

DHW PRODUCTION SYSTEMS WITH GAS SOLAR HYDROGAZ®

"PREFERENCE" RANGE - FROM 1 000 À 3 000L



CE compliance
• 2014/68/EU
• 2014/35/EU
• CERTIGAZ



U-tube heater



Gas equipment



"RC" internal coating (WRAS approved material)



Solar DHW

DESCRIPTION

Tank

- Vertical carbon steel tank with 3 feet.
- Capacity from 1 000 à 3 000 litres.
- Maximum working pressure = 7 bar - Test pressure = 10 bar.
- Tappings (in accordance with the following diagram).
- Specific tapping for the solar regulation sensor.
- Ø 400 mm inspection manholes⁽¹⁾ (Ø 500 mm for 120 & 140 kW).

⁽¹⁾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) or "RC951" coating (T-max = 95°C at peak times).
- 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 - 100 mm thick ($\lambda = 0,034W/m/K$ - 40 kg/m³).
- Isoxal metal sheet jacket.

GAS EQUIPMENT fixé sur le trou d'homme Ø 400 mm (Ø 500 mm pour 120 & 140 kW)

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

Solar U-tube heater

- Removable U-tube heater with bundle made of 316 L stainless steel, fixed onto the inspection manhole.
- Inlet/outlet DN32F or DN50F + DN8F purge.
- Class B heater, compliant with article 16.9 of the French General Directorate for Health.

Specific tapping for the solar regulation sensor

Options

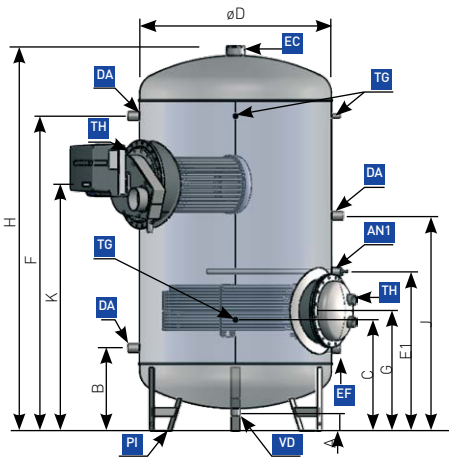
- Solar module with maximum WP of 6 bar (circulator, safety valve, manometer, thermometers, non-return valve, flow rate meter, degasser, valves, thermal insulation).
- Electric backup (immersion heater on the top section + double safety thermostat).
- Accessories kit (thermometer, DN50 drainage valve, Water shortage pressure detector).
- Upon request : non-standard capacity, dimensions, working pressure and tappings implantation.
- Homogenisation kit (circulator + non-return valve + 2 valves + tee fitting).

Warranties (in accordance with our general conditions of sale)

- Tank = 5 years. - Heater = 5 years. - Gas exchanger = 3 years.
- Other items = 1 year.

DIMENSIONS

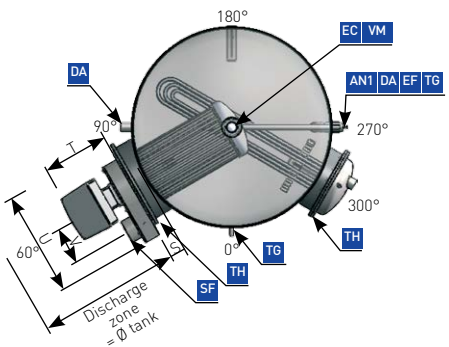
With manhole Ø 400 mm et Ø 500 mm



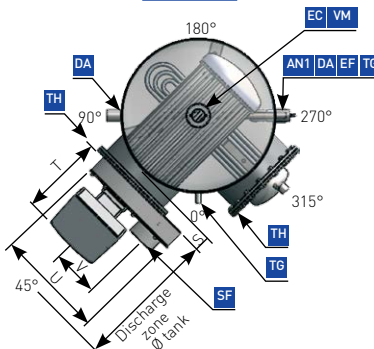
Ø 1100 and 1300 mm

Capacity (litres)	A (mm)	B (mm)	C (mm)	ØD (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	Weight (kg)
1000H ⁽¹⁾	90	440	630	800	955	2000	690	2370	1330	1540	320
1000B ⁽¹⁾	90	475	575	950	990	1485	725	1890	1100	1195	350
1500H ⁽¹⁾	90	475	665	950	990	2035	725	2440	1100	1575	380
1500B ⁽¹⁾	90	510	610	1100	1025	1520	760	1960	1160	1230	420
2000H ⁽¹⁾	90	510	700	1100	1025	2070	760	2510	1400	1610	480
2000B ⁽¹⁾	90	560	660	1300	1075	1570	810	2060	1220	1280	540
2500	90	560	700	1300	1075	1820	810	2310	1280	1460	560
3000	90	560	750	1300	1075	2120	810	2610	1450	1660	590

⁽¹⁾Note : H = High version ; B = Low version.



