

### FLOOR-STANDING GAS CONDENSING BOILERS FROM 5.6 TO 25.5kW

EGC 25: for heating only.

EGC 25/V 100 SL: for heating and domestic hot water by 100 litre enamelled calorifier with coil placed under the boiler.

EGC 25/V 200 SSL: for heating and domestic hot water by 200 litre enamelled solar calorifier placed under the boiler.

**TWINEO** 

EGC 25/VE 200 SHL: for heating and domestic hot water by high performance 200 litre enamelled solar calorifier placed under the boiler.





EGC 25

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EASYLIFE



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EGC 25/V 100 SL



EGC 25/VE 200 SHL

The TWINEO boiler range includes one model for heating only and models comprising boilers combined with 100- or 200-litre calorifiers for DHW production. TWINEO boilers are fully equipped as standard with:

- A eating circulating pump with energy efficiency index EEI < 0.23;
- A 12-litre expansion vessel, an automatic air vent, a draining valve, the heating safety valve, a heating/DHW reversal valve;
- An iniControl control panel with new ergonomics for controlling and regulating a direct circuit and a traditional or solar DHW circuit.

The EGC 25/VE 200 SHL is a high performance optimized model.

Various air/flue gas connection configurations are possible: we offer solutions for connection by horizontal or vertical forced flue, to a chimney, in bi-flow or to a collective flue system.

### CONDITIONS OF USE

**Boiler:** 

Max. operating temperature: 90°C Max. operating pressure: 3bar Power supply: 230V/50Hz Protection index: IP 21

WITH ROOM SENSOR OUTDOOR SENSOR

(with room thermostat AD301, 303, 304)

**Calorifiers:** Max. operating pressure: 10bar

Max. operating temperature: 95°C

Solar max. operating pressure: 6bar (200 SSL)

#### HOMOLOGATION B<sub>23P</sub>, B<sub>33</sub>, C<sub>13x</sub>, C<sub>33x</sub>, C<sub>93x</sub>, C<sub>53</sub>, C<sub>43x</sub>, C<sub>83x</sub>\*

### GAZ CATEGORY

Fitted and preset to operate on natural gases. Propane operating with conversion kit (option).

\*to be adapted according to the country for which the boilers are intended



## PRESENTATION

The EGC boilers in the TWINEO range are factory-tested and delivered fully assembled. They are pre-fitted to run on type H natural gas but can also be converted to run on propane (using the conversion kit available as an option).

The EGC 25 boiler is fitted as standard with a 3-speed heating pump, a 12-litre expansion vessel, an automatic air vent, a draining valve, a heating safety valve, a hydroblock, a heating/DHW reversal valve.

The EGC 25/V 100 SL model comprises the EGC 25 boiler combined with the 100-litre 100 SL (Standard Load) calorifier and a connecting kit under the boiler to form a uniform «column». The calorifier is equipped with a magnesium anode to protect the tank, boiler/calorifier connecting pipes, a DHW sensor, adjustable feet. The 100 SL calorifier is an enamelled coil calorifier. It is insulated with high density injected CFC-free polyurethane foam. The EGC 25/V 200 SSL and EGC 25/VE 200 SHL models comprises the EGC 25 boiler combined with the 200-litre 200 SSL

#### HIGH LEVELS OF PERFORMANCES

- Annual operating efficiency up to 109%,
- NOx classification: 5 according to EN 15502,
- Low noise level,

#### STRONG POINTS

- Compact boilers of modular design with the same aesthetic as the DHW calorifiers with which they can be combined;
- New compact and ultra-responsive exchanger in cast aluminium/silicium alloy.
- Perfect adaptation of boiler output to actual needs thanks to the stainless steel gas burner with complete premixing, modulating from 22 to 100% output, fitted with a silencer on the air intake.

(Solar Standard Load) calorifier or a 200-litre 200 SHL (Solar High Load) calorifier. The latter is positioned under the boiler to form a uniform "column" or to the right or the left of the boiler. The solar calorifier is equipped with a DHW safety valve, a magnesium anode to protect the tank, boiler/calorifier connecting pipes, a DHW sensor, adjustable feet.

It is also equipped with a complete solar unit: pump, expansion vessel (delivered separately - Package ER227), safety unit, air vent, glycol tank, solar control system.

