



MONOBLOC HEAT PUMPS WITH INVERTER MODULE

»»» **PRIMA 6-16GT SINUM LITE**

COMPLETE 4-IN-1 SYSTEM
FOR HEATING AND COOLING
WITH **SMART HOME SYSTEM**

NEW

Hybrid Heating Systems with air-water heat pump

Prima

Complete systems for house heating and cooling

- ▶ 3 functions in 1 device - house heating, cooling and DHW heating.
- ▶ Ability to obtain grants in Germany - included on the BAFA list.
- ▶ COP = 5,6 (Prima 8GT - A10W35).
- ▶ Working range up to -25°C.
- ▶ High outlet temperature to the heating circuit: up to 65°C.
- ▶ Ecological refrigerant - R32.
- ▶ 2 quiet modes.
- ▶ Modulated heating power - twin rotary inverter compressor.
- ▶ Easy and fast installation - monobloc heat pump - integrated heat pump system.



Convenient online control

- ▶ Online control via an app - as standard.
- ▶ Automatic control based on the heating curve.
- ▶ Touch controller with room thermostat function.
- ▶ Daily and weekly scheduler.
- ▶ Faster heating of domestic hot water - TURBO DHW mode.
- ▶ ECO and vacation modes. Anti-legionella function- safe disinfection of DHW installations.
- ▶ Anti-Freeze protection.
- ▶ Ability to control the circulation pump and heater of the domestic hot water tank.

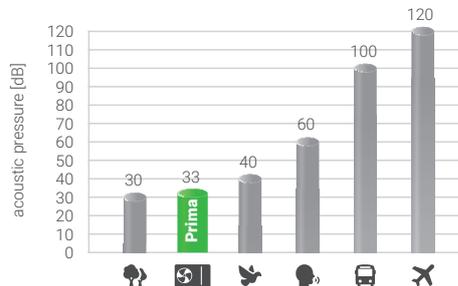


Extremely quiet

2 quiet modes for compressor and fan.

Only 33 dB acoustic pressure.

Example for the Prima 6GT model, measurement at a distance of 3 m.

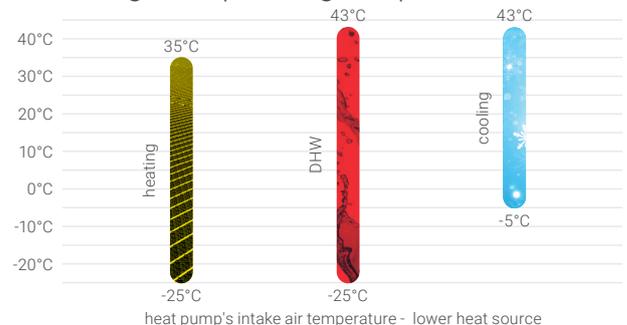


Ecological refrigerant

- ▶ Environmentally friendly refrigerant.
- ▶ Low Global Warming Potential - 675 (ability to trap extra heat in the atmosphere over time relative to carbon dioxide).
- ▶ Zero impact on the ozone layer.
- ▶ Better performance under difficult conditions.