Ø 800 mm



- AN1 Threaded tapping
- DA Outlet/loop return (DN50 G ext. thread)
- EC Hot water outlet (DN50 threaded)
- EF Cold water inlet (DN50 threaded G)
- PI Support feet
- SF Gas fumes outlet
- TG Threaded tappings for thermometer and thermostat (DN15 G int. thread)
- TH Ø 400 mm manhole (or 500 mm depending on the power of the gas equipment)
- VD Threaded drainage outlet (DN50 G ext. thread)

TECHNICAL SPECIFICATIONS

GAS EQUIPMENT

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)	Diameter of the manhole (mm)	Burner dimensions			
			G20 natural gas (Lacq) 20 mbar (m³/h)	G20 natural gas (Groningen) 25 mbar (m³/h)	G31 propane gas 37 mbar (kg/hr)						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	400
TRG 120 N/P	135	120	14.07	16.36	10.33	20	200	10	195	500	240	480	860	400
TRG 140 N/P	155	140	15.87	18.45	11.66	20	200	10	195	500	240	480	860	400

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

Solar heater

Primary system (glycol water 30%) 80/65°C - Secondary system 10/60°C

Capacity (litres)	Back-up heater		Flow rate (m³/h)	Head loss (mWC)	Surface area (m²)
	Power (kW)	Tapping I/O			
1000H⁽¹⁾	30	DN32	2	0,15	1,8
1000B⁽¹⁾	30	DN32	2	0,15	1,8
1500H⁽¹⁾	40	DN65	2,7	0,3	3,3
1500B⁽¹⁾	40	DN32	2,7	0,15	2,45
2000H⁽¹⁾	60	DN32	4	0,7	3
2000B⁽¹⁾	60	DN65	4	0,15	5,1
2500	80	DN65	5,2	0,3	5,1
3000	80	DN65	5,2	0,3	5,1

⁽¹⁾Note : H = High version ; B = Low version.

AVAILABLE MODELS AND PRICES

85°C tank - Solar heater

Primary system (glycol water 30%) 80/65°C - Secondary system 10/60°C

Heater / gas power	Reference 30 / 32 kW	Reference 40 / 51 kW	Reference 40 / 60 kW	Reference 60 / 60 kW
1000H⁽¹⁾	PLH100H3032i			
1500B⁽¹⁾		PLH150B4051i	PLH150B4060i	
2000B⁽¹⁾				PLH200B6060i

Heater / gas power	Reference 80 / 90 kW	Reference 80 / 120 kW	Reference 80 / 140 kW
2500	PLH250S8090i	PLH250S80120i	
3000		PLH300S80120i	PLH300S80140i

95°C tank - Solar heater

Primary system (glycol water 30%) 80/65°C - Secondary system 10/60°C

Heater / gas power	Reference 30 / 32 kW	Reference 40 / 51 kW	Reference 40 / 60 kW	Reference 60 / 60 kW
1000H⁽¹⁾	PSH100H3032i			
1500B⁽¹⁾		PSH150B4051i	PSH150B4060i	
2000B⁽¹⁾				PSH200B6060i

Heater / gas power	Reference 80 / 90 kW	Reference 80 / 120 kW	Reference 80 / 140 kW
2500	PSH250S8090i	PSH250S80120i	
3000		PSH300S80120i	PSH300S80140i

⁽¹⁾Note : H = High version ; B = Low version.

OPTIONS

Reference	Description
KA7	Accessories kit - Dial thermometer 0/120°C - DN50 drainage valve - Water shortage pressure detector.
KH1	Homogenisation kit - circulator - non-return valve - 2 valves - T junction

Integrated loop heater (ILH kits for DHW cylinders)

- Additional immersion heater located in the top section of the tank (230/400 V tri-phase)
- Double unipolar safety thermostat.

Reference	Immersion heater power (kW)	Minimum diameter of tank (mm)
RBI3	3	550
RBI4	4,5	550
RBI6	6	550
RBI9	9	650
RBI12	12	800

Note : Integrated loop heater is not pre-assembled on tank.

