

# DHW PRODUCTION SYSTEMS WITH GAS HYDROGAZ®

STAINLESS STEEL AISI 316L RANGE - FROM 750 TO 6 000L



**CE compliance**  
 • 2014/68/UE  
 • 2014/35/UE  
 • CERTIGAZ (up to 90 kW)



Gas equipment



Stainless steel AISI 316L tank



Inspection manhole

## DESCRIPTION

### Tank

- Vertical stainless steel AISI 316L tank with 3 feet.
- Capacity from 750 à 6 000 litres.
- Maximum working pressure = 7 bar - Test pressure = 10 bar.
- Tappings (in accordance with the following diagram).
- ø 400 mm inspection manhole<sup>(1)</sup>.

<sup>(1)</sup>Note : Compliant with the recommendations of the French General Directorate for Health.

### Removable thermal insulation (including the inspection manhole and the bottom of the tank)

#### Fire proof rating : M0 (Euroclass A2)

- Rockwool - 50 mm thick ( $\lambda = 0,034W/m/K$  - 40 kg/m<sup>3</sup>).
- Isoxal metal sheet jacket.

### Gas equipment fitted onto the manhole ø 400 mm (ø 500 mm for 120 & 140 kW)

- Power burner (integrated control/single-phase 230 V).
- Removable gas fumes to water heat exchanger made of stainless steel.

### Accessories

Double safety thermostat 0/90°C + Safety valve.

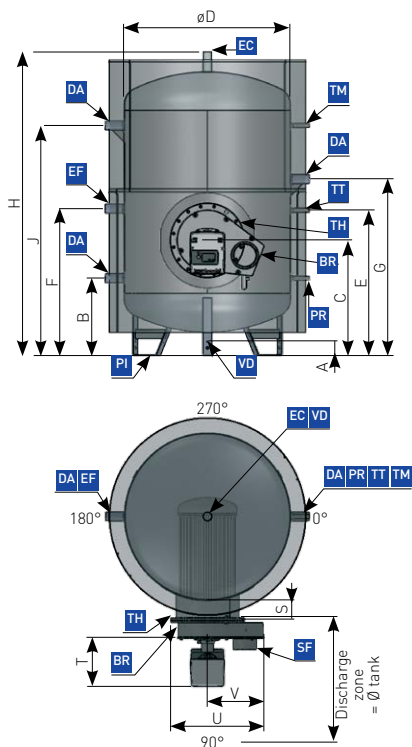
### Options

- Accessories kit (thermometer, DN50 valve for drainage, Water shortage pressure detector).
- Thermal shock box (anti-legionella): thermostat + clock.
- Stainless steel sealed flue system.
- Upon request : non-standard capacity, dimensions, working pressure and tappings implantation.

### Warranties (in accordance with our general conditions of sale)

- Tank and heater = 5 years - Gas fumes to water heat exchanger = 3 years.
- Other items = 1 year.

