

# Same reliable hot water

## *Pleasant relaxation*

! GODDESS B, developed by extraordinary platform technology! Goddess, with the addition of a *excellent "accumulation"* provide maximum Healthcare performance, thanks to the kettle completely in stainless steel AISI 316 L, *from 60 litres.*

Equipped with a modulating high efficiency pump. In line with Directive **2015 ErP** with less 1W standby and only 45 W operation at maximum, thanks to **wide modulation capabilities** according to the request the room thermostat and temperatures detected by sensors placed in send/return, automatically dispenses the boiler output the needs of the plant.

! GODDESS B is designed for maximum comfort for a shower mounted tap constant temperature for a long time, without suffer from "changes" caused by the insertion other utilities.

The *capacity of 60 litres tank well* maintains For more than 20 minutes for delivery becoming "rapid" the exhaustion of the accumulation. Equally quick and comfortable is the fill a large tub.

Sophisticated conventional boiler! GODDESS B, It offers pleasant rediscovered comfort. The user will appreciate the *focus speed the heating system* thanks the use of electronics! GODDESS that allows optimization of operation, in both the modulating heating than in those in on-off control, fitted with the new heat exchanger primary that promotes it, in forced draught pond, among the 3-star performance generators (dir. EC 92/42).

Special attention was paid also the *reduce noise* as well as at *boiler insulation* to avoid annoying and unnecessary disturbances.

The health priority system depends tested with complex *3-way valve supply* adopted on "plus".

### *Features*

#### **Models**

CLASS  
ERP  
CLASS  
ERP  
ROOM  
OPEN  
HEAT EXCHANGER  
MONO  
VALVE

3-WAY  
KETTLE IN  
STAINLESS STEEL  
! GODDESS AB 24  
suitable for installation in C.C.R.  
on the exchanger and kettle.  
The quality and safety

*Mono-copper exchanger*  
*high-performance, 4 pipes (88 fins)*  
*Unical electronic board*  
*HONEYWELL with microprocessor*  
*Modulating high efficiency pump*  
*(Dir. ERP 2015)*  
*Medical probe into the kettle and*  
*self extinguishing polystyrene insulation*  
*Control Panel with display*  
*backlight, multifunction,*  
*"power save"*  
*-Lock timer*  
*pump*  
*Control Panel tilted for*  
*easy access to internal components*  
*Antifreeze protection, with intervention*  
*programmed at 6 and 2° c.*  
**TILTING SYSTEM**  
SIS T EM in BASCUL ANT And

## *Why a choice*

EXPANSION VESSEL  
SANITARY  
THERMOSTAT  
ANTIDEBORDAMENTO SMOKE VENT VALVE  
MANUAL VENT VALVE  
EXPANSION VESSEL  
HEATING  
MEDICAL PROBE  
PRESSURE SWITCH AGAINST  
LACK OF WATER  
CONTROL PANEL  
INSULATED KETTLE  
HEAT EXCHANGER  
SAFETY THERMOSTAT  
COMBUSTION CHAMBER  
BURNER  
SANITARY EXPANSION VESSEL  
CIRCULATOR  
HIGH EFFICIENCY ErP  
GAS VALVE  
ELECTRODE  
IGNITION/DETECTION

## *All the details ...*

! GODDESS B is *modulating*: thanks to advanced electronics, the power output varies continuously according to the request. This dowry determines, thanks the thermostat and sensor, the power snapshot required, reducing on-off phenomena managers of high consumption from 11.1 to 24.6 kW. The *System "ANTIFAST"* further reduces cycle times switching on and off by optimizing yields and costs. ANTIFAST is an electronic ignition retarder which occurs after switching off the boiler to reached temperature.

*Advantages:*

Rapid implementation to ignition of the plant.  
Reduction of on-off cycles with lower consumption and component wear.  
Energy efficiency for heating the Same | wh equal to 59% and Large classification according dir. ERP, which makes a kettle can meet protracted also contemporaries in loads time.

## *Savings with the modulation*

**10 liters per minute**

**100** liters

Time (min)  
Liters

Same production in 10 minutes-coffee at 74° C  
Entering water temperature 12° C

**! GODDESS AB 24**

(⊗ t 35)

**r n t** INSULATED KETTLE 60 lt

SANITARY EXPANSION VESSEL 3 lt

(2.5 bar pre-charge)

Hot water supply pipe

Anode sacrificed, cale

# *... that make the difference!*

## *The advantages of the serpentine*

**Corrosion resistance** through the use of a of the finest metals available, particularly suitable for the high level of hygiene in the field domestic hot water.