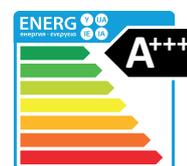


Wide range of operating temperatures



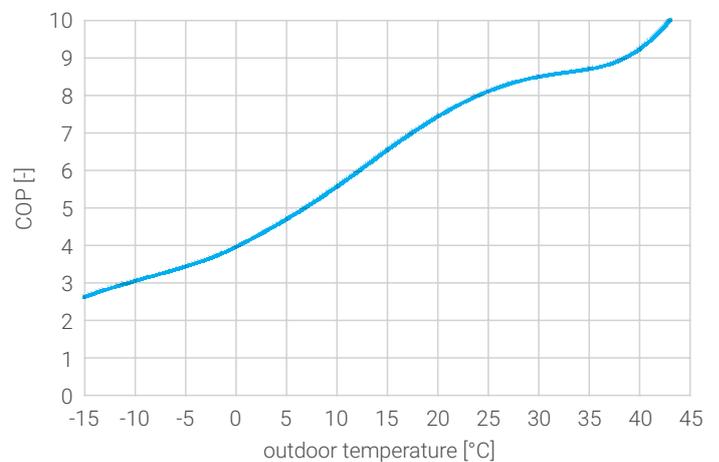
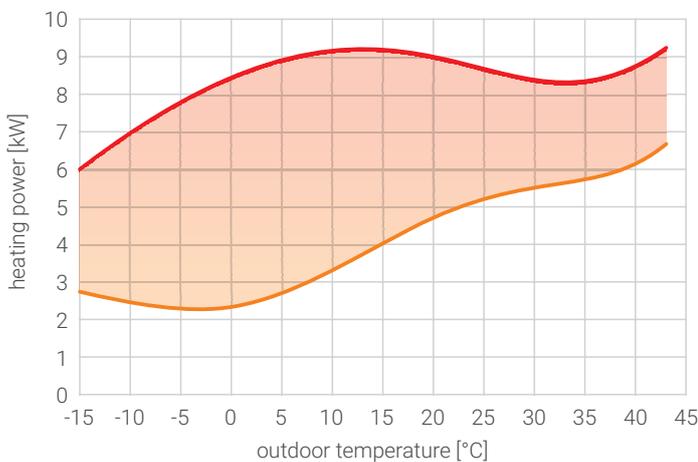
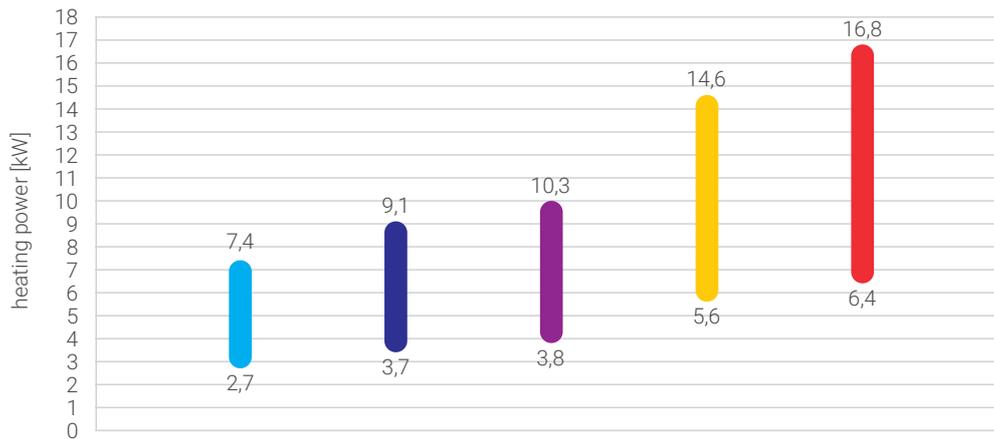
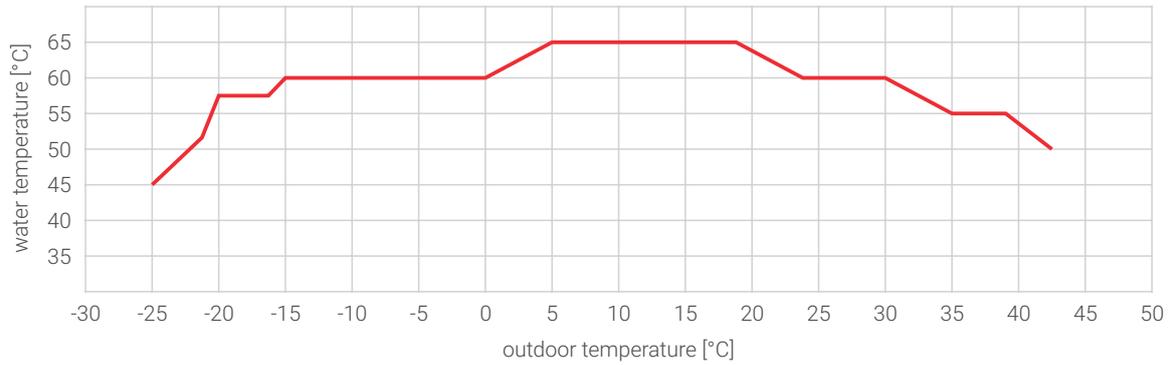
Highest possible energy efficiency class

Ability to obtain a wide range of grants thanks to the high ErP class: A++ (A7W55), A+++ (A7W35) and Keymark certificate.