The 200 SSL solar calorifier is an enamelled twin coil calorifier. It is insulated with high density injected CFC-free polyurethane foam. The E 200 SHL is an "High Load" enamelled stratification calorifier equipped with a plate exchanger combined with a load pump and a coil for connection to a solar system. Its insulation is made from high density injected polyurethane foam with 0% of CFCs

- Low pollutant emissions:

TWINEO EGC	NOx* (mg/kWh)	CO* (mg/kWh)
EGC 17/29	34	20
EGC 25	38	36
* according to EN 15502	,	

according to EN 15502

- Electronic ignition and ionisation flame check.
- Fan fitted with a non-return valve on the air intake to run with pressurised evacuation systems (3 CEp).
- IniControl control panel used for controlling and regulating a direct circuit, a DHW circuit and the 200 SSL or 200 SHL solar tank. The position of the control module is adjustable for ease of use regardless of height.



Created by De Dietrich, the ECO-SOLUTIONS label guarantees you a range of products compliant with the European Eco-design and Energy Labelling directives. These directives apply from 26 September 2015 to heating and domestic hot water appliances.

With De Dietrich **ECO-SOLUTIONS**, you can benefit from the latest generation of multi-energy systems, easier to use, with better performance and energy savings, designed to give you greater comfort while caring for the environment. **ECO-SOLUTIONS** also mean expertise, advice and a wide range of services from the De Dietrich professional network.

ENERG IIIII

The energy label, together with the ECO-SOLUTIONS, shows you the performance of your chosen product. More info at www.ecodesign.dedietrich-heating.com

## **MODELS AVAILABLE**

Boiler	A+ WITH + BODO BCROOK SENSOR *	Boiler	Calorifier	Calorifier connecting-set	Solar expansion vessel	Useful ou Heating mode at 50/30°C	tput (kW) DHW mode at 80/60°C
Eec_accol	<b>EGC 25</b> For heating only	JA5	-	-	-	5.6 - 25.5	28
3c_accor	<b>EGC 25/V 100 SL</b> For heating and domestic hot water by 100 litre calorifier to be placed under the boiler	JA5	JA226	JA8 +	-	5.6 - 25.5	28
Eec_accos	<b>EGC 25/V 200 SSL</b> For heating and domestic hot water by 200 litre solar calorifier to be placed under the boiler	JA5	ER221	JA8 + +	ER229	5.6 - 25.5	28
	<b>EGC 25/VE 200 SHL</b> For heating and domestic hot water by a 200 litre high performance solar calorifier to be placed under the boiler	JA5	ER770	JA9 + +	ER229	5.6 - 25.5	28

\* With room thermostat AD301, 303, 304

### ENERGY LABEL

Each boiler comes with its energy label, which incorporates various items of information: energy efficiency, annual energy consumption, manufacturer's name, noise level...

If you combine your boiler, for instance, with a solar system, a DHW storage tank, a control device or another generator, you can improve your system's performance and generate the corresponding «system» label: **go to our website** « **www.ecodesign.dedietrich-heating.com** »

# **TECHNICAL SPECIFICATIONS**



Exchanger/burner



MCA\_Q0014

Heating body (section view)



AGC\_Q0027

#### Sealed chamber



## **TECHNICAL SPECIFICATIONS**

### Main dimensions (in mm and inches)



⇒ EGC 25/V 100 SL







- ① ② Heating flow/return direct circuit G 3/4"
  ③ Gas inlet Ø G 1/2"
  ④ Condensate drain, siphon provided, PVC pipe Ø 24 x 19mm
  ⑤ @ Primary return/inlet from independent calorifier (with package JA10 option) G 3/4"
  ◎ @ Demostic calority and with a start of 0.01"
- Domestic cold water inlet G 3/4"
   Domestic hot water outlet G 3/4"
- 0 DHW drain valve (on the front of the DHW tank) Ø 14 mm ext.
- H Primary inlet from solar coil Cu 18mm
- B Primary outlet from solar coil Cu 18mm
- 🔞 Evacuation of combustion products and air inlet pipe Ø 60/100mm

- Feet adjustable from 0 to 20mm
   Elbow delivered with the DY871 horizontal forced flue (optional). The optional reduced JA43 elbow is used to bring down the height from 160mm to 100mm.
- G: cylindrical external thread (water tightness by flat gasket)

#### Calorifier 100 SL

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- Calorifier with coil exchanger equipped
- with:
- a magnesium anode to protect the enamelled tank
- a domestic hot water sensor



