

## FLOOR-STANDING GAS CONDENSING BOILERS FROM 3.4 TO 35.9KW

- AGC 10/15, 15, 25, 35: for heating only
- AGC.../V 100 HL: for heating and DHW production by 100 litre stratification calorifier placed under the boiler
- AGC.../V 160 SL: for heating and DHW production by 160 litre enamelled calorifier with coil placed under the boiler
- AGC.../VL 160 SL: for heating and DHW production by 160 litre horizontal calorifier with coil placed under the boiler
- AGC.../B 160 SL: for heating and DHW production by 160 litre enamelled calorifier with coil placed to the left or to the right of the boiler
- AGC.../V 220 SHL: for heating and DHW production by 220 litre enamelled solar calorifier placed under the boiler
- AGC.../B 220 SHL: for heating and DHW production by 220 litre enamelled solar calorifier placed to the left or to the right of the boiler



AGC 10/15,  
15, 25, 35

AGC.../  
V 100 HL

AGC.../  
V 160 SL

AGC.../  
VL 160 SL

AGC.../  
B 160 SL

AGC.../  
V 220 SHL

AGC.../  
B 220 SHL



AGC 10/15, 15, 25, 35:  
For heating only



AGC.../V..., and B/...:  
For heating and domestic hot  
water



Condensing



All natural gases  
Propane



AGC.../V 220 SHL  
and /B 200 SHL



CE identification No:  
0085CM0178

The MODULENS G® boiler range includes models for heating only and models comprising boilers combined with 100, 160 or 200 litre calorifiers for DHW production. MODULENS G® boilers are fully equipped as standard with:

- a high efficiency energy modulating pump (EEI < 0.23),
- a 18 litre expansion vessel (except on model AGC 35), an automatic air vent, a draining valve, the heating safety valve, a heating/DHW reversal valve,
- an DIEMATIC iSystem control panel with new ergonomics allows connected with options, the command and control of up to 3 circuits (an traditional or solar DHW circuit) according to the outside temperature. It also allows the optimum management of systems combining various heating generators (boiler + heat pump or + solar system...) or the control of cascade with 2 to 10 boilers.

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.

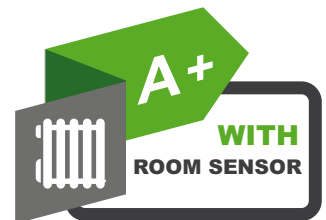
### CONDITIONS OF USE

#### Boilers:

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

#### Calorifiers:

- Max. operating pressure: 10bar
- Max. operating temperature: 95°C
- Solar max. operating pressure: 6bar (220 SHL)



AD284, AD285, FM52

### HOMOLOGATION

B23p, B33, C13x, C33x, C93x, C53, C43x, C83x

### GAZ CATEGORY

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

# PRESENTATION

The AGC boilers in the MODULENS G® 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 **AGC 10/15, 15, 25, 35** boilers are fitted as standard with a high efficiency heating pump with energy efficiency index EEI < 0.23, an expansion vessel 18 litre (except on AGC 35), an automatic air vent, a draining valve, a heating safety valve, a hydroblock, a heating/DHW reversal valve.

The **AGC.../V 100 HL** models comprise the boilers AGC 10/15, 15, 25, 35 combined with the 100 litre 100 HL (High Load) calorifier and a connecting kit under the boiler to form a uniform «column». The calorifier is equipped with a TAS (Titan Active System®) anode, which does not consume matter, guaranteeing protection of the tank, a draining valve, a coupling for a circulation loop, boiler/calorifier connecting pipes, 1 DHW sensor, adjustable feet. The 100 HL calorifier is a high performance, enamelled stratification calorifier, equipped with a plate exchanger combined with a load pump. It is insulated with high density injected CFC-free polyurethane foam.

The **AGC.../VL 160 SL, AGC.../V 160 SL and AGC.../B 160 SL** models comprise the boilers AGC 10/15, 15, 25, 35 combined with the 160 litre 160 SL and L 160 SL (Standard Load) calorifiers and a connecting kit under the boiler.

- **The calorifier 160 SL** can be installed under the boiler (models AGC.../V 160 SL) to form a uniform «column» or placed to the left or to the right of the boiler (models AGC.../B 160 SL).

- **The calorifier L 160 SL** can be installed horizontally under the boiler. He can be placed completely against the wall to enable space saving.

The calorifiers are equipped with a TAS (Titan Active System®) anode, which does not consume matter, guaranteeing protection of the tank, a draining valve, a coupling for a circulation loop, boiler/calorifier connecting pipes, a DHW sensor, adjustable feet.

The 160 SL and L 160 SL calorifiers are an enamelled coil calorifiers. They are insulated with high density injected CFC-free polyurethane foam.

The **AGC.../V 220 SHL and AGC.../B 220 SHL** models comprise the boilers AGC 10/15, 15, 25, 35 combined with the 220 litre 220 SHL (Solar High Load) calorifier and a connecting kit under the boiler to form a uniform «column» (.../V 220 SHL) or placed to the left or to the right of the boiler (.../B 220 SHL). The solar calorifier is equipped with a TAS (Titan Active System®) anode, which does not consume matter, guaranteeing protection of the tank, a draining valve, a coupling for a circulation loop, 1 DHW sensor, adjustable feet.

It is also equipped with a complete solar unit: pump, 12 litre expansion vessel (delivered separately – Package ER229), safety unit, air vent, glycol tank, solar control system. A 18 liter expansion vessel is also available (package JA74).

The 220 SHL solar calorifier is an enamelled stratification calorifier equipped with a plate exchanger combined with a load pump and a coil for connection to a solar system. It is insulated with high density injected CFC-free polyurethane foam.

## HIGH LEVELS OF PERFORMANCE

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

## 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,
- Internal lighting that comes on automatically when the appliance is powered up to facilitate maintenance work,
- Fan fitted with a non-return valve on the air intake to run with pressurised collective flue system,

MODULENS G®...	NOx* (mg/kWh)	CO** (mg/kWh)
AGC 10/15...	31	10
AGC 15...	33	17
AGC 25...	38	36
AGC 35...	42	57

\* according to EN 15502 \*\* by Qmax.

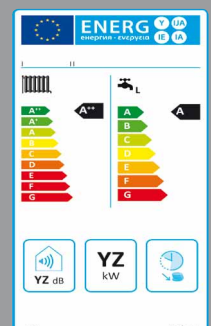
- Electronic ignition and ionisation flame check,
- DIEMATIC iSystem control panel that can be used in all installation configurations, including the most complex; it is designed to command and control a direct circuit as standard. With the addition of a sensor, it can be used to regulate a primary circuit with mixing valve; with the addition of a PCB + sensor, it can control a secondary circuit with mixing valve. Installation of a DHW sensor enables regulation with priority to a DHW circuit. It is specifically designed to enable the optimization of management of combined systems (solar systems). The position of the control module is adjustable for ease of use regardless of height.



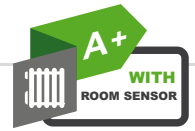
Created by De Dietrich, the **ECO-SOLUTIONS** label guarantees you a range of products compliant with the European Eco-design and Energy Labelling directives. These directives apply from 26 September 2015 to heating and domestic hot water appliances.

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.

The energy label, together with the **ECO-SOLUTIONS**, shows you the performance of your chosen product. More info at [www.dedietrich-heating.com](http://www.dedietrich-heating.com)




# MODELS AVAILABLE


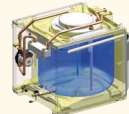
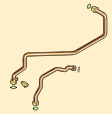

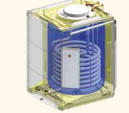
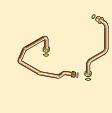

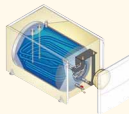
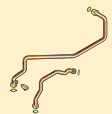
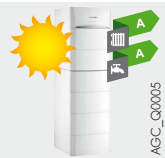
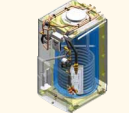
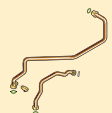



With AD284, AD285, FM52  
Outdoor sensor delivered with all models



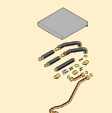

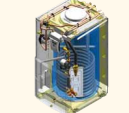
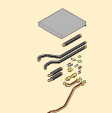

## BOILER FOR HEATING ONLY

Models	Boiler type				Calorifier (DHW sensor included)	Calorifier/boiler connecting-set	Solar expansion vessel
	AGC 10/15	AGC 15	AGC 25	AGC 35			
 <p><b>AGC...</b> Fully equipped boiler</p>	JA1	-	-	-	-	-	-
	-	JA2	-	-	-	-	-
	-	-	JA3	-	-	-	-
	-	-	-	JA4	-	-	-

## BOILER WITH DHW TANK PLACED UNDER THE BOILER

Models	Boiler type				Calorifier	Calorifier/boiler connecting-set	Solar expansion vessel
	AGC 10/15	AGC 15	AGC 25	AGC 35			
 <p><b>AGC.../V 100 HL</b> With an 100 litre DHW enamelled stratification calorifier « High Load »</p>	JA1	-	-	-			-
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			
 <p><b>AGC.../V 160 SL</b> With an 160 litre DHW calorifier with enamelled coil « Standard Load »</p>	JA1	-	-	-			-
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			
 <p><b>AGC.../VL 160 SL</b> With an 160 litre DHW horizontal calorifier with enamelled coil « Standard Load »</p>	JA1	-	-	-			-
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			
 <p><b>AGC.../V 220 SHL</b> With an 220 litre DHW enamelled stratification calorifier « High Load » equipped with a solar coil</p>	JA1	-	-	-			
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			

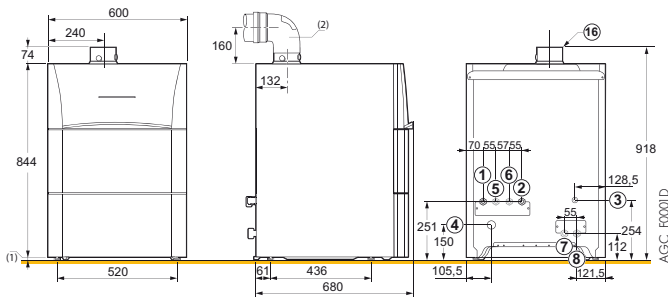
## BOILER WITH DHW TANK PLACED TO THE LEFT OR TO THE RIGHT OF THE BOILER

Models	Boiler type				Calorifier	Calorifier/boiler connecting-set	Solar expansion vessel
	AGC 10/15	AGC 15	AGC 25	AGC 35			
 <p><b>AGC.../B 160 SL</b> With an 160 litre DHW calorifier with enamelled coil « Standard Load »</p>	JA1	-	-	-			-
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			
 <p><b>AGC.../B 220 SHL</b> With an 220 litre DHW enamelled stratification calorifier « High Load » equipped with a solar coil</p>	JA1	-	-	-			
	-	JA2	-	-			
	-	-	JA3	-			
	-	-	-	JA4			

