



## SPLIT INVERTER HEAT PUMPS

»» PRIMA S 6-16GT **SINUM LITE**

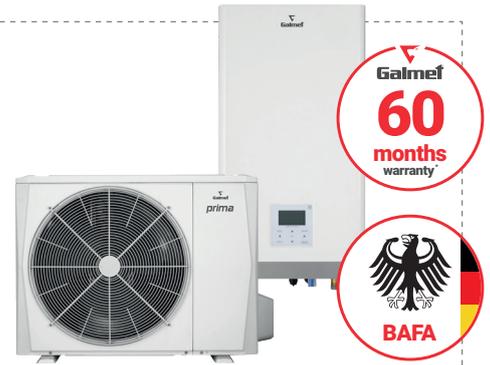
COMPLETE 4-IN-1 SYSTEM  
FOR HEATING AND COOLING  
WITH **SMART HOME SYSTEM**

# Hybrid Heating Systems with air-water heat pump

## Prima S - split inverter

### 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 S 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).



### 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.
- ▶ Ability to control the circulation pump and heater of the domestic hot water tank.



### Extremely quiet

2 quiet modes for compressor and fan.

Acoustic pressure of the outdoor unit only at 28 dB (example for the Prima S 6GT model, measurement at a distance of 3 m).



### Ecological refrigerant

- ▶ Environmentally friendly refrigerant.
- ▶ Low Global Warming Potential - 675.
- ▶ Zero impact on the ozone layer.
- ▶ Better performance under difficult conditions.

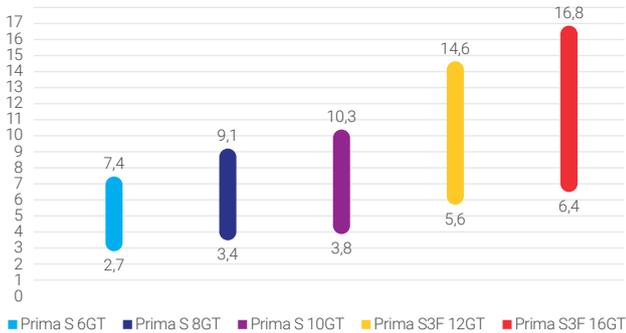


### Highest possible energy efficiency class

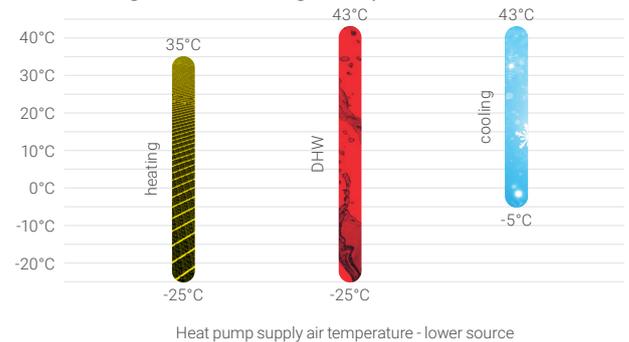
Ability to obtain a wide range of grants thanks to the high ErP class: A++ (A7W55), A+++ (A7W35) and Keymark certificate.



### Wide range of heating power modulation (A7W35)



### Wide range of working temp.



### Easy and fast installation

- ▶ System 4w1: heat pump + DHW exchanger + CH buffer + three-way valve.
- ▶ Built-in electronic circulation pump.
- ▶ Smart Grid Ready.
- ▶ Additional electric heater.
- ▶ Built-in 8 l expansion vessel.
- ▶ Cascade of up to 6 heat pumps.
- ▶ Modbus protocol.



