



# AquaTech Pressmain

**PLATE HEAT EXCHANGERS**



## **AQUAPLATE 'A' SERIES**

### FEATURES:

- Incorporates high grade stainless steel AISI 316 heat transfer plates for extended life
- Gaskets are standard in EPDM
- Anti Legionella function
- Economic to run as water is heated instantaneously
- Light weight
- Compact modern design
- Four port valve with built-in by-pass to simplify design
- Low maintenance
- Easy installation
- High quality manufacture

## AQUAPLATE 'A' Series Plate Heat Exchanger Specifications

### GENERAL

The A series provides a compact and efficient means of generating hot water, without the need for storage. It can be used for various applications including factories, residential housing, hospitals, hotels and schools, where there is a constant demand for set temperature hot water. This can also be used in conjunction with combined heating and power systems

### SPECIFICATION

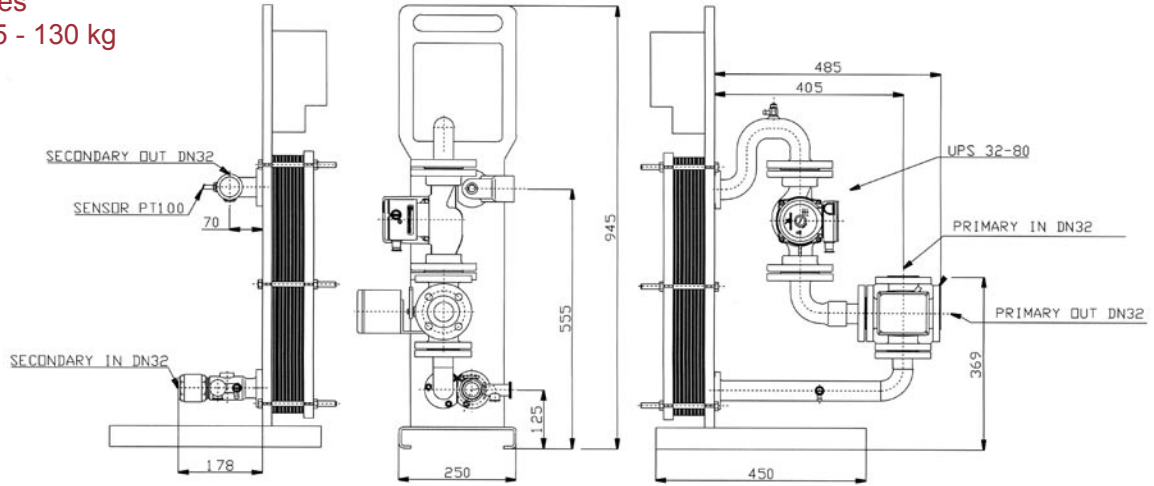
Each model type within each range is rated for a maximum specific duty. However, by the addition of extra heat transfer plates the duty can be increased to the maximum for that particular model range. The plate heat exchanger is mounted on a steel base plate together with a primary pump, 4 port motorised control valve and an electric controls enclosure. The controls enclosure is fitted with a P.I.D. temperature controller and mains switch. BMS volt free contacts are available. A combined adjustable thermal overload/short circuit protection and high temperature contact within the motor body is provided for complete pump protection.

### SELECTION CRITERIA

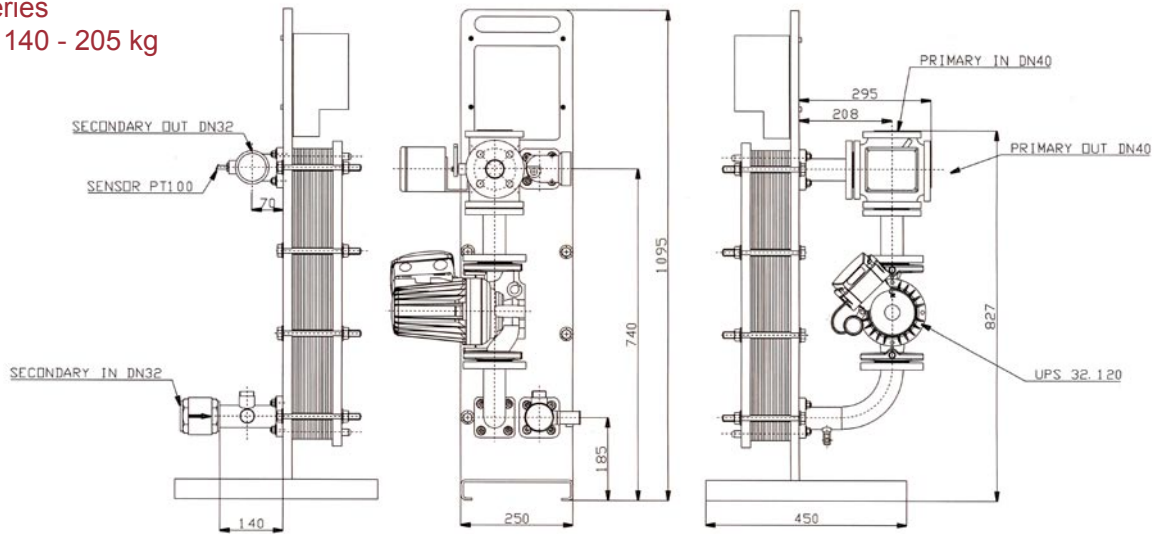
Follow the flow rate "secondary flow" to the nearest value, read to the appropriate primary flow column and choose the unit required, e.g. 1.25 l/sec or 261 kW and 82°C primary. The required unit is a J317.

