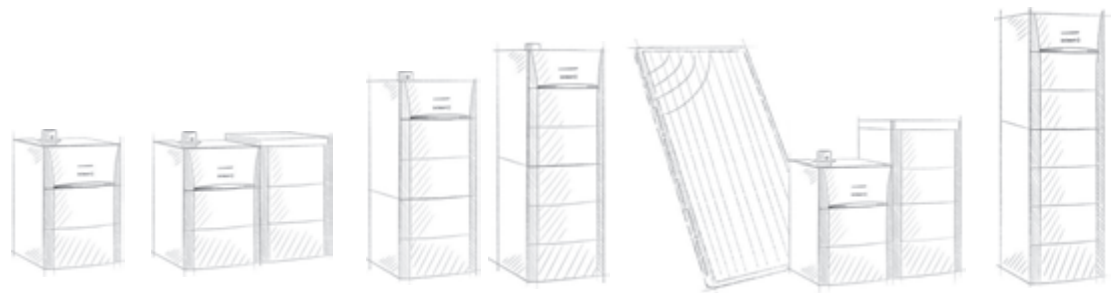


SOLAR  
WOOD  
HEAT PUMPS  
CONDENSING OIL/GAS

# Modulens

FLOOR-STANDING GAS CONDENSING BOILER

ADVANCE



## Condensing in excellence mode

- >> Environmental friendliness and energy savings
- >> Maximum domestic hot water comfort
- >> Compatible with renewable energies

# EXCELLENCE AND SAVINGS



## Annual efficiency up to 109%

- For a large range of outputs: 15, 25, 35 kW

## Perfect adaptation of output to needs

- Burner modulating from 22 to 100%

## Compactness and ultra-responsive behaviour

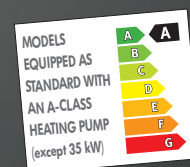
- New monobloc heat exchanger in cast aluminium-silicium

## Maximum comfort

- Diematic iSystem control system, with integrated control panel: user friendly, intuitive, intelligent and systems oriented

## A-class modulating heating pump

- Reduction of electricity consumption, noise reduction, on fully equipped models (excluding 35 kW)



## As much hot water as you need

- 100-litre stratification tank, 160-litre with coil and 220-litre solar stratification to cover every need

## Beautiful design

- Perfect integration of boiler and tank modules in one harmonious, beautifully designed unit





## INNOVATION DESIGNED FOR EVERYONE

Offering a wide range of outputs from 15 to 35 kW, Modulens is fitted with the latest technological innovations: Diematic iSystem control system, stratification tank for hot water production... For you, this guarantees a combination of high performance, energy savings and environmental friendliness. Modulens can be fitted with a solar tank. Condensing in excellence mode all for you.



### THE HIGH PERFORMANCE SOLUTION FOR YOUR COMFORT

#### The environment protected

Modulens boilers respect the environment in every way. The condensation technique limits the quantity of energy used and the modulating gas burner reduces pollutant emissions to the minimum.

#### An intelligent system

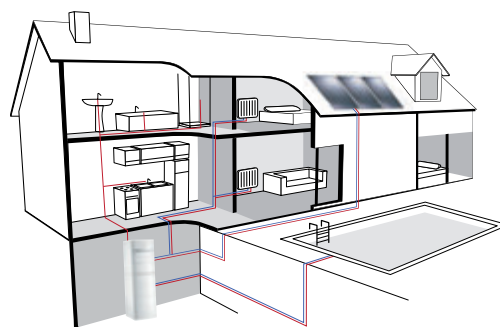
In terms of comfort, the very efficient Diematic iSystem control system allows you to manage and meet your heating and domestic hot water needs as accurately as possible.

#### Multi-energy system: 60% savings

Whether in renovation or new build, you can combine your Modulens condensing gas boiler with other energies: solar systems, wood-fired or heat pumps.

#### Possible installation

By combining Modulens with a B or V 220 SHL solar tank (next to or underneath the boiler), you get 60% of your domestic hot water absolutely free. You can also combine Modulens with an HP Inverter type heat pump to make savings of up to 60% on your fuel bill. As part of a new build, Modulens is perfectly suited to an LEH project.



