

**GAVINA 20 GT, 20 GT-F, 30 GT,
& 30 GT-F Confort**
20 GTI, 20 GTI-F, 30 GTI, & 30 GTI-F Confort
26 GTA & 26 GTA-F Confort

ROCA
BAXI GROUP

ES

Grupos Térmicos

Instrucciones de Instalación,
Montaje y Funcionamiento
para el **INSTALADOR**

GB

Heating Units

Installation, Assembly and
Operating Instructions
for the **INSTALLER**

FR

Groupes Thermiques

Instructions d'Installation,
de Montage et de Fonctionnement
pour l'**INSTALLATEUR**

DE

Heizkessel

Installations-, Montage-
und Betriebsanleitung
für den **INSTALLATEUR**

IT

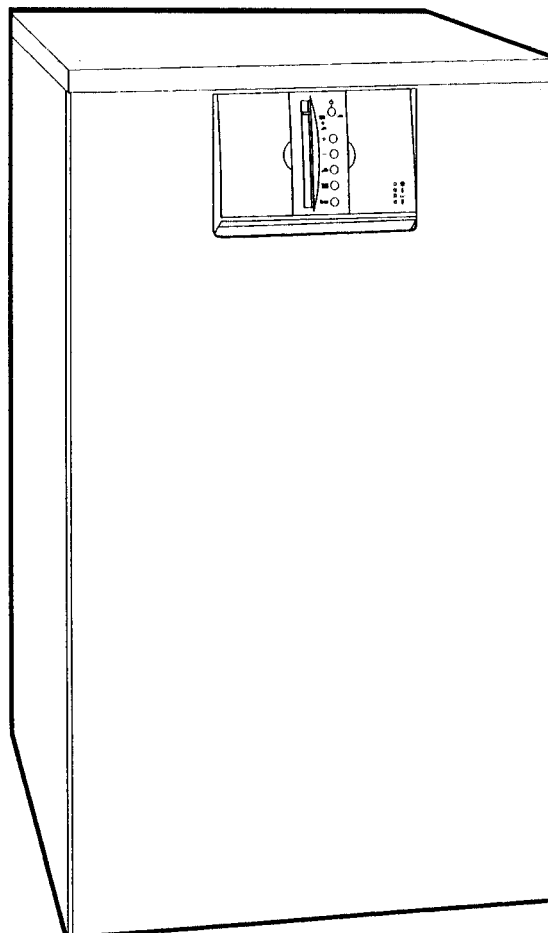
Gruppi Termici

Istruzioni d'Installazione,
Montaggio e Funzionament
per l'**INSTALLATORE**

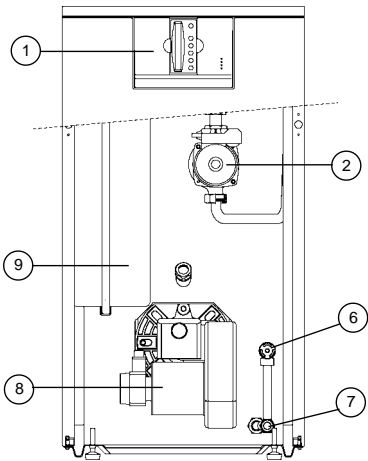
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Grupos Térmicos

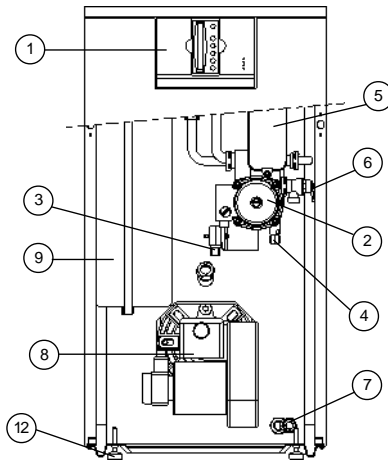
Instruções de Instalação,
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para o **INSTALADOR**



