

DHW PRODUCTION SYSTEMS WITH GAS SOLAR HYDROGAZ®

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



CE compliance
• 2014/68/UE
• 2014/35/UE
• 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 : In accordance 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 ($\lambda = 0,034W/m/K - 40 \text{ kg/m}^3$).
- 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, mounted on the inspection manhole.
- Inlet/outlet DN32F or DN50F + DN8F purge.
- Class B heater, in accordance with article 16.9 of the French General Directorate for Health.

Specific tapping for the solar regulation sensor

Options

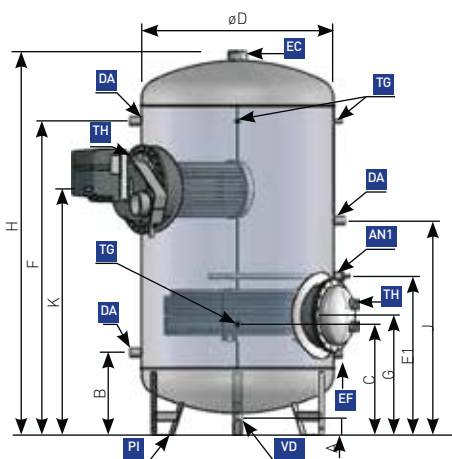
- Solar module with maximum WP of 6 bar (circulator, safety valve, manometer, thermometers, non-return valve, flow rate meter, degasser, valves, thermal insulation).
- Electric backup (immersion heater on the top section + double safety thermostat).
- Accessories kit (thermometer, DN50 drainage valve, 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).

Warranty (in accordance with our general conditions of sale)

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

DIMENSIONS

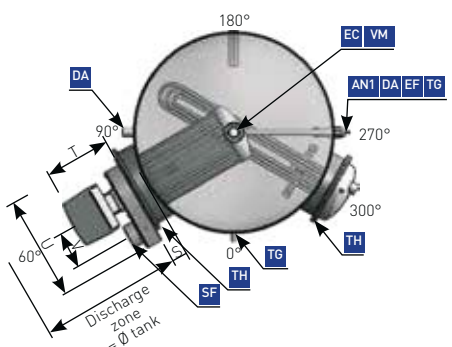
With manhole Ø 400 mm et Ø 500 mm



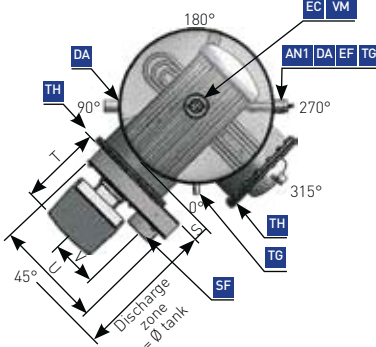
Capacity (litres)	A (mm)	B (mm)	C (mm)	ØD (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	Weight (kg)
1 000H ⁽¹⁾	90	440	630	800	955	2 000	690	2 370	1 330	1 540	320
1 000B ⁽¹⁾	90	475	575	950	990	1 485	725	1 890	1 100	1 195	350
1 500H ⁽¹⁾	90	475	665	950	990	2 035	725	2 440	1 100	1 575	380
1 500B ⁽¹⁾	90	510	610	1 100	1 025	1 520	760	1 960	1 160	1 230	420
2 000H ⁽¹⁾	90	510	700	1 100	1 025	2 070	760	2 510	1 400	1 610	480
2 000B ⁽¹⁾	90	560	660	1 300	1 075	1 570	810	2 060	1 220	1 280	540
2 500	90	560	700	1 300	1 075	1 820	810	2 310	1 280	1 460	560
3 000	90	560	750	1 300	1 075	2 120	810	2 610	1 450	1 660	590

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

Ø 1100 and 1300 mm



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

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	Reference 70 / 90 kW
Capacity (litres)					
1000H ⁽¹⁾	PLH100H3032i				
1500B ⁽¹⁾		PLH150B4051i	PLH150B4060i		
2000B ⁽¹⁾				PLH200B6060i	PLH200B7090i

Heater / gas power	Reference 80 / 90 kW	Reference 80 / 120 kW	Reference 80 / 140 kW
Capacity (litres)			
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	Reference 70 / 90 kW
Capacity (litres)					
1000H ⁽¹⁾	PSH100H3032i				
1500B ⁽¹⁾		PSH150B4051i	PSH150B4060i		
2000B ⁽¹⁾				PSH200B6060i	PSH200B7090i

Heater / gas power	Reference 80 / 90 kW	Reference 80 / 120 kW	Reference 80 / 140 kW
Capacity (litres)			
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.