Type	Number of Plates	Primary		Secondary		
		82°C Flow (l/sec)	Heat Load (kW)	Flow (l/sec)	ΔP (kpa)	Single Pump Free Pressure (kpa)
B107	7	0.69	51	0.24	8	34
B109	9	0.86	71	0.34	9	26
B113	13	1.08	98	0.47	8	56
B119	19	1.36	155	0.75	10	45
B131	31	1.61	210	1	8	39
J317	17	2.58	285	1.36	22	16
J321	21	2.75	349	1.67	23	11
J325	25	3.06	407	1.94	22	6
J329	29	3.17	442	2.14	21	4
J343	43	3.22	516	2.5	15	4
J533	33	4.36	574	2.78	28	32
J539	39	4.61	632	3.06	26	30
J543	43	4.86	690	3.33	28	19
J551	51	5.06	750	3.61	26	10
S239	39	5.47	832	4	16	34
S247	47	5.81	942	4.53	15	25
S261	61	6.56	1130	5.44	14	6

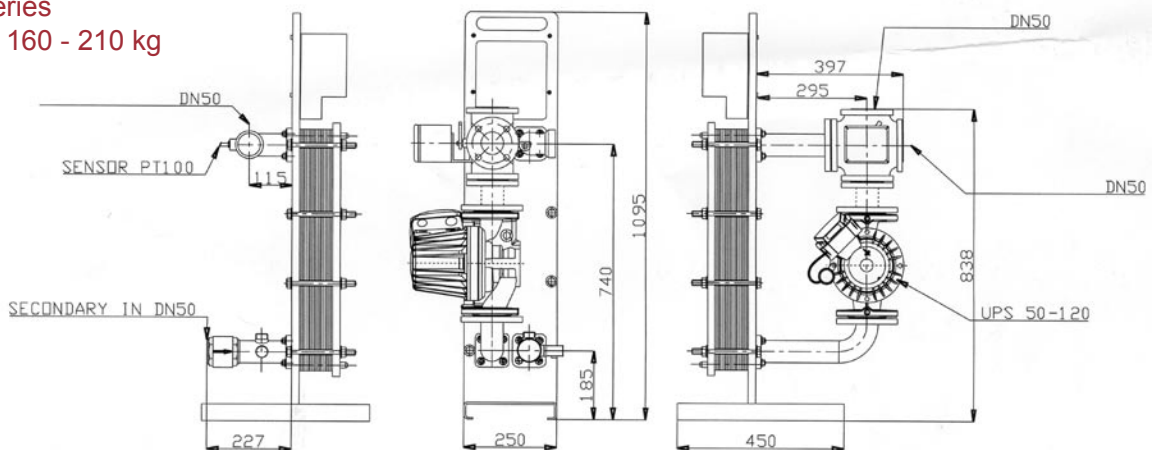
**B100 Series**  
**Weight: 85 - 130 kg**