## DIMENSIONS AND TECHNICAL SPECIFICATIONS GAS EQUIPMENT



### With manhole ø 400 mm

| Capacity (Litres)    | A   | B   | C    | ØD   | E1   | F    | G   | H    | Weight (kg) |
|----------------------|-----|-----|------|------|------|------|-----|------|-------------|
| 750                  | 90  | 440 | 890  | 800  | 900  | 1450 | 690 | 1820 | 155         |
| 1000H <sup>(1)</sup> | 90  | 440 | 890  | 800  | 900  | 2000 | 690 | 2370 | 175         |
| 1000B <sup>(1)</sup> | 90  | 475 | 925  | 950  | 935  | 1485 | 725 | 1890 | 172         |
| 1500H <sup>(1)</sup> | 90  | 475 | 925  | 950  | 935  | 2035 | 725 | 2440 | 215         |
| 1500B <sup>(1)</sup> | 90  | 510 | 960  | 1100 | 970  | 1520 | 760 | 1960 | 268         |
| 2000H <sup>(1)</sup> | 90  | 510 | 960  | 1100 | 970  | 2070 | 760 | 2510 | 349         |
| 2000B <sup>(1)</sup> | 90  | 560 | 1010 | 1300 | 1020 | 1570 | 810 | 2060 | 380         |
| 2500                 | 90  | 560 | 1010 | 1300 | 1020 | 1820 | 810 | 2310 | 435         |
| 3000                 | 90  | 560 | 1010 | 1300 | 1020 | 2120 | 810 | 2610 | 480         |
| 4000                 | 110 | 630 | 1060 | 1500 | 1070 | 2185 | 860 | 2715 | 680         |
| 5000                 | 110 | 630 | 1060 | 1500 | 1070 | 2805 | 860 | 3335 | 790         |
| 6000                 | 110 | 630 | 1060 | 1500 | 1070 | 3305 | 860 | 3835 | 890         |

### With manhole ø 500 mm

| Capacity (Litres)    | A   | B   | C    | ØD   | E1   | E2   | F    | G   | H    | J    | Weight (kg) |
|----------------------|-----|-----|------|------|------|------|------|-----|------|------|-------------|
| 2000B <sup>(1)</sup> | 90  | 560 | 1130 | 1300 | 1140 | 1320 | 1570 | 870 | 2060 | 1430 | 380         |
| 2500                 | 90  | 560 | 1130 | 1300 | 1140 | 1350 | 1820 | 870 | 2310 | 1530 | 435         |
| 3000                 | 90  | 560 | 1130 | 1300 | 1140 | 1350 | 2120 | 870 | 2610 | 1630 | 480         |
| 4000                 | 110 | 630 | 1230 | 1500 | 1270 | 1550 | 2185 | 920 | 2715 | 1805 | 680         |
| 5000                 | 110 | 630 | 1230 | 1500 | 1270 | 1875 | 2805 | 920 | 3335 | 2155 | 790         |
| 6000                 | 110 | 630 | 1230 | 1500 | 1270 | 2125 | 3305 | 920 | 3835 | 2485 | 890         |

<sup>(1)</sup>Note : H = High version ; B = Low version - Dimensions fournies en mm.

- AN1** Threaded tapping 40/49 for anode
- AN2** Threaded tapping 40/49 for 2nd anode with reduction (for tank > 4000 litres)
- BR** Burner / exchanger
- DA** Outlet/loop return (DN50 G ext. thread)
- EC** Hot water outlet (DN50 threaded up to 4 000L, DN80 flat flange for 5 000L and 6 000L)
- EF** Cold water inlet (DN50 threaded G)
- PI** Support feet
- PR** Threaded tappings 15/21 for Water shortage pressure detector (optional)
- SF** Gas fumes outlet
- SP** DN125 safety valve (DN32 for 120 and 140 kW)
- TE** Threaded tappings 15/21 for thermometer and thermostat
- TO** Manhole with an internal diameter of 400 or 500 mm (depending on the power of the gas equipment)
- VM** Threaded drainage outlet 50/60 (DN50 G ext. thread)