# Sinum Lite smart home control center

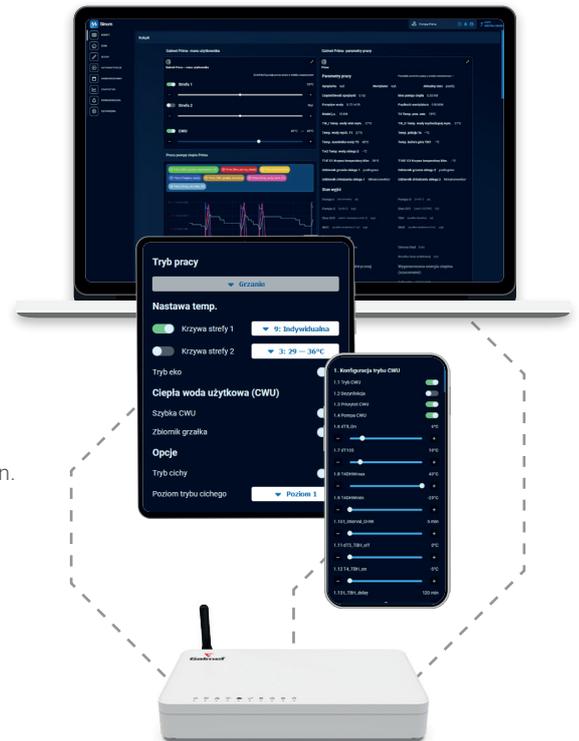
## Application for managing the Prima S heat pump with Smart Home functions

### The control center of a modern home

- ▶ A revolutionary offer that changes the way we perceive the home.
- ▶ The Prima S 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.

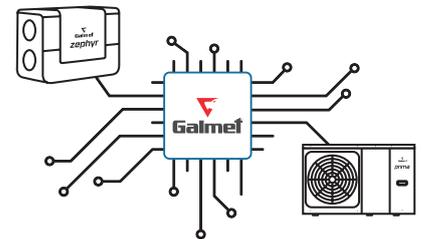
### New standard in Prima S heat pump management

- ▶ Complete representation of the Prima S 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 favourite 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



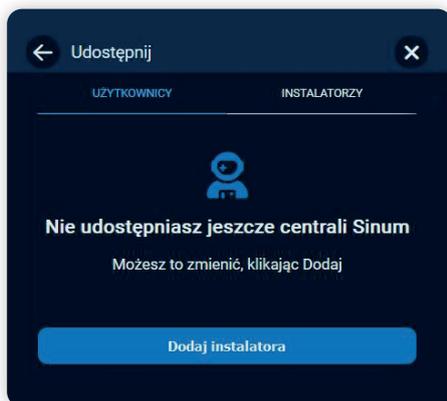
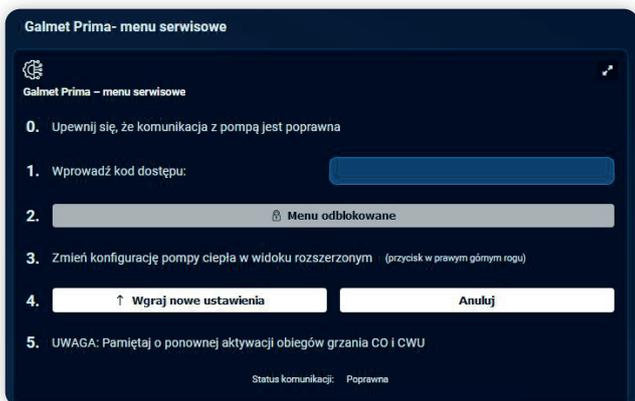
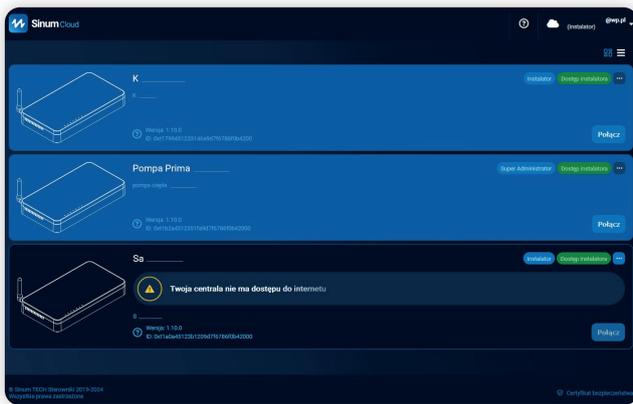
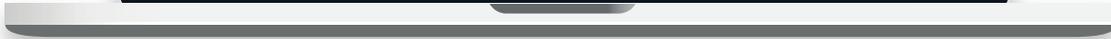
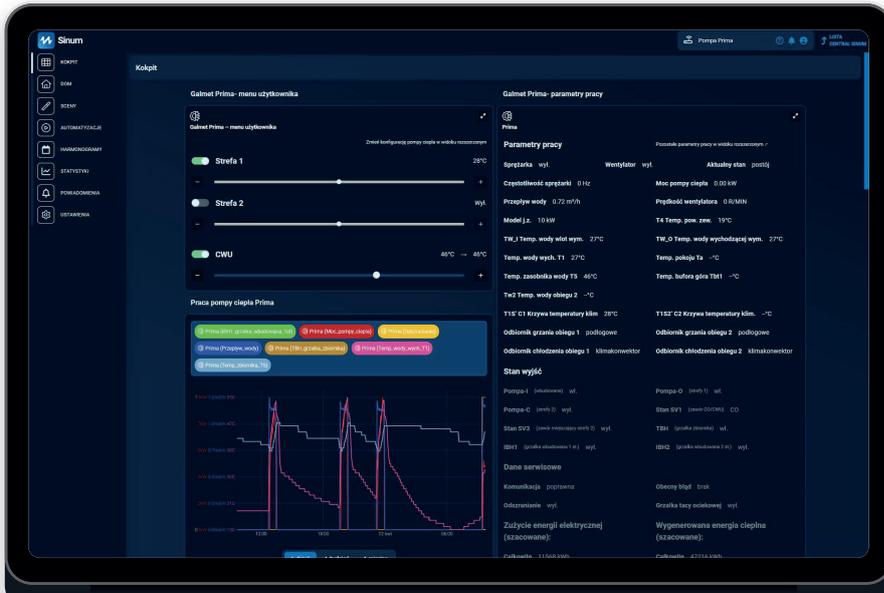
touch switches  
and modules  
for roller shutter control