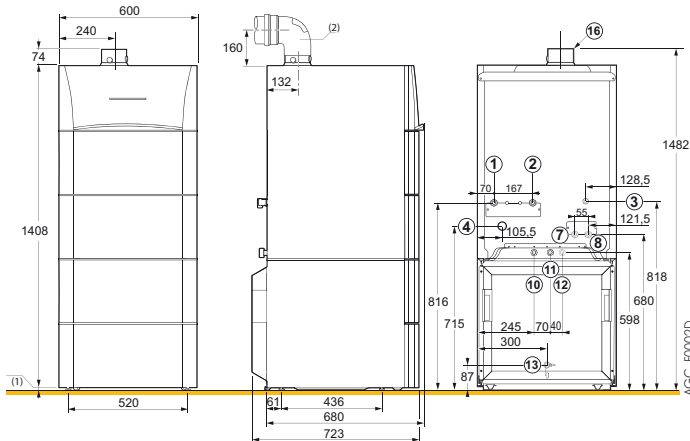
# TECHNICAL SPECIFICATIONS

## MAIN DIMENSIONS (IN MM AND INCHES)

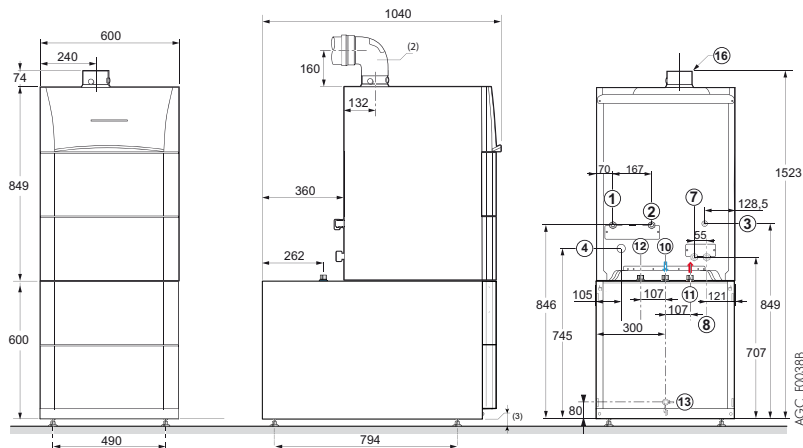
⇒ AGC 10/15, 15, 25, 35



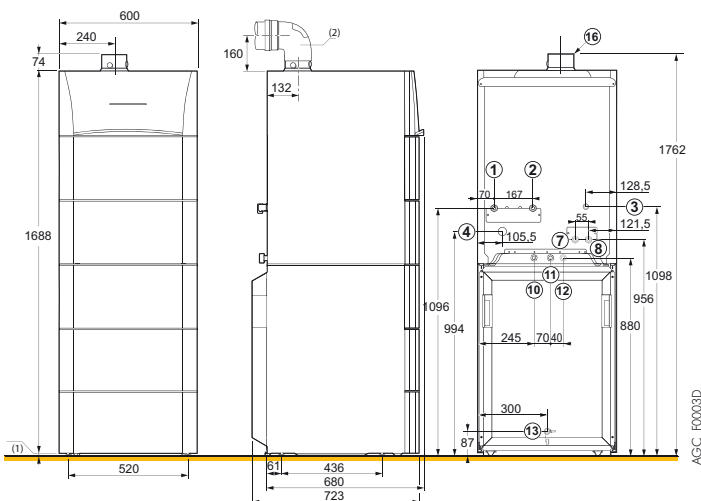
⇒ AGC 10/15, 15, 25, 35/V 100 HL



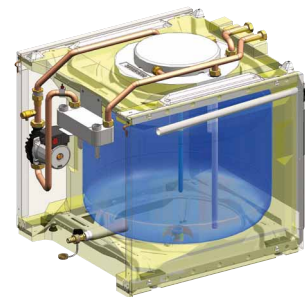
⇒ AGC 10/15, 15, 25, 35/VL 160 SL



⇒ AGC 10/15, 15, 25, 35/V 160 SL



### Calorifier 100 HL

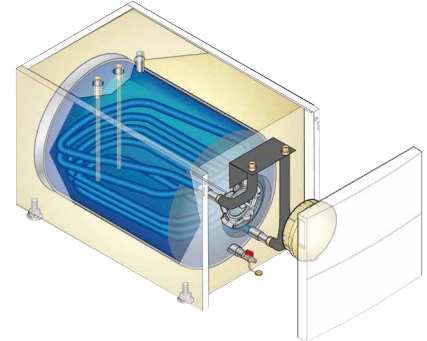


Stratification calorifier equipped with:

- a load pump
- a plate exchanger
- a draining valve
- protection of the enamelled tank by TAS (Titan Active System®)
- a DHW sensor

AGC\_Q0024

### Calorifier L 160 SL



DHW coil calorifier equipped with:

- a draining valve
- a imposed current anode TAS (Titan Active System®) to protect the enamelled tank
- a DHW sensor
- a recirculation

AGC\_F0060

### Calorifier 160 SL



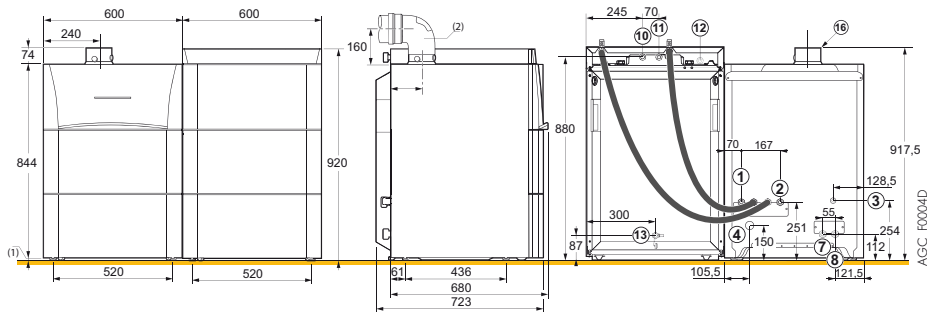
DHW coil calorifier equipped with:

- a draining valve
- a imposed current anode TAS (Titan Active System®) to protect the enamelled tank
- a DHW sensor

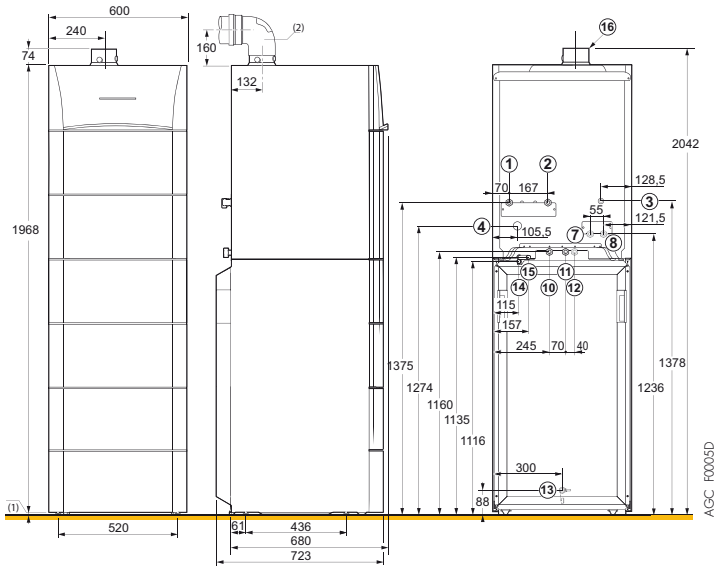
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# TECHNICAL SPECIFICATIONS

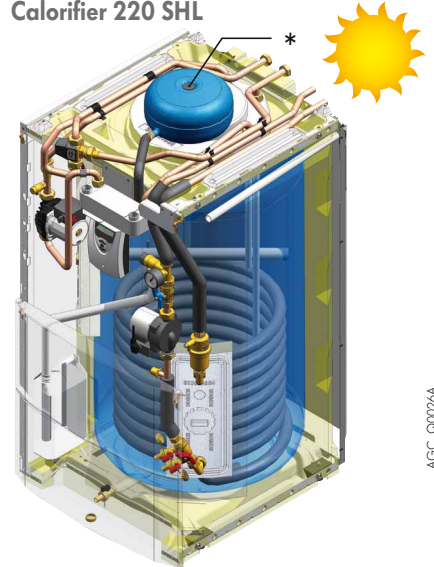
⇒ AGC 10/15, 15, 25, 35/ B 160 SL



⇒ AGC 10/15, 15, 25, 35/ V 220 SHL



Calorifier 220 SHL

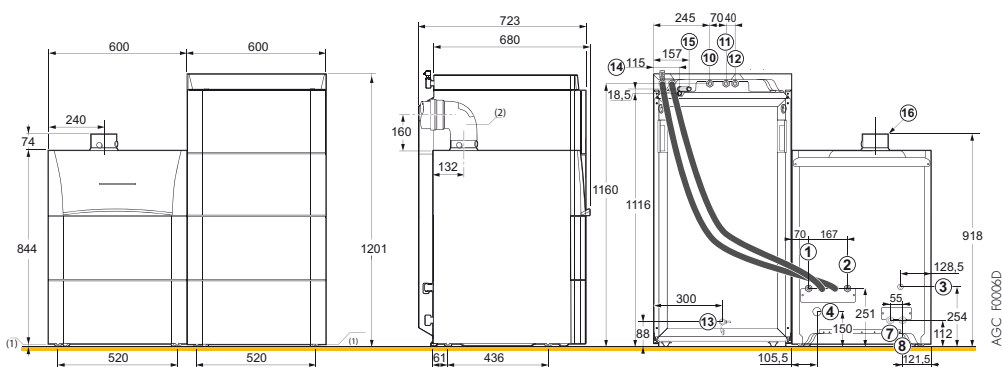


Solar stratification calorifier equipped with:

- a DHW load pump,
- a plate exchanger,
- a draining valve,
- a imposed current anode TAS (Titan Active System®) to protect the enamelled tank,
- a DHW sensor,
- a solar unit (pump, expansion vessel (package ER229 or JA74), safety unit, air vent, glycol tank, solar control system).

\* For AGC.../B 220 SHL must the expansion vessel (package ER229) be wall mounted. An 18-litre solar expansion vessel can be ordered (package JA74).

⇒ AGC 10/15, 15, 25, 35/ B 220 SHL



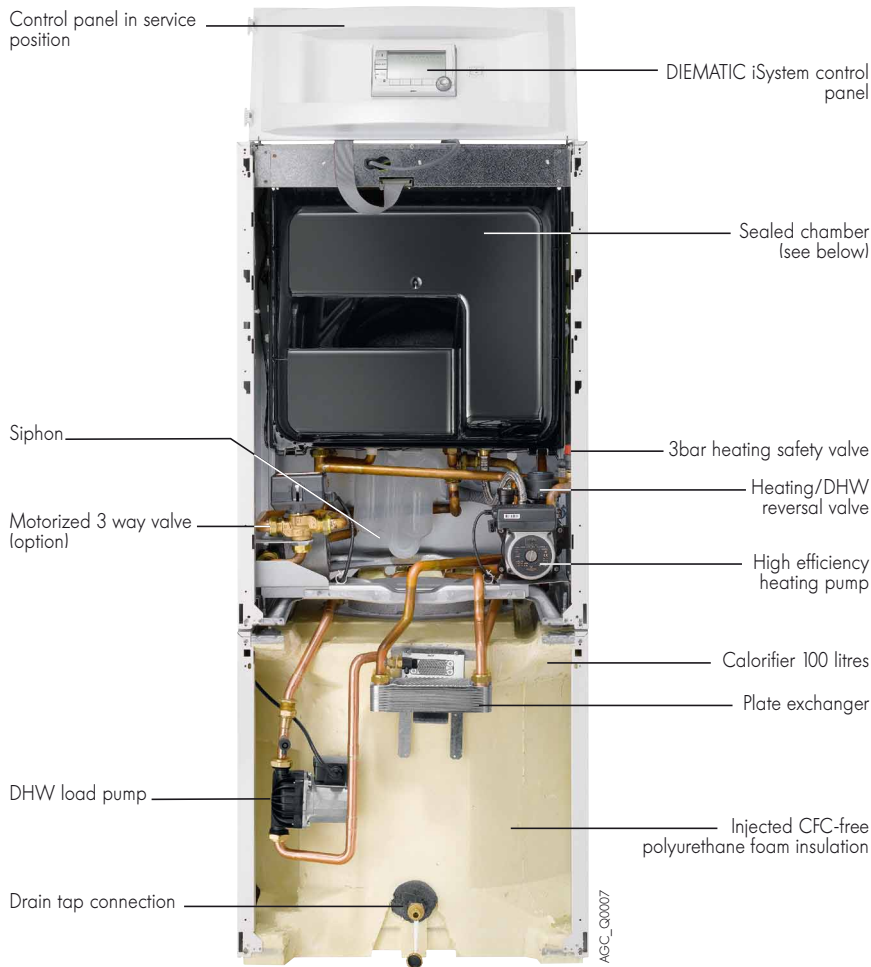
## Key

- |   |   |  |
|---|---|--|
| <p>① ② Heating flow/return direct circuit G 3/4</p> <p>③ Gas inlet Ø G 1/2</p> <p>④ Condensate drain, siphon provided, PVC pipe Ø 24 x 19 mm</p> <p>⑤ ⑥ Primary return/inlet from independent calorifier (with package JA10 – option) G 3/4</p> <p>⑦ ⑧ Heating flow/return circuit with mixing valve G 3/4 (with package JA83*: Internal pipe kit with motorised 3-way valve and pump, or with package JA7: Pipes only kit – options)</p> | <p>⑩ Domestic cold water inlet G 3/4</p> <p>⑪ Domestic hot water outlet G 3/4</p> <p>⑫ DHW circulation loop return G 3/4 (with package ER218: Recirculation kit for 100 HL calorifiers or with package ER219: Recirculation kit for 160 SL and 220 SHL calorifier – options)</p> <p>⑬ Drain tap connection for pipe Ø ext. 14 mm</p> <p>⑭ Primary inlet from solar coil Cu 18 mm</p> <p>⑮ Primary outlet from solar coil Cu 18 mm</p> | <p>⑯ Evacuation of combustion products and air inlet pipe Ø 60/100 mm</p> <p>(1) Feet adjustable from 10 to 30 mm</p> <p>(2) Elbow delivered with the HR48 horizontal forced flue (optional)</p> <p>G: Cylindrical external thread (water tightness by flat gasket)</p> <p>* Equipped with a high efficiency energy heating pump</p> |
|---|---|--|

# TECHNICAL SPECIFICATIONS

## DESCRIPTION

### AGC.../V 100 HL



#### Detail of the boiler's internal lighting



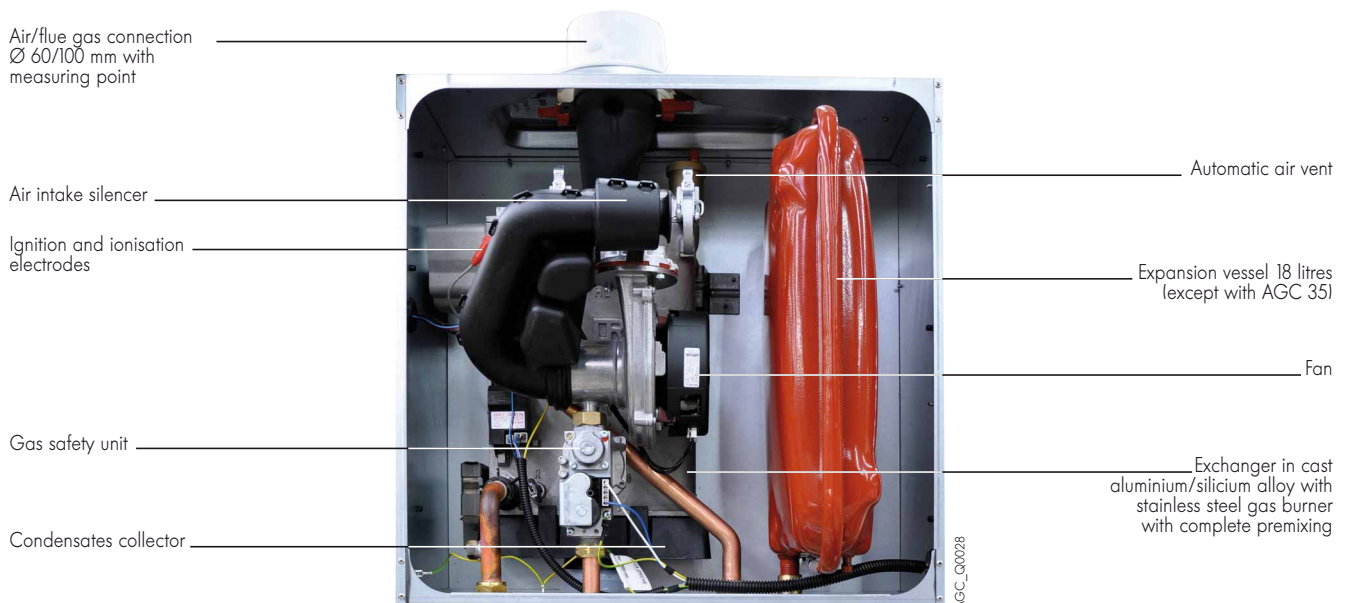
#### Exchanger/burner



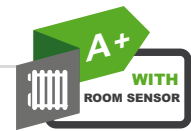
#### Heating body (section view)



#### Sealed chamber



# TECHNICAL SPECIFICATIONS



With AD284, AD285, FM52  
Outdoor sensor delivered with all models

## TECHNICAL SPECIFICATIONS

### ⇨ Boiler specifications

Model	AGC...	10/15 10/15/V... 10/15/B...	15 15/V... 15/B...	25 25/V... 25/B...	35 35/V... 35/B...	
Useful output at 50/30°C Pn in heating mode (min.-max.)	kW	3.4-11.2	3.4-15.8	5.6-25.5	7.0-35.9	
Efficiency	100% Pn, at average temp. 70°C	%	99.3	99.3	99.2	99.1
at... % output	100% Pn, at return temp. 30°C	%	107.0	105.3	102.0	102.2
and... °C water temp.	30% Pn, at return temp. 30°C	%	110.2	110.2	110.1	110.6
Seasonal space heating energy efficiency (I)	%	93	94	94	94	
Seasonal space heating energy efficiency (with outdoor sensor)(2)	%	95	96	96	96	
Nominal water flow at Pn, Δt = 20K	m³/h	0.43	0.62	1.04	1.46	
Stand-by losses at Δt = 30K	W	78	78	78	85	
Auxiliary electrical power at Pmin./Pn (without circ. pump)	W	18/31	18/31	18/46	18/53	
Power heating pump max.	W	52	52	52	52	
Useful output at 80/60°C (min.-max.)	kW	3.0-10.4	3.0-14.9	5.0-24.8	6.3-34.8	
Manometric height available heating circuit	mbar	630	525	180	200	
Gas flow at Pn	gas H/L	m³/h	1.59/1.85	1.59/1.85	3.10/3.61	3.71/4.32
(15°C - 1 013mbar)	propane	m³/h	0.61	0.61	1.20	1.44
Flue gas temperature (min.-max.)	°C	30-65	30-65	30-80	30-75	
Mass flue gas output (min.-max.)	kg/h	5.3-25.2	5.3-25.2	8.9-50.0	11.1-57.3	
CO <sub>2</sub> content on natural gas H (min.-max.)	%	8.4-8.8	8.4-8.8	8.4-8.8	8.6-9.0	
Pressure available at the boiler outlet	Pa	80	80	130	140	
Water capacity	l	1.9	1.9	1.9	2.5	
Net weight AGC 10/15, 15, 25 and 35	kg	55	55	58	58	

(I) According to commission regulation (EU) n° 813/2013. (2) According to commission regulation (EU) n° 811/2013.

### ⇨ DHW specifications

Model	AGC...																
		10/15/V 100 HL	15/V 100 HL	25/V 100 HL	35/V 100 HL	10/15/ VL 160 SL	15/ VL 160 SL	25/ VL 160 SL	35/ VL 160 SL	10/15/V 160 SL	15/V 160 SL	25/V 160 SL	35/V 160 SL	10/15/V 220 SHL	15/V 220 SHL	25/V 220 SHL	35/V 220 SHL
DHW calorifier capacity	l	100	100	100	100	160	160	160	160	155	155	155	155	220	220	220	220
Exchanged power	kW	15	15	28	32	14.5	14.5	23	25	15	15	28	32	15	15	28	32
Flow over 10 min at Δt = 30K	l/10 min	210	210	255	280	240	240	245	245	235	235	240	245	200	200	240	260
Flow per hour at Δt = 35K	l/h	370	370	690	790	350	350	560	630	370	370	690	790	370	370	690	790
Spec. flow at Δt = 30K*	l/min	21	21	25.5	28	20	20	24	24.5	20	20	24	24.5	20	20	24	26
Auxiliary electrical power in DHW mode**	W	70/45	70/45	70/63	120/85	70	70	70	120	70	70	70	120	70/45	70/45	70/63	120/85
DHW losses through the outer casing at Δt = 45K	W	62	62	62	62	75.5	75.5	75.5	75.5	80	80	80	80	117	117	117	117
Coefficient of heat losses	W/K	1.38	1.38	1.38	1.38	1.67	1.67	1.67	1.67	1.78	1.78	1.78	1.78	2.09	2.09	2.09	2.09
Net weight	kg	111	111	114	114	141	141	144	144	140/143	140/143	143/146	143/146	171/174	171/174	174/177	174/177

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, storage temp. 60°C

\* compliance with EN 13203

\*\* primary side/secondary side

### ⇨ Solarside specifications



Model	AGC...	/V 220 SHL and /B 220 SHL
Solar volume/back-up volume	l	135/85
Solar exchanger capacity	l	8.4
Solar exchange surface	m²	1.25

## 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](http://www.ecodesign.dedietrich-heating.com) »

# CONTROL PANEL DIEMATIC iSystem

## CONTROL PANEL DIEMATIC iSystem

The **DIEMATIC iSystem** control panel is a very advanced control panel, with new control ergonomics which includes electronic programmable regulation as standard to modulate the boiler temperature by activating the modulating burner according to the outside temperature and the room temperature if a CDI D. iSystem, CDR D. iSystem or simplified interactive remote control is connected (optional).

As standard, DIEMATIC iSystem is capable of automatically operating a central heating installation with a direct circuit without mixing valve and 1 circuit with mixing valve (the flow sensor - package AD199 - must be ordered separately, however).

By connecting another "PCB + sensor for 1 valve circuit" option (package AD249), it is therefore possible to control up to 3

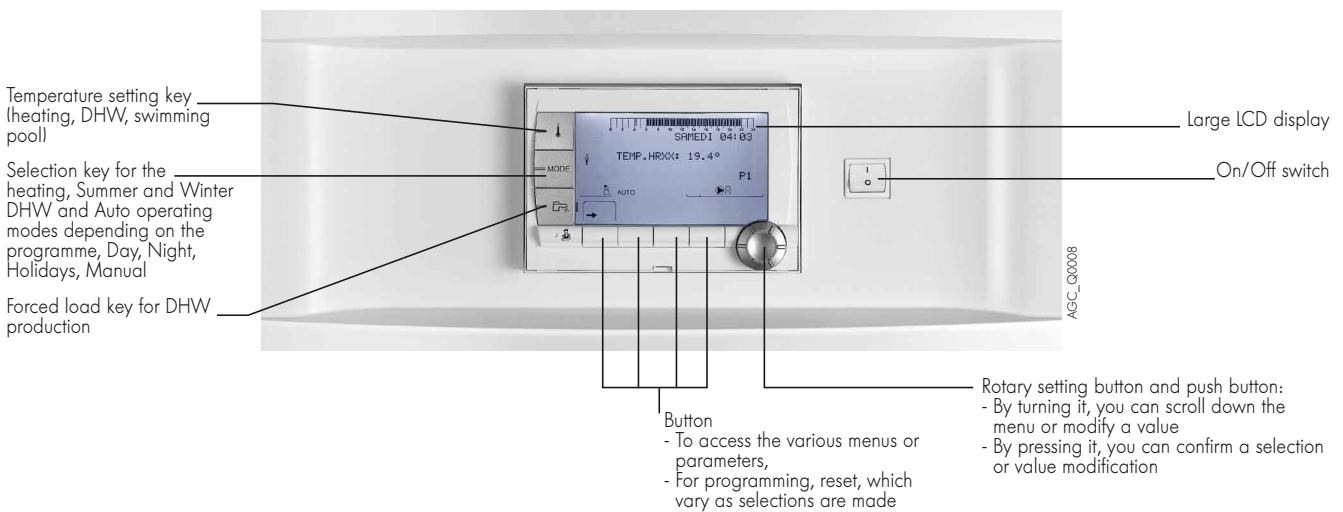
circuits in total and each of these circuits can be fitted with a CDI or CDR D. iSystem remote control (optional).

Connection of a domestic hot water sensor makes it possible to programme and regulate a DHW circuit.

This control system has been specifically developed to enable **optimum management of systems combining various heating generators** (boiler + heat pump or + solar system...). It allows the installer to set the parameters for the entire heating installation regardless of its degree of complexity.

In the context of larger installations, it is also possible to connect 2 and as many as 10 boilers in cascade.

It is possible to install additional circuits through the regulation DIEMATIC VM iSystem.



## DIEMATIC iSystem CONTROL PANEL OPTIONS



### Domestic hot water sensor (length 5m) - Package AD212

This is used for regulating the DHW temperature as a priority and programming of domestic hot water production with an independent calorifier. Is

delivered as standard with the tank 100 HL, 160 SL, L 160 SL and 220 SHL.



### Outlet sensor downstream of the valve (length 2.5m) - Package AD199

This sensor is required to connect the first circuit with mixing valve to a boiler fitted with a DIEMATIC iSystem control panel.



### PCB + sensor for 1 mixing valve - Package AD249

This is used to control a mixing valve with an electromechanical or electrothermal motor. The PCB is inserted into the DIEMATIC iSystem panel

connected by pin connections. DIEMATIC iSystem can receive 1 "PCB + sensor" option, enabling it to control 1 additional mixing valve.



### Sensor for storage tank (length 5m) - Package AD250

Includes 1 sensor for managing a storage tank with a boiler fitted with a DIEMATIC iSystem control panel.



# CONTROL PANEL DIEMATIC iSYSTEM

## DIEMATIC iSystem CONTROL PANEL OPTIONS



**CDI D. iSystem interactive remote control (wire)** - Package AD285  
**CDR D. iSystem interactive "radio" remote control (without transmitter/receiver radio)** - Package AD284  
**Radio boiler module DIEMATIC iSystem (transmitter/receiver)** - Package AD252

These are used to override all instructions from the DIEMATIC iSystem control panel from the room in which they are installed. In addition, they enable the self-adaptability of the heating regime for the circuit concerned (one CDI D. iSystem or CDR D. iSystem per circuit).

In the case of the CDR D. iSystem, the data are transmitted by radio waves from the place where the CDR D. iSystem is installed to the transmitter/receiver box (package AD252) placed close to the boiler.



**Simplified remote control with room sensor** - Package FM52

This is used from the room in which it is installed to override certain instructions from the DIEMATIC iSystem panel:

- room temperature program and instruction override. It is also used to enable the self-adaptability of the heating curve for the circuit concerned (1 remote control per circuit).



**BUS connection cable (length 12m)** - Package AD134

The BUS cable is used to make the connection between 2 boilers fitted with the DIEMATIC iSystem control panel in a cascade installation, as well as

the connection of a DIEMATIC VM iSystem control unit or a telemonitoring network transmitter.



**Radio outside temperature sensor** - Package AD251  
**Boiler radio module (radio transmitter)** - Package AD252

The radio outside temperature sensor can be delivered as optional equipment for systems in which the installation of the external wire connection sensor delivered with DIEMATIC iSystem control panel would be too complex.

If this sensor is used:

- With a wire connection remote control (AD285 or FM52), it is necessary to order the "Boiler radio module"
- With a radio remote control (AD284), already combined with a "boiler radio module" (AD252), control of a second module is not necessary.



**DIEMATIC VM iSystem wall-hung control unit** - Package AD281

The DIEMATIC VM iSystem electronic control system, incorporated in a wall-mounted box, is used to manage and control two heating circuits and a DHW circuit and each of the heating circuits may be a direct circuit or a circuit with motorised 3-way mixing valve.

It is possible to interlink up to 20 DIEMATIC VM iSystem control systems and thus configure numerous combinations, regardless of the type of installation:

- DIEMATIC VM iSystem can be used in combination with an existing generator to control additional heating and DHW circuits.
- DIEMATIC VM iSystem can also be used fully autonomously on its own to control heating

and DHW circuits according to the outside temperature (sensor to be ordered separately - package FM46) independently of the generator.

- DIEMATIC VM iSystem can control a boiler via OpenTherm (existing outlet on DIEMATIC VM iSystem) for a boiler equipped with an OpenTherm bus, or as «ON/OFF» via the auxiliary contact for any other generator (burner, HP, wood-fired boiler...).
- DIEMATIC VM iSystem can control a cascade of boilers:
  - Equipped with a DIEMATIC control panel
  - Equipped with an OpenTherm BUS via an interface board (1 board per generator).

# BOILER OPTIONS

## HYDRAULIC CONNECTING KITS

JA11



AGC\_Q0018

⇒ For AGC.../V 100 HL, V 160 SL and V 220 SHL (column model)

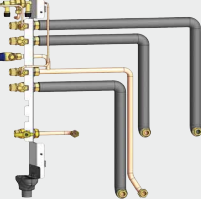
**Central connection kit - Package JA11**

**Left connection kit - Package JA12**

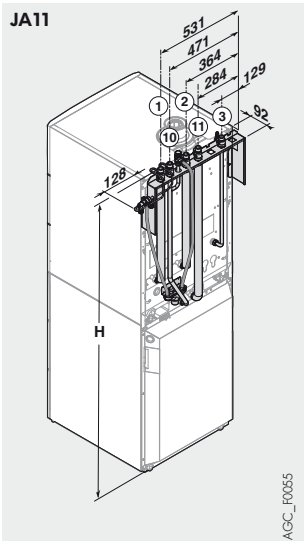
**Right connection kit - Package JA13**

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

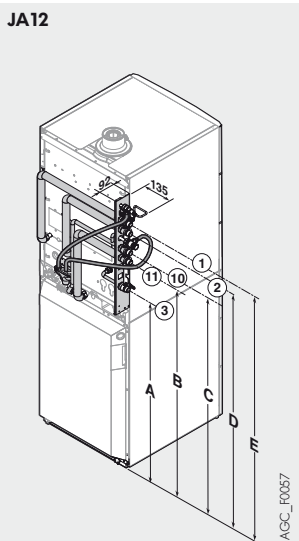
JA12



AGC\_Q0019

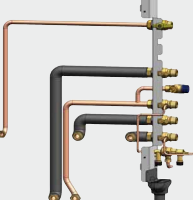


AGC\_F0055

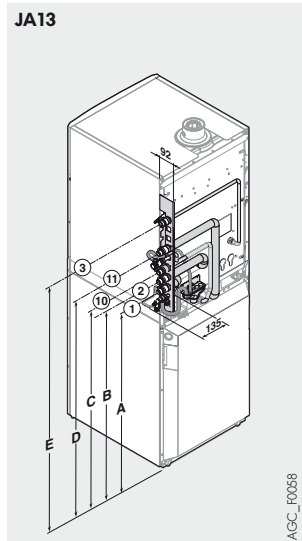


AGC\_F0057

JA13



AGC\_Q0020



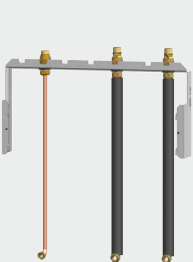
AGC\_F0058

AGC 10/15,15, 25 and 35/	H
V 100 HL	1469
V 160 SL	1749
V 220 SHL	2029

A	B	C	D	E
818	983	1038	1148	1203
1098	1263	1318	1428	1483
1378	1543	1598	1708	1763

A	B	C	D	E
815	873	928	1038	1203
1095	1153	1208	1318	1483
1375	1433	1488	1598	1763

JA34



AGC\_Q0021A

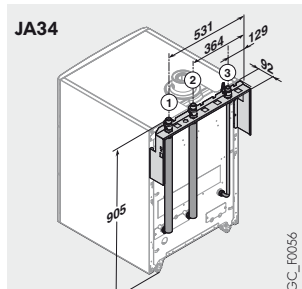
⇒ For AGC... (heating only) and AGC.../B 160 SL and B 220 SHL

**Solo connecting kit - Package JA34**

This board is delivered with the water and gas valves pre-fitted. It is attached to the back of the boiler and is used to carry the gas inlet, the heating return and the heating flow to the top.

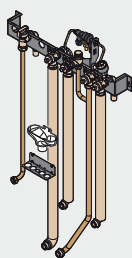
- ① Heating return direct circuit G 3/4
- ② Heating flow direct circuit G 3/4
- ③ Gas inlet G 3/4

- ⑩ DCW inlet G 3/4
- ⑪ DHW outlet G 3/4



AGC\_F0056

JA68



AGC\_F0059A

⇒ For AGC.../V 100 HL, V 160 SL and V 220 SHL (column model)

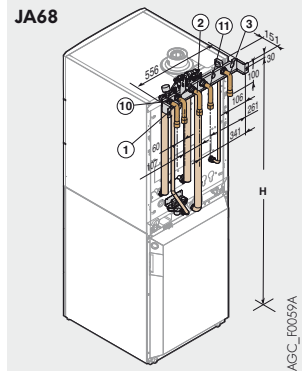
**Pre-mounting kit - Package JA68**

This pre-mounting kit is available as an option to be pre-installed and allow the installer to carry out in advance all hydraulic connections and leak testing to put the boiler in place at the last moment. It includes fittings for flow and return direct circuit, the cold water inlet and hot water outlet, the gas inlet and allows connections from the bottom or top;

**NB:** With kit JA68, is the mounting of package JA35 (p. 11) not possible.

- 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.

- ⑩ DCW inlet Ø 18 mm int.
- ⑪ DHW outlet Ø 18 mm int.



AGC\_F0059A

AGC.../	H
V 100 HL	1415
V 160 SL	1695
V 220 SHL	1975

# BOILER OPTIONS

## HYDRAULIC MODULES

Using the various elements presented below, it is possible to put together complete hydraulic connection kits depending on the installation to be constructed.

List of packages required by the type of installation to achieve:

Type of installation to achieve	1 radiator circuit or 1 direct underfloor heating circuit	1 circuit with mixing valve + 1 radiator direct circuit (or underfloor circuit)	3 circuits, 2 with mixing valve
AGC... AGC.../V... AGC.../B...	—	JA83	JA7 + EA140 + 2 x EA144 (I)
Options needed	—	—	PCB AD249 Sensor AD199

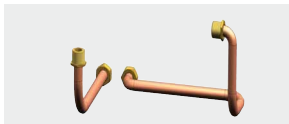
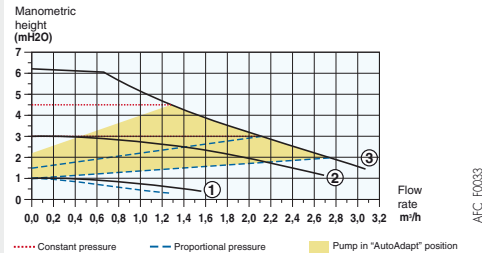
(I) The boiler/collector connections should be made by the installer



### Internal 3-way valve kit (with high efficiency energy pump) - Package JA83

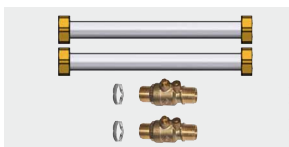
Permits the connection of a circuit with mixing valve. This kit will be integrated under the casing and includes the sensor (AD199).

#### Specifications of the pump in the 3-way valve kit



### Adapter kit for external 3-way valve - Package JA7

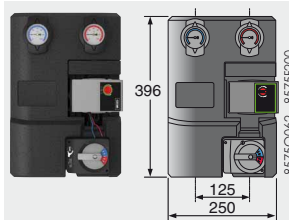
Allows the connection of two circuits with mixing valve on the outside of the boiler.



### Connecting pipes between the adapter kit (JA7) and a hydraulic connection kit - Package JA35

This kit comprises two ribbed pipes and two hydraulic valves. Allowed to connect the adapter

kit for « external 3 way valve » (JA7) to the connection kit used (JA34 or JA11, 12 or 13).



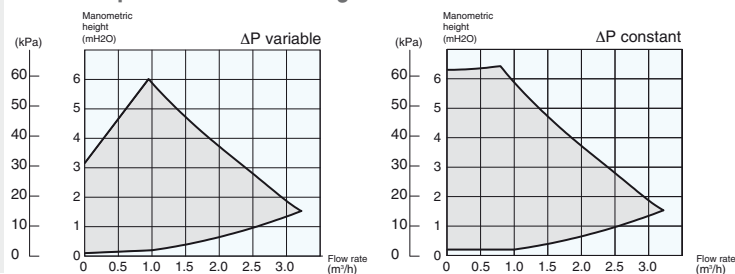
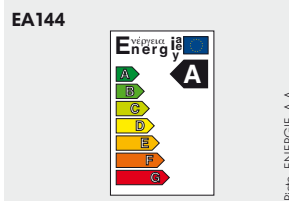
### Hydraulic module for 1 circuit with valve - Package EA144

(with a high efficiency energy pump)

These modules are fully assembled, insulated and tested, fitted with an pump, a motorized 3-way mixing valve, a differential safety valve,

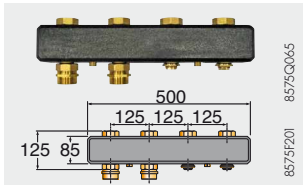
thermometers built into the gate valves and a non-return valve built into the outlet valve.

#### Technical specifications of heating circulator WILO YONOS for RS25/6 fitted to the hydraulic module



# BOILER OPTIONS

## OTHER ACCESSORIES



**Collector for 2 or 3 circuits** - Package EA140

With an installation with 2 or 3 circuits.



**Set of 2 walls consoles for collector** - Package EA141

These consoles are used to fix the collector to the wall.



**Set connection G in R (1" and 3/4")** - Package BH84

This kit includes 2 x G 1 - R 1 fittings and 1x G 3/4 - R 3/4 fitting with gaskets and can be

used to switch from flat gasket fittings to conical fittings (water tightness in the threading).



**60/60 - 1" decoupling cylinder** - Package GV45

For all installations with 2 circuits (1 direct circuit + 1 valve circuit) or for installations in cascade up to 70kW is the use of decoupling cylinder highly recommended. The 60/60 - 1" cylinder is delivered

with 1 manual air 1/2" vent and 1 drainage valve. It can be pivoted on itself for connection to the left or right of the boiler. He is delivered insulated and fitted with a bracket to secure it to the wall.



**Cleaning tool boiler body** - Package HR45

Connects to a classic vacuum cleaner and allows an easy boiler body cleaning.



**DU13**

**Condensates neutralisation system (with pump)** - Package DU13

**Condensates neutralisation system DN 2.0 (without pump)** - Package SA3

**Condensates neutralisation system DN 1 (until 75kW)**- Package SA1

**Wall bracket for neutralisation tank DN 1** - Package SA2

**Neutralisation granules (10kg)** Ref. 94225601\*

**Granule refill for neutralisation tank (25kg)** - Package SA7

\*To be ordered at the spare parts department

The materials used for the condensates flow pipes must be appropriate; otherwise the condensates must be neutralised.

**Principle:** The acidic condensates flow through a tank filled with granules before being discharged into the waste water network.



**SA1**

DNI\_Q0001



**SA2**

DNI\_Q0002



**Flue gas thermostat** - Package JA38

This thermostat cut the boiler when the flue gas temperature exceeds 110°C.



NANFO\_Q0045

**Propane conversion kit for AGC 15..., / V..., /B...** - Package JA39

**Propane conversion kit for AGC 25..., / V..., /B...** - Package JA40

**Propane conversion kit for AGC 35..., / V..., /B...** - Package JA41



**18 liter solar expansion vessel** - Package JA74

This solar expansion vessel replaces the 12 litre (package ER229). The delivered mounting bracket

allows the mounting of the expansion vessel under the casing of the boiler AGC.../V 220 SHL.

# BOILER OPTIONS

## STOVE FITTING ACCESSORIES SPECIFIC TO BOILERS AGC



**Adapter Ø 80/125 mm - Package HR38**

Is fitted instead and in place of the Ø 60/100 mm fitting delivered mounted on the boiler. It enables the direct connection of a vertical forced flue

Ø 80/125 mm or a boiler connection kit if connected to the collective flue system duct.



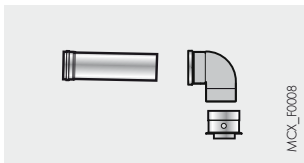
**Adapter bi-flow Ø 60/100 mm to 2 x Ø 80 mm - Package DY868**



**Reducing elbow - Package JA43**

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

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



**Connecting kit Ø 80/125 mm on collective flue system duct - Package DY887**

If connected to a collective flue system duct, the adapter Ø 60/100 mm delivered with the boiler should be removed and replaced by

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

## FOR DHW PRODUCTION



**Domestic hot water sensor - Package AD212**

This is used for regulating the DHW temperature as a priority and programming of domestic hot water

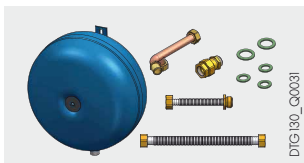
production with an independent calorifier.



**Magnesium anode kit for tank protection - Package EA103**

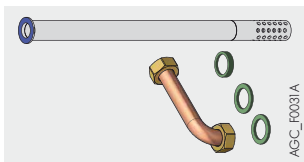
For DHW calorifier models AGC.../V... and AGC.../B..., if the "Titan Active System<sup>®</sup>" self-adapting current anode fitted as standard is not

permanently activated (in secondary homes, for example).

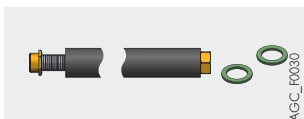


**Kit DHW expansion vessel for AGC.../V 100 HL and /V 160 SL - Package ER233**

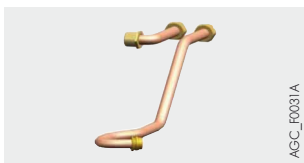
Can be integrated in the boiler, prevents water loss during tank reheating in DHW mode.



**Recirculation kit for calorifier 100 HL - Package ER218**



**Recirculation kit for calorifiers 160 SL and 220 SHL - Package ER219**








**Connecting kit for the connection of an independent calorifier - Package JA10**

For AGC... (heating only), this kit mounted under the casing of the boiler allows the connection of an independent calorifier.

# BOILER OPTIONS

## FLAT COLLECTORS RECOMMENDED WITH BOILER AGC.../V 220 SHL AND AGC.../B 220 SHL

		Number of people living in the home DIETRISOL MODULENS G® DIETRISOL collector type	from  to  AGC.../220 SHL		
		Type of installation	2 x PRO D230 IT	ST	
<b>For installation into the roof</b>					
	- for mechanical tiles (slope ≥ 22°)	- Roof pack 5 m² i.e 2 x PRO D230	Package	ER621	-
	- for canal tiles (slope > 17°)	- Roof pack 5 m² i.e 2 x PRO D230	Package	ER625	-
<b>For installation on roof (I)</b>					
	- for mechanical tiles with alu. universal bracket	- Roof pack 5 m² i.e 2 x PRO D230	Package	-	ER432
	- for mechanical tiles, on rafter	- Roof pack 5 m² i.e 2 x PRO D230	Package	-	ER434
		- BIO «High performances» heat transfer fluid (- 30°C)	Package	ER316	ER316

(I) Type of anchorage fittings to select depending of the roof type (refer to current catalogue or "DIETRISOL" technical manual).

## INFORMATION REQUIRED FOR INSTALLATION

### 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 AGC condensing boilers must be installed in premises protected from frost, which can also be ventilate.

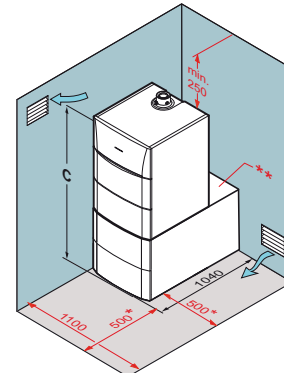
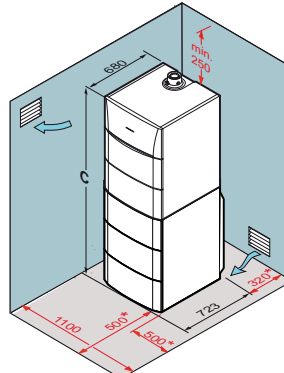
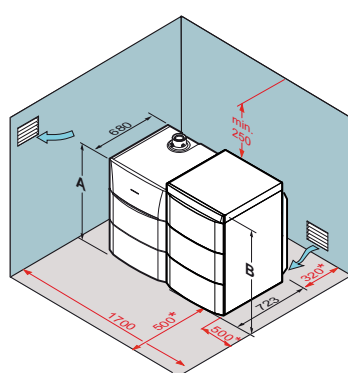
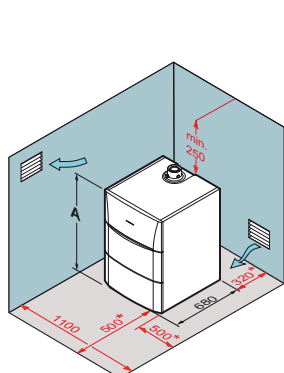
Compliance with a minimum distance between the flue gas evacuation system or the boiler and combustible materials (furniture, for example) is not necessary.

⇒ AGC...

⇒ AGC.../B...

⇒ AGC.../V...

⇒ AGC.../VL...



\* With expansion vessel mounted on the back side, this dimension can be reduced at 100 mm when the expansion vessel is mounted on the wall.

\*\* The calorifier L 160 SL can be placed directly against the wall.

Typ of calorifier	A (mm)		B (mm)		C (mm)		
	-	160 SL	220 SHL	100 HL	160 SL	L 160 SL	220 SHL
	844	920	1201	1408	1680	1449	1968



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.**

# INFORMATION REQUIRED FOR INSTALLATION

## Ventilation

(chimney connection only B<sub>23p</sub>)

The cross-section of the boiler room ventilation (through) with 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.

## 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:

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

## Certificate of conformity

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

## 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 > 3 mm. Protect the connection to the mains with a 6 A fuse.

## Note:

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

## 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

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.

## Connection to the heating circuit

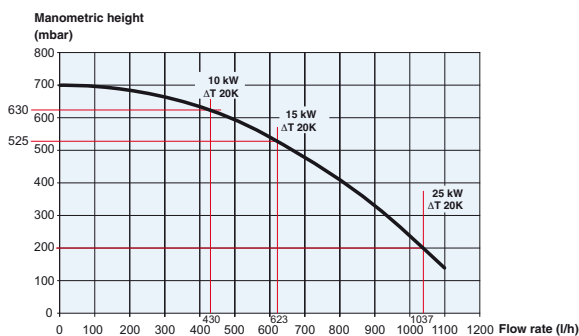
AGC boilers must only be used in closed circuit heating installations. The central heating systems must be cleaned to eliminate the debris (copper, strands, brazing flux) linked to the installation of the system and deposits that can cause malfunctions (noise in the system, chemical reaction between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

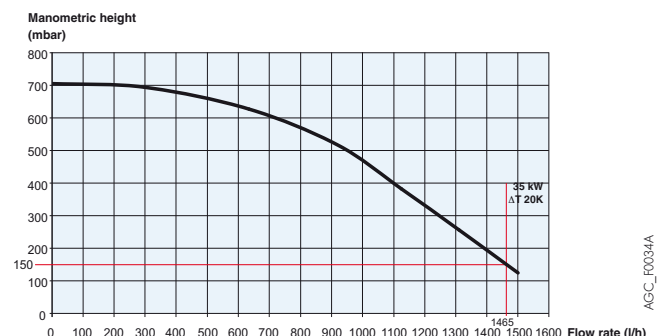
The water treatment products used must comply with regulations.

## Manometric height available for heating circuit

**AGC 10/15, 15, 25/... (high efficiency heating pump)**



**AGC 35/... (high efficiency heating pump)**



## 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

be in corrosion-resistant material. An optional condensates neutralisation system is available (package SA1 see page 12).

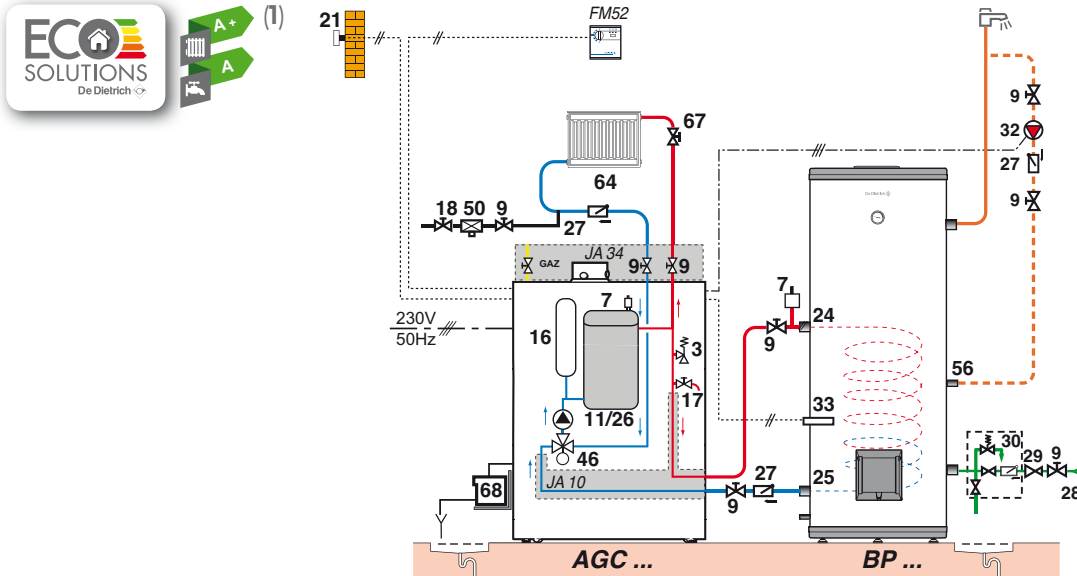
# EXAMPLES OF INSTALLATIONS

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 AGC 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.

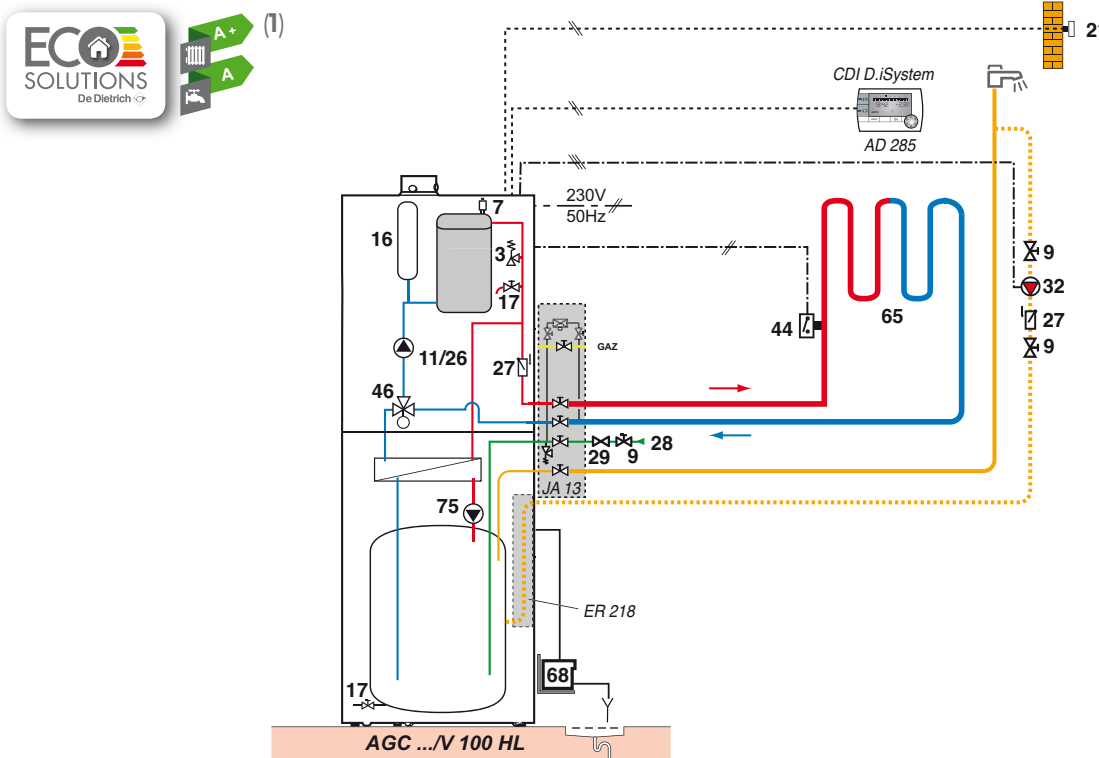
**Attention :** For the connection of domestic hot water, a sleeve made of steel, cast iron or any other insulating material must be interposed between the hot water outlet and these pipes to prevent any corrosion to the connections, if the distribution pipes are made of copper.

## AGC...with 1 radiator circuit (direct) + 1 DHW circuit with independent calorifier, outside sensor, remote control



AGC\_F0025A

## AGC.../V 100 HL with 1 underfloor heating circuit (direct), outside sensor, interactive remote control (wire)



AGC\_F0026C

(1) AGC 15, 25 or 35 completed with room sensor (outside sensor delivered)

