

# DHW PRODUCTION SYSTEMS WITH GAS HYDROGAZ®

"PREFERENCE" RANGE - FROM 750 TO 6 000L



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



Gas equipment



"RC" internal coating (WRAS approved material)



Inspection manhole

## DESCRIPTION

### Tank

- Vertical carbon steel tank with 3 feet.
- Capacity from 750 à 6 000L.
- 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.

### Internal coating (WRAS approved material)

- Finished with "RC851" coating (Maximum temp = 85°C constant).
- Magnesium protection anode(s) with wear indicator.

**External protection:** Anti-rust paint.

**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.

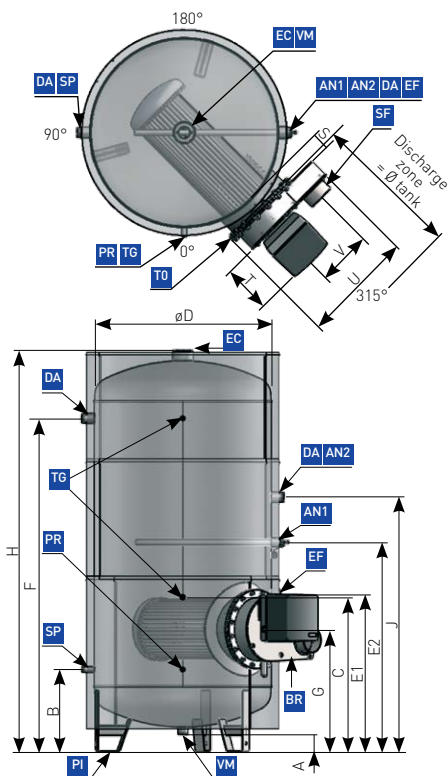
### Options

- Accessories kit (thermometer, DN50 valve for drainage, Water shortage pressure detector).
- Thermal shock box (anti-legionella): thermostat + clock.
- Stainless steel sealed flue system.
- "RC951" finish (T-max = 95°C peak).
- 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	E2	F	G	H	J	Weight (kg)
<b>750</b>	90	440	890	<b>800</b>	900	1080	1450	690	<b>1820</b>	1200	155
<b>1000H<sup>(1)</sup></b>	90	440	890	<b>800</b>	900	1230	2000	690	<b>2370</b>	1510	175
<b>1000B<sup>(1)</sup></b>	90	475	925	<b>950</b>	935	1110	1485	725	<b>1890</b>	1235	172
<b>1500H<sup>(1)</sup></b>	90	475	925	<b>950</b>	935	1150	2035	725	<b>2440</b>	1545	215
<b>1500B<sup>(1)</sup></b>	90	510	960	<b>1100</b>	970	1145	1520	760	<b>1960</b>	1270	268
<b>2000H<sup>(1)</sup></b>	90	510	960	<b>1100</b>	970	1300	2070	760	<b>2510</b>	1580	349
<b>2000B<sup>(1)</sup></b>	90	560	1010	<b>1300</b>	1020	1200	1570	810	<b>2060</b>	1320	380
<b>2500</b>	90	560	1010	<b>1300</b>	1020	1250	1820	810	<b>2310</b>	1430	435
<b>3000</b>	90	560	1010	<b>1300</b>	1020	1350	2120	810	<b>2610</b>	1630	480
<b>4000</b>	110	630	1060	<b>1500</b>	1070	1550	2185	860	<b>2715</b>	1805	680
<b>5000</b>	110	630	1060	<b>1500</b>	1070	1875	2805	860	<b>3335</b>	2155	790
<b>6000</b>	110	630	1060	<b>1500</b>	1070	2125	3305	860	<b>3835</b>	2485	890

