
Stary Wiśnicz 289, 32-720 Nowy Wiśnicz, Polska

Declares under our sole responsibility that the product:

Product name: **Air-to-water Heat Pump**  
Model: **MultiTherma 12, MultiTherma 17, MultiTherma 21**

complies with the requirements of the following New Approach Directives:

<b>Directive 2014/35/EU</b>	on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits
<b>Directive 2014/30/EU</b>	on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
<b>Directive 2014/68/EU</b>	on the harmonisation of the laws of the Member States relating to the making available on the market of pressure equipment
<b>Directive 2009/125/EC</b>	Establishing a framework for the setting of ecodesign requirements for energy-related products
<b>Directive 2011/65/EU</b>	on the restriction of the use of certain hazardous substances in electrical and electronic equipment

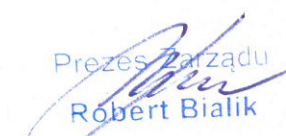
and detailed requirements contained in harmonized standards:

**EN 60335-1:2012 + A1 + A2 + A11 + A13 + A14 + A15**  
**EN 60335-2-40:2003 + A1 + A2 + A11 + A12 + A13**  
**EN IEC 55014-1:2021**  
**EN IEC 55014-2:2021**  
**EN IEC 61000-3-2:2019 + A1**  
**EN 61000-3-3:2013 + A1 + A2**  
**EN 378-2:2016**  
**EN 14511-2:2018**  
**EN 14511-3:2018**  
**EN 14511-4:2018**  
**EN 14825:2018**  
**EN 12102-1:2017**

Conformity assessment procedure according to Directive 2014/68/EU: **Module A2**

This declaration of conformity is the basis for the CE marking of the product.

**Stary Wiśnicz, 25.07.2023**  
Place and date of issue

  
Prezes Zarządu  
Robert Bialik  
Signature of an authorized person



[www.igloo.pl](http://www.igloo.pl)

IGLOO Sp. z o.o. (dawniej IGLOO Władysław Włodarczyk)  
Stary Wiśnicz, nr 289, 32-720 Nowy Wiśnicz  
tel.: +48 14 6621910, fax: +48 146621912, e-mail: [info@igloo.pl](mailto:info@igloo.pl)

NIP: 8681976604  
KRS: 0000822253  
REGON: 385251376

Zarejestr. w Sądzie Rejonowym dla Krakowa-Śródmieścia w Krakowie XII Wydział Gospodarczy Krajowego Rejestru Sądowego  
Kapitał zakładowy 6.000.000 zł  
(dane firmy przed przekształceniem Władysław Włodarczyk "IGLOO" Stary Wiśnicz, nr 289, 32-720 Nowy Wiśnicz NIP: 8680005040, REGON: 005711177)



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH  
certifies that



**IGLOO Sp. z o.o.**  
**Stary Wiśnicz 289**  
**32-720 Nowy Wiśnicz**  
**Poland**

has established and applies  
a Quality Management System for

**Engineering, Design,  
Manufacture, Sales and Service of  
Refrigeration Equipment for Trade and Catering Trade and  
Engineering and Production of Heat Pumps.**

An audit was performed, Order No. **707136234**.  
Proof has been furnished that the requirements  
according to

**ISO 9001:2015**

are fulfilled.

The certificate is valid from **2022-08-11** until **2024-08-23**.

Certificate Registration No.: **12 100 62620 TMS**.



Head of Certification Body  
Munich, 2022-08-11



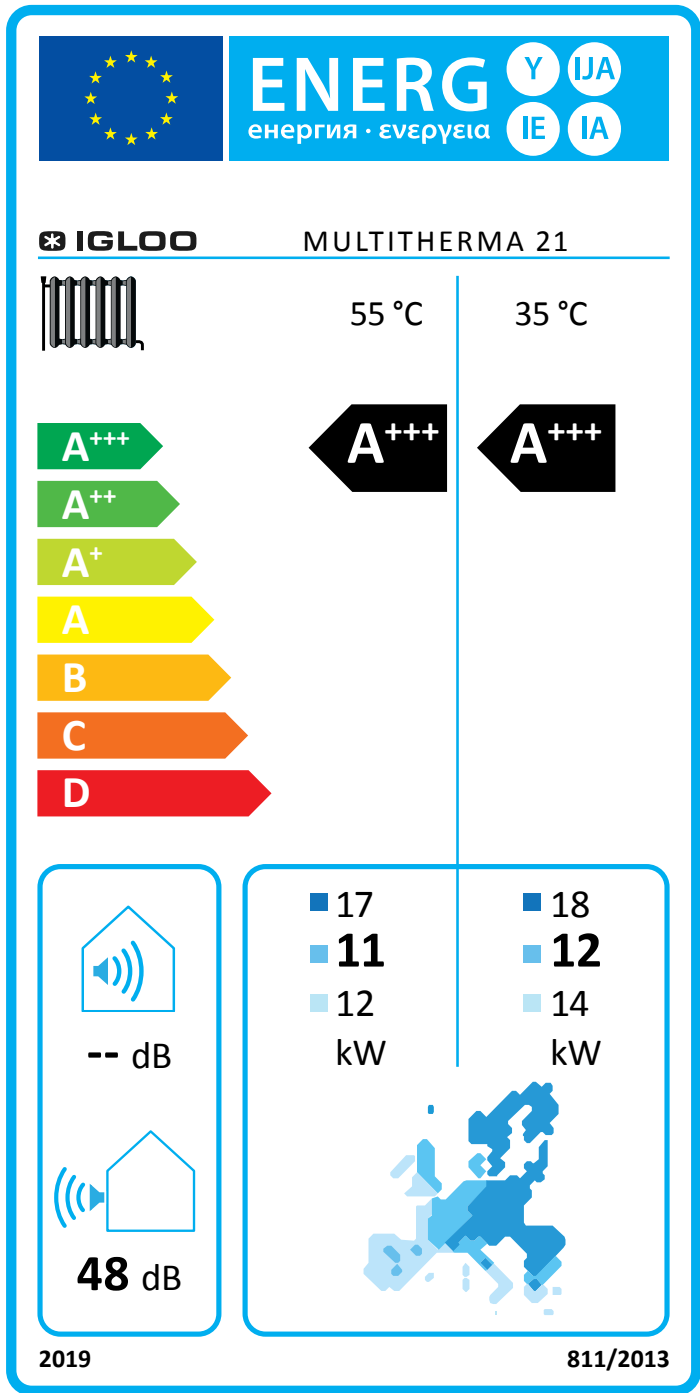
TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstrasse 57 • 80339 München • Germany  
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TÜV®

MS001-07/2019

ZERTIFIKAT ◆ CERTIFICATE ◆ 認 證 證 書 ◆ CERTIFICADO ◆ CERTIFICAT









DGPartners  
+33(0) 669 931 389  
[contact@dgpartners.fr](mailto:contact@dgpartners.fr)

1416 Avenue de Provence  
13170 Les Pennes Mirabeau FRANCE



Module A2

[www.tuv.com](http://www.tuv.com)  
ID 9000023917

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since 1986

[contact@dgpartners.fr](mailto:contact@dgpartners.fr)