Easy and fast installation

- ▶ System 4w1: heat pump + DHW exchanger + CH buffer + three-way valve.
- ▶ Simple installation without f-gas qualifications.
- ▶ Built-in electronic circulation pump.
- ▶ Smart Grid Ready.
- ▶ Additional electric heater 3 kW (Prima 6-10GT), three-stage 9 kW (Prima 3F 12-16GT).
- ▶ Built-in 8 l expansion vessel.
- ▶ Power supply: 230V (Prima 6-10GT) and 400V (Prima 3F 12-16GT).
- ▶ Cascade of up to 6 heat pumps.
- ▶ Modbus protocol.



Sinum Lite smart home control center

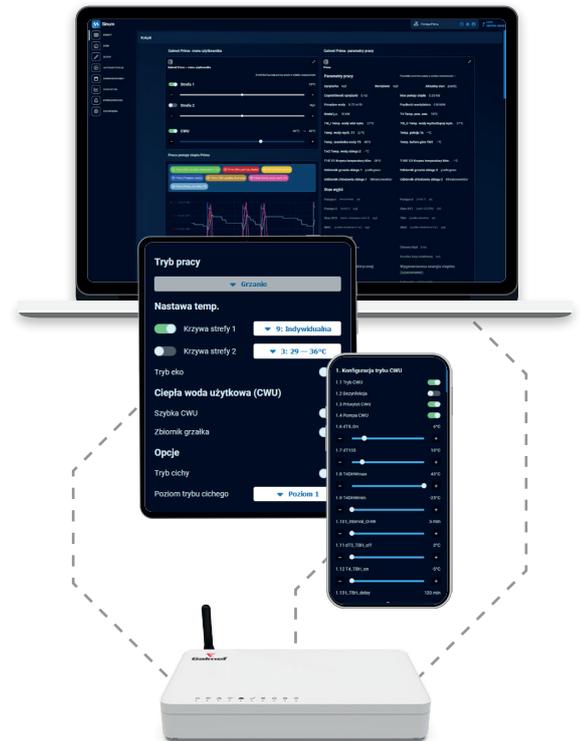
Application for managing the Prima heat pump with Smart Home functions

The control center of a modern home

- ▶ A revolutionary offer that changes the way we perceive the home.
- ▶ The Prima heat pump set becomes the center of a smart home.
- ▶ One application provides full control - the ability to control underfloor and radiator heating, cooling, ventilation, lighting, blinds and security.
- ▶ For use in new and modernized buildings.
- ▶ Additional functions can be easily added: lighting control, sockets.
- ▶ Wired and wireless system.
- ▶ Remote updates of the Sinum Lite Smart Home control panel.

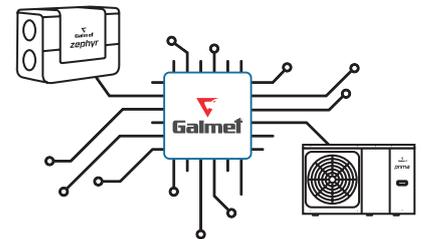
New standard in Prima heat pump management

- ▶ Complete representation of the Prima heat pump controller menu in the application.
- ▶ All functions available immediately.
- ▶ Easy configuration of heating, cooling, hot water or additional heat sources.
- ▶ Quick change of heating curve settings.
- ▶ Reports with a summary of heat pump operation in the form of clear graphs.
- ▶ Email and push notifications.
- ▶ Heat pump installer menu.
- ▶ Installer account to manage all installed heat pumps.
- ▶ Service account.



Intelligent management of the entire hybrid system

The control panel allows remote access to the heat pump, modification of settings, and viewing of the current status of the heat pump. It is possible to connect the Zephyr recuperator to the control panel. Support for other smart home components is available. Thanks to the use of the control panel, the entire house can be operated from a single application. The user can perfectly adapt the building control to their needs based on the programmed schemes. Different heat sources work as one heating system and are able to achieve the best possible efficiency, making the entire heating system even more economical and environmentally friendly. The user can perfectly adapt the building control to their needs.



Mobile app

In the mobile app, you will find all the most important information about your home. In addition, you can customize it according to your preferences by adding your favorite rooms, devices, scenes, or automations to the main view.

What's more, you have access to all kinds of statistics (temperature, pressure, air quality, etc.) and full control over the parameters in each room.