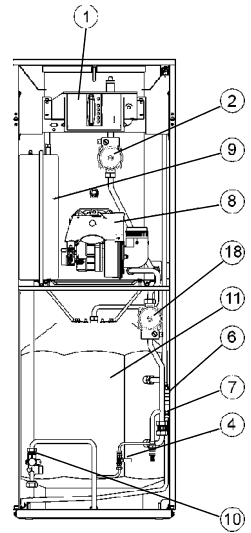
GAVINA GT Confort



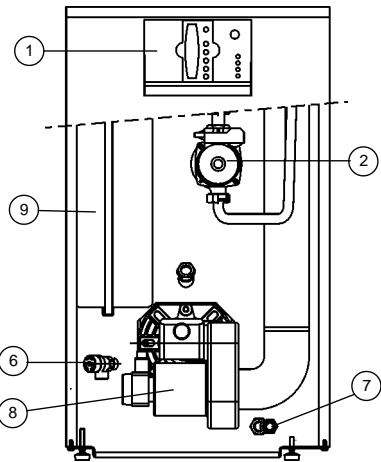
GAVINA GTI Confort



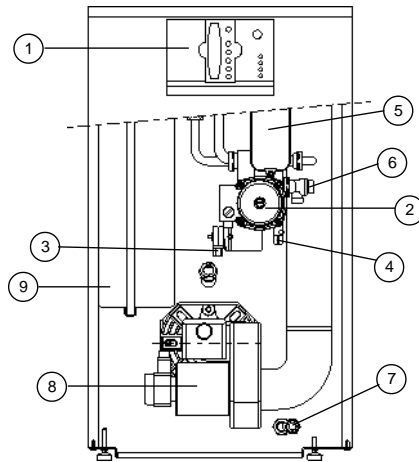
GAVINA 26 GTA Confort



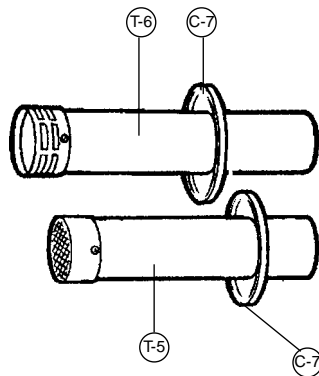
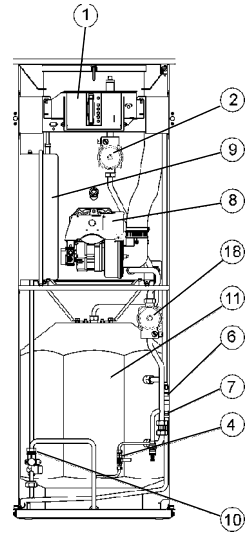
GAVINA GT-F Confort



GAVINA GTI-F Confort



GAVINA 26 GTA-F Confort



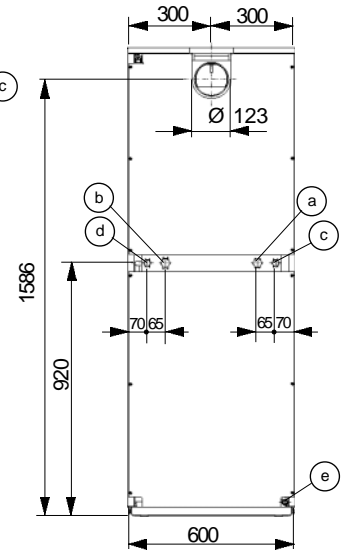
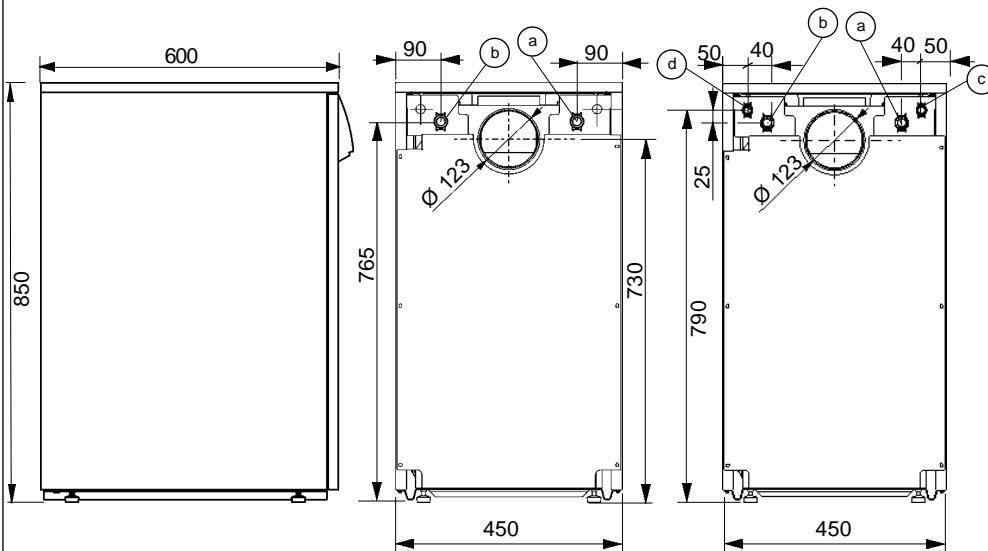
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GAVINA GT Confort