#### **Calorifier 200 SSL**

- Twin coil solar DHW calorifier equipped with: a magnesium anode to protect the enamelled tonk
- a domestic hot water sensor
- a solar unit (pump, expansion vessel to be ordered Package ER229 -, safety unit, air vent, glycol tank, solar control system)



#### **Calorifier E 200 SHL**

Stratification solar DHW calorifier

- equipped with: equipped with: - load pump with energy efficiency index EEI<0.23, - plate exchanger, - a draining valve,

- a magnesium anode to protect the enamelled tank
- a domestic hot water sensor
- a solar unit (pump, expansion vessel to be ordered- Package ER229, safety unit, air vent, glycol tank, solar control system)



# **TECHNICAL SPECIFICATIONS**

### TECHNICAL SPECIFICATIONS

Type generator:

- EGC 25: heating only
- EGC 25/V and VE...: heating + DHW with solar calorifier placed under the boiler

Boiler type: condensing Burner: modulating with complete premixing Energy used: natural gas or propane Combustion evacuation: chimney or forced flue Min. flow temperature: 20°C Min. return temperature: 20°C Ref. CE certificate: CE-0085CM0178

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Boiler type		EGC	25, 25/V, 25/B
Useful output at 50/3	30°C Pn in heating mode (minmax.)	kW	5.6-25.5
Efficiency	100 % Pn, at average temp. 70°C	%	99.2
at % output	100 % Pn, at return temp. 30°C	%	102.0
and °C water temp	5. 30 % Pn, at return temp. 30°C	%	110.1
Seasonal space hea	ting energy efficiency (1)	%	94
Nominal water flow	at Pn, $\Delta t = 20K$	m <sup>3</sup> /h	1.06
Stand-by losses at $\Delta$	t = 30K	W	78
Auxiliary electrical p	ower at Pn (without circul. pump)	W	45
Power heating pump	o max.	W	52
Useful output at 80/	60°C (minmax.)	kW	5.0-24.8
Manometric height a	available heating circuit	mbar	200
Gas flow at Pn	gas H	m <sup>3</sup> /h	3.10
(15°C-1 013mbar)	propane	kg/h	2.28
Flue gas temperature	e (minmax.)	°C	30-80
Minmax. flue gas m	nass flow rate	kg/h	8.9-50
CO <sub>2</sub> content on nat	ural gas H (minmax.)	%	8.4-8.8
Pressure available at	t the boiler outlet	Pa	130
Water capacity			1.9
Net weight EGC 25		kg	54
1) According to commiss	ion regulation (EU) n°813/2013		

(1) According to commission regulation (EU) n°813/2013

#### Specifications domestic hot water

Boiler type	EGC	25/V 100 SL	25/V 200 SSL	25/VE 200 SHL
DHW calorifier capacity		90	200	220
Exchanged power	kW	24	24	28
Solar exchanger volume/ Back-up volume	I	-	110/90	166/54
Exchange surface	m <sup>2</sup>	-	1.0	1.25
Flow over 10 min at $\Delta t = 30$ K	1/ 10 min	180	180	190
Flow per hour at $\Delta t = 35K$	l/h	590	590	690
Spec. flow at $\Delta t = 30$ K (compliance with EN 13203-1)	l/min	18	18	19
DHW losses through the outer casing at $\Delta t = 45$ K	W	62	117	117
Coefficient of heat losses	W/K	1.38	2.09	2.09
Net weight	kg	117	172	175

Domestic performance at room temp. 20°C, cold water temp. 10°C, hot water temp. at Pn 45°C, primary hot water temp. 80°C, stockage temp. 60°C



Boiler type	EGC	/V 200 SSL	/VE 200 SHL
Solar volume/back-up volume		110/90	166/54
Solar exchanger capacity		6.7	8.4
Solar exchange surface	m <sup>2</sup>	1.0	1.25

## **CONTROL PANEL INICONTROL**

### CONTROL PANEL IniControl

**The IniControl control panel** is used to manage a direct circuit and DHW production (without programming). Burner modulation according to the outside temperature is activated by connecting the outside temperature sensor (package FM46 – to be ordered separately).

The display of the boiler temperature, the pressure in the heating network, and the operating status of the generator using symbols and alphanumeric codes is handled by the large display, which also incorporates a flashing alarm function.

To monitor the installation, optional readout of error history and hour run meters. The IniControl control panel also enables boiler management through a parameterisable 0-10V signal.