Control of heating, lighting, blinds and building security



actuators, window contacts,
touch switches with
temperature controllers



touch switches
and dimmers



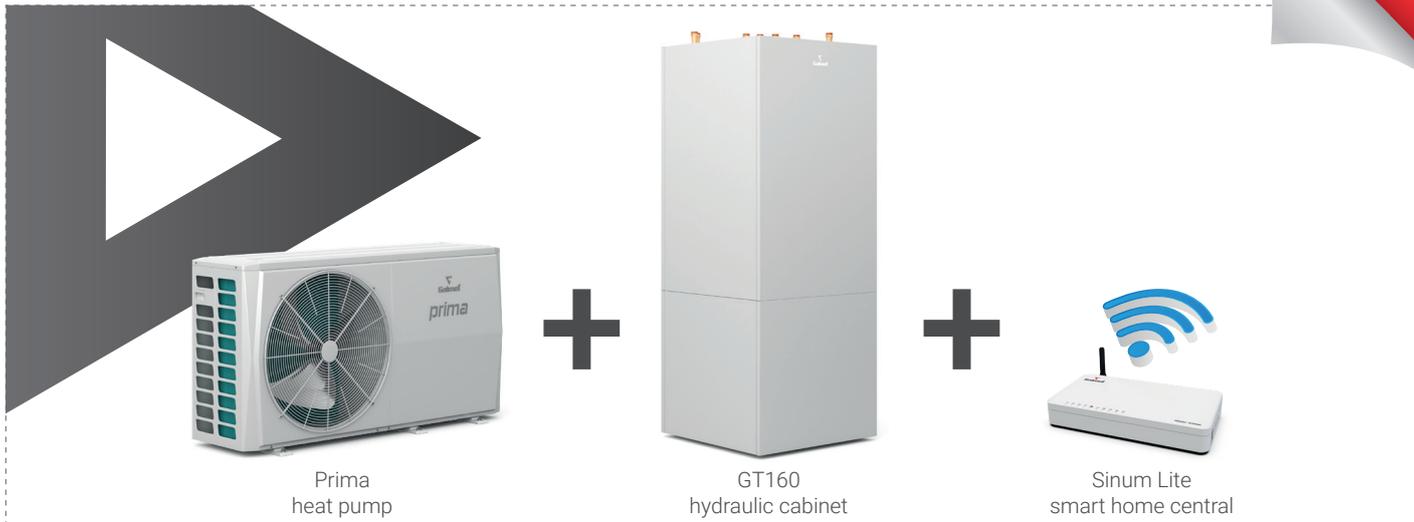
touch switches
and modules
for roller shutter control



wireless particle sensors,
flood sensors
and multisensors

NEW

Complete set with Prima heat pump, GT160 hydraulic cabinet and Sinum Lite smart home central control unit



Prima heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central

| no. | cat. no. | system includes |
|-----|------------|--------------------------------------------------------------------------------|
| 1 | SG-000644S | Prima 6GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central |
| 2 | SG-000645S | Prima 8GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central |
| 3 | SG-000646S | Prima 10GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central |

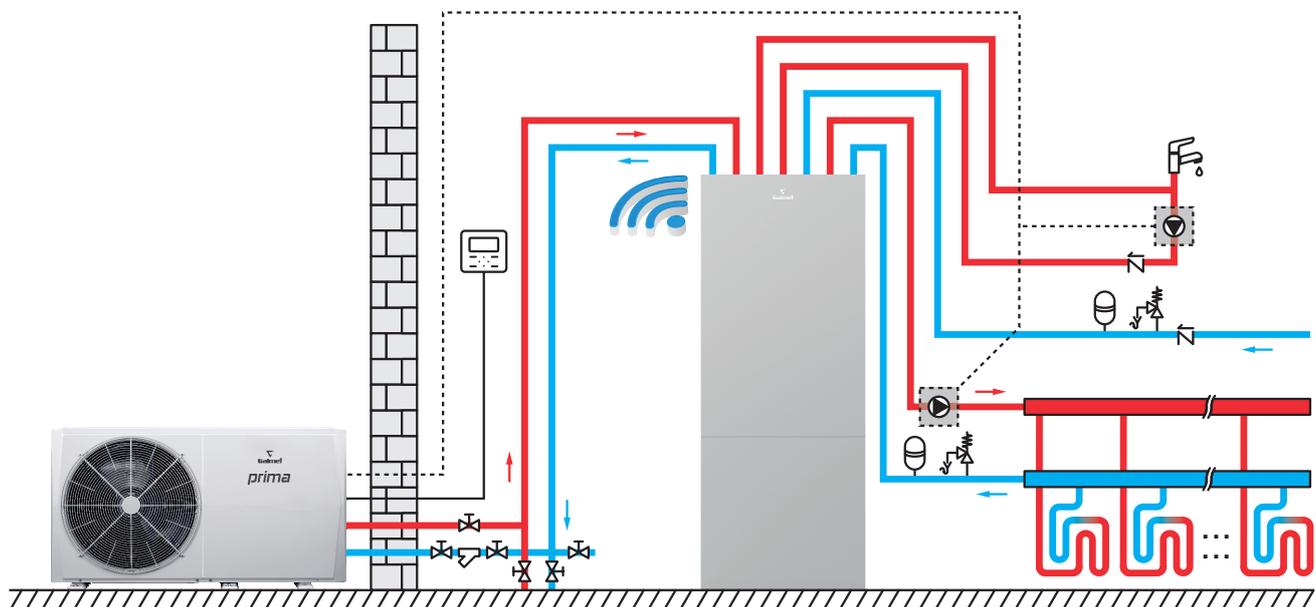
GT160 hydraulic cabinet

- ▶ High-performance domestic hot water heat exchanger for heat pumps with a capacity of 160 l and a coil surface of 2 m².
- ▶ Additional 2 kW electric heater and titanium anode.
- ▶ 60 liter buffer tank with 3 kW electric heater.
- ▶ Three-way diverter valve with servo.
- ▶ Dirt separator and automatic vent.
- ▶ 12 liter diaphragm vessel for central heating.
- ▶ Pressure gauge.
- ▶ Quick-release couplings in the electrical installation.
- ▶ 230V power supply.
- ▶ Emergency heating module for hot water and buffer tank.
- ▶ Automatic or manual activation of the emergency heating system for hot water and central heating.

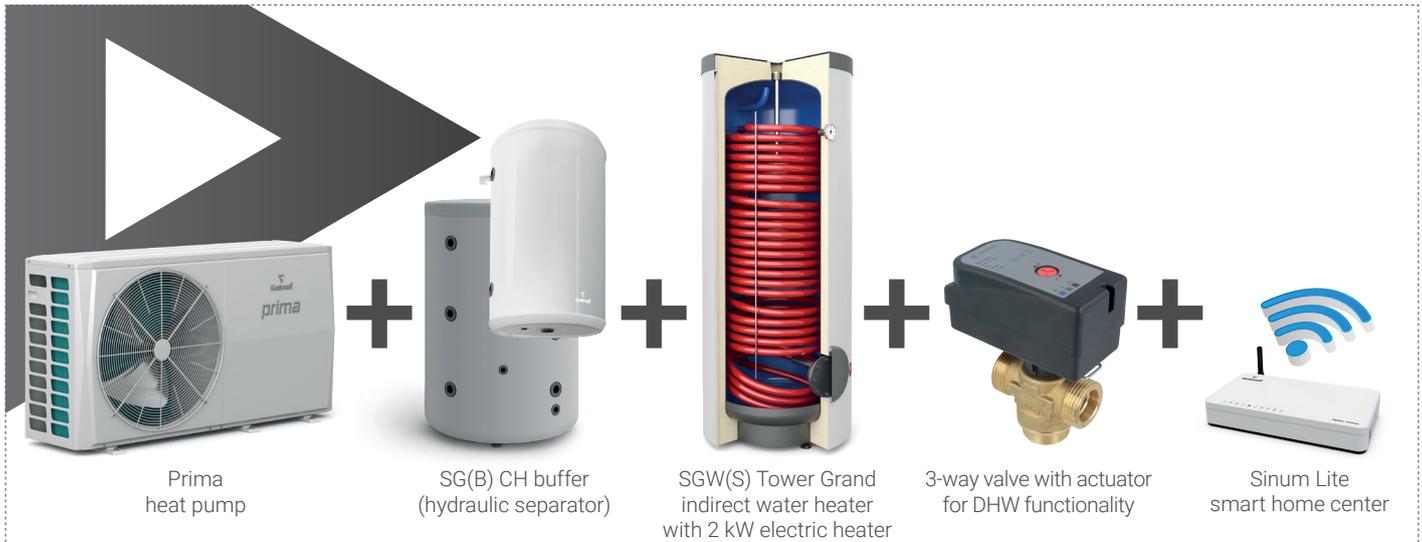
Technical data of the GT160 hydraulic cabinet

| specification | unit | GT160 |
|-------------------------------------|----------------|------------------|
| net weight | kg | 205 |
| dimensions (height x width x depth) | mm | 1920 x 715 x 716 |
| material hydraulic connections | - | brass |
| connections | - | 1" |
| hot water tank capacity | l | 160 |
| hot water tank heater power | kW | 2,0 |
| coil surface | m ² | 2,0 |
| maximum permissible tank pressure | MPa | 0,6 |
| buffer tank capacity | l | 60 |
| buffer tank heating element power | kW | 3,0 |
| DHW tank protection | - | titanium anode |

System diagram with GT160 hydraulic cabinet



Hybrid Heating System: Prima heat pump with CH buffer (hydraulic separator), SGW(S) Tower Grand indirect water heater, three-way valve and Sinum Lite smart home center



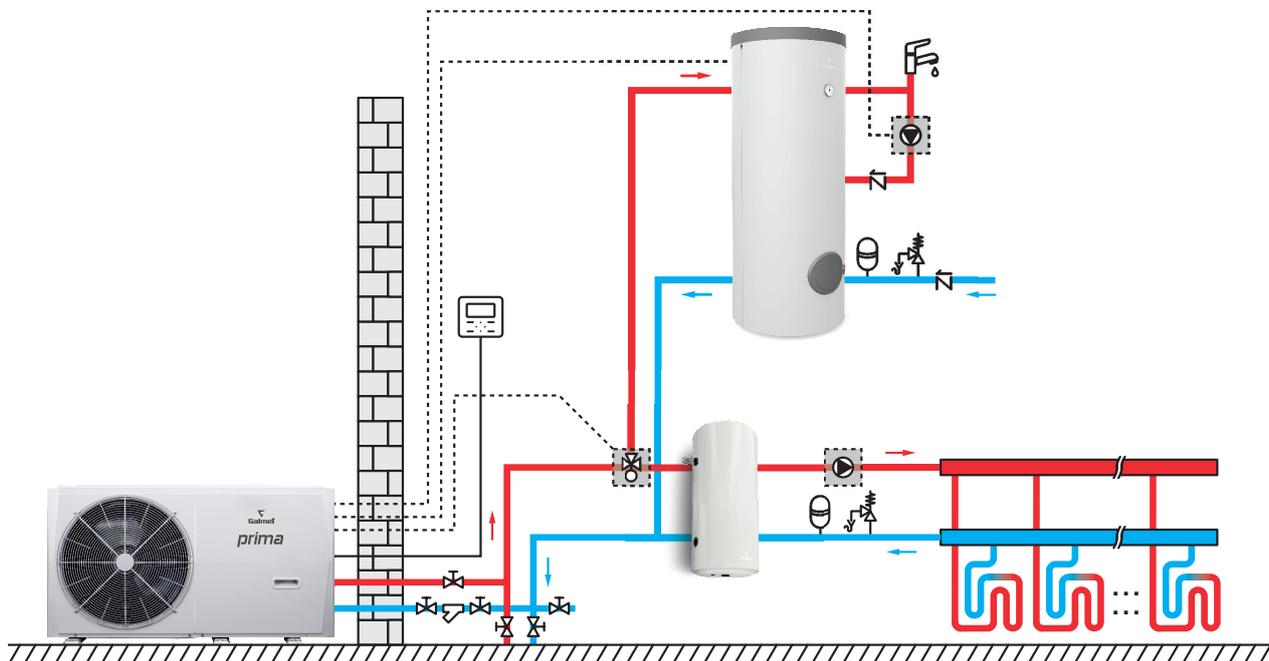
| no. | cat. no. | system includes |
|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | SG-000044S | Prima 6GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 2 | SG-000045S | Prima 8GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 3 | SG-000046S | Prima 10GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 4 | SG-000054S | Prima 3F 12GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 300 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 5 | SG-000056S | Prima 3F 16GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 300 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 6 | SG-000077S.1 | Prima 10GT heat pump + SG(B) 200 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 7 | SG-000078S | Prima 3F 12GT heat pump + SG(B) 200 CH buffer + SGW(S) Tower Grand 300 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 8 | SG-000079S | Prima 3F 16GT heat pump + SG(B) 200 CH buffer + SGW(S) Tower Grand 300 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |

Tower Grand - indirect water heater

- ▶ Faster heating of water thanks to the large surface area of the spiral coil.
- ▶ For inverter and on-off heat pumps.
- ▶ Spiral coil along the entire height of the tank.
- ▶ Ability to install an electrical set - option.
- ▶ Thermometer in standard.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.
- ▶ Maintenance-free active titanium anode - option.

