Warmth from nature

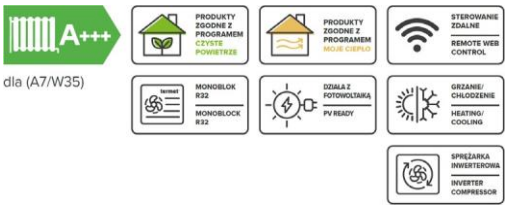
Technical card of heat pump

TERMET HEAT GOLD

Reversible air heat pump for heating and cooling

Termet Heat Gold

- monoblock construction - possibility of installation without f-gas certification by the installer
- reversible heat pump designed for both heating and cooling of rooms
- outdoor installation
- highly efficient inverter compressor
- durable Mitsubishi compressor
- electronic expansion valve
- ecological refrigerant R32 with low greenhouse effect potential GWP=675)
- extremely economical heat pump in A+++ class (A7/W35)
- housing made of sheet metal resistant to weather conditions
- quiet operation of the device
- possibility of cooperation of the pump with photovoltaic panels thanks to SmartGrid function
- outdoor temperature sensor built in the heat pump
- easy control of the heat pump operation by means of
- HPmulti controller - the controller is equipped with a touchscreen color display
- possibility to control and monitor heat pump operation parameters via the Internet using the ecoNET300 module
- HPmulti regulator and ecoNET300 module included , heat pump



Catalogue number	EAN code	Name
TPP9910.00.00.00/PL	5907510154146	TERMET HEAT GOLD 6 DC with electroheater
TPP9900.00.00.00/PL	5907510154054	TERMET HEAT GOLD 9 DC
TPP9901.00.00.00/PL	5907510154061	TERMET HEAT GOLD 12 DC
TPP9902.00.00.00/PL	5907510154078	TERMET HEAT GOLD 15 DC
TPP9903.00.00.00/PL	5907510154085	TERMET HEAT GOLD 18 DC

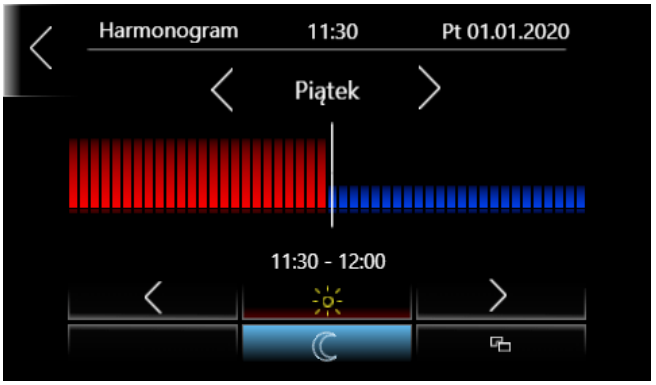
HPmulti

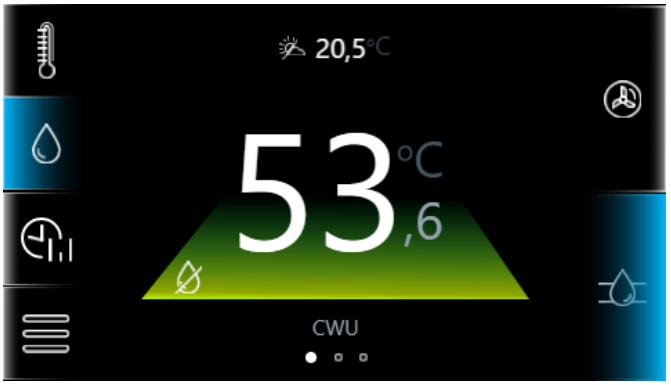
Easy control of heat pump operation with HPmulti controller:

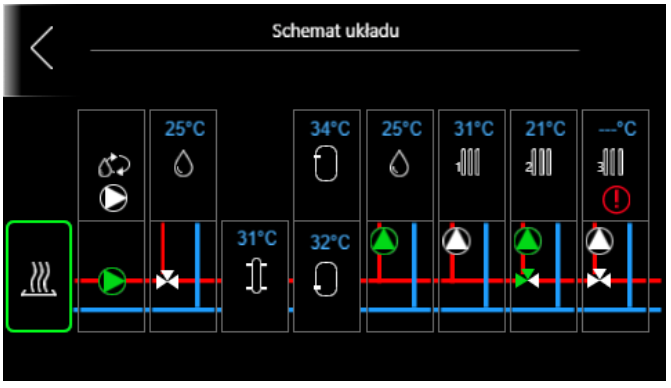
- touchscreen color display
- control of operation of 3 heating circuits (1 direct circuit, 2 circuits
- with mixer)
- control of operation of the domestic hot water circuit and circulation pump
- creation of time schedules separately for heat pump as heat source, heating circuits and domestic hot water
- clear and easy-to-use menu
- cooperation with additional devices e.g. room thermostat,
- intuitive and easy to use graphical menu for the user and clear transmission of information about the status of the heating system,
- heat pump controller with SmartGrid function allows intelligent management of heat pump cooperation with photovoltaic panels,
- the possibility of cooperation with an additional heat source,
- possibility to regulate the operation of the system depending on the outside temperature (weather function)
- easy software update with the help of a memory card
- parental control (allows you to lock the touch screen from children)

Internet module ecoNET300

- Ability to control and monitor the heat pump's operating parameters over the Internet via www.econet24.com or through an app (Adroid and iOS):ecoNET.apk,
- ecoNET.apk,
- ecoNET.app