| Type of gas fitting (reference) | Calorific flow rate (kW) | Useful power (kW) | GAS FLOW RATE                         |  |                                | Ø Gas supply (DN) | Ø Gas fumes outlet (mm) SF | Ø condensates outlet (DN) | Weight (kg) | Ø manhole (mm) | Burner dimensions |     |     |     |
|---------------------------------|--------------------------|-------------------|---------------------------------------|--|--------------------------------|-------------------|----------------------------|---------------------------|-------------|----------------|-------------------|-----|-----|-----|
|                                 |                          |                   | G20 natural gas (lacq) 20 mbar (m³/h) | G25 natural gas (Groningue) 25 mbar (m³/h) | G31 propane gas 37 mbar (kg/h) |                   |                            |                           |             |                | S                 | T   | U   | V   |
| TRG 32 N/P                      | 34                       | 32                | 3.60                                  | 4.18                                       | 2.64                           | 15                | 153                        | 10                        | 82          | 400            | 215               | 305 | 660 | 300 |
| TRG 51 N/P                      | 54                       | 51                | 5.71                                  | 6.64                                       | 4.20                           | 20                | 153                        | 10                        | 91          | 400            | 215               | 305 | 660 | 300 |
| TRG 60 N/P                      | 63                       | 60                | 6.67                                  | 7.75                                       | 4.90                           | 20                | 153                        | 10                        | 96          | 400            | 215               | 305 | 660 | 300 |
| TRG 90 N/P                      | 95                       | 90                | 10.05                                 | 11.69                                      | 7.38                           | 20                | 153                        | 10                        | 110         | 400            | 215               | 305 | 660 | 300 |
| TRG 120 N/P                     | 135                      | 120               | 14.07                                 | 16.36                                      | 10.33                          | 20                | 200                        | 10                        | 195         | 500            | 240               | 480 | 860 | 390 |
| TRG 140 N/P                     | 155                      | 140               | 15.87                                 | 18.45                                      | 11.66                          | 20                | 200                        | 10                        | 195         | 500            | 240               | 480 | 860 | 390 |

Electrical supply = single phase 230 V - Consumption: 200 W from 32 to 90 kW, 500 W for 120 & 140 kW

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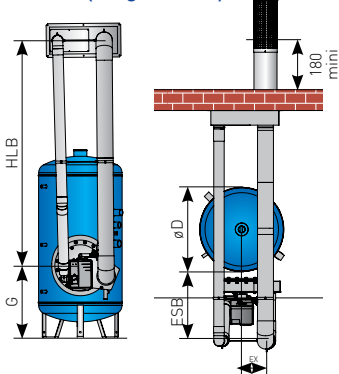
**RANGES - PERFORMANCES**