# **BOILER OPTIONS**

### Hydraulic connecting kits





⇒ For EGC.../V 100 SL, EGC.../V 200 SSL and EGC.../VE 200 SHL (column models)

Central connection kit - Package JA11 Left connection kit - Package JA12

**Right connection kit -** Package JA13

Connection kits with prefitted water and gas stop cocks, integrated disconnector and DHW safety unit and boiler connecting pipes in the middle (Package JA11), to the right (Package JA13) or to the left (Package JA12).



to the right or left of the boiler)

(1) Heating return direct circuit G 3/4

(2) Heating flow direct circuit G 3/4

(3) Gas inlet G 3/4

Mounting kit for heating only - Package JA 34

heating return and the heating flow to the top.





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 V 200 SSL and VE 200 SHL
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EGC F003

⇒ For EGC.../V 100 SL, EGC.../V 200 SSL and EGC.../VE 200 SHL (column models)

⇒ For EGC... (heating only) and EGC.../B 200 SSL (to be juxtaposed

This board is delivered with the water and gas valves prefitted. It is attached to the back of the boiler and is used to carry the gas inlet, the

Hydraulic pre-mounting kit - Package JA68

This optional pre-assembly kit is delivered to be preinstalled. This allows the installer to carry out in advance all hydraulic connections and sealing tests and put the boiler in place at the last moment.

It includes fittings for direct circuit (flow/return), the cold water inlet and the domestic hot water outlet, gas arrival and allows connections from below or from above.

- 1) Heating return direct circuit
- Ø 18 mm int. ② Heating flow direct circuit
- Ø 18 mm int.
- (3) Gas inlet Ø 18 mm int.
- Domestic cold water inlet Ø 18 mm int.
  Domestic hot water outlet Ø 18 mm int.

(1) Domestic cold water inlet G 3/4

 $(1\!\!\!)$  Domestic hot water outlet G 3/4

Connection kit for 200 SSL or E 200 SHL solar calorifier juxtaposed - Package ER228

This kit includes the boiler/calorifier connection kit as well as the cover for the calorifier.

## **BOILER OPTIONS**

### OTHER OPTIONS



# **BOILER OPTIONS**

### STOVE FITTING ACCESSORIES SPECIFIC TO BOILERS EGC

EGC\_Q0011

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Q0004 Is fitted instead and in the place of the Ø 60/100mm fitting delivered mounted on the

Adapter Ø 80/125mm - Package HR38

Adapter bi-flow Ø 60/100mm to 2 x Ø 80mm - Package DY868

Reduction elbow - Package JA 43

When, for reasons of space, the horizontal forced flue with its elbow cannot be installed, this elbow is mounted instead and in place of the fitting

( $\emptyset$  60/100mm) on the boiler and thus allows a height saving of 70mm.

boiler. It enables the direct connection of a vertical

forced flue Ø 80/125 mm.



Connecting kit Ø 80/125mm on collective flue system duct - Package DY887 If connected to a collective flue system duct,

the adapter Ø 60/100mm delivered with the boiler should be removed and replaced by

package DY887, wich incorporates the adapter Ø 80/125mm.

### For DHW production

Kit DHW expansion vessel 8 litre for EGC 25/V 100 SL - Package ER233



0031 Can be integrated in the boiler, prevents water loss during tank reheating in DHW mode. 8

Connecting kit for the connection of a independent calorifier - Package JA10

For EGC (heating only), this kit mounted under G0017

the casing of the boiler allows the connection of a

independent calorifier.

# **INFORMATION REQUIRED FOR INSTALLATION**

FLAT COLLECTORS RECOMMENDED WITH BOILER EGC 25/V 200 SSL AND EGC 25/VE 200 SHL

Number of people living in the home		fro	om 🛉 to 🛉	<b>P</b> †	from 🛉		
		1 x DH 200 SL (2.0 m <sup>2</sup> )			2 x DH 200 SL (4.0 m <sup>2</sup> )		
Flat solar collectors or solar collector field l«roof» packs) recommended:		Terrace ER777 (1)	ST (1) ER771	ST (2) ER774	Terrace ER778	ST (1) ER772	ST (2) ER775
Heat carrying fluid type L (premixture 60/40, - 21°C)	Package	EG101	EG101	EG101	EG101	EG101	EG101

(1) Roof pack with universal bracket for mechanical tiles.