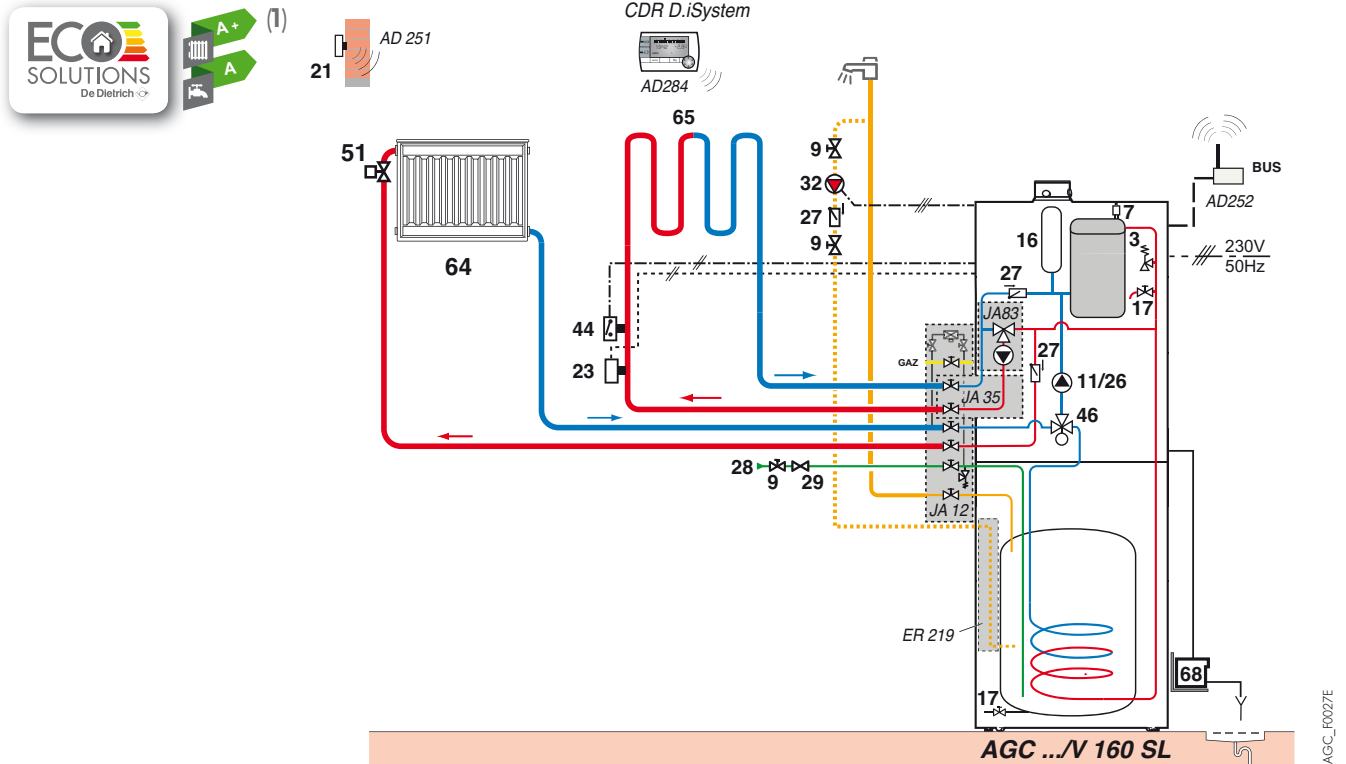
### Key

- |  |   |   |   |
|--|---|---|---|
| 3 Safety valve 3 bar                           | 11b Electronic heating pump for circuit with mixing valve | 24 Primary inlet on the DHW tank exchanger  | 30 Sealed safety device calibrated to 7 bars                  |
| 4 Pressure gauge                               | 13 Flush valve  | 25 Primary outlet on the DHW tank exchanger | 32 (Optional) DHW loop pump                                   |
| 7 Automatic air vent                           | 16 Expansion tank   | 26 Domestic water load pump                 | 33 DHW temperature sensor                                     |
| 8 Manual air vent                              | 21 Outside sensor   | 27 Non-return valve                         | 35 Decoupling cylinder (available as an option - see page 12) |
| 9 Isolation valve                              | 23 Outlet temperature sensor after mixing valve           | 28 Domestic cold water inlet                | 39 Injection pump   |
| 11 Electronic heating pump                     |   | 29 Pressure reducer                         |   |
| 11a Electronic heating pump for direct circuit |   |   |   |



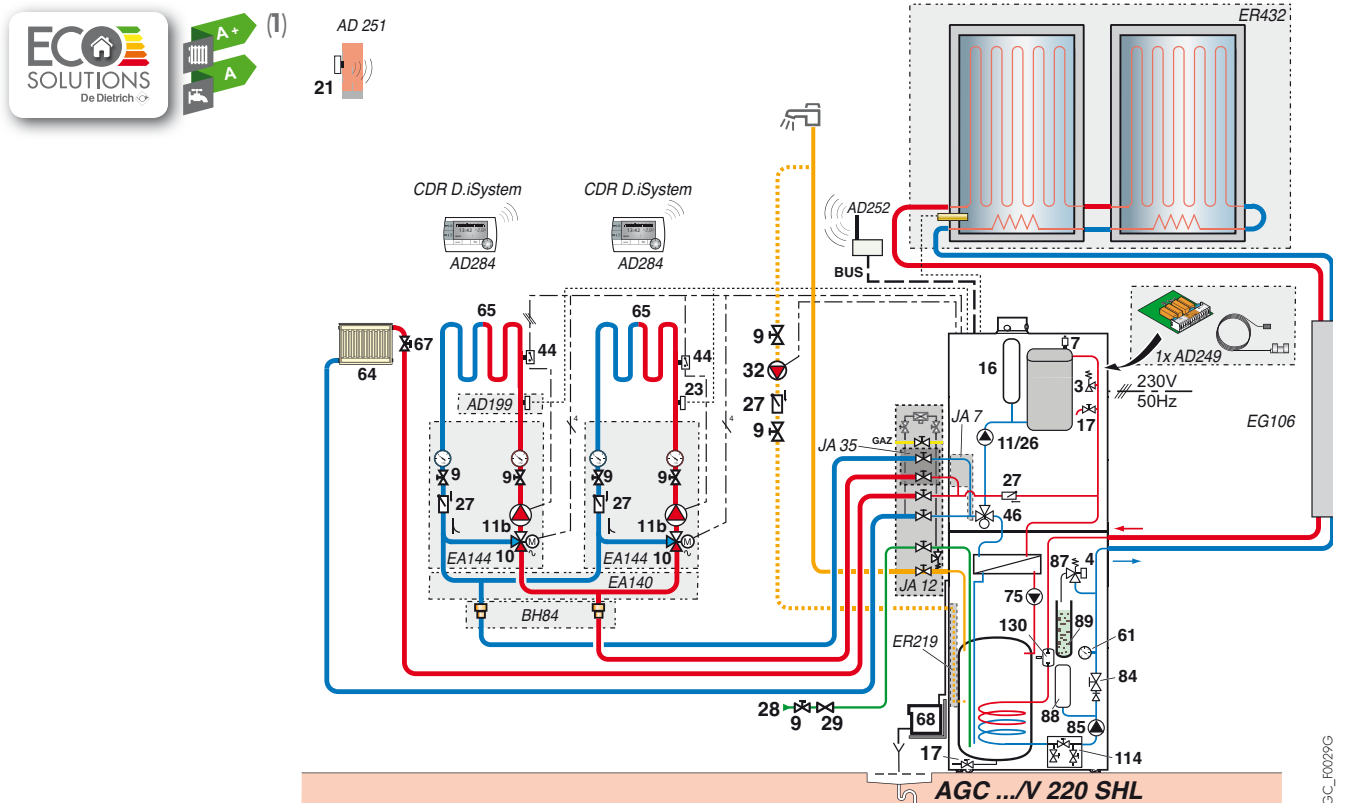
# EXAMPLES OF INSTALLATIONS

AGC.../V 160 SL with 1 radiator circuit (direct) + 1 underfloor heating circuit with mixing valve (integrated in the boiler), outside sensor, interactive wireless remote control



AGC\_R0027E

AGC.../V 220 SHL with 1 radiator circuit (direct) + 2 circuits with mixing valve, 2 flat collectors PRO D230, outside sensor, 2 interactive wireless remote control



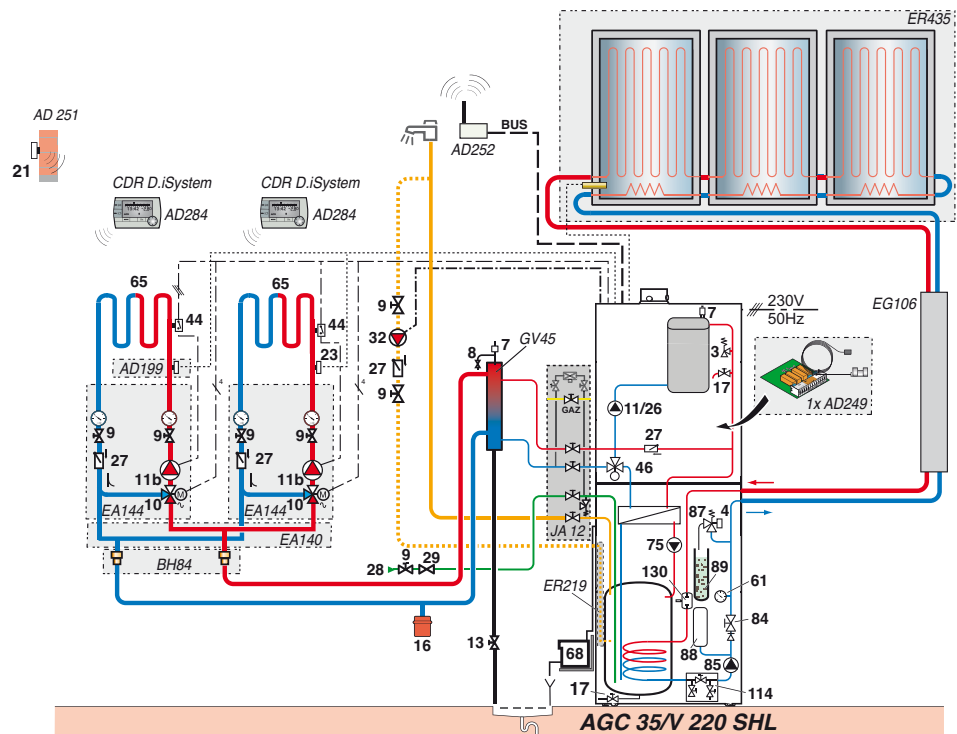
AGC\_R0029G

(1) AGC 15, 25 or 35 completed with room sensor (outside sensor delivered)

- |   |  |   |  |
|---|--|---|--|
| 44 65°C limiter thermostat with manual reset for underfloor heating | 61 Thermometer   | 75 Domestic water pump                                  | 88 Solar expansion tank                                  |
| 46 3 way-directional valve with motor reversing                     | 64 Radiator circuit (gentle heat radiators, for example)     | 79 Primary outlet of the solar exchanger                | 89 Recipient for heat transfer fluid                     |
| 50 Disconnecter   | 65 Low temperature circuit (underfloor heating, for example) | 84 Stop valve with releas non return valve              | 109 Thermostatic mixing valve                            |
| 51 Thermostatic valve   | 67 Manual valve  | 85 Solar circuit pump (to connect to the solar control) | 114 Solar circuit drainage valve (note: propyleneglycol) |
| 56 DHW circulation loop return                                      | 68 Condensates neutralisation system                         | 87 Safety valve sealed and calibrated to 6 bar          | 130 Degasser with manual purge (Airstop)                 |
|   | 72 Hydraulic bypass  |   |  |