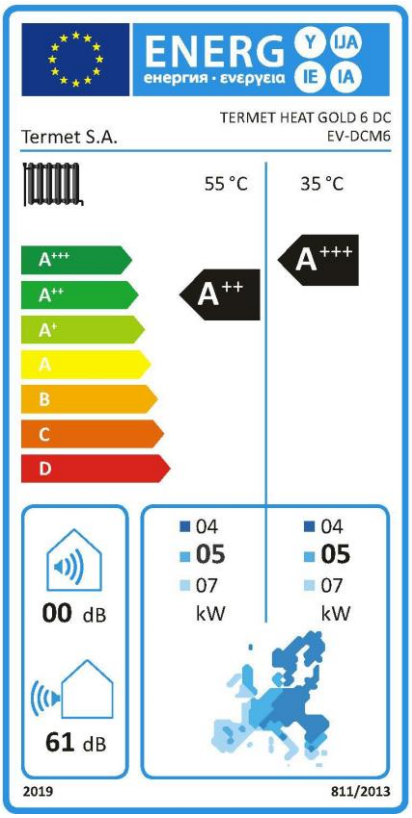




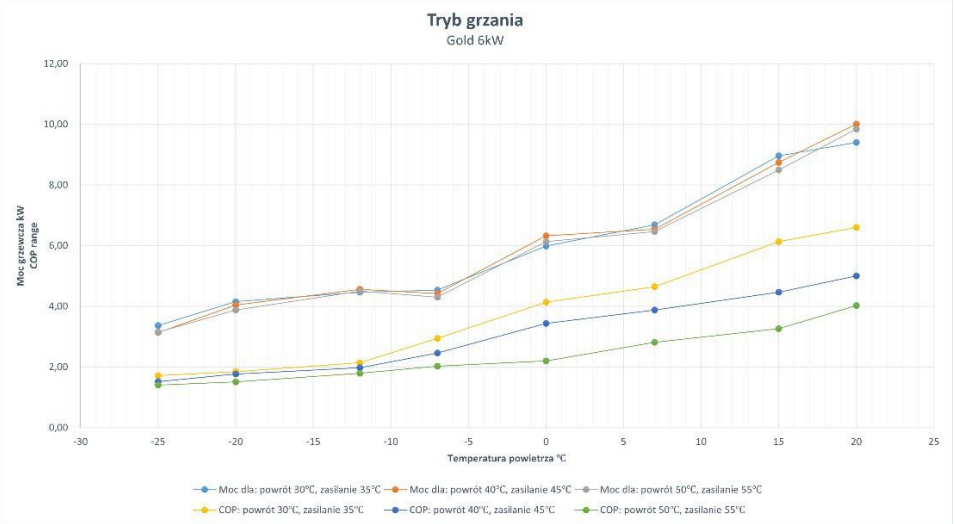


Termet Heat Gold 6 with 3 kW electro-heater

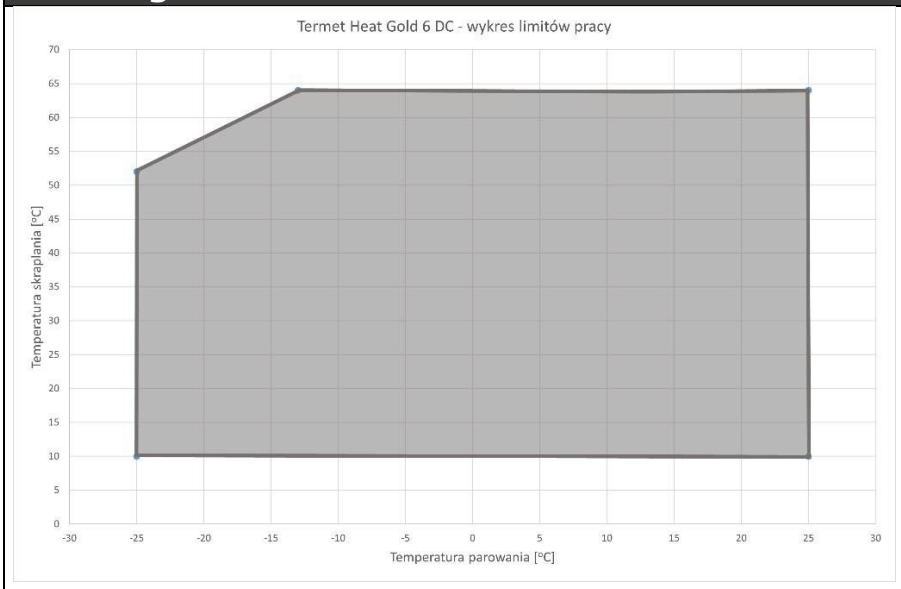
Energetic label



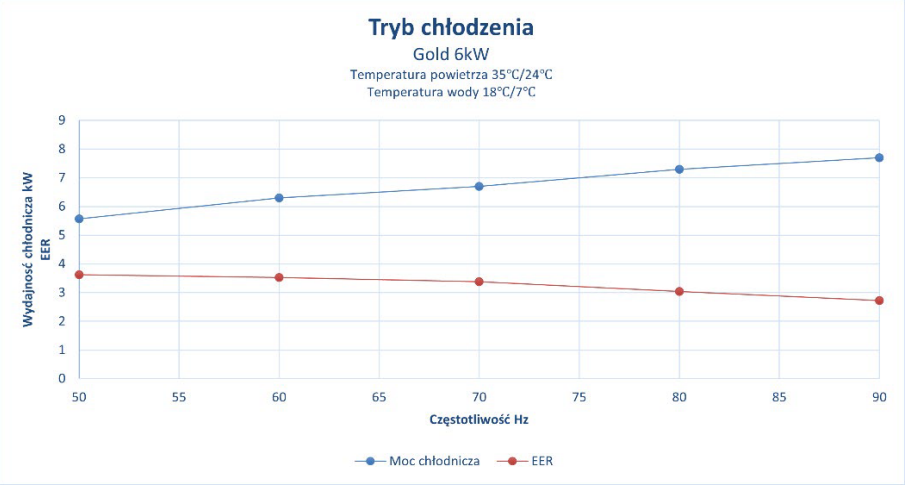
Heating mode



Working limits chart

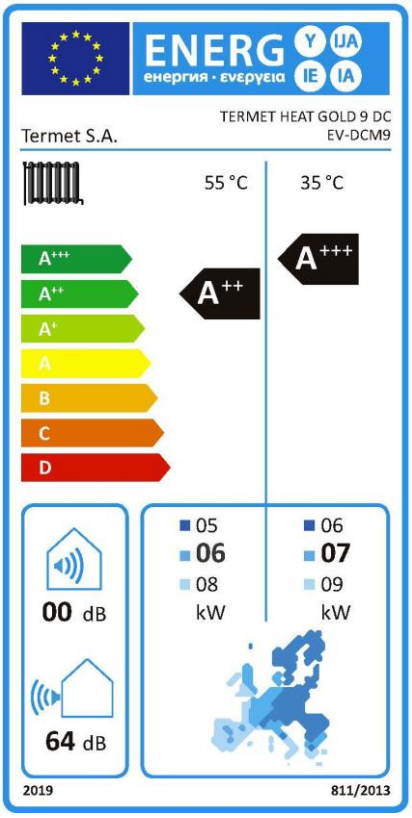


Cooling mode