(2) Roof pack for slate roofs.

#### STATUTORY INSTRUCTIONS ON INSTALLATION AND MAINTENANCE

The installation and maintenance of the appliance in both residential buildings and establishments open to the public must

be carried out by a qualified professional in compliance with the statutory texts of the codes of practice in force.

### LOCATION

The EGC condensing boilers must be installed in premises protected from frost, witch can also be ventilate.

Compliance with a minimum distance between the flue gas evacuation system or the boiler and combustible materials (furniture, for example) is not necessary.

In order to avoid damage to boilers, it is necessary to prevent the contamination of combustion air by chloride and/or fluoride compounds, which are particularly corrosive.

These compounds are present, for example, in aerosol spray cans, paints, solvents, cleaning products, washing powders/ liquids, detergents, glues, snow clearing salts, etc.

- It is therefore necessary:
- To avoid sucking in air discharged from premises using such products: hairdressers, dry cleaners, industrial premises (solvents), premises containing refrigeration systems (risk of leaking refrigeration fluid), etc.
- To avoid the storage of such products close to boilers.

Please note that, if the boiler and/or its peripherals become corroded by chloride and/or fluoride compounds, our contractual warranty cannot be invoked. Please note that, if the boiler and/or its peripherals become corroded by chloride and/or fluoride compounds, our contractual warranty cannot be invoked.

Ventilation (Chimney connection only B<sub>23p</sub>)

The cross-section of the boiler room ventilation (through) wich combustive air is taken in must comply with the prevailing standard. Note:

- For boilers connected to a concentric forced flue (type C<sub>13x</sub> or C<sub>33x</sub> connections) ventilation of the installation premises is not necessary, unless the gas supply includes one or more mechanical connections (cf. prevailing standard).
- See also recommendations in the «Flue Systems» booklet.

# **INFORMATION REQUIRED FOR INSTALLATION**

### GAS CONNECTION

Compliance with prevailing instructions and regulations is mandatory. In all cases, a sectional valve is fitted as close as possible to the boiler. This valve is delivered in the hydraulic connection kits available as optional equipment. A gas filter must be fitted to the boiler inlet.

The diameters of the pipes must be defined according to the prevailing regulations.

- 20mbar on natural gas H,
- 37mbar on propane.

### ELECTRICAL CONNECTION

This must comply with the prevailing national or even local instructions and regulations.

The boiler must be powered by an electrical circuit comprising an omnipolar switch with an opening gap > 3mm. Protect the connection to the mains with a 6A fuse.

### Hydraulic connection

**Important:** the principle of a condensing boiler is to recycle the energy contained in the water vapour in the combustion gases (latent vaporisation heat). Consequently, to achieve an annual operating efficiency in the order of 109%, it is necessary to

#### Connection to the heating circuit

EGC boilers must only be used in closed circuit heating installations. The central heating systems must be cleaned to eliminate the debris (copper, strands, brazing flux) linked to the installation of the system and deposits that can cause malfunctions (noise in the system, chemical reaction between metals). More particularly, if fitting a boiler to an existing

Manometric height available at the boiler output with pump UPM2 15-70 RES



#### Condensates discharge

The siphon provided must be connected to the waste water discharge system. The connection must be removable and the flow of condensates visible. The connections and pipes must Certificate of conformity

The installer is required to draw up a certificate of conformity approved by the ministers responsible for construction and gas safety.

Note:

- The sensor cables must be separated from the 230V circuits by at least 10cm
- In order to protect the pump antifreeze and cleaning functions, we recommend not switching off the boiler at the mains switch.

size the heating surfaces in such a way as to obtain low return temperatures, below the dew point (e.g. underfloor heating, low temperature radiators, etc.) during the entire heating period.

installation, it is strongly recommended that you clear sludge out of the system before installing the new boiler.

Furthermore, it is important to protect central heating installations against the risk of corrosion, scaling and microbiological growth by using a corrosion inhibitor adapted to all types of systems (steel, cast iron radiators, heated floor, PER).

The water treatment products used must comply with regulations.

be in corrosion-resistant material. An optional condensates neutralisation system is available (package SA1 see page 8).

# **AIR/FLUE GAS CONNECTION**

For the use of the air/flue gas connection pipes and the rules on installation, see details of the various configurations in the current product catalogue.

Classification



(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length Lmax shown in the table below.