wireless particle sensors,  
flood sensors  
and multisensors

# Advanced control panel

Simple and intuitive management of all system functionalities both locally and remotely from anywhere in the world.



Parametry pracy	
Stan SV1	wyfl.
Stan SV2	wl.
Stan SV3	wyfl.
Pompa-I	wl.
Pompa-O	wl.
Pompa-C	wyfl.
Pompa-S	wyfl.
Pompa-D	wyfl.
Grzałka wspier. rury	(IBH) wyfl.
Grzałka wspier. zbiornika	(TBH) wyfl.
Bojler gazowy	wyfl.
Temp. wody wych. T1	24°C
Przepływ wody	0.71 m³/h
Moc pompy ciepła	0.00 kW
Zużycie energii	11462 kWh
Temp. pokoju Ta	-°C
Temp. zasobnika wody T5	46°C
Tw2 Temp. wody obiegu 2	-°C
T1S' C1 Krzywa temperatury klim	29°C
T1S2' C2 Krzywa temperatury klim.	-°C
TW_0 Temp. wody wychodzącej wym.	24°C
TW_I Temp. wody wlot wym.	24°C
Temp. bufora góra Tbt1	-°C
Temp. bufora dół Tbt2	-°C
Tsolar	-°C
Model j.z.	10 kW
Prąd sprężarki	0 A
Częstotliwość sprężarki	0 Hz
Całk. czas pracy sprężarki	7744 godz.
Zawór rozprężny	480 P
Prędkość wentylatora	0 R/MIN
Częst. docelowa sprężarki	0 Hz
Typ limitu częstotliwości	0
Napięcie znamionowe	234.0 V
Napięcie szyny zbiorczej DC	320.0 V
Prąd szyny zbiorczej DC	0.0 A
TW_0 Temp. wody wychodzącej wym.	24°C
TW_I Temp. wody wlot wym.	24°C
T2 Temp. wym. F-WLOT	14°C
T2B Temp. wym. F-POW	17°C
Tp Temp. tłoczenia sprężarki	23°C
Th Temp. ssania sprężarki	16°C
T3 Temp. wylot.zew.	10°C
T4 Temp. pow.zew.	12°C
Temp. modułu TF	16°C
P1 Ciśnienie czynnika	1110 kPa

**NEW**

# GT160 hydraulic cabinet

## in sets with Prima S 6-10GT heat pumps

### 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 m<sup>2</sup>.
- ▶ 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.