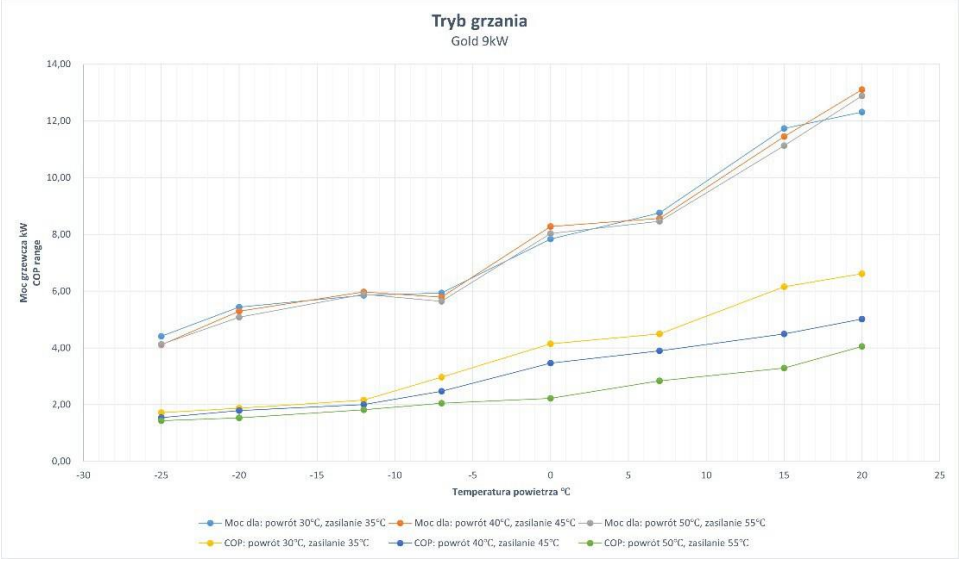


Termet Heat Gold 9

Energetic label



Heating mode



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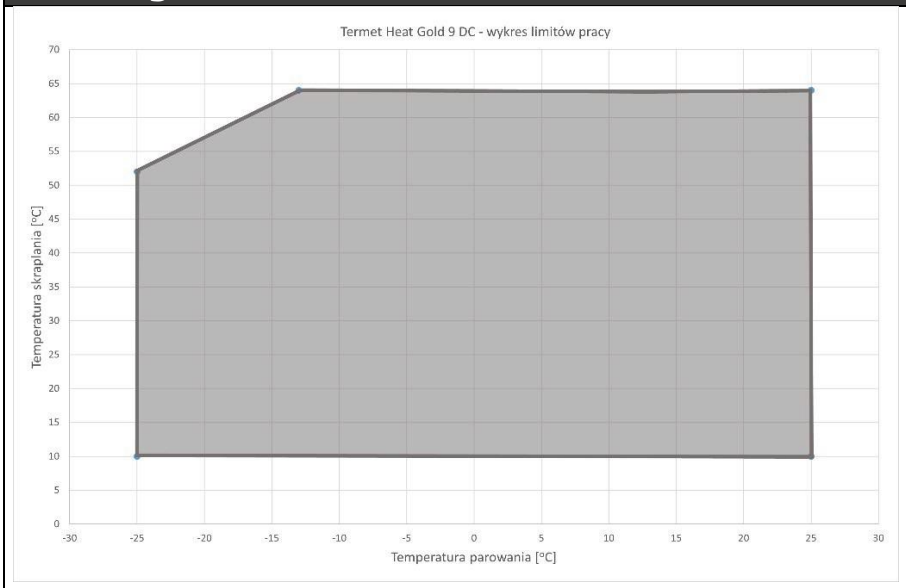

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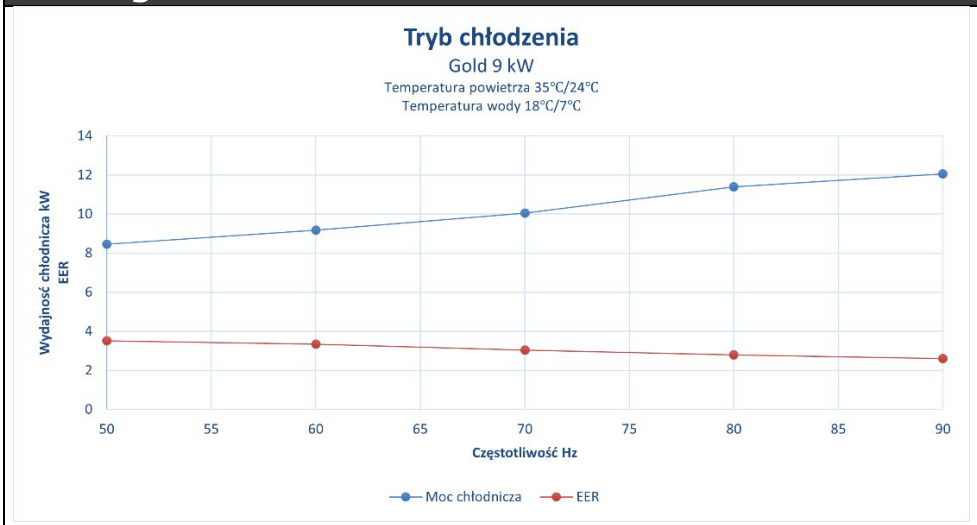
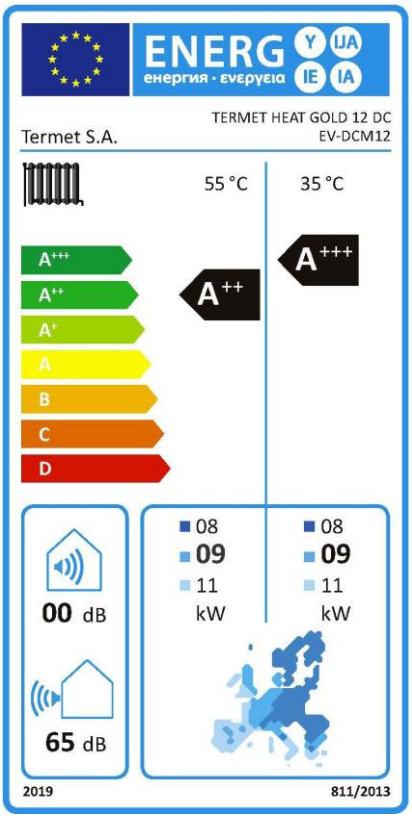
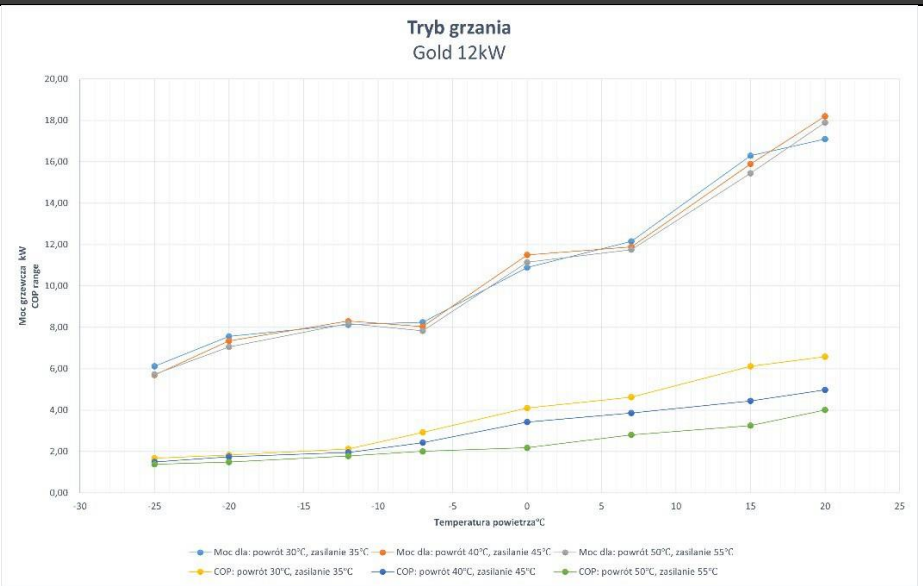


Termet Heat Gold 12

Energeting label



Heating mode



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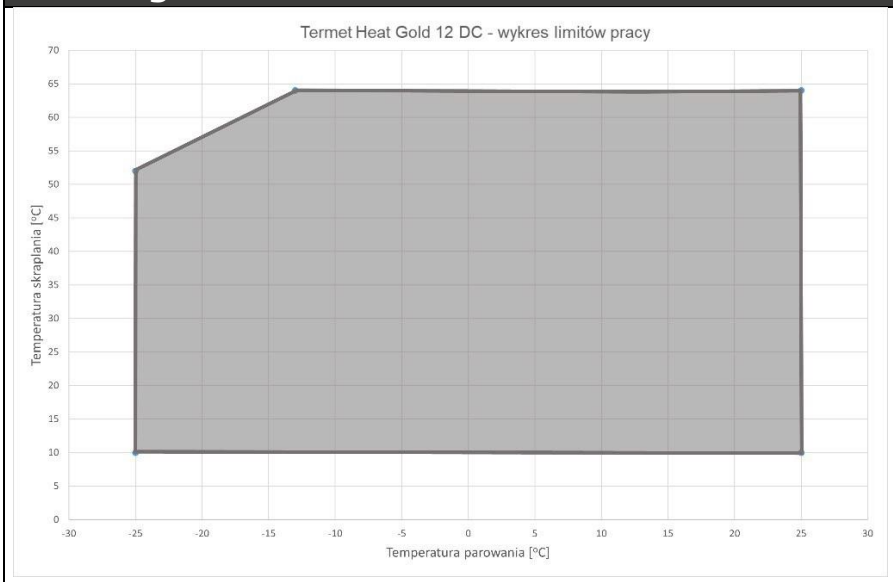
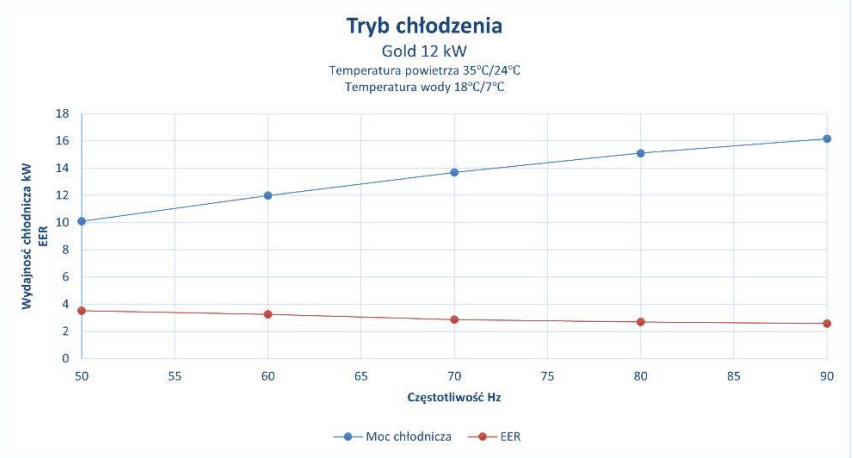
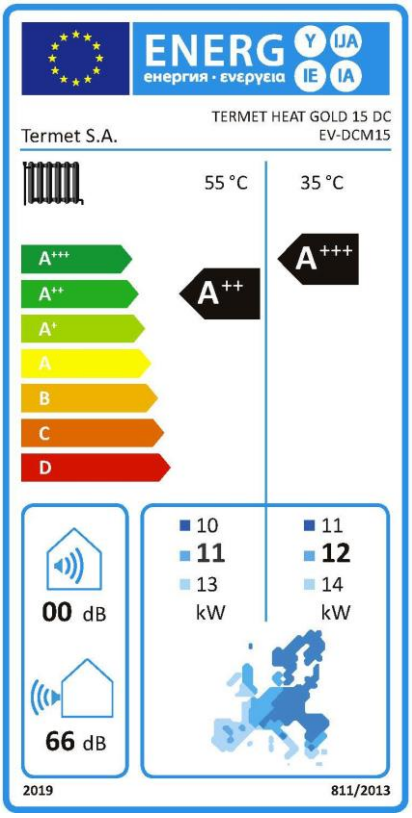


Cooling mode

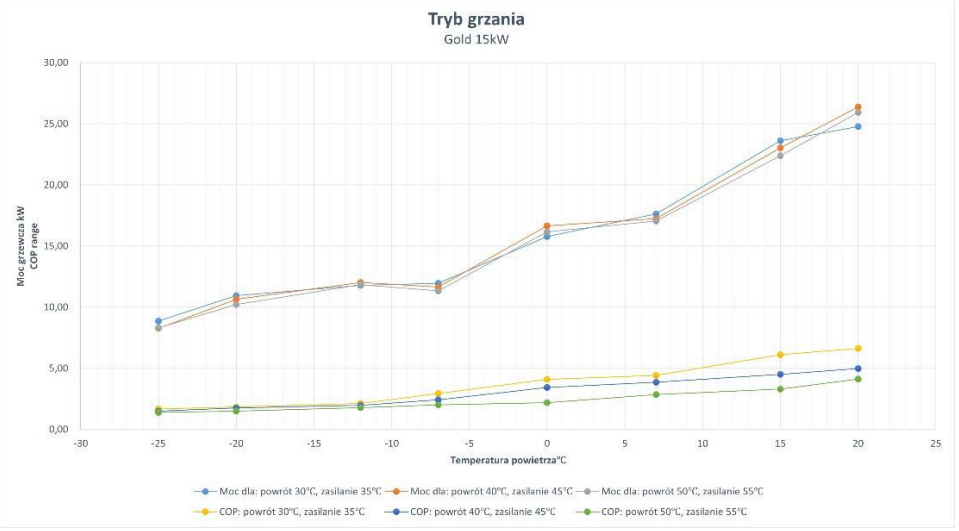


Termet Heat Gold 15

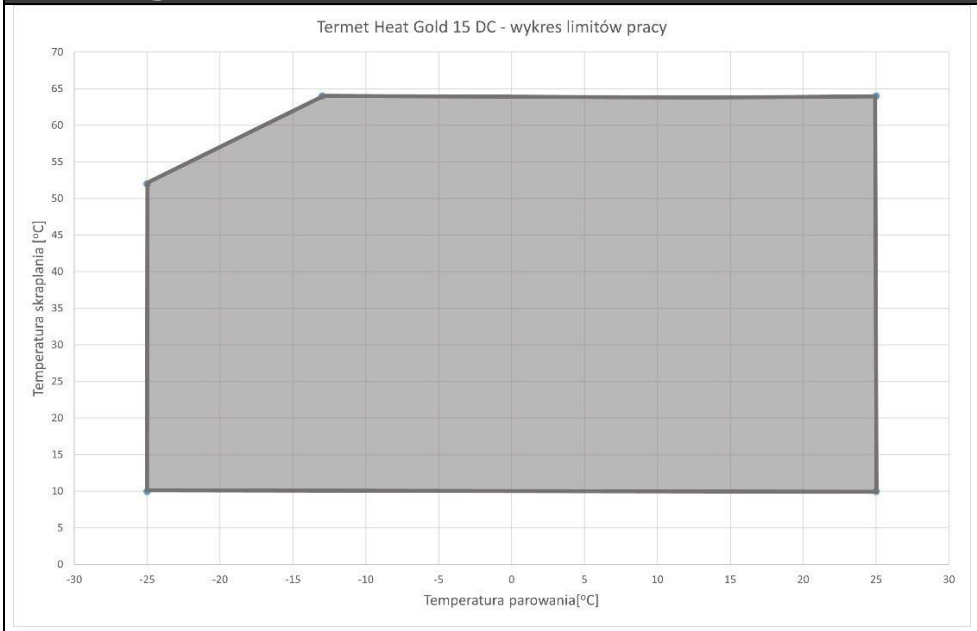
Energetic label



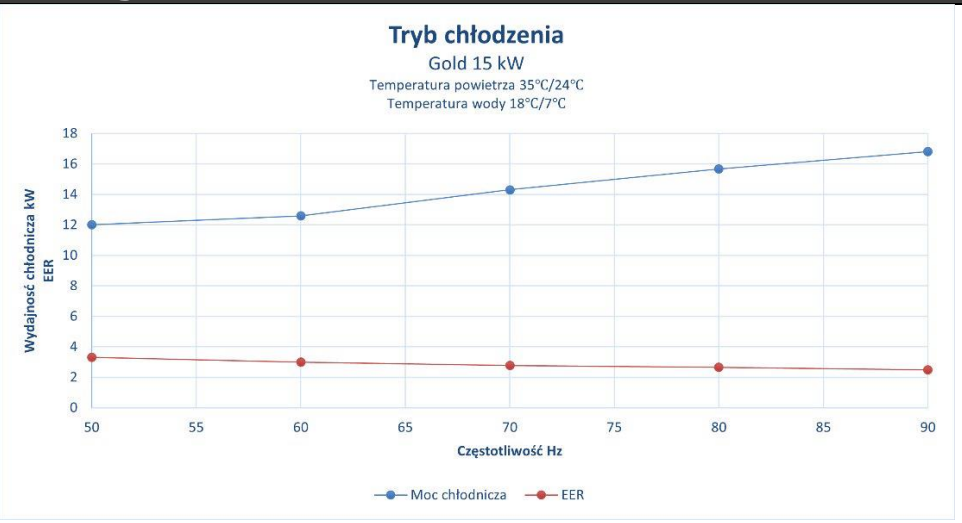
Heating mode



Working limits chart

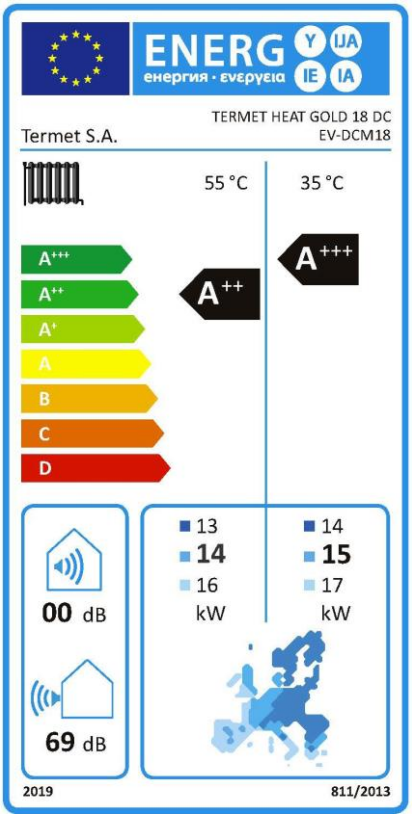


Cooling mode

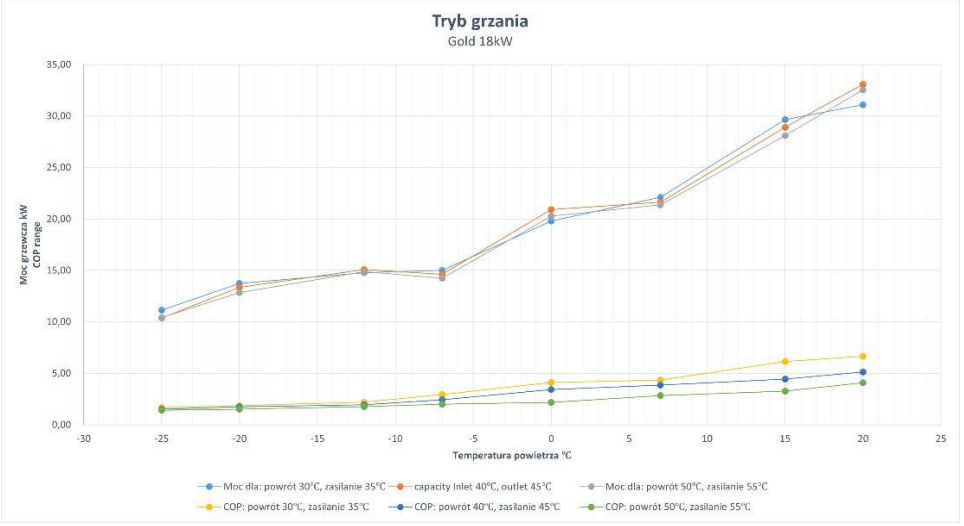


Termet Heat Gold 18

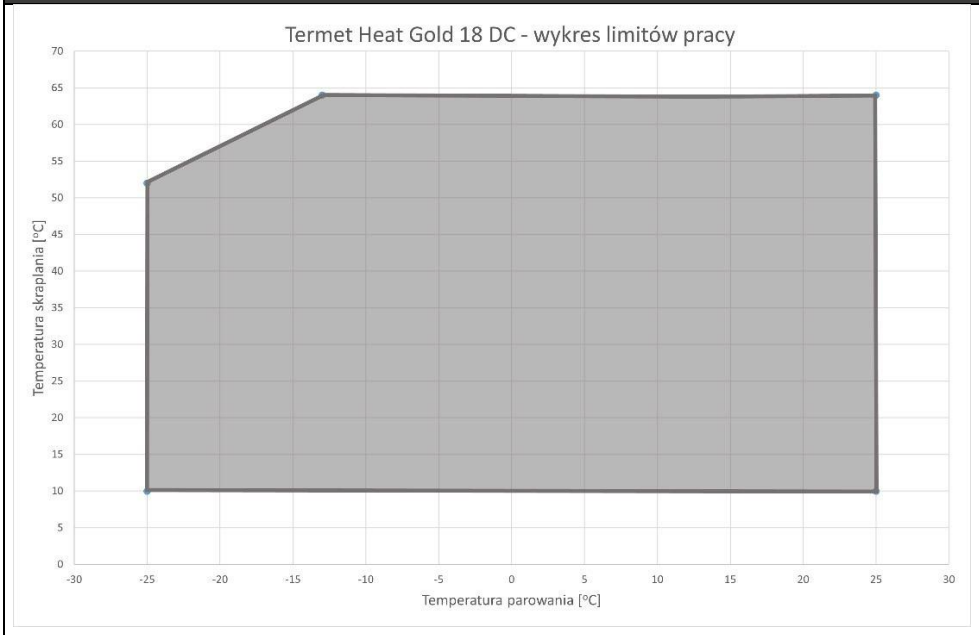
Energetic label



Heating mode



Working limits chart



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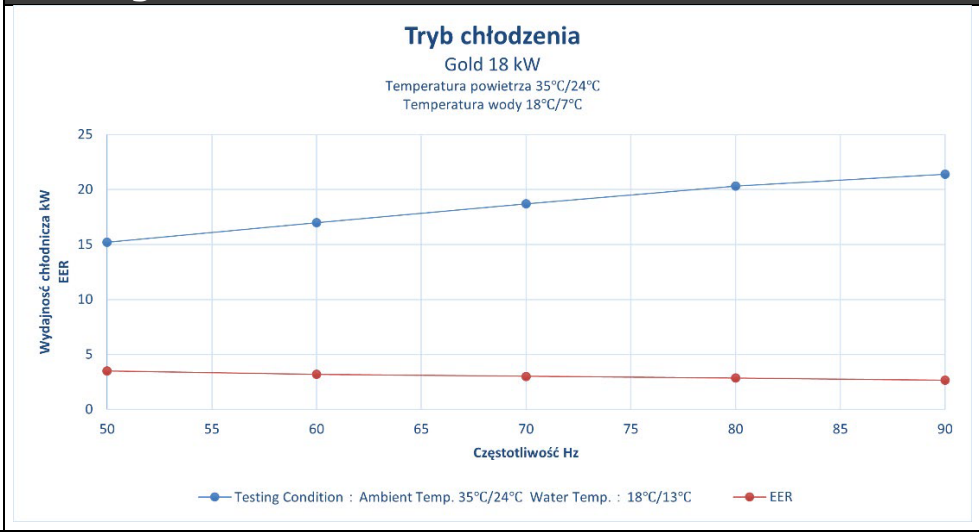
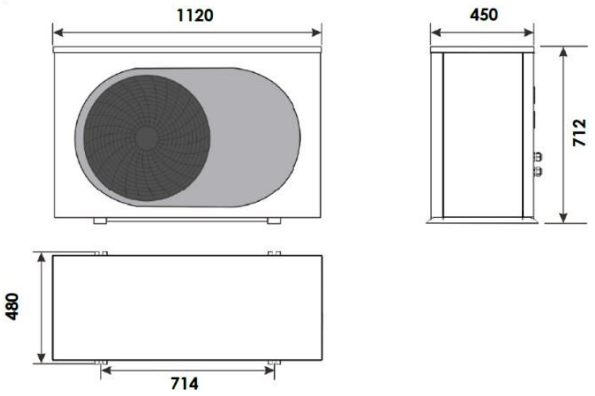
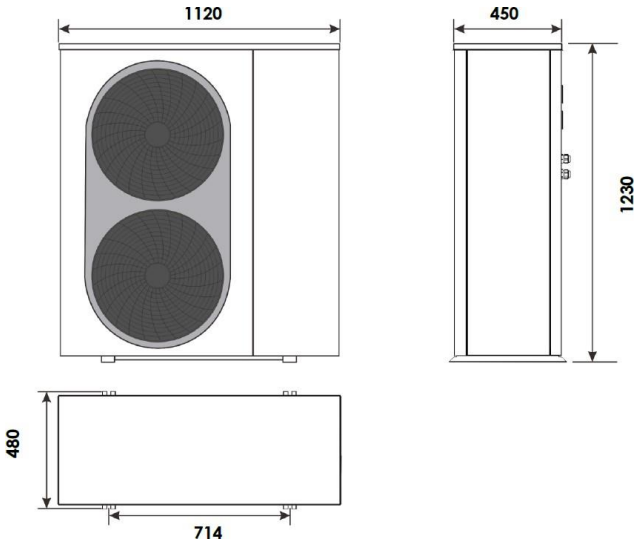