Wall-mounted SG(B) CH buffer - hydraulic separator for heat pumps

- ▶ Wide range of available capacities, from 40 to 200 l.
- ▶ Insulated with polyurethane foam.
- ▶ Water tank (buffer) for de-mineralised boiler water or glycol solution.
- ▶ Works as hydraulic separator when used with a heat pump.
- ▶ Easy installation.
- ▶ Durable metal casing.



Hybrid Heating System: Prima heat pump with SG(K) Complete combined heat accumulation vessel, three-way valve and Sinum Lite smart home center

Prima heat pump

SG(K) Complete 250/110 combined heat accumulation vessel with 2 kW electric heater

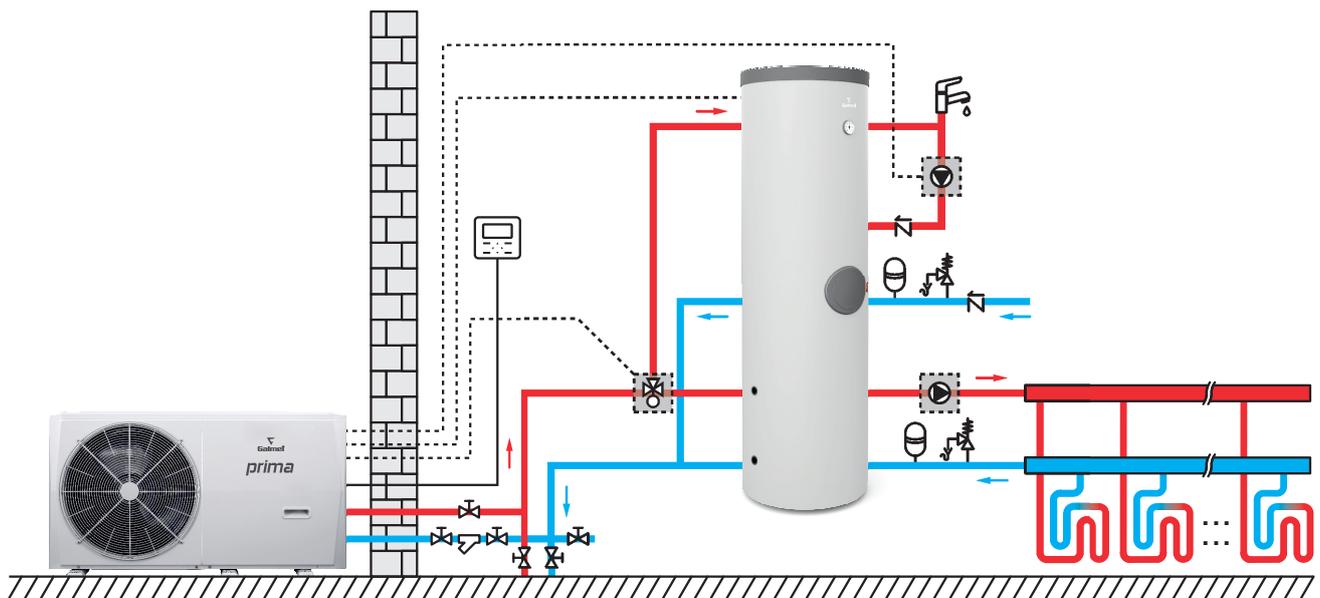
3-way valve with actuator for DHW functionality

Sinum Lite smart home center

| no. | cat. no. | system includes |
|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | SG-000048S | Prima 6GT heat pump + SG(K) Complete 250/110 combined heat accumulation vessel + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 2 | SG-000049S | Prima 8GT heat pump + SG(K) Complete 250/110 combined heat accumulation vessel + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 3 | SG-000050S | Prima 10GT heat pump + SG(K) Complete 250/110 combined heat accumulation vessel + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 4 | SG-000057S | Prima 3F 12GT heat pump + SG(K) Complete 250/110 combined heat accumulation vessel + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |
| 5 | SG-000059S | Prima 3F 16GT heat pump + SG(K) Complete 250/110 combined heat accumulation vessel + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center |