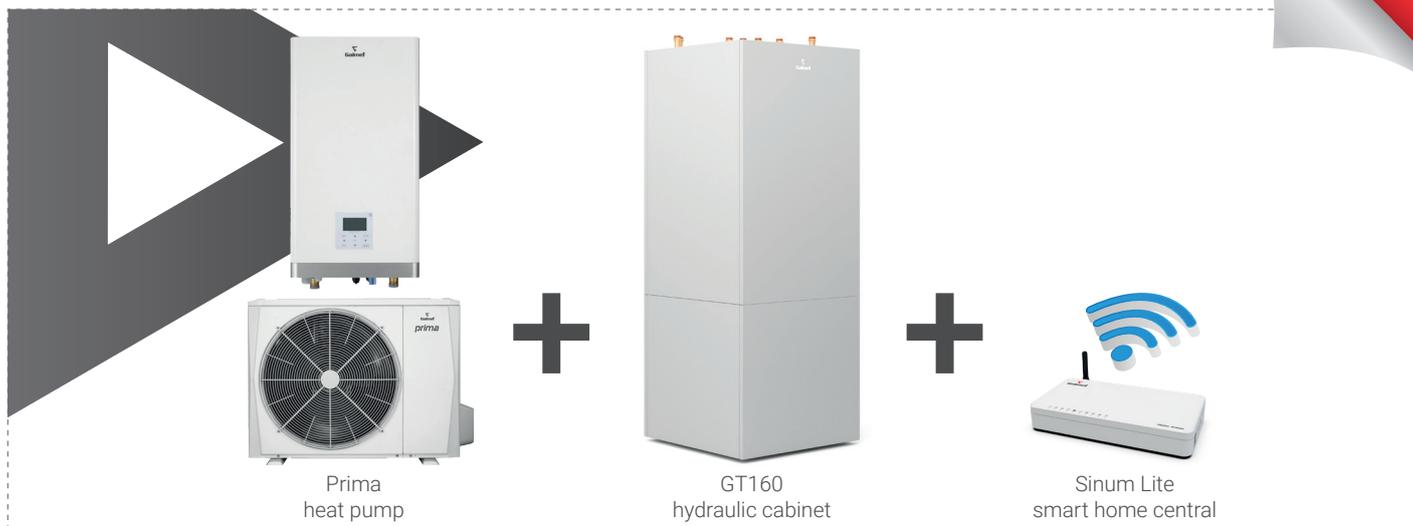
GT160 hydraulic cabinet

### Technical data of the GT160 hydraulic cabinet for Prima S 6-10GT heat pumps

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 <sup>2</sup>	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

NEW

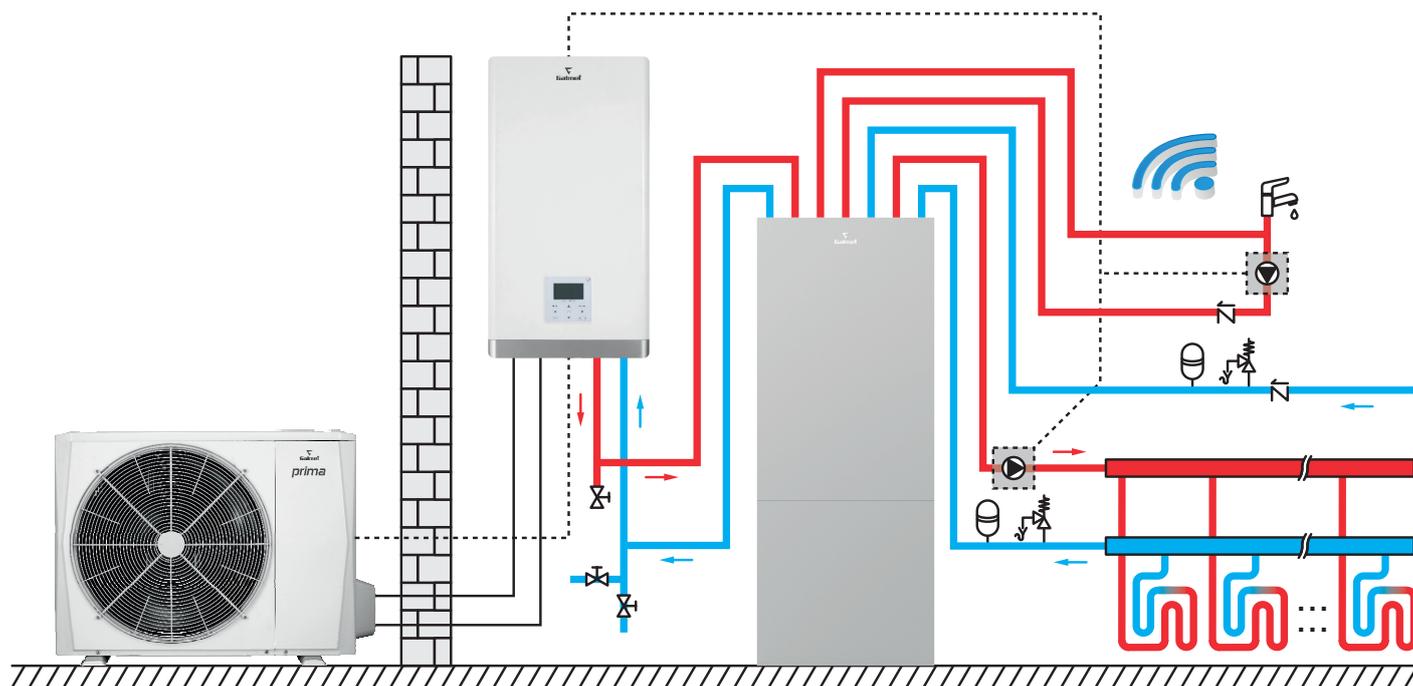
Complete set with Prima S heat pump, GT160 hydraulic cabinet and Sinum Lite smart home central control unit