**ADVANCE:** DEMAND THE BEST FOR YOURSELF AND THE PLANET



### ADVANTAGE

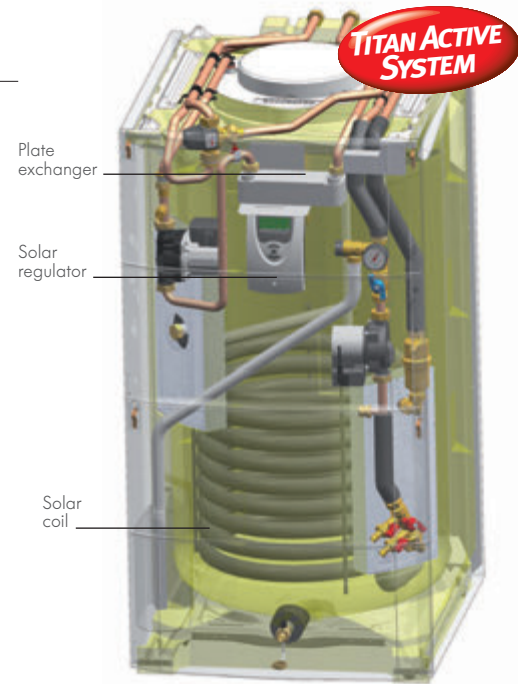
**Energy savings of up to 30%**

## High performance

**1**

By using the heat in the steam contained in the flue gases, condensing technology makes the most of the very last drop of energy and gives it back to you. Modulens guarantees **high efficiency: up to 109%** for a broad range of outputs from 15 to 35 kW.

- Thanks to condensing, the modulating burner and a new ultra-responsive exchanger, you can make **savings of up to 30%** compared with older generation boilers.
- Moreover, the new burner, which output modulation from 22% to 100%, according to your needs, guarantees **you the most accurate consumption and a big reduction in pollutant emissions: up to 50%**.
- The fully equipped versions include an A-class modulating pump to **save on electricity consumption** (excluding 35 kW).



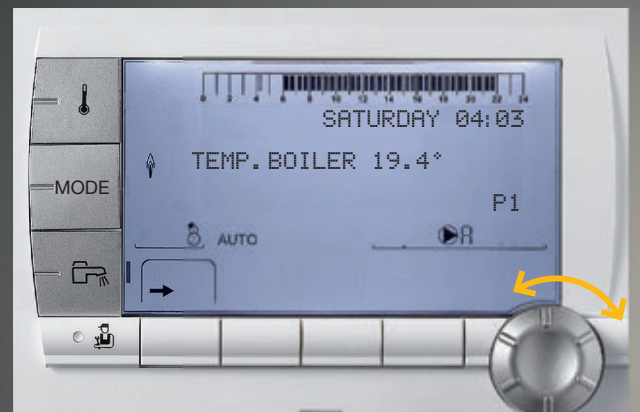
V 220 SHL DHW tank

## Intelligent system: new Diematic iSystem control system

**2**

The result of De Dietrich's advanced research, Diematic iSystem is the new control system at the heart of the installation, designed to obey your every command to the letter. At one and the same time, it is:

- **INNOVATIVE:** high-tech design with a new extra-wide LCD screen, rotary button and sensitive keys.
- **INTUITIVE:** simple to browse through and easy to read. Embedded mini instruction manual. Text-based system. Option of naming the circuits for better understanding.
- **INTELLIGENT:** extended functionalities and options.
- **INTERACTIVE:** can be integrated into a centralised home automation system.



# >> YOUR HEATING PROJECT

## DECIDE YOUR NEEDS

This information is given as a rough guide for typical housing units. It is imperative that you refer to the recommendations of your installer / heating specialist who will suggest the most suitable solution for your project.

## Hot water: maximum comfort

3

Modulens can be combined with **several types of tanks (stratification, coil or solar)** to satisfy your every domestic hot water need. They are fitted as standard with the **Titan Active System\***, guaranteeing perfect conservation of the water and the long life of the installation, maintenance-free.

- Tanks of 100, 160 or 220 litres (solar version) that can be placed under the boiler or next to it for the 160 and 220 versions.
- Tank in steel and high quartz content vitrified enamel for **very high quality water conservation**.
- Plate exchanger combined with 100- and 220-litre stratification tanks to **heat** your domestic hot water **even faster**.

\*Only on the Modulens 15-25 kW models.

### ADVANTAGE

Flow rate of  
25.5 l  
per min.!

## Easy installation and maintenance

4

All versions of Modulens come ready for connection for quick and easy installation.

- The modularity of the **column or juxtaposed solutions** means that the boiler can be installed anywhere.
- All components are **accessible from the front** of the boiler. With **back-lighting inside** the boiler, **maintenance is child's play**.
- Factory-tested, the boilers and tanks are delivered fully assembled and equipped for fast installation.
- Option of **forced flue** or chimney connection.



AGC/ V 160 SL



AGC/ B 160 SL

### ADVANTAGE

a compact  
solution  
that fits in  
anywhere



## Solution compatible with: solar, heat pump







5

Whether in new build or renovation, the Modulens boiler is 100% compatible with multi-energy solutions.