| Type                                      | Buffer volume (litres) | Drawn volume* over 1 hr (litres) | Drawn volume* over 2 hr (litres) | Continuous flow rate* At=30°C (L / mn) | Heating time At=30°C (mn) |
|---|------------------------|----------------------------------|----------------------------------|--|---------------------------|
| <b>Burner with 32 kW of useful power</b>  |                        |                                  |                                  |  |                           |
| H(E) 0750 S 32 N/P                        | 393 L                  | 1295 L                           | 2067 L                           | 14,3                                   | 36                        |
| H(E) 1000 H 32 N/P                        | 665 L                  | 1717 L                           | 2546 L                           | 14,6                                   | 53                        |
| H(E) 1000 B 32 N/P                        | 568 L                  | 1540 L                           | 2323 L                           | 14,4                                   | 52                        |
| H(E) 1500 H 32 N/P                        | 897 L                  | 2093 L                           | 2859 L                           | 14,6                                   | 74                        |
| H(E) 1500 B 32 N/P                        | 790 L                  | 1847 L                           | 2640 L                           | 14,5                                   | 73                        |
| H(E) 2000 H 32 N/P                        | 1306 L                 | 3046 L                           | 3424 L                           | 14,7                                   | 107                       |
| H(E) 2000 B 32 N/P                        | 1138 L                 | 2656 L                           | 3119 L                           | 14,6                                   | 106                       |
| H(E) 2500 S 32 N/P                        | 1466 L                 | 3421 L                           | 3608 L                           | 14,7                                   | 127                       |
| H(E) 3000 S 32 N/P                        | 1859 L                 | 4339 L                           | 4339 L                           | 14,8                                   | 153                       |
| <b>Burner with 51 kW of useful power</b>  |                        |                                  |                                  |  |                           |
| H(E) 0750 S 51 N/P                        | 393 L                  | 1726 L                           | 2939 L                           | 22,6                                   | 22                        |
| H(E) 1000 H 51 N/P                        | 665 L                  | 2192 L                           | 3497 L                           | 23,1                                   | 33                        |
| <b>Burner with 60 kW of useful power</b>  |                        |                                  |                                  |  |                           |
| H(E) 1000 B 60 N/P                        | 568 L                  | 2193 L                           | 3628 L                           | 26,8                                   | 28                        |
| H(E) 1500 H 60 N/P                        | 897 L                  | 2732 L                           | 4269 L                           | 27,3                                   | 39                        |
| H(E) 1500 B 60 N/P                        | 790 L                  | 2517 L                           | 3980 L                           | 27                                     | 39                        |
| H(E) 2000 H 60 N/P                        | 1306 L                 | 3303 L                           | 4865 L                           | 27,5                                   | 57                        |
| H(E) 2000 B 60 N/P                        | 1138 L                 | 3002 L                           | 4486 L                           | 27,2                                   | 56                        |
| H(E) 2500 S 60 N/P                        | 1466 L                 | 3491 L                           | 5027 L                           | 27,4                                   | 67                        |
| H(E) 3000 S 60 N/P                        | 1859 L                 | 4339 L                           | 5628 L                           | 27,6                                   | 81                        |
| <b>Burner with 90 kW of useful power</b>  |                        |                                  |                                  |  |                           |
| H(E) 2000 B 90 N/P                        | 1138 L                 | 3717 L                           | 5917 L                           | 40,6                                   | 37                        |
| H(E) 2500 S 90 N/P                        | 1466 L                 | 4237 L                           | 6519 L                           | 40,9                                   | 44                        |
| H(E) 3000 S 90 N/P                        | 1859 L                 | 4823 L                           | 7166 L                           | 41,2                                   | 54                        |
| <b>Burner with 120 kW of useful power</b> |                        |                                  |                                  |  |                           |
| H(E) 2000 B 120 N/P                       | 1020 L                 | 4199 L                           | 7037 L                           | 53,7                                   | 27                        |
| H(E) 2500 S 120 N/P                       | 1348 L                 | 4776 L                           | 7754 L                           | 54,2                                   | 33                        |
| H(E) 3000 S 120 N/P                       | 1741 L                 | 5401 L                           | 8480 L                           | 54,7                                   | 39                        |
| <b>Burner with 140 kW of useful power</b> |                        |                                  |                                  |  |                           |
| H(E) 2000 B 140 N/P                       | 1020 L                 | 4532 L                           | 7704 L                           | 60,3                                   | 24                        |
| H(E) 2500 S 140 N/P                       | 1348 L                 | 5131 L                           | 8465 L                           | 60,9                                   | 29                        |
| H(E) 3000 S 140 N/P                       | 1741 L                 | 5772 L                           | 9222 L                           | 61,4                                   | 35                        |

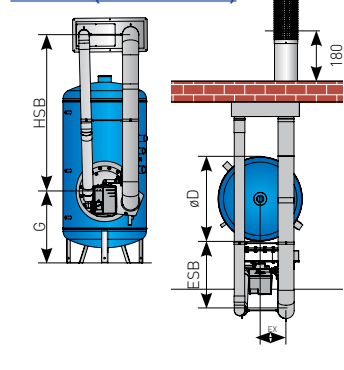
N = natural gas ; P = propane gas ; H = high ; B = low ; S = standard - \*Note : ΔT = 30°C - storage = 85°C - cold water = 15°C.