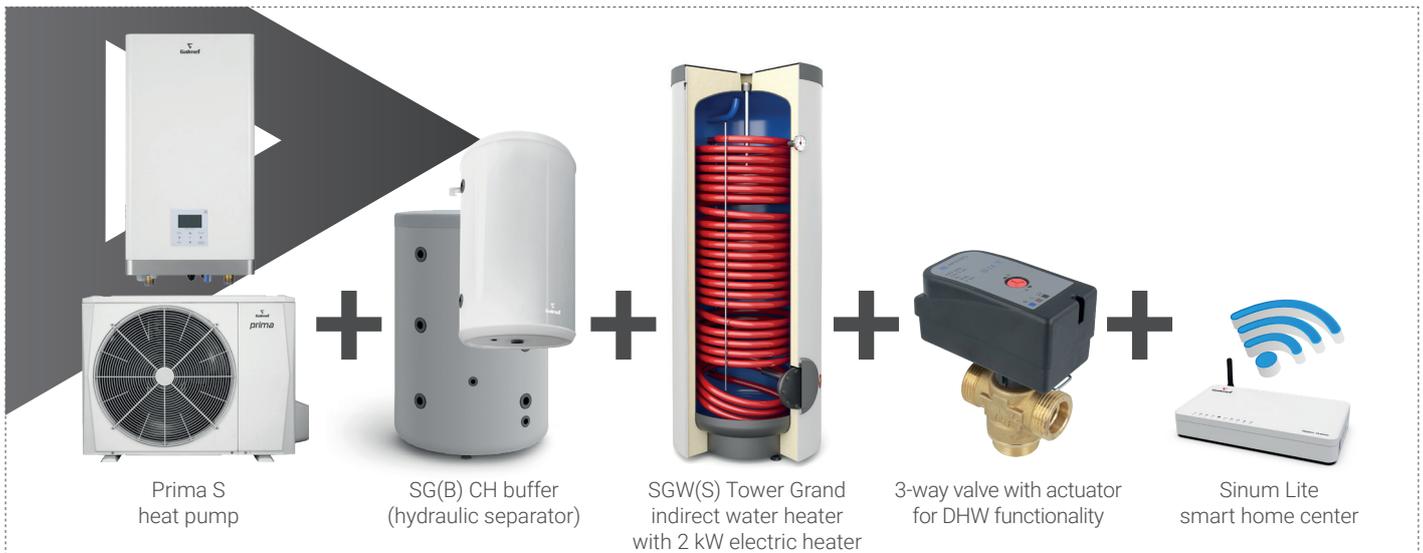
Prima heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central

no.	cat. no.	system includes
1	SG-000661S	Prima S 6GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central
2	SG-000662S	Prima S 8GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central
3	SG-000663S	Prima S 10GT heat pump + GT160 hydraulic cabinet + Sinum Lite smart home central

System diagram with GT160 hydraulic cabinet



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



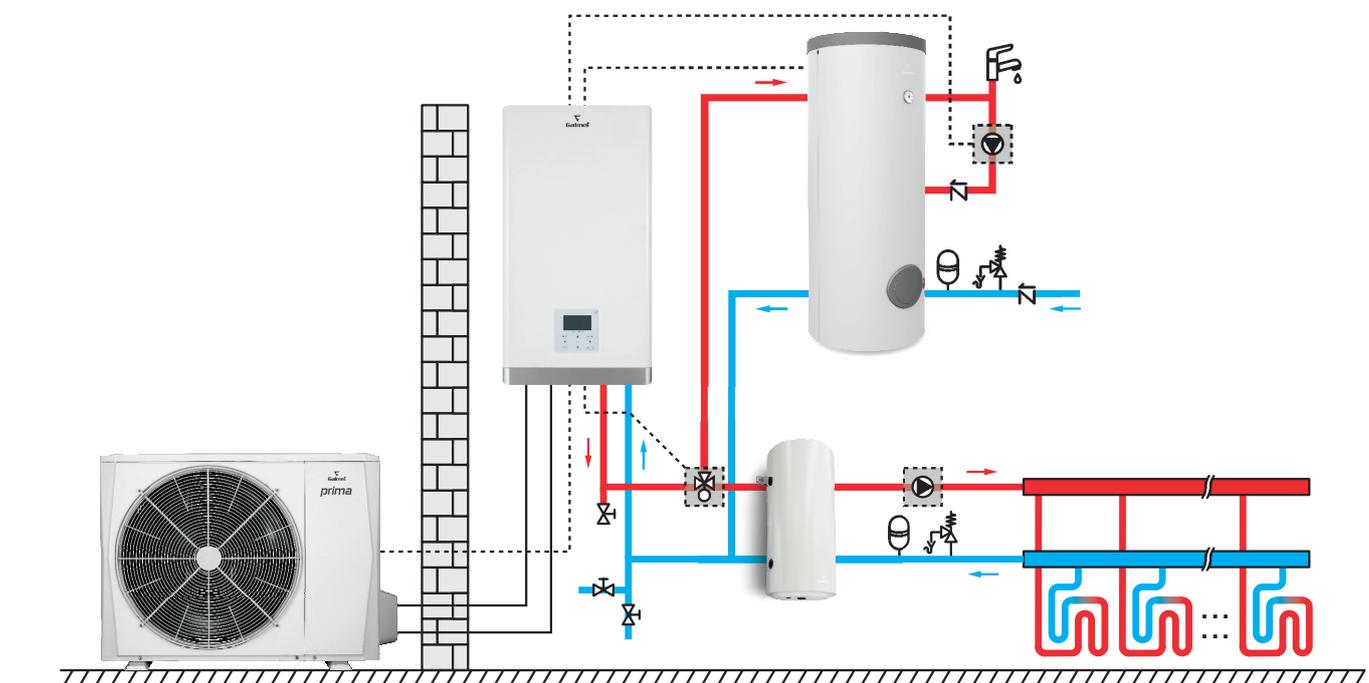
no.	cat. no.	system includes
1	SG-000061S	Prima S 6GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center
2	SG-000062S	Prima S 8GT heat pump + SG(B) 60 CH buffer + SGW(S) Tower Grand 200 indirect water heater + 3-way valve with actuator for DHW functionality + Sinum Lite smart home center
3	SG-000063S	Prima S 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-000064S	Prima S3F 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-000066S	Prima S3F 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-000082S.1	Prima S 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-000083S	Prima S3F 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-000084S	Prima S3F 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.



# Technical specification of the Prima S heat pumps

	unit	Prima S 6GT	Prima S 8GT	Prima S 10GT	Prima S3F 12GT	Prima S3F 16GT	
outdoor unit model	-	ODU Prima S 6GT	ODU Prima S 8GT	ODU Prima S 10GT	ODU Prima S3F 12GT	ODU Prima S3F 16GT	
indoor unit model	-	IDU Prima S 6GT	IDU Prima S 8-10GT	IDU Prima S 8-10GT	IDU Prima S3F 12-16GT	IDU Prima S3F 12-16GT	
heating power	kW	6,20	8,30	10,00	12,10	16,00	
electrical power	heating mode (A7W35) <sup>1</sup>	kW	1,24	1,60	2,00	2,44	3,56
COP	-	5,00	5,20	5,00	4,95	4,50	
heating power	kW	6,00	7,50	9,50	12,00	16,00	
electrical power	heating mode (A7W55) <sup>1</sup>	kW	2,00	2,36	3,06	3,87	5,52
COP	-	3,00	3,18	3,10	3,10	2,90	
heating power	kW	7,00	7,40	8,20	11,60	14,00	
electrical power	cooling mode (A35W7) <sup>1</sup>	kW	2,33	2,19	2,48	4,22	5,71
EER	-	3,00	3,38	3,30	2,75	2,45	
ErP  energy efficiency class	W35	-	-	A+++	-	-	
	W55	-	-	A++	-	-	
rated water flow	m <sup>3</sup> /h	1,07	1,43	1,72	2,08	2,75	
compressor	-	-	-	twin rotary	-	-	
fan	-	-	-	DC	-	-	
heat exchanger (evaporator)	-	-	-	lamellar	-	-	
refrigerant	-	R32 1,5 kg	R32 1,65 kg	R32 1,65 kg	R32 1,84 kg	R32 1,84 kg	
pipe connections	connection type	-	-	-	-	-	
	liquid (Ø)	mm	6,35	9,52	9,52	9,52	
	gas (Ø)	mm	-	-	15,9	-	-
	min. length	m	-	-	2	-	-
	max. length	m	-	-	30	-	-
installation height difference	m	-	-	20	-	-	
acoustic power of the outdoor unit <sup>2</sup>	dB	46	59	54	64	61	
acoustic pressure of the outdoor unit <sup>3</sup>	dB	28	39	36	44	43	
acoustic power of the indoor unit <sup>2</sup>	dB	33	42	37	43	32	
dimensions of the outdoor unit (height x width x depth)	mm	712 x 1008 x 426	865 x 1118 x 523	865 x 1118 x 523	865 x 1118 x 523	865 x 1118 x 523	
dimensions of the indoor unit (height x width x depth)	mm	790 x 420 x 270	790 x 420 x 270	790 x 420 x 270	790 x 420 x 270	790 x 420 x 270	
package dimensions of the outdoor unit (height x width x depth)	mm	810 x 1065 x 485	970 x 1190 x 560	970 x 1190 x 560	970 x 1190 x 560	970 x 1190 x 560	
package dimensions of the indoor unit (height x width x depth)	mm	1050 x 525 x 360	1050 x 525 x 360	1050 x 525 x 360	1050 x 525 x 360	1050 x 525 x 360	
net / gross weight of the outdoor unit	kg	58 / 63,5	75 / 89	75 / 89	97 / 110,5	112 / 125,5	
net / gross weight of the indoor unit	kg	43 / 49	43 / 49	43 / 49	45 / 51	45 / 51	
heating power modulation range (min/max) A7W35 <sup>1</sup>	kW	2,7 / 7,4	3,4 / 9,1	3,8 / 10,3	5,6 / 14,6	6,4 / 16,8	
electric heater power	kW	3	3	3	9	9	
connections of the indoor unit	*	1	1	1	1	1	
outdoor temperature range	cooling	°C	-	-5 ~ 43	-	-	
	heating	°C	-	-25 ~ 35	-	-	
	DHW	°C	-	-25 ~ 43	-	-	
heat exchanger (condenser)	-	-	-	plate type	-	-	
water temperature range	cooling	°C	-	5 ~ 25	-	-	
	heating	°C	-	25 ~ 65	-	-	
	DHW	°C	-	30 ~ 60	-	-	
voltage and frequency	outdoor unit	V / Hz	220-240 / 50	220-240 / 50	220-240 / 50	380-415 / 50	
	indoor unit	V / Hz	220-240 / 50	220-240 / 50	220-240 / 50	380-415 / 50	

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

<sup>2</sup> According to the EN 12102 norm.

<sup>3</sup> At a distance of 3 meters.



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