Termet Heat Gold
– installation dimension

Termet Heat Gold 6
Termet Heat Gold 9

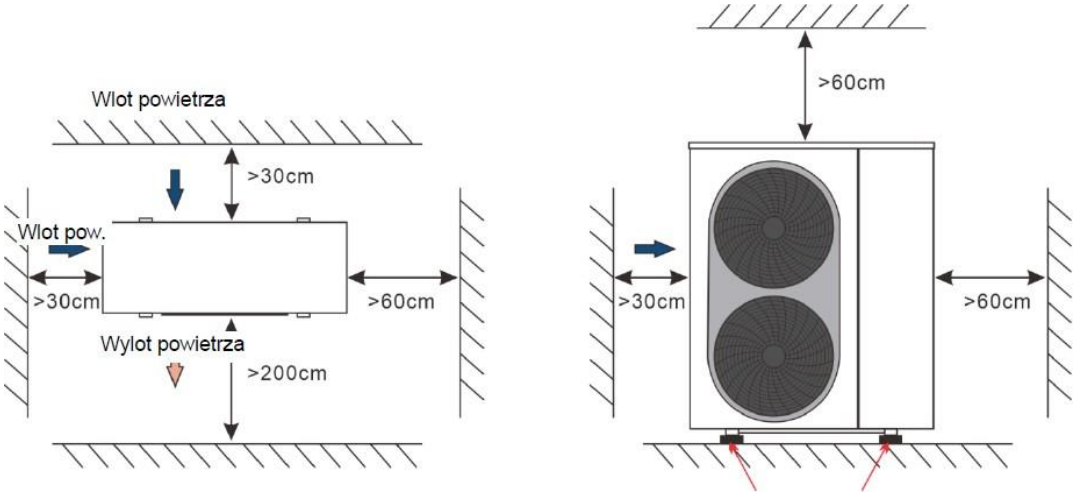


Termet Heat Gold 12
Termet Heat Gold 15
Termet Heat Gold 18

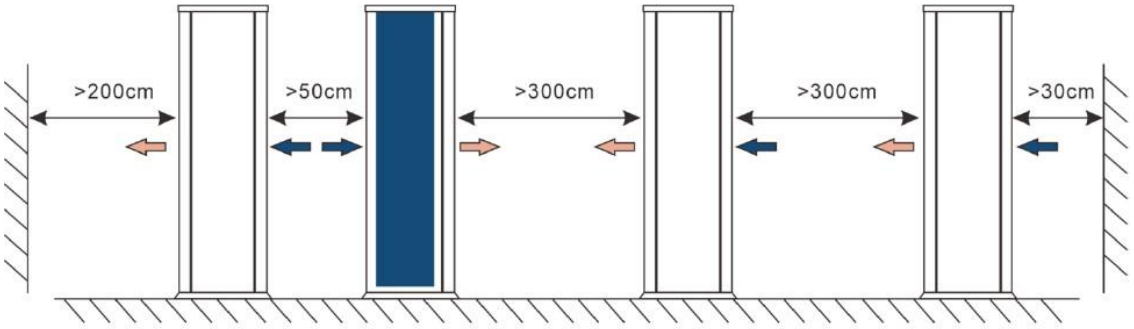


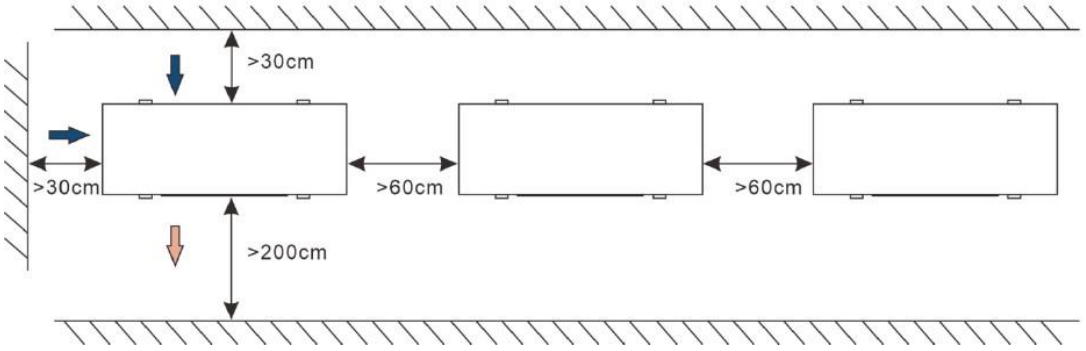
Termet Heat Gold
–installation distances

Installation distances



Instalation distances for heat pumps cascade





Termet Heat Gold

technical data

Heat pump model			Termet Heat Gold 6 DC	Termet Heat Gold 9 DC	Termet Heat Gold 12 DC	Termet Heat Gold 15 DC
Type			EV-DCM6	EV-DCM9	EV-DCM12	EV-DCM15
Efficiency class (A7/W35)			A+++	A+++	A+++	A+++
Efficiency class (A7/W55)			A++	A++	A++	A++
Heating A7/W35 A7/W55	Heating power [kW]	A7/W35	6,7	8,8	12,0	17,6
		A7/W55	5,6	8,5	11,8	14,8
	Input power [kW]	A7/W35	1,8	2,1	3,0	4,7
		A7/W55	2,3	2,2	3,1	4,8
	COP	A7/W35	4,7	4,5	4,6	4,4
		A7/W55	2,7	2,8	2,8	2,9
Heating A0/W35 A0/W55	Heating power [kW]	A0/W35	6,0	7,8	11,0	15,8
		A0/W55	5,4	8,0	11,1	16,2
	Input power [kW]	A0/W35	1,8	2,0	2,9	4,5
		A0/W55	2,3	2,1	3,0	4,6
	COP	A0/W35	4,7	4,1	4,1	4,1
		A0/W55	2,7	2,2	2,2	2,2
Heating A-7/W35 A-7/W55	Heating power [kW]	A-7/W35	4,5	5,9	8,2	12,0
		A-7/W55	5,8	5,6	7,8	11,4
	Input power [kW]	A-7/W35	2,6	3,0	4,4	6,7
		A-7/W55	2,1	2,5	2,9	4,4
	COP	A-7/W35	3,0	3,0	2,9	2,9
		A-7/W55	1,9	2,0	2,0	2,0
Cooling (A35/W18)	Cooling power [kW]	A35/W18	5,6	8,4	10,1	12,0
	Input power [kW]	A35/W18	1,5	2,4	2,9	3,6
	EER	A35/W18	3,6	3,5	3,5	3,3
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	380/3/50
Max. input power		KW	2.5	3.4	4.9	5.0
Max. input current		A	11.4	15.5	22.3	9.4
Ambient temperature range		°C	-25 - 43			
Maximum temperature (CH circuit)		°C	60			
Maximum temperature (DHW circuit)		°C	55			
Compressor			Mitsubishi inverter			
Evaporator			Finned heat exchanger with a hydrophilic coating			
Expansion valve			Electronic expansion valve			
IP			IPX4			
Electric shock protection class			I			
Refrigerant **R32** (GWP: 675) [kg]		kg	0.9	1.2	2.1	2.3
Minimum water flow rate (m^3/h)		m^3/h	1	1.50	1.90	2.60
Water pressure drop (kPa)		kPa	18	22	24	28
Installation pipe diameter (internal) [mm] *		DN	25	25	25	25
Housing dimensions (W*D*H) (mm)		mm	1120x480x712	1120x480x712	1120x480x1230	1120x480x1230
Packaging dimensions (W*D*H) (polywood)		mm	1180x540x850	1180x540x850	1180x540x1370	1180x540x1370
Net weight (kg)		kg	71	80	110	117

Termet Heat Gold

Sound power level	dB(A)	50	64	65	66

Heat pump model			**Termet Heat Gold 18 DC**
Type			**EV-DCM18**
Efficiency class (A7/W35)			A+++
Efficiency class (A7/W55)			A++
Heating A7/W35 A7/W55	Heating power [kW]	A7/W35	22,1
		A7/W55	21,4
	Input power [kW]	A7/W35	5,2
		A7/W55	5,3
	COP	A7/W35	4,3
		A7/W55	2,8
Heating A0/W35 A0/W55	Heating power [kW]	A0/W35	19,8
		A0/W55	20,3
	Input power [kW]	A0/W35	5,0
		A0/W55	5,1
	COP	A0/W35	4,1
		A0/W55	2,2
Heating A-7/W35 A-7/W55	Heating power [kW]	A-7/W35	15,0
		A-7/W55	14,2
	Input power [kW]	A-7/W35	7,4
		A-7/W55	4,9
	COP	A-7/W35	2,9
		A-7/W55	2,0
Cooling (A35/W18)	Cooling power [kW]	A35/W18	15,2
	Input power [kW]	A35/W18	4,4
	EER	A35/W18	3,5
Power supply		V/ph/Hz	380/3/50
Max. input power		KW	7.9
Max. input current		A	12.4
Ambient temperature range		℃	-25 - 43
Maximum temperature (CH circuit)		℃	60
Maximum temperature (DHW circuit)		℃	55
Compressor			Mitsubishi inwerter
Evaporator			Finned heat exchanger with a hydrophilic coating
Expansion valve			Electronic expansion valve
IP			IPX4
Electric shock protection class			I
Refrigerant **R32** (GWP: 675) [kg]		kg	2.3
Minimum water flow rate (m^3/h)		m^3/h	3.10
Water pressure drop (kPa)		kPa	30
Installation pipe diameter (internal) [mm] *		DN	25
Housing dimensions (W*D*H) (mm)		mm	1120x480x1230
Packaging dimensions (W*D*H)		mm	1180x540x1370
Net weight (kg)		kg	128
Sound power level		dB(A)	69

Termet Heat Gold
– technical data of recomended equipment

Heat pump	Model				
	Termet Heat Gold 6 DC	**Termet Heat Gold 9 DC**	**Termet Heat Gold 12 DC**	**Termet Heat Gold 15 DC**	**Termet Heat Gold 18 DC**
Buffer	SUGGESTED; minimum capacity [L]				
	80	100	120	150	200
Domestic hot water tank	Minimum capacity [L]				
	200	250	300	400	400
	Minimum coil area[m^2]				
	2,0	3,2	4,5	5,0	5,5
Auxiliary (peak) source	Electric heater/additional boiler				
3-way diverter valve [DN]	Required for DHW				
	25	25	32	32	32
Water pump [boiler circuit]	Water pipe length between heat pump and buffer Two variants:length ≤ 5 m and length 5-10 m				
	25/40	25/40 / 25/60	25/60 / 25/80	25/80 / 32/80	25/80 / 32/80
Required min. water/glycol flow [m^3/h]	1	1,5	1,9	2,6	3,2
Piping diameters [DN]	25	25	25	32	32
Recommended water/glycol pressure	≥ 1,5 bar; max 2 bar				
Anti-freeze protection	UPS/Glycol				

Wire diameter and eletrical protection

Overcurrent protection	1 ph C32/ 2 ph C16	1 ph C20	1 ph C25	3 ph C25	3 ph C25
Mains	1 x 6 mm^2/ 2 x 4 mm^2	3 x 4 mm^2		5x4 mm^2	5x4 mm^2
Water pump	3x1,5 mm^2				
3-way valve **	3x1,5 mm^2				
DHW tank sensor ***	2x1 mm^2				
Buffer sensor ***	2x1 mm^2				
Control panel cable ***	4x0,75 mm^2				
HPMulti regulator communication cable	2x0,75 mm^2				

** if present in the system
*** if cable extension is required

Termet Heat Gold
– technical data of recomended equipment

- set of sensors on the heat pump equipment:
1) outdoor temperature sensor - 1 piece
2) DHW tank temperature sensor. - 1 piece
3) buffer temperature sensor - 1 piece
- accessories included in the HPmulti package:
1) HPmulti controller - 1 piece
2) LCD control panel - 1 piece
3) internet module ecoNET300 - 1 piece
4) NTC temperature sensors- 2 pieces