### With manhole ø 500 mm

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

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

- AN1** Threaded tapping 40/49 for anode
- AN2** Threaded tapping 40/49 for 2nd anode with reduction (for tank > 4000L)
- 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** Tapping for Water shortage pressure detector (optional) (DN15 G int. thread)
- SF** Gas fumes outlet
- SP** DN125 safety valve (DN32 for 120 and 140 kW)
- TG** Tappings for thermometer and thermostat (DN15 G int. thread)
- TO** Manhole with an internal diameter of 400 or 500 mm (depending on the power of the gas equipment)
- VM** Drainage (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 (m³/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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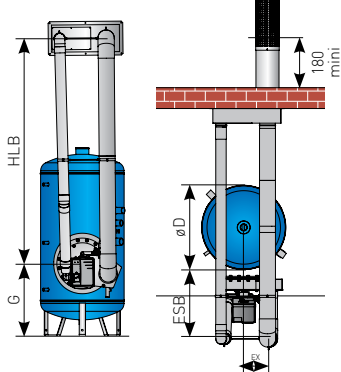
**RANGES - PERFORMANCES**

Type	Buffer volume (litres)	Drawn volume* over 1 hr (litres)	Drawn volume* over 2 hr (litres)	Continuous flow rate* $\Delta t=30^{\circ}\text{C}$ (L / mn)	Heating time $\Delta t=30^{\circ}\text{C}$ (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

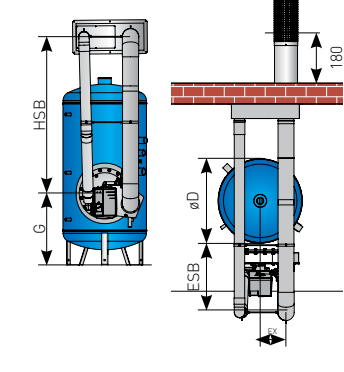
N = natural gas ; P = propane gas ; H = high ; B = low ; S = standard - \*Note :  $\Delta T = 30^{\circ}\text{C}$  - storage =  $85^{\circ}\text{C}$  - cold water =  $15^{\circ}\text{C}$ .

**STAINLESS STEEL SEALED FLUE SYSTEM**

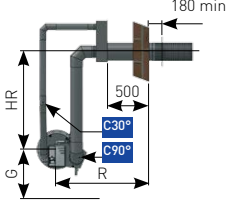
**KITLB32 (Long rearside)\*\***



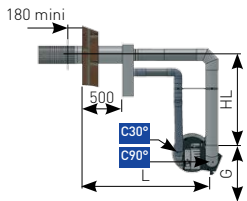
**KITSB32 (Short rearside)**



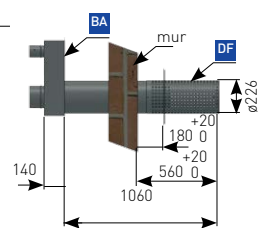
**KITR32 / KITR51  
KITR60 (Right)**



**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	PRH075S32i	PRH075S51i				
1000H <sup>(2)</sup>	PRH100H32i	PRH100H51i				
1000B <sup>(2)</sup>	PRH100B32i	PRH100B51i	PRH100B60i			
1500H <sup>(2)</sup>	PRH150H32i	PRH150H51i	PRH150H60i			
1500B <sup>(2)</sup>	PRH150B32i	PRH150B51i	PRH150B60i			
2000H <sup>(2)</sup>	PRH200H32i	PRH200H51i	PRH200H60i			
2000B <sup>(2)</sup>	PRH200B32i	PRH200B51i	PRH200B60i	PRH200B90i	PRH200B120i	PRH200B140i
2500	PRH250S32i	PRH250S51i	PRH250S60i	PRH250S90i	PRH250S120i	PRH250S140i
3000	PRH300S32i	PRH300S51i	PRH300S60i	PRH300S90i	PRH300S120i	PRH300S140i
4000			PRH400S60i	PRH400S90i	PRH400S120i	PRH400S140i
5000			PRH500S60i	PRH500S90i	PRH500S120i	PRH500S140i
6000			PRH600S60i	PRH600S90i	PRH600S120i	PRH600S140i

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

**OPTIONS**

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

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