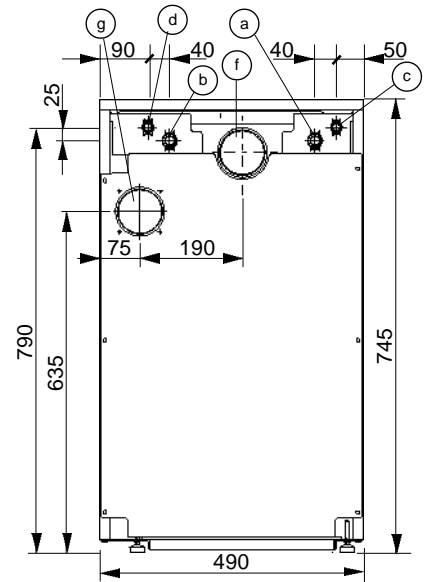
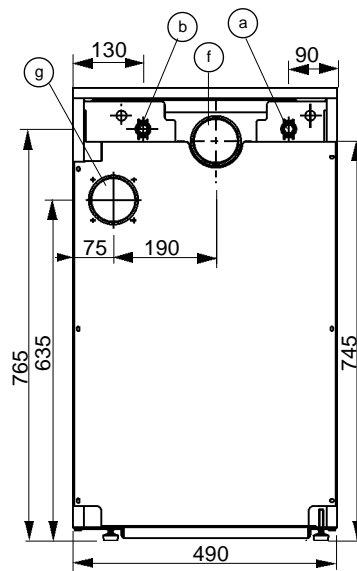
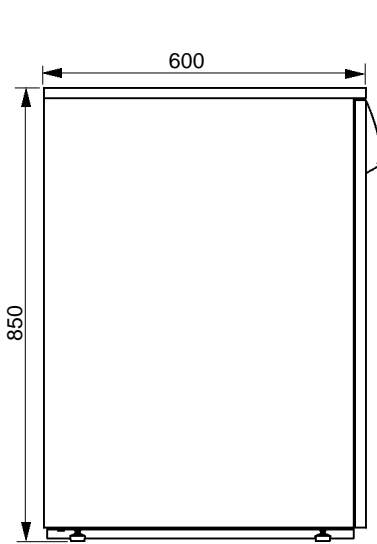
GAVINA GTI Confort

GAVINA 26 GTA Confort



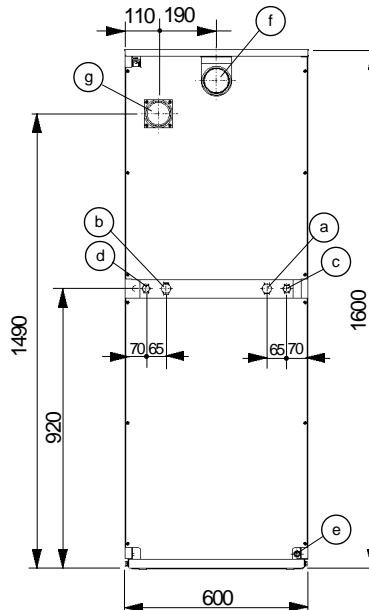
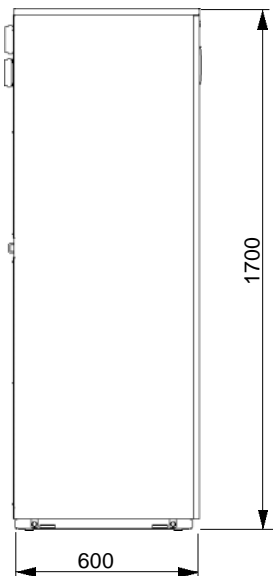
GAVINA GT-F Confort

