

# AQUAMODULE AMB Instantaneous DHW Generator

Standard Duties Available - 100 to 375 kW

## AquaModule AMB

The AMB is an instantaneous or semi-instantaneous domestic hot water system built around a high-performance brazed plate heat exchanger.

This pre-assembled and compact module, incorporates control, safety and regulation devices selected for their reliability and precision.

Delivered with default presets, it can however, be reprogrammed by the user or commissioned by our after sales team who will configure the parameters to suit the operating conditions and required duty, within the output capability of the particular model.

The control panel in its standard version allows temperature, as well as pump sensors faults, to be reported. The AMB conforms to the European directive, in particular with the construction norm PED 97/23 CE art 3,3 and the electric norm 73/23 CE.

## Key Benefits

- Very competitively priced
- Sealed heat exchanger without gaskets: no maintenance or risk of leakage
- Compact footprint when compared to other manufacturers
- Single head or twin head primary pumps factory fitted and electrically wired
- Low energy class A Magna variable speed pump on primary
- WRAS approved components
- Fast response (15 second) Motorised 3-way Valve on primary
- Control panel c/w Volt Free Contacts for BMS monitoring
- EPP 30mm thick insulation jacket included as standard
- Single head secondary transfer pump for 'semi-instantaneous' operation when supplied with a HRS Buffer Vessel - AquaSTOR

## Controller Functions

- ECO Function allows for reduced temperature during low demand periods
- BOOSTER Function runs both primary pumps simultaneously during high demand
- Anti-Legionella sterilizing program which can be programmed for any day and time.
- Additional temperature sensor inputs for DHW buffer vessel temperature monitoring etc.
- Remote standby function
- Network capable controller (ModBus)



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## Principle of Operation

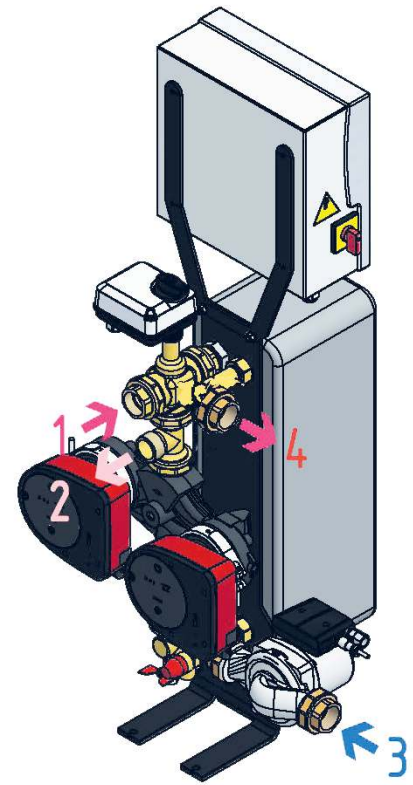
In the tap water system, energy is exchanged through a heat exchanger from the primary to the DHW side.

On the primary side, the AMB has to be fed by a heating source that can be provided for example by a local boiler, a primary tank or a solar system.

The temperature of the water entering the heat exchanger on the primary side is adapted to meet the demand detected on the domestic side.

The mixing valve eliminates thermal shock in the heat exchanger and reduces the potential build-up of lime-scale inside the heat exchanger.

On the secondary (DHW) side, the AMB is connected to the main water circuit and provides domestic hot water to the distribution pipe-work when there is demand.



1 - Primary Flow      3 - Cold Feed  
2 - Primary Return    4 - DHW Flow

## Available Models and Technical Information

Unit Type	Pump Type	Pri Flow Rate (L/sec)	Pri Free Press (kPa)	Primary 82°C kW	Secondary 10-60°C		Primary 70°C kW	Secondary 10-60°C		230V 50Hz FLA (Amp)	Dimensions (approx.) L x W x H mm	Weight (Kg)
					Flow Rate (L/sec)	Press Drop (kPa)		Flow Rate (L/sec)	Press Drop (kPa)			
AMB15	S	0.67	5	150	0.72	49	105	0.50	25	3	430x340x1180	41
	D					n/a			19		440x400x1180	51
	SS					n/a			n/a		450x430x1180	47
	DS					n/a			n/a		460x480x1180	55
AMB24	S	1.03	5	245	1.17	33	180	0.86	19	3	430x340x1180	43
	D					n/a			n/a		440x400x1180	53
	SS					n/a			n/a		450x430x1180	49
	DS					n/a			n/a		460x480x1180	59
AMB37	S	1.59	5	375	1.79	50	270	1.29	27	3	430x340x1180	45
	D			n/a		n/a			440x400x1180		55	
	SS			n/a		n/a			450x430x1180		50	
	DS			n/a		n/a			460x480x1180		60	

**Pump Type:** S - Single Primary      SS - Single Primary / Single Secondary  
D - Double Primary      DS - Double Primary / Single Secondary

### Connection Details

Pump Configuration S & D		Pump Configuration SS & DS		
Primary Flow/Return	Secondary Flow/Return	Primary Flow/Return	Secondary Flow	Sec. Pump Inlet
DN32 M	DN32 M	DN32 M	DN32 M	DN32 F
DN32 F	DN32 M	DN32 F	DN32 M	DN32 F

### Operation Limits

	Primary	Secondary
Max Press (BarG)	10	10
Max Temp (°C)	110	100