**The perfection of welds** thanks to technology "TIG (Tungsten Inert Gas)

**High refractoriness** limestone deposits thanks the mirroring of the surfaces that prevent the cling of scale particles;

**Almost complete transfer of heat** from the primary circuit.

Particular attention was paid

**the insulation thickness** about 30 mm for reduction of waste.

## *Inside the Kettle*

**INOX** AISI 316 L

**Capacity of 60 litres** accumulation, completely FL angled, easy to inspect and insulated polystyrene flame retardant.

**Loading time** from 12 to 74° C in 10 minutes

**Exchange surface** 0.85 m<sup>2</sup>.

**Coil length** primary 13 meters.

Water-water coil arrangement in **2 spirals**

**concentric spheres** removable arrayed at the bottom

of the kettle. This gives the maximum heat transfer with the cold water input, which is injected from a special rompifl Ow which reduces turbulence in the upper zone, where the withdrawal of water warm.

The magnesium anode preserves from eddy currents the integrity of the kettle and confirms

the **5 years warranty** .

Healthy water thanks to **Legionnaires ' disease** : the very useful automatic electronic program provides every 186 hours, a cycle at high temperature (70°) that "sterilizes" the kettle by preventing any bacterial growth.

Drain tap.

*Information display Manometer*

*Same temperature control heating temperature control*

*Release button/function. chimney sweep*

## *Intuitive controls*

### *Control Panel*

! GODDESS B is designed to provide you with the maximum ease of use by taking advantage of the "family feeling" series.

The control panel is intuitive and ergonomic: 2 knobs to the primary functions, the display shows the functions activated,

the temperature and the type of problem that could be checked.

The timed backlit LCD display, multifunction, allows:

Reading the temperature in heating and sanitary

Viewing the block for lack of FL AME

State of operation/standby

Diagnostics with 11 signal abnormalities

Knob: ON/OFF switch, mode dial setting and warming 45-78° C

Sanitary control knob 35-57° C

### *Accessories (optional)*

THERMOSTAT  
**REGOLAFACILE**

**ON-OFF**

Code 00262605

FORM MANAGER

**ZONE OT**

(Open Therm)

Code 00362850

**OUTDOOR SENSOR**

Code 00362077

REMOTE COMMAND

**REGOLAFACILE**

weekly modulating

Code 00361971

### *Standard accessories*

The boiler is provided inter alia including:

Dima metal attacks predisposition can be ordered separately (code 00362908)

N° 4 dowels to fix the boiler

Expansion tank hot water circuit by 3 litres.

REMOTE COMMAND

**SIM-KRONOS P**

modulating

weekly

Code 00362904

THERMOSTAT

**GA 240**

Code 00362968

# Dimensions and technical data

And 1-11/2015/us code 50840

## **! GODDESS AB 24**

NOMINAL WORKING POWER *kW* 23.9  
MAXIMUM HEAT OUTPUT *kW* 26.5  
MINIMUM OUTPUT POWER *kW* 10.1  
HEAT EFFICIENCY at 30% load % 89.5  
HEAT EFFICIENCY at nominal load 100% % 92.7  
FLUE GAS TEMPERATURE max ° C 91.7  
PERFORMANCE CLASS (formerly EEC Directive 92/42) \_\_\_  
Heating CIRCUIT PRESSURE min/max *bar* 0.5 ÷ 3  
DOMESTIC HOT WATER CIRCUIT PRESSURE min/max *bar* 0.5 ÷ 8

Prod. Of continuous **Same** @t 25 k-mixed *LPM* 14.0

POWER SUPPLY Voltage/Frequency *V/Hz* 230/50  
DEGREE OF PROTECTION *IP* X4D  
EXPANSION TANK CAPACITY *l* 3  
NET WEIGHT *kg* 60

NOMINAL WORKING POWER *P*nomiale *kW* 24

SEASONAL ENERGY EFFICIENCY

AMBIENT HEATING | s % 79

### **HEATING SEASONAL EFFICIENCY CLASS C**

### **FOR AMBIENT HEATING BOILERS AND BOILERS: POT. HEAT OUTPUT**

NOMINAL HEAT OUTPUT UNDER HIGH TEMPERATURE

(Tr 60° C/80° C Tm) P4 *kW* 23.9

EFFICIENCY AT NOMINAL HEAT OUTPUT

under conditions of high temperature (80° C 60° C/Tr Tm) | 4 % 81.3

USEFUL POWER to 30% of RATED THERMAL INPUT

under low temperature (30° C Tr) P1 *kW* 7.2

YIELD to 30% of RATED THERMAL INPUT

under low temperature (30° C Tr) | 1 % 81.7

BOILER ROOM TEMPERATURE CONTROL. POWER RANGE: YES/NO NO

### **AUXILIARY CONSUMPTION OF ELECTRICITY**

Fully loaded elmax *kW* 0.058

At partial load elmin *kW* 0.055

STANDBY PSB *kW* 0.001

### **OTHER ELEMENTS**

Pstb Standby HEAT LOSS *kW* 0.1349

NITROGEN OXIDE NOx *mg/kWh* 153

### **FOR MIXED HEATING APPLIANCES**

LOAD PROFILE DECLARED L

HEATING EFFICIENCY. Water | WH % 59

DAILY CONSUMPTION OF FUEL Qfuel *kWh* 19.89

Inside SOUND POWER LEVEL Lwa *db (A)* 51.4

**SEASONAL HEALTH EFFICIENCY CLASS B front view side view**