GAVINA GTI-F Confort



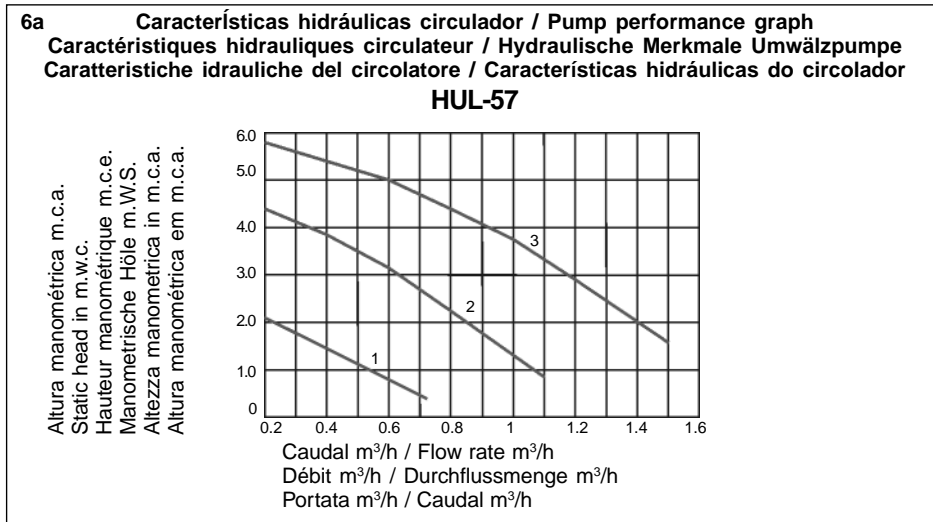
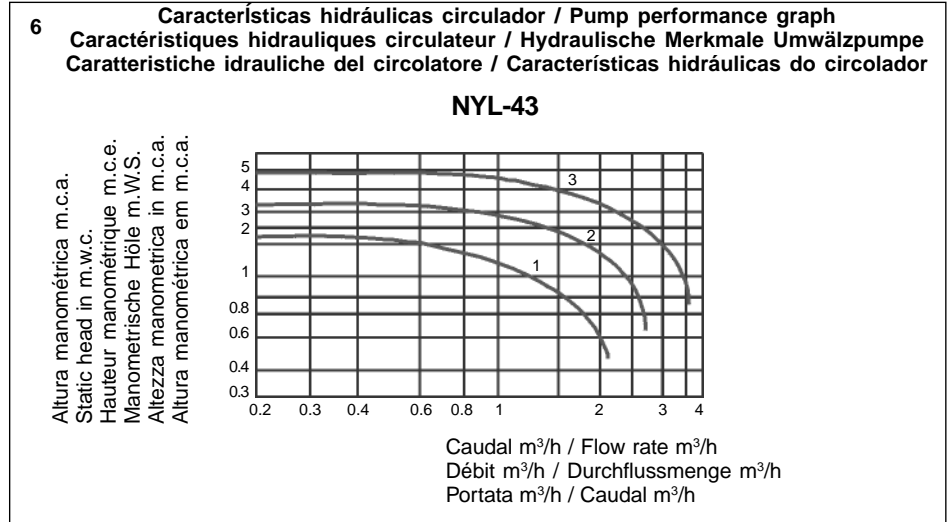
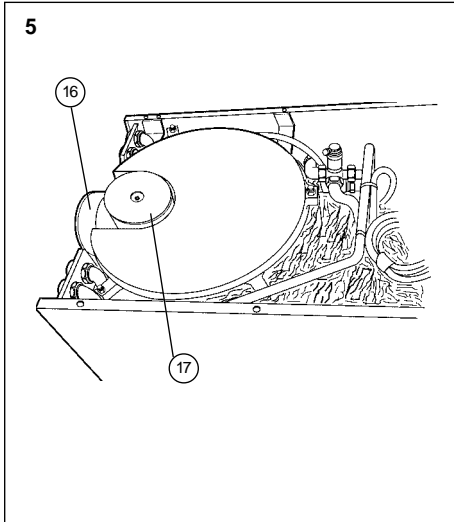
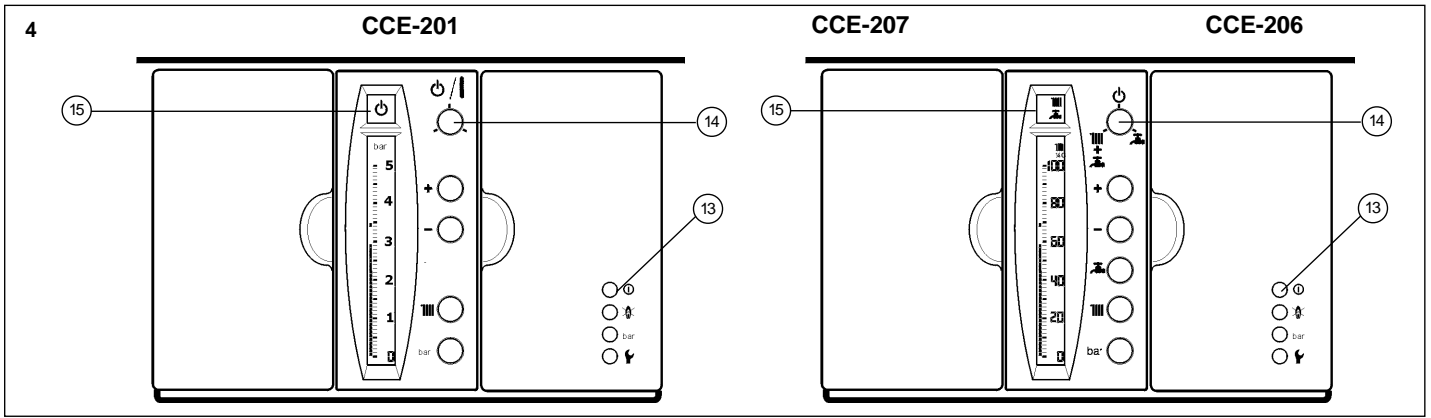
GAVINA 26 GTA y GTA-F Confort

GAVINA 26 GTA-F Confort



**Ø" Conexiones / Ø" Connections
Ø" Connexions / Ø" Anschlüsse
Ø" Collegamenti / Ø" Conexões**

- a = Retorno / Return
Retour / Rücklauf
Ritorno / Retorno 3/4"
- b = Ida / Flow / Aller
Vorlauf / Mandata / Ida 3/4"
- c = Entrada agua red / Mains water inlet
Entrée eau reseau
Einlauf Leitungswasser
Entrata acqua rete /
Entrada água rede 1/2" (3/4" en GTA)
- d = Consumo de A.C.S. / D.H.W. outlet
Consumption de E.C.S.
Heißwasserverbrauch /
Consumo di A.C.S. /
Consumo de A.Q.S. 1/2 (3/4" en GTA)
- e = Desagüe / Drain / Decharge
Abfluß / Scorio / Esgoto 1/2"
- f = Salida humos / Flue outlet
Sortie des fumées / Rauchaustritt
Uscita fumi / Saída de fumos
- g = Entrada aire / Air inlet / Entrée d'air
Lufteintritt / Entrata aria / Entrada de ar"



Características principales / Main characteristics / Principales caractéristiques Hauptmerkmale / Caratteristiche principali / Características principais

| Grupo Térmico Modelo | Potencia útil | * Rendimiento útil % | Capacidad de agua, litros | * Pérdida carga circuito humos (mm.c.a.) | Quegador de gasóleo Modelo | Circulador Modelo | Producción continua A.C.S. | Peso aprox. | |
|--------------------------------|-----------------|----------------------|----------------------------|---|------------------------------|---------------------|----------------------------|---------------|-----|
| Heating Unit Model | Heat Output | * Net efficiency % | Water content, litres | * Flue circuit pressure dropp (mm. W.c.) | Burner Model | Pump Model | D.H.W. Production | Aprox. weight | |
| Groupe Thermique Modèle | Puissance utile | * Rendement utile % | Capacité en eau, litres | * Perte charge circuit fumées (mm.c.e.) | Brûleur au gazole Modèle | Circulateur Modèle | Production E.C.S. | Poids approx. | |
| Heizkessel Modell | Nutzleistung | * Nutzungsgrad % | Wasserinhalt. Liter | * Ladeverlust Rauchkreislauf mmWS | Dieselprenner Modell | Umwälzpumpe Modell | Heizwasser- production | Geiwcht ca. | |
| Gruppo Termico Modello | Potenza utile | * Rendimento utile % | Capacità d'acqua, litri | * Perdita di carico circuito fumi (mm.c.a.) | Bruciatore a gasolio Modello | Circulatore Modello | Produzione A.C.S. | Peso appros. | |
| Grupo Térmico Modelo | Potência útil | * Rendimiento útil % | Capacidade de água, litros | * Perda carga circuito fumos (mm.c.a.) | Queimador gasóleo Modelo | Circulador Modelo | Produção de A.Q.S. | Peso aprox. | |
| | kcal/h | kW | | | | | L/min. Δt 30 °C | (Kg) | |
| GAVINA 20 GT Confort | 20.000 | 23,2 | 88,1 | 29 | 3,5 | Newtronic 2 RS | NYL-43 | - | 122 |
| GAVINA 20 GT-F Confort | 20.000 | 23,2 | 88,1 | 29 | 3,5 | Newtronic 2 RS | NYL-43 | - | 130 |
| GAVINA 20 GTI Confort | 20.000 | 23,2 | 88,1 | 29 | 3,5 | Newtronic 2 RS | HUL-57 | 11,1 | 126 |
| GAVINA 20 GTI-F Confort | 20.000 | 23,2 | 88,1 | 29 | 3,5 | Newtronic 2 RS | HUL-57 | 11,1 | 135 |
| GAVINA 26 GTA Confort | 26.000 | 30,2 | 88,3 | 24 | 2,5 | Newtronic 3 RS | NYL-43 | **12,7 | 203 |
| GAVINA 26 GTA-F Confort | 26.000 | 30,2 | 88,3 | 24 | 2,5 | Newtronic 3 RS | NYL-43 | **12,7 | 207 |
| GAVINA 30 GT Confort | 29.000 | 33,7 | 88 | 24 | 3,1 | Newtronic 4 RS | NYL-43 | -- | 131 |
| GAVINA 30 GT-F Confort | 29.000 | 33,7 | 88 | 24 | 3,1 | Newtronic 4 RS | NYL-43 | -- | 139 |
| GAVINA 30 GTI Confort | 29.000 | 33,7 | 88 | 24 | 3,1 | Newtronic 4 RS | HUL-57 | 16,1 | 135 |
| GAVINA 30 GTI-F Confort | 29.000 | 33,7 | 88 | 24 | 3,1 | Newtronic 4 RS | HUL-57 | 16,1 | 144 |

* A potencia nominal y CO₂=13% / At nominal output and CO₂=13% / Puissance nominale et CO₂=13% / Bei Nennleistung und CO₂=13% / A potenza nominale e CO₂=13% / A potência nominal e CO₂=13%

** Caudal específico 22,8l/min. para Δt=30°C / Specific Flow rate 22,8 l/min. for a Δt=30°C / Débit spécifique 22,8 l/min. pour Δt=30°C / Spezifische Durchflußmenge 22,8 l/m. bei Δt=30°C / Portata specifica 22,8 l/m. per Δt=30°C / Caudal específico 22,8 l/m para Δt=30°C

| Consumos eléctricos / Electrical power consumption / Consommations électriques / Stromverbrauchswerte / Consumi elettrici / Consumos eléctricos | | | | |
|---|--|--|---|---|
| | Quegador / Burner Brûleur / Brenner Bruciatore / Queimador | Circulador / Pump Circulateur / Umwälzpumpe Circulatore / Circulador | Válvula 3 vías / 3-way valve Vanne 3 vois / 3-Wege-Ventil Valvola a 3 vie / Válvula de 3 vías | Total potencia máx. absorbida Total Power Input Puissance totale max. absorbée Gesamt. max. Leistungsaufnahme Totale pot. mass. assorbita Total da pot. máx. absorvida |
| GAVINA 20 GT Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 20 GT-F Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 20 GTI Confort | 140 W | 90 W | 4 W | 234 W |
| GAVINA 20 GTI-F Confort | 140 W | 90 W | 4 W | 234 W |
| GAVINA 26 GTA-F Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 26 GTA Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 30 GT-F Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 30 GTI-F Confort | 140 W | 90 W | 4 W | 234 W |
| GAVINA 30 GT Confort | 140 W | 90 W | -- | 230 W |
| GAVINA 30 GTI Confort | 140 W | 90 W | 4 W | 234 W |

Tensión de alimentación: 230 V (+10% - 15%), 50 Hz
Temperatura máxima de servicio: 100 °C
Presión máxima circuito calefacción: 3 bar
Presión máxima circuito agua sanitaria: 7 bar
Capacidad depósito expansión: 10 litros
Presión llenado depósito expansión: 0,5 bar
Supply voltage: 230 V (+10% - 15%), 50 Hz
Maximum operating temperature: 100 °C
Maximum pressure (heating circuit): 3 bar
Maximum pressure (hot water circuit): 7 bar
Expansion vessel capacity: 10 litres
Expansion vessel fill pressure: 0,5 bar

Tension d'alimentation: 230 V (+10% - 15%), 50 Hz
Température maximale de service: 100 °C
Pression maximale circuit de chauffage: 3 bar
Pression maximale circuit eau sanitaire: 7 bar
Capacité réservoir d'expansion: 10 litres
Pression remplissage du réservoir d'expansion: 0,5 bar
Versorgungsspannung: 230 V (+10% - 15%), 50 Hz
Maximale Betriebstemperatur: 100 °C
Maximaler Betriebsdruck im Heizkreislauf: 3 bar
Maximaler Betriebsdruck im Heißwasserkreislauf: 7 bar
Fassungsvermögen Ausdehnungsgefäß: 10 Liter
Fülldruck Ausdehnungsgefäß: 0,5 bar

Tensione di alimentazione: 230 V (+10% - 15%), 50 Hz
Temperatura massima di servizio: 100 °C
Pressione massima di servizio del circuito di riscaldamento: 3 bar
Pressione massima di servizio del circuito di acqua calda dei sanitari: 7 bar
Capacità del vaso di espansione: 10 litri
Pressione di riempimento del vaso di espansione: 0,5 bar
Tensão de alimentação: 230 V (+10% - 15%), 50 Hz
Temperatura máxima de serviço: 100 °C
Pressão máxima circuito de calefação: 3 bar
Pressão máxima circuito água sanitária: 7 bar
Capacidade depósito expansão: 10 litros
Pressão enchimento depósito expansão: 0,5 bar

Delivery

In a single package containing:

– Fully assembled and wired boiler.

– Burner, assembled and pre-adjusted.

The GAVINA GT-F, GTA-F and GTI-F Confort also has an additional package which contains:

– Air supply tube and flue outlet kit Ø 80.

See Fig.2

Main components

See Figure 1

Legend

1 – Control panel

CCE-201 for GAVINA GT Confort and for GAVINA GT-F Confort

CCE-207 for GAVINA GTI Confort

and for GAVINA GTI-F Confort

CCE-206 for GAVINA GTA Confort

and for GAVINA GTA-F Confort

2 – Pump

3 – Motorized 3-way valve

4 – Fill point valve

5 – Heat exchanger

6 – Safety valve 1/2"

7 – Draw-off cock 1/2"

8 – Burner

9 – Expansion vessel 10 l.

10 – Safety unit Flexbrane

11 – Storage Cylinder 120 l.

12 – Boiler levelling studs

18 – DHW pump

Installation

– Observe current regulations.

– In the event of being installed in the kitchen, embedded in the furniture under the countertop, it should be desinged in a way, that there is enough room for access for the maintenance and cleaning operations of the boiler, and on top of that, ensure that the smoke exhaust pipes, the water connections and the chimney are easily reachable.

– With all the GAVINA Confort models, except GT-F, GTI-F and GTA-F Confort, please note that in order to obtain the data plate output the chimney size should conform to the minimum height and diameter there on indicated:

| Chimney height | Minimum diameter or square side |
|----------------|---------------------------------|
| 5 m | 17,5 cm |
| 6 m | 16 cm |
| ≥ 7 m | 15 cm |

– In the GAVINA GT-F, GTA-F and GTI-F Confort boiler, the air suction pipe and the smoke exhaust pipe are separated. In both cases, their maximum length will be of 7 m (straight line) plus an elbow of 90°; this length will be reduced in 0,7 m. for each added elbow.

– Every metre reduced in length of the air suction pipe allows an increase of 0,5 m in the length of the exhaust pipe.

Example:

Air suction pipe length = 1 m.

(maximum allowed is 7 m.)

Reduction = 7 m – 1 m = 6 m

Maximum exhaust pipe length = 7 m + (6 x 0,5) = 10 m.

– The installation should include a switch, a circuit breaker or other omnipolar disconnect switch to isolate all power supply lines to the unit.

Notes:

* When fitting approved chimneys, please observe the manufacturer's specifications.

* To remove possible residue from the chimney, it is advisable to have a handhole at the base for this purpose.

* Ensure there is a 230V-50 Hz single-phase earthed power point as well as a water supply and a drain near the final installation location of the Heating Unit.

Assembly

Level and height

– Level the boiler base and adjust its height by turning the levelling studs (12) (Fig. 1) provided. To raise the boiler, turn the studs clockwise. To lower it, turn the studs anticlockwise.

Connecting the boiler to the system

– Remove the top casing panel.

– Make the connections for the Flow and Return circuit through (b) and (a), as well as the mains water inlet and Domestic Hot Water outlet (in GTI and GTA models) through (c) and (d). See Fig. 3.

– Route the draw-off cock and the safety valve discharge to the general waste system.

Conection to the chimney

All models, except GAVINA GT-F, GTI-F and 26 GTA-F Confort.

– The Heating Units are delivered with rear flue outlet (16) Fig. 5.

– If a top flue outlet is required (17) Fig. 5, undo the screw, remove the top casing panel and its insulation and fit it onto the rear flue socket.

– Pack round the joint between the boiler and the chimney in order to prevent ingress of unwanted air.

GAVINA GT-F, GTA-F and GTI-F Confort

– Connection of the air supply tubes and the flue outlet sections should be on a horizontal plane. Two straight sections of about 1 m and 80 mm diameter are supplied (one for air supply and another for flue gas removal) See Fig. 2. Should additional elbows or extensions be needed, they will have to be ordered additionally (see flue accessories catalogue for room-sealed wallhung boilers).

Watertight test

– Fill the system with water (in Heating Units GTI and GTA, through the fill point cock (4) Fig. 1, until the point in which the pressure in the **bar** scale in the control panel is located between 1 and 1,5 bar.

– Check that there are no leaks in the hydraulic circuit.

Fuel supply

– Make the connection between the burner and the fuel supply line.

Electrical Connections

For connecting additional and/or external appliances, please refer to the instructions supplied with the CCE Control Panel.

Operation

Procedure prior to first lighting

– Connect the boiler to the power supply and check that the control panel is under voltage. The LED of "power on" (13) symbol lights up in green. (Fig. 4)

– In case of malfunction, please refer to the "Fault Codes" section in the Instructions for the CCE control panels.

– Bleed the air from the installation and radiators and top up if necessary, until the fill pressure value on the scale reaches the required level.

– Careful attention should be paid to the general instructions supplied with the CCE control panels.

– Check that the boiler parameters and those for the installation and associated features such as temperature, service selection, day, time, etc. have been properly selected and set in accordance with the Instructions for the CCE control panels.

Checking operation of the safety limit thermostat

It is advisable to carry out this check in order to prevent future serious malfunction. This can only be done if no lockout condition exists, that is, under code 00 (refer to the "Fault Codes" section in the Instructions for the Control Panels) or because of a lockout (code 11) caused by the limit thermostat itself.

– With the service selector key (14) select "wait". (Fig. 4)

– Press the "bar" key. The pressure scale and its current value will be displayed.

– Next press "+" and "-" simultaneously. The screen will flash 5 times before displaying code 00 only - if no lockout condition exists. In case of lockout, the code corresponding to the fault that caused it will be displayed in the way explained in the Instructions for the mentioned CCE control panels.

– Stop pressing "+" and "-".

– Press the "+" key, and without releasing it, press "radiator". The screen will flash twice before showing the temperature scale from 40 °C to 140 °C, with the segment in line with 114 °C flashing slowly. The burner will run but the pump will not if the boiler temperature is equal to or lower than 80 °C. The boiler sensor operation is cancelled.

1 – If the limit thermostat comes into operation before the boiler reaches 114 °C, it means that it is working correctly. In this case, the burner will not run but the pump will.

– The screen will alternate displaying code 04 and the 40 °C to 140 °C scale. No Service indication will be displayed (15) in the top screen.

– Wait until the boiler temperature drops to 80 °C and reset the limit thermostat. The "flame" LED will go off.

– Next press "-" key and "radiator" simultaneously. The screen will flash and then display code 00 only.

– Stop pressing "-" and "radiator".

– Next press "+" and "-" simultaneously.

The screen will flash twice before displaying the pressure scale with the fill value. The top screen (15) will show "wait".

– Stop pressing "+" and "-".

2 – If the limit thermostat does not come into operation before the boiler reaches 114 °C, it means that it is not working correctly. In this case, the burner will not run but the pump will.

- The screen will alternate displaying code 11 and the 40 °C to 140 °C scale.
- Replace the thermostat with a new one.

First lighting

Note:

- Heating Units GAVINA incorporate a burner whose first lighting takes place 6 minutes after receiving voltage. Later ignitions are almost instantaneous.
- Check the pump for correct operation and unlock it, if necessary, by pressing a screwdriver into the slot on the shaft-end and at the same time, turn it.
- Check the burner for correct operation.
- Check that there are no flue gas leaks and that radiators reach the required temperature.

Central Heating Service

GAVINA GT and GT-F Confort models

During demand for heating:

- The "radiator" symbol flashes slowly.
- The burner runs until the boiler temperature equals the temperature setpoint for heating (factory set at 70 °C). Refer to the section "Changing the Setpoints" in the Instructions for CCE control panels.
- The pump runs if the boiler temperature is higher than the programmed Min. Heat. Temp. and does not work when its value is lower than the Min. Heat. Temp. -7 °C.

When demand for heating stops:

- The "radiator" symbol is fixed.
- The burner does not operate.
- The pump runs until the boiler temperature is equal to or lower than the Min. Heat. Temp. or two minutes after burner shut-down.

Domestic Hot Water Service Only

GAVINA GTI Confort and GAVINA GTI-F Confort models

The burner runs for the boiler water temperature set-point to reach that set for domestic hot water +15 °C. The 3-way valve is not energized and so it remains closed into the heating installation.

During demand (draw-off):

- The "tap" symbol will flash slowly.
- The circulating pump will cycle so that the DHW mean temperature is very close to the set-point for this service.

When demand (draw-off) finishes:

- The "tap" symbol stops flashing.
- The pump will not run.
- The 3-way valve remains closed.

Domestic Hot Water Service Only

GAVINA 26 GTA Confort and GAVINA 26 GTA-F Confort models

- The "tap" symbol in the top screen is permanently ON.
- 1 - **With no production of Domestic Hot Water** (no "Domestic Hot Water" programme or with the cylinder water hot):
 - The "tap" symbol in the screen is permanently ON.
 - The burner and pump are not working, except for maintenance purposes.
- 2 - **With Domestic Hot Water production** ("Domestic Hot Water" programme or with the cylinder water not hot):
 - The "tap" symbol flashes slowly. Production of hot water begins when the cylinder water temperature drops 2 °C below the set-point (the factory setting is 60 °C) and stops when the cylinder water reaches the set-point temperature.

- The boiler water is adjusted to reach 80 °C. The pump will only run the first time provided the boiler water temperature is 5 °C higher than that in the DHW cylinder and the boiler temperature > Min. Heat. Temp.

Combined Central Heating and DHW Service

GAVINA GTI Confort and GAVINA GTI-F Confort models

When relighting after a long period of non-use, the DHW sensor reveals insufficient heat. No matter which service mode has been selected, the burner will take priority over Domestic Hot Water, the "tap" symbol will flash and the "radiator" symbol will be permanently ON. Following the first stage of operation, and as long as there is demand for domestic hot water, the operating mode will coincide with that mentioned in the previous section, excepting that the "radiator" symbol will also show in the top screen (15). (Fig. 4).


When demand for domestic hot water only stops (but not for Heating):

- The "radiator" symbol will flash slowly and the "tap" symbol will remain permanently ON.
- The burner will run until the boiler temperature reaches the Heating set-point.
- The pump will start running in order to deliver water to the Heating circuit when the 3-way valve is energized and will open when the boiler temperature rises above the Min. Heat. Temp; and it will stop running when the Min. Heat. Temp. drops below -7 °C (the 3-way valve remains open).

When demand for Heating ends, the "radiator" and "tap" symbols will stop flashing. The pump will stop running and the 3-way valve will close. The boiler temperature set-point will remain at the temperature set-point selected for Domestic Hot Water +15 °C.

N.B.

With GAVINA units featuring instantaneous DHW production (GTI models), whenever the power supply to the boiler is to be isolated, proceed as follows:

First, set the boiler on «Stand-by» by pressing .

Second, turn off the power supply.

Combined Central Heating and DHW Service

GAVINA 26 GTA Confort and GAVINA 26 GTA-F Confort models

Both the "radiator" and "tap" symbols are displayed.

When the unit starts operating, the water in the boiler is cold. The "tap" symbol flashes and the "radiator" symbol is permanently ON. During demand for Domestic Hot Water, operation will coincide with that described under "Domestic Hot Water Service Only".

When demand for Domestic Hot Water only stops (but not for Heating):

- The "radiator" symbol will flash slowly, but not the "tap" symbol.
- The burner will run until the boiler temperature reaches the Heating set-point value.

The pump will start running when the boiler temperature rises above the Min. Heat Temp. and will stop running when the Min. Heat. Temp. drops below -7 °C.

When demand for Heating ends, the "radiator"

and "tap" symbols will stop flashing. The burner will stop running, but pump will continue to run for one minute or until the boiler water temperature drops below the Min. Heat. Temp.

Important recommendations

- Any modification and/or replacement of cables and connections, excepting those for the power supply and the room thermostat, should be performed by a **ROCA** Service Technician.
- It is recommended that the properties of the water in the system be:

pH : between 7.5 and 8.5

Hardness: between 8 and 12 French degrees*

* One French degree is equivalent to 1 gram of calcium carbonate per 100 litres of water.

Note:

Specifications and performance qualities are subject to change without notice.

CE Marked

The GAVINA Confort Heating Units comply with the European Directives 89/336/EEC on Electromagnetic Compatibility, 73/23/EEC on Low Voltage, 92/42/EEC on Efficiency and 97/23/EEC Pressurized Equipments.

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