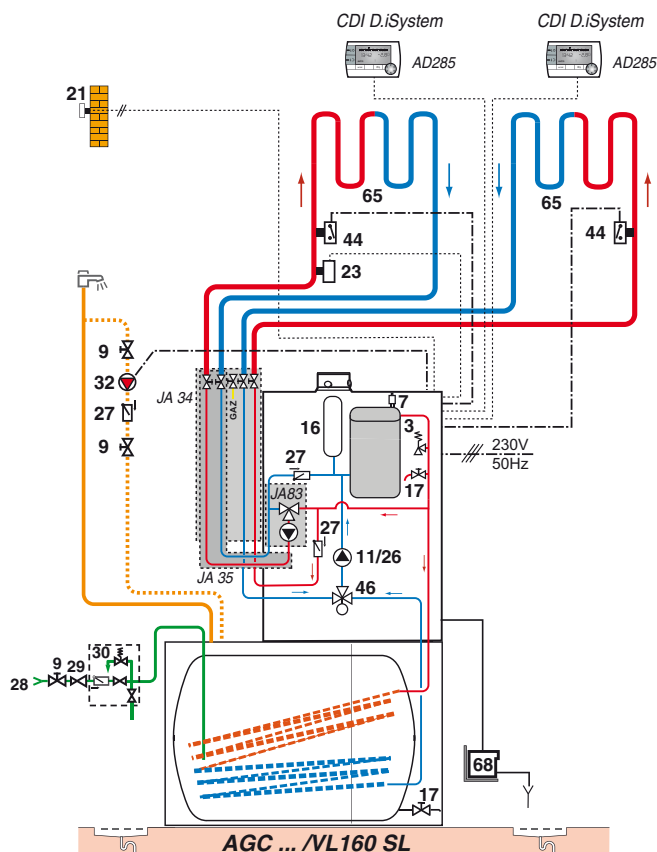
# EXAMPLES OF INSTALLATIONS

AGC 35/V 220 SHL with 2 circuits with mixing valve, 2 flat collectors PRO D230, outside sensor, 2 interactive wireless remote control



(1) AGC 15, 25 or 35 completed with room sensor (outside sensor delivered) (2) With 3 collectors DIETRISOL PRO D230

AGC.../VL 160 SL with 2 circuits with mixing valve, one direct, 1 DHW circuit, outside sensor and 2 interactive wireless remote control

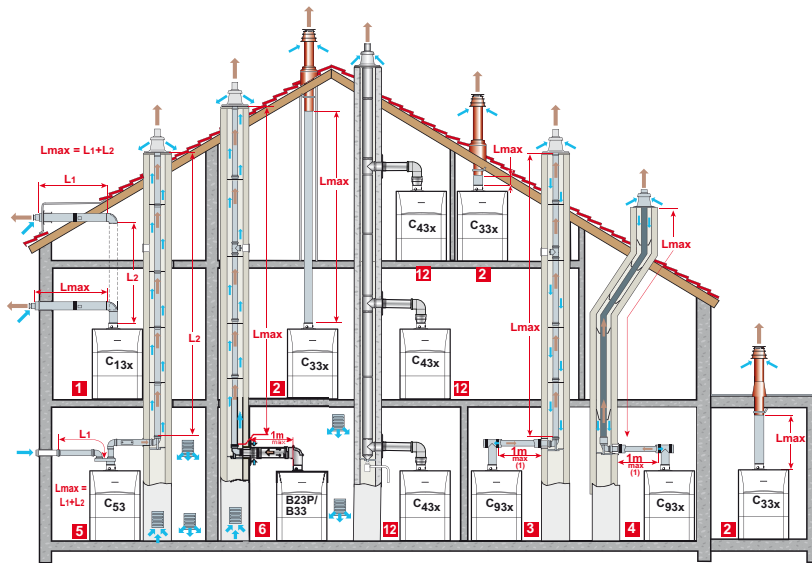


(1) AGC 15, 25 or 35 completed with room sensor (outside sensor delivered)

# 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** Configuration C<sub>13x</sub>: Air/flue gas connection by means of concentric pipes to a horizontal terminal (so-called forced flue)
- 2** Configuration C<sub>33x</sub>: Air/flue gas connection by means of concentric pipes to a vertical terminal (roof outlet)
- or
- 3** Configuration C<sub>93x</sub>: Air/flue gas connection using concentric pipes in the boiler room and single pipes in the chimney (combustive air with counter current in the chimney)
- or
- 4** Air/flue gas connection using concentric pipes in the boiler room and single "flex" pipes in the chimney (combustive air with counter current in the chimney)
- 5** Configuration C<sub>53</sub>: Separate air and flue gas connection using a bi-flow adapter and single pipes (combustive air taken from outside)
- 6** Configuration B<sub>23p</sub>/B<sub>33</sub>: Connection to a chimney (combustive air taken from the boiler room)
- 12** Configuration C<sub>43x</sub>: Connection to a collective flue system conduit

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length  $L_{max}$  shown in the table below.

## TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGTHS ADMISSIBLE ACCORDING TO BOILER TYPE

Type of air/flue gas connection			$L_{max}$ of the connecting pipes in m MODULENS G® AGC		
			10/15 and 15	25	35
Concentric pipes connected to a horizontal terminal (PPS)	C <sub>13x</sub>	Ø 60/100 mm	12	4.2	3.5
		Ø 80/125 mm	12.3	20	17.6
Concentric pipes connected to a vertical terminal (PPS)	C <sub>33x</sub>	Ø 60/100 mm	13	5.5	-
		Ø 80/125 mm	10.7	20	19
Pipes - concentric in the boiler room, - single in the chimney (combustive air with counter current) (PPS)	C <sub>93x</sub>	Ø 60/100 mm Ø 60 mm	15	9	2.8
		Ø 60/100 mm Ø 80 mm	9.9	20	18
		Ø 80/120 mm Ø 80 mm	-	-	20
Pipes - concentric in the boiler room, - "flex" in the chimney (combustive air with counter current) (PPS)	C <sub>93x</sub>	Ø 80/125 mm Ø 80 mm	11.1	20	20
Bi-flow adapter and separate single air/flue gas pipes (combustive air taken from outside) (Alu)	C <sub>53</sub>	Ø 60/100 mm to 2 x Ø 80 mm	40	40	32
In the chimney rigid or flex, (combustive air taken from the premises) (PPS)	B <sub>23p</sub> /B <sub>33</sub>	Ø 80 mm (rigid)	40	40	40
		Ø 80 mm (flex)	40 (1)	40 (1)	28 (1)
Collective flue system conduit for sealed boiler	C <sub>43x</sub>	To size such a system, contact the supplier of the collective flue system			

(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 25 m for flex PPS. In case of higher lengths, holding collars must be added by slices of 25 m.

# DESCRIPTION

## MODULENS AGC...

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

Brand : De Dietrich  
directive, NOx classification: 5  
Model:

**AGC 10/15, 15, 25, 35:** for heating only

**AGC 10/15, 15, 25, 35/V 100 HL:** for heating and domestic hot water preparation by associated 100 litre DHW stratification calorifier placed under the boiler.

**AGC 10/15, 15, 25, 35/V 160 SL and .../B 160 SL:** for heating and domestic hot water preparation by associated 160 litre DHW calorifier with coil placed under the boiler (.../V 160 SL) or placed to the left or to the right of the boiler (.../B 160 SL).

**AGC 10/15, 15, 25, 35/VL 160 SL:** for heating and domestic hot water preparation by associated 160 litre DHW calorifier with coil placed horizontally under the boiler.

**AGC 10/15, 15, 25, 35/V 220 SHL and .../B 220 SHL:** for heating and domestic hot water preparation by associated 220 litre Solar DHW tank placed under the boiler (.../V 220 SHL) or placed to the left or to the right of the boiler (.../B 220 SHL).

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>  
Protection index: IP 21

Power supply: 230V/50Hz

Useful output in heating mode at 50/30°C (max.)

AGC 10/15: \_\_\_\_\_ kW AGC 15: \_\_\_\_\_ kW, AGC 25: \_\_\_\_\_ kW,  
AGC 35: \_\_\_\_\_ kW

Specific flow in DHW mode:

AGC .../V 100 HL: \_\_\_\_\_/min

AGC .../V 160 SL and .../B 160 SL: \_\_\_\_\_/min

AGC .../VL 160 SL: \_\_\_\_\_/min

AGC .../V 220 SHL and .../B 220 SHL: \_\_\_\_\_/min

Boiler:

Max. operating temperature: 90°C

Max. operating pressure: 3bar

Safety thermostat: 110°C

Calorifier:

Max. operating temperature: 95°C

Max. operating pressure: 10bar

Solar calorifier max. operating pressure: 6bar (220 SHL)

Dimensions: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ mm

Weight empty: \_\_\_\_\_ kg

## DESCRIPTION

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 DIEMATIC iSystem 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 + 1 valve circuit (optional flow sensor). Capable of managing 1 DHW circuit (sensor optional) and 1 additional valve circuit (PCB + sensor optional) and a DHW circuit.

New ergonomics and optimization of management of combined heating systems.

Boiler delivered and pre-fitted with, a high efficiency energy modulating heating pump, 3-bar safety valve, 18-litre expansion vessel (except AGC 35), heating/DHW reversal valve, automatic air vent.

- **AGC .../V 100 HL:** with enamelled, insulated 100 litre DHW "High Load" calorifier placed under the boiler. Boiler/tank connecting pipes, tank protection with Titan Active System<sup>®</sup>, a drain valve and DHW sensor included.

- **AGC .../V 160 SL and .../B 160 SL:** with insulated 160 litre DHW "Standard load" calorifier placed under the boiler (.../V 160 SL) or placed to the left or to the right of the boiler (.../B 160 SL). Boiler/tank connecting pipes, tank protection with Titan Active System<sup>®</sup>, a drain valve and DHW sensor included.

- **AGC .../VL 160 SL:** with insulated 160 litre DHW "Standard load" calorifier placed horizontally under the boiler. Boiler/tank connecting pipes, tank protection with Titan Active System<sup>®</sup>, a drain valve and DHW sensor included.

- **AGC .../V 220 SHL and .../B 220 SHL:** with enamelled, insulated 200 litre solar DHW calorifier placed under the boiler (.../V 220 SHL) or placed to the left or to the right of the boiler (.../B 220 SHL). Boiler/tank connecting pipes, tank protection with Titan Active System<sup>®</sup>, a drain valve and DHW sensor included. Pre-fitted with all the components required to connect and control a solar installation: solar station with pump, expansion vessel, safety unit, solar regulation, degasser, glycol recovery tank.

Air/flue gas connection Ø 60/100mm with measuring point.

### Control panel options

- Domestic hot water sensor, sensor for 1 mixing valve
- PCB + sensor for 1 mixing valve
- Sensor for storage tank
- CDI D. iSystem interactive remote control
- CDR D. iSystem interactive "radio" remote control
- Radio boiler module DIEMATIC iSystem
- Simplified remote control with room sensor
- BUS connection cable
- Radio outside temperature sensor, boiler radio module
- Control unit DIEMATIC VM iSystem

### Boiler options

- Central connection kit, left connection kit, right connection kit
- Solo connection kit,
- 12 liter solar expansion vessel
- 18 litre solar expansion vessel
- 3-way internal valve kit, external circuit kit
- Hydraulic module with a high energy efficiency pump
- Collector for 2 hydraulic modules
- Set of 2 walls consoles for hydraulic modules
- Set connection G in R
- 60/60-1" decoupling cylinder
- Cleaning tool boiler body
- 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 (25kg)
- Flue gas thermostat, propane conversion kit
- Adapter Ø 80/125mm, reducing elbow
- Adapter bi-flow Ø 60/100mm to 2 x Ø 80mm
- Connecting kit Ø 80/125mm on collective flue system duct
- Magnesium anode for tank protection
- Kit DHW expansion vessel for AGC .../V 100 HL and /V 160 SL
- Recirculation kit for calorifier 100 HL
- Recirculation kit for calorifiers 160 SL and 220 SHL.

## DE DIETRICH THERMIQUE

S.A.S. with corporate capital of 22 487 610 €

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De Dietrich 