<b>TABLE OF MAXIMUM AIR</b>	FLUE GAS PIPE LENGTHS ADMISSIBLE ACCORDING TO BOILER TYPE
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Type of air/flue gas c	L <sub>max</sub> of the connecting pipes in m TWINEO EGC 25/			
Concentric pipes connected to a horizontal terminal (PPS)	Cia	Ø 60/100mm	4.2	
	C <sub>13x</sub>	Ø 80/125mm	20	
Concentric pipes connected to a vertical terminal (PPS)	Cas	Ø 60/100mm	11	
	C <sub>33x</sub>	Ø 80/125mm	20	
Pipes - concentric in the boiler room,		Ø 60/100mm Ø 60mm	9	
- single in the chimney (combustive air with counter current) ( <b>PPS</b> )	C93x C33x	Ø 60/100mm Ø 80mm	20	
		Ø 80/125mm Ø 80mm	-	
Pipes - concentric in the boiler room, - "flex" in the chimney (combustive air with counter current) ( <b>PPS</b> )	C <sub>93x</sub> C <sub>33x</sub>	Ø 80/125mm Ø 80mm	20	
Bi-flow adapter and separate single air/flue gas pipes (combustive air taken from outside) (Alu)	C <sub>53</sub>	Ø 60/100mm to 2 x Ø 80mm	40	
In the chimney rigid or flex, (combustive air taken from the premises) ( <b>PPS</b> )	Peer (P	Ø 80mm (rigid)	40	
premises (rra)	B <sub>23P</sub> / B <sub>33</sub>	Ø 80mm (flex)	40 <b>(1)</b>	
Collective <b>flue system</b> conduit for sealed boiler	C <sub>43x</sub>	To size such a system, contact the supplier of the collective flue system of		

#### (1) ▲: Max. height in the flue pipe (C<sub>93x</sub> and B<sub>23P</sub>/B<sub>33</sub> configurations) from the support elbow to the outlet mustn't exceed 25m for flex PPS. In case of higher lengths, holding collars must be added by slices of 25m.

# EXAMPLES OF INSTALLATIONS

The examples presented below cannot cover the full range of installation scenarios which may be encountered.

Their purpose is to draw the attention to the basic rules to be followed. A certain number of control and safety devices (some of which are already integrated as standard in EGC boilers) are represented but it is ultimately up to installers, experts, consultant engineers and design departments to take the final decision on the safety and control devices to be used in the boiler room according to its specificities. In all cases, it is necessary to abide by the codes of practice and prevailing regulations.

Attention: For the connection of domestic hot water, a sleeve made of steel, cast iron or any other insulating material must be interposed between the hot water outlet and these pipes to prevent any corrosion to the connections, if the distribution pipes are made of copper.

EGC 25 + 1 direct circuit + 1 independent DHW calorifier, one outside sensor, remote control with room sensor



(1) With outside sensor FM46 and room sensor AD301, AD303 or AD304.

EGC 25/V 100 SL + 1 circuit with mixing valve, outside sensor, «radio» remote control





#### Key

14

- 3 Safety valve 3bar
- 4 Pressure gauge
- Isolation valve 9
- 11 Electronic heating pump
- 16 Expansion tank
- 17 Draining valve
- 18 Device for filling the heating circuit
- 21 Outside sensor
- 24 Primary inlet on the DHW tank exchanger
- 25 Primary outlet on the DHW tank exchanger
- 26 Domestic water load pump

- 27 Non-return valve
- 28 Domestic cold water inlet
- Pressure reducer 29
- Sealed safety device calibrated to 30 7bar
- (optional) DHW loop pump 32
- 33 DHW temperature sensor
- 44 65°C limiter thermostat with
- manual rest for underfloor heating 3 way-directional valve with 46 motor reversing
- Disconnector 50
- 51 Thermostatic valve

- 56 DHW circulation loop return
- 61 Thermometer
- Radiator circuit (gentle heat 64 radiators, for example)
- Low temperature circuit 65
- (underfloor heating, for example) 67 Manual valve
- 68 Condensates neutralisation system 84 Stop valve with release non return
- valve
- 85 Solar circuit pump (to connect to the solar control)
- 87 Safety valve sealed and calibrated to 6bar

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- 88 Solar expansion tank
- Recipient for heat transfer fluid 89
- **109** Thermostatic mixing valve
- 112aSolar collector sensor
- 114 Solar circuit drainage valve (note: propyleneglycol)
- 130 Degasser with manual purge (Airstop)
- 131 Collector field

## **EXAMPLE OF INSTALLATIONS**

EGC 25/V 200 SSL + direct circuit, outside sensor, «radio» remote control with sensor, 2 flat collectors



(1) With outside sensor FM46 and room sensor AD301, AD303 or AD304.

#### EGC 25/VE 200 SHL + 1 underfloor heating circuit, outside sensor, remote control with room sensor



(1) With outside sensor FM46 and room sensor AD301, AD303 or AD304.

## DESCRIPTION

### TWINEO EGC...

FLOOR-STANDING GAS CONDENSING BOILER FOR CONNECTION TO A CHIMNEY OR A FORCED FLUE

Brand: De Dietrich NOx classification: 5

- Model:
  - EGC 25: for heating only
  - EGC 25/V 100 SL: for heating and domestic hot water preparation by associated DHW calorifier
- EGC 25/V 200 SSL: for heating and domestic hot water preparation by associated solar-DHW calorifier placed under the boiler
- EGC 25/VE 200 SHL: for heating and domestic hot water preparation by associated high performance solar-DHW calorifier placed under the boiler

Homologation:  $B_{23P}$ - $B_{33}$ - $C_{13x}$ - $C_{33x}$ - $C_{93x}$ - $C_{53}$ - $C_{43x}$ - $C_{83x}$ Protection index: IP 21

### DESCRIPTON

Complies with the requirements of European Directives New compact and ultra-responsive exchanger in cast Aluminium/Silicium alloy

Stainless steel gas burner with complete premixing, modulating from 22 to 100% output, fitted with a silencer on the air intake **The IniControl control panel is a control panel with new control ergonomics and incorporates a programmable electronic control system as standard.** Suitable for managing a direct circuit and a DHW circuit.

New ergonomics and optimization of management of combined heating systems.

Boiler delivered and prefitted with, a heating pump with energy efficiency index EEI<0.23, 3-bar safety valve, 12-litre expansion tank, heating/DHW reversal valve, automatic air vent, a drain tap.

EGC 25/V 100 SL: with enamelled, insulated 100 litre DHW calorifier placed under the boiler. Boiler/tank connecting pipes, magnesium anode and DHW sensor included.

EGC 25/V 200 SSL and EGC 25/VE 200 SHL: with enamelled, insulated 200 litre solar DHW calorifier placed under the boiler. Boiler/tank connecting pipes, magnesium anode, DHW sensor included. Prefitted with all the components required to connect and control a solar installation: solar station with pump, expansion vessel (to order separately - Package ER229), safety unit, solar regulation, degasser, glycol recovery tank.

Air/flue gas connection  $\emptyset$  60/100mm with measuring point.

Power supply: 230V/50Hz Useful output in heating mode at 50/30°C (max.) EGC 25: 25.5kW

Specific flow in DHW mode: - EGC 25/V 100 SL: 181/min - EGC 25/V 200 SSL: 181/min - EGC 25/VE 200 SHL: 191/min Max. operating temperature: 90°C Max. operating pressure: 3bar Safety thermostat: 110°C Dimensions: \_\_\_\_\_ x \_\_\_\_ mm Weight empty: \_\_\_\_\_kg

**Control panel options** 

- Domestic hot water sensor
- Outside sensor
- Programmable room thermostat (wire)
- Programmable room thermostat (wireless)
- Non programmable room thermostat (wire)
- Modulating programmable room thermostat "OpenTherm" (wire)
- Modulating programmable room thermostat "OpenTherm" (wireless).

**Boiler options** 

- Central connection kit
- Left connection kit
- Right connection kit
- Solo connection kit
- Condensates neutralisation system with pump
- Condensates neutralisation system without pump
- Neutralisation granules (10kg)
- Condensate neutralisation tank
- Wall bracket for neutralisation tank
- Granule refill for neutralisation tank (2kg)
- Flue gas thermostat
- Cleaning tool boiler body
- Propane conversion kit
- Adapter Ø 80/125mm
- Adapter bi-flow Ø 60/100mm to 2 x Ø 80mm
- Reducing elbow
- Connecting kit Ø 80/125mm on collective flue system conduit
- Kit DHW expansion vessel 8 litre for EGC 25/V 100 SL
- Connecting kit for the connection of a independent calorifier.