- The Diematic iSystem control system can be used for the **combined management of Modulens with a heat pump**, for example.
- You can therefore make energy savings of up to 60% (compared with an 18 to 20 year old boiler without control system).
- It is also possible to **combine Modulens with a solar tank type V or B 220 SHL** by adding solar collectors to take advantage of **60% of your hot water absolutely free**.
- Exclusive to De Dietrich, the solar collectors use a **heat-carrying fluid which is 100% plant-based**, more **environmentally friendly** and sustainable for the installation.

### ADVANTAGE

Even greater  
savings and  
protecting the  
planet

| Heating only  | Apartment  |  | House ≤ 150 m <sup>2</sup>   |   | Large detached house  |  |
|---|--|--|--|---|---|--|
| Modulens AGC 15-25 (15 - 25 kW)   | •  |  | •  |   |   |  |
| Modulens AGC 35 (35kW)  |  |  |  |   | •   |  |
| Heating + domestic hot water  | <br>≤ 90 m <sup>2</sup> | <br>> 90 m <sup>2</sup> | <br>≤ 90 m <sup>2</sup> | <br>≤ 150 m <sup>2</sup> | <br>normal use | <br>intensive use |
| Modulens AGC 15 / V100 HL or V/B 160 SL<br>(15 kW with 100-litre tank under the boiler or 160-litre tank underneath or next to the boiler)          | •  | •  | •  | •   |   |  |
| Modulens AGC 25-35 / V100 HL or V/B 160 SL<br>(25 or 35 kW with 100-litre tank under the boiler or 160-litre tank underneath or next to the boiler) |  |  | •  | •   | •   | •  |
| Modulens AGC 15-25-35 / V-B 220 SHL<br>(15, 25 or 35 kW with 220-litre solar tank underneath or next to the boiler)                                 | •  | •  | •  | •   | •   | •  |

## MODELS

|  | AGC 15                                      | AGC 25            | AGC 35                            |
|--|---|-------------------|-----------------------------------|
| Gas  | All natural gas and propane                 |                   |                                   |
| Output   | from 5.4 to 15.8 kW                         | from 5.6 to 25 kW | from 7 to 35.9 kW                 |
| Boiler type  | Condensing or combined condensing and solar |                   |                                   |
| Functions  |   |                   |                                   |
| Heating only   | •   | •                 |                                   |
| Heating + storage hot water:   |   |                   |                                   |
| - 100-L calorifier integrated under the boiler   | •   | •                 | •                                 |
| - 160-L calorifier placed under the boiler (V version)   | •   | •                 | •                                 |
| - 160-L calorifier placed beside the boiler (B version)  | •   | •                 | •                                 |
| - Solar calorifier placed under the boiler (V version)   | •   | •                 | •                                 |
| - 220-L solar calorifier placed beside the boiler (B version)  | •   | •                 | •                                 |
| Ignition   |   |                   |                                   |
| Electronic   | •   | •                 | •                                 |
| Equipment  |   |                   |                                   |
| Models equipped with: A-class modulating circulating pump, expansion vessel, pressure gauge, safety valve, automatic air vent integrated in the boiler | •   | •                 | •<br>(excluding expansion vessel) |
| Connection   |   |                   |                                   |
| Chimney  | •   | •                 | •                                 |
| Forced flue  | •   | •                 | •                                 |
| Control system   |   |                   |                                   |
| DIEMATIC iSystem   | •   | •                 | •                                 |

Dimensions and weight:  
H = Height, W = Width, D = Depth



AGC 15-20-35 kW  
Heating only

H 84,4 cm  
W 60 cm  
D 68 cm  
54 to 60 kg



AGC/V 100 HL

H 140,8 cm  
W 60 cm  
D 73 cm  
107 to 113 kg



AGC/V 160 SL

H 168,8 cm  
W 60 cm  
D 73 cm  
134 to 140 kg



AGC/B 160 SL

H 91,8 cm  
W 120 cm  
D 73 cm  
136 to 142 kg



AGC/V 220 S HL

H 196,8 cm  
W 60 cm  
D 73 cm  
179 to 185 kg



AGC/B 220 S HL

H 120,1 cm  
W 120 cm  
D 73 cm  
183 to 190 kg

## A MARK OF EXCELLENCE

For 300 years, success, to De Dietrich, has meant making demands based on real values: quality, reliability, sustainability.

For the sake of the environment and for your comfort, De Dietrich now has a comprehensive understanding of the various renewable energies, thanks to multi-energy systems which protect the planet.

Therefore, heating appliances which bear the De Dietrich name are at the cutting edge of innovation and have the advantage of optimal quality and rare longevity thanks to the commitment of each and every employee.

*De Dietrich: choosing Sustainable Comfort®*



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Your installer: