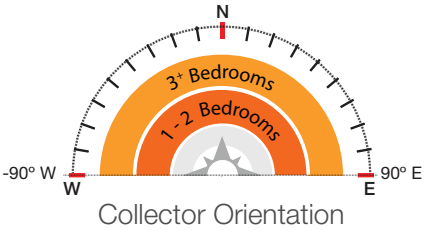
Solar Hot Water Specification

Split**Line** System with 300L Tank, Dual Flat Plate Collectors with Gas Boost

This split configured solar hot water system consists of a 300 litre ground mounted tank and dual flat plate roof mounted collectors, and has been designed to provide energy efficient water heating and installation flexibility, without compromising the aesthetics of the home.

Providing reliable hot water in any weather, this system is complimented with a 20lpm or 26lpm gas auxiliary boost to supplement the heating required on days of high consumption and/or low solar gain.



Collector Orientation Allowance

How Chromagen's SplitLine Solar Hot Water Works:

1. Roof-mounted thermal collectors harness the free abundant heat energy from the sun
2. Water from the tank is circulated via a small pump through the roof-mounted collectors and is heated
3. The heated water returns to the tank and is stored for later use
4. On days of high consumption and/or low solar gain the gas continuous flow booster assists in reaching the desired water temperature

System Specification

Flat Plate Collector:

This system includes dual collectors that consist of a black paint coating, providing excellent thermal absorption properties for great efficiency.

Specifications

No. of Panels	2 Panel
Total Width x Height x Depth (mm)	2050 x 2000 x 80
Total Gross Area (m²)	4
Aperture Area / Absorber Area (m²)	3.7
Cover Thickness (mm)	3.2
Collector Weight empty (kg)	70
Maximum Pressure (kPa)	1200
Manifold / Riser Diameter (mm)	22 / 10
Heat Transfer medium	Water / Glycol
Fluid content (litres)	3.32

Flat Roof Stand (Optional Extra):

For flat or low pitched roofs, collector can be mounted with an optional stand to ensure they are angled for the best solar gain.

Specifications

Model / Type	2 x Flat Plate Collector
Dimensions (H x W x D) (mm)	1125 x 1800 x 2050
Recommended Leg Spacing	1500

* Height shown as maximum. Stand is adjustable

Mech. Frost Valve (Optional)

Frost Protection

Chromagen pumped systems can employ two control methods against frost, this includes:

1. Automatic Temperature Regulation (Standard inclusion): Activated by the solar controller, the pump circulates water through the collectors to reduce the likelihood of water freezing in the panels.
2. Mechanical Frost Valve (Optional Extra): Designed to open at a low temperature to allow water flow through the solar collectors to prevent the formation of ice inside the collector and pipe work.

Storage Tanks

The thermal storage tanks are specifically designed for the efficient storage of solar-heated water. Decades of design evolution is evident in the state-of-the art engineering, rugged construction and carefully selected materials that provide the ultimate in thermal insulation.

Specifications

Tank Orientation	Vertical
Storage Size	Large
Storage capacity (L)	300
Diameter (mm)	570
Height (mm)	1835
Cold water inlet *(mm from base)*	245
Hot outlet *(mm from base)*	1585
Collector cold flow *(mm from base)*	245
Collector return *(mm from base)*	665
Open loop dry weight (kg)	85

Auxiliary Gas Boosting

When there's not enough solar to get the job done, an Eternity gas boost will supplement the heating required to ensure you are never without hot water. Featuring a high 6+ Star energy rating, these units are highly efficient, heating water on demand.

Specifications

Eternity Model	M20	M26
Energy Star Rating	6.5	6.3
Thermal Efficiency (%)	84.1	84.0
Flue System	Forced Flued External	
Rating (l/min @ 25°C rise)	20	26
Nominal Gas Consumption (MJ/h)	160	200
Weight (kg)	16	21.5
Height x Width x Depth (mm)	595 x 375 x 165	645 x 413 x 195
Water connection diameter (mm)	15 BSP	
Gas connection diameter (mm)	20 BSP	
Water Pressure Min / Max (kPa)	150 / 1000	
Water Pressure Optimal (kPa)	350	
Min operating flow rate (l/min)	2.5 (min 3.0 for start up)	
Anti-frost	Standard	
Pwr Supply Mains Voltage (AC)	240V / 50Hz	
Pwr Supply Controller Voltage (DC)	12	
Ignition	Electronic	
Gas Types	Natural Gas / LPG (Propane)	

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