Complete - combined heat accumulation vessel for heat pumps - indirect water heater + CH buffer

- ▶ Two independent systems in one device.
- ▶ Complete solution for heat pumps - indirect water heater + CH buffer.
- ▶ Space saving - compact design.
- ▶ Rapid DHW heating - large spiral coil (2,9 m²).
- ▶ Maximum size heat exchanger - so called "coil within a coil".
- ▶ Easier and faster installation.
- ▶ Highest quality EXTRA GLASS® ceramic enamel.
- ▶ Additional protection with magnesium anode.
- ▶ Ability to install an electrical set - option.
- ▶ Ability to install a maintenance-free titanium anode - option.



Technical specification of the Prima heat pumps

| specification | | unit | Prima 6GT | Prima 8GT | Prima 10GT | Prima 3F 12GT | Prima 3F 16GT |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------|--------|------------------|-------------------|-------------------|-------------------|-------------------|
| heating power | | kW | 2,73 - 7,41 | 3,36 - 9,11 | 3,81 - 10,03 | 5,58 - 14,60 | 6,43 - 16,80 |
| electrical power | heating mode (A7W35) ¹ | kW | 6,35 | 8,40 | 10,00 | 12,10 | 15,90 |
| COP | | kW | 1,28 | 1,63 | 2,02 | 2,44 | 3,53 |
| heating power | | - | 4,95 | 5,15 | 4,95 | 4,95 | 4,50 |
| electrical power | heating mode (A7W55) ¹ | kW | 6,00 | 7,50 | 9,50 | 11,90 | 16,00 |
| COP | | kW | 2,03 | 2,36 | 3,06 | 3,90 | 5,61 |
| heating power | | - | 2,95 | 3,18 | 3,10 | 3,05 | 2,85 |
| electrical power | cooling mode (A35W7) ¹ | kW | 7,00 | 7,45 | 8,20 | 11,50 | 14,00 |
| EER | | kW | 2,33 | 2,22 | 2,52 | 4,18 | 5,60 |
| ErP  energy efficiency class | W35 | - | 3,00 | 3,35 | 3,25 | 2,75 | 2,50 |
| | W55 | - | | | A+++ | | |
| heating power modulation range (min/max) A7W35 ¹ | | - | | | A++ | | |
| electric heater power | | kW | 3 | 3 | 3 | 9 | 9 |
| acoustic power level ² | | dB | 51 | 59 | 56 | 65 | 56 |
| acoustic pressure ³ | | dB | 33 | 41 | 38 | 45 | 38 |
| compressor | | - | | | twin rotary | | |
| fan | | - | | | DC | | |
| heat exchanger (evaporator) | | - | | | lamellar | | |
| refrigerant | | - | R32 1,4 kg | R32 1,4 kg | R32 1,4 kg | R32 1,75 kg | R32 1,75 kg |
| device dimensions (height x width x depth) | | mm | 718 x 1295 x 429 | 865 x 1385 x 523 |
| package dimensions (height x width x depth) | | mm | 885 x 1375 x 475 | 1035 x 1465 x 560 |
| net / gross weight | | kg | 91 / 112 | 110 / 137 | 110 / 137 | 149 / 177 | 149 / 177 |
| outdoor air temperature range | cooling | °C | | | -5 ~ 43 | | |
| | heating | °C | | | -25 ~ 35 | | |
| | DHW | °C | | | -25 ~ 43 | | |
| heat exchanger (condenser) | | - | | | plate type | | |
| connections | | " | 1 | 5/4 | 5/4 | 5/4 | 5/4 |
| water outlet temperature range | cooling | °C | | | 5 ~ 30 | | |
| | heating | °C | | | 12 ~ 65 | | |
| | DHW | °C | | | 10 ~ 60 | | |
| voltage and frequency | | V / Hz | 220-240 / 50 | 220-240 / 50 | 220-240 / 50 | 380-415 / 50 | 380-415 / 50 |

¹ According to the EN 14511 norm; A - air temperature; W - heated water temperature range.

² According to the EN 12102 norm.

³ At a distance of 3 meters.



48-100 Głubczyce,
Raciborska 36
tel.: +48 77 403 45 00
fax: +48 77 403 45 99

export dept.: +48 77 403 45 80
export@galmet.com.pl

www.galmet.com

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