**STAINLESS STEEL SEALED FLUE SYSTEM**

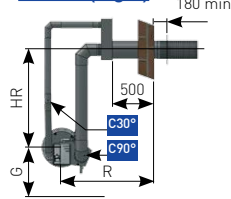
**KITLB32 (Long rearside)\*\***



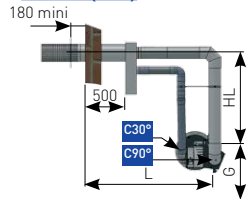
**KITSB32 (Short rearside)**



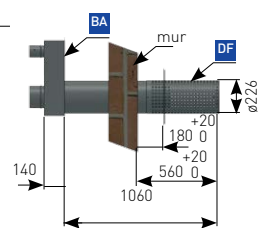
**KITR32 / KITR51  
KITR60 (Right)**



**KITL32 / KITL51  
KITL60 (Left)**



**Vacuum terminal**



| Burner power | 32 kW | 51 kW                           | 60 kW |
|--------------|-------|---------------------------------|-------|
| L            | 1370  | 1320                            | 1320  |
| HL           | 1250  | 1280                            | 1280  |
| R            | 1130  | 1180                            | 1180  |
| HR           | 1250  | 1280                            | 1280  |
| HSB          | 1500  |                                 |       |
| HLB          | 2175  | Dimension «C»: see tank diagram |       |
| ESB          | 650   |                                 |       |
| EX           | 248   |                                 |       |

- BA Interchangeable air vent valve
- C30° 30° elbow

- C90° 90° elbow
- DF Deflector

\*\*KITLB32 only for tank with capacities : 750L, 1 000L (low version), 1 500L (high version) and 2 000L (low version).

**AVAILABLE MODELS AND PRICES**

| Cap. (litres)        | Ref. 32 kW <sup>(1)</sup> | Ref. 51 kW <sup>(1)</sup> | Ref. 60 kW | Ref. 90 kW | Ref. 120 kW | Ref. 140 kW |
|----------------------|---------------------------|---------------------------|------------|------------|-------------|-------------|
| 750                  | INH075S32i                | INH075S51i                |            |            |             |             |
| 1000H <sup>(2)</sup> | INH100H32i                | INH100H51i                |            |            |             |             |
| 1000B <sup>(2)</sup> | INH100B32i                | INH100B51i                | INH100B60i |            |             |             |
| 1500H <sup>(2)</sup> | INH150H32i                | INH150H51i                | INH150H60i |            |             |             |
| 1500B <sup>(2)</sup> | INH150B32i                | INH150B51i                | INH150B60i |            |             |             |
| 2000H <sup>(2)</sup> | INH200H32i                | INH200H51i                | INH200H60i |            |             |             |
| 2000B <sup>(2)</sup> | INH200B32i                | INH200B51i                | INH200B60i | INH200B90i | INH200B120i | INH200B140i |
| 2500                 | INH250S32i                | INH250S51i                | INH250S60i | INH250S90i | INH250S120i | INH250S140i |
| 3000                 | INH300S32i                | INH300S51i                | INH300S60i | INH300S90i | INH300S120i | INH300S140i |
| 4000                 |                           |                           | INH400S60i | INH400S90i | INH400S120i | INH400S140i |
| 5000                 |                           |                           | INH500S60i | INH500S90i | INH500S120i | INH500S140i |
| 6000                 |                           |                           | INH600S60i | INH600S90i | INH600S120i | INH600S140i |

<sup>(1)</sup>Version can house a stainless steel sealed flue system (optional). <sup>(2)</sup>H = High version ; B = Low version. \*\*\*NS = On request.

**OPTIONS**

| Reference | Description  |
|-----------|--|
| MES1      | Commissioning of burners, from 32 to 90 kW   |
| MES2      | Commissioning of burners, 120 and 140 kW   |
| KA7       | Accessories kit<br>- Brass dial thermometer 0/120 C deg<br>- DN50 drainage valve<br>- Water shortage pressure detector |
| CCT       | Thermal shock box, anti-legionella box   |

| Reference                                  | Description   |
|--|---|
| KIT L32<br>KIT R32<br>KIT SB32<br>KIT LB32 | Stainless steel sealed flue system for 32 kW burner               |
| KIT L51<br>KIT R51                         | Stainless steel sealed flue system for 51 kW burner               |
| KIT L60C<br>KIT R60C                       | Stainless steel sealed flue system for 60 kW burner (CUENOD mark) |