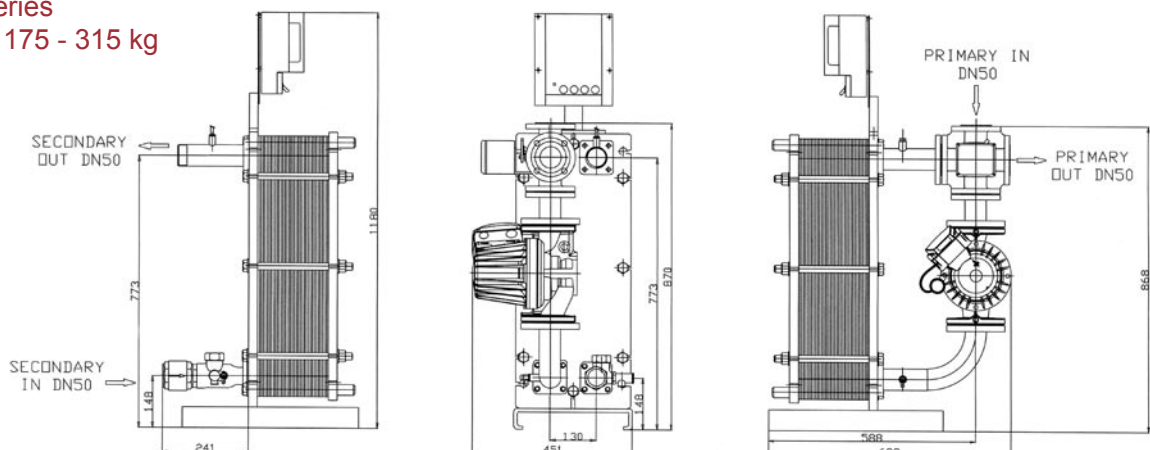
**J300 Series**  
**Weight: 140 - 205 kg**



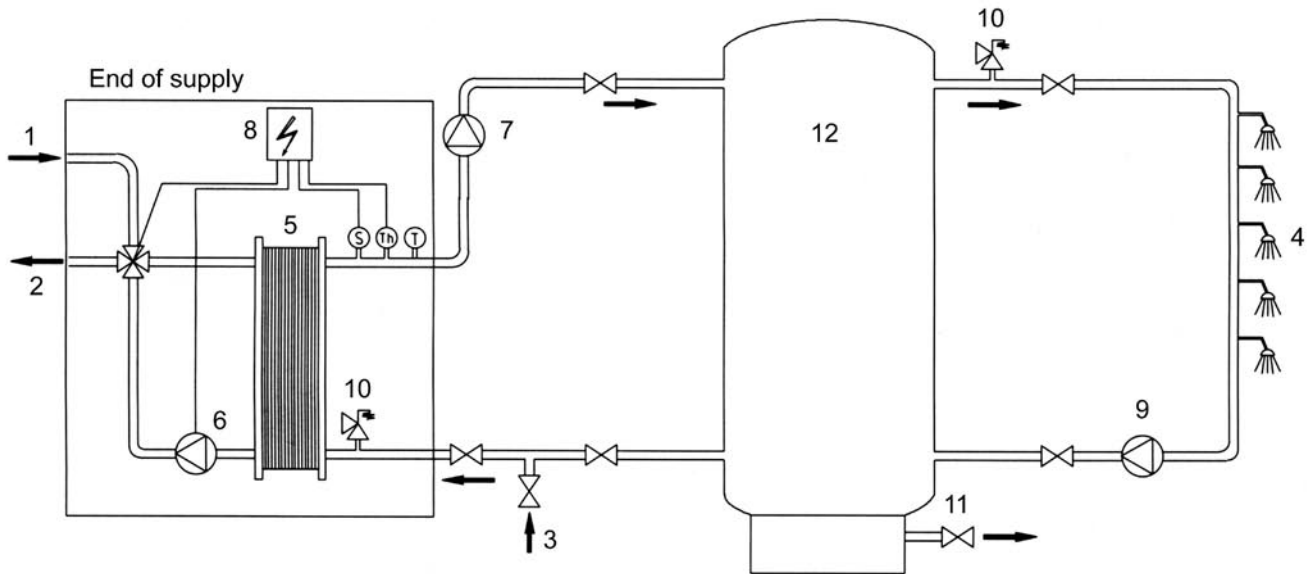
**J500 Series**  
**Weight: 160 - 210 kg**



**S200 Series**  
**Weight: 175 - 315 kg**



## GENERAL SCHEMATIC LAYOUT



- |                         |                             |
|-------------------------|-----------------------------|
| 1. Primary input        | 7. Secondary pump, optional |
| 2. Primary output       | 8. Electric cabinet         |
| 3. Cold water input     | 9. Network pump             |
| 4. Hot water output     | 10. Safety valve            |
| 5. Plate Heat Exchanger | 11. Draining valve          |
| 6. Primary pump         | 12. Buffer vessel           |

CONSTRUCTION STANDARDS FOR AQUAPLATE 'A' SERIES			
ITEM	MODEL/SERIES	STANDARD/CLASS	REMARKS
Quality System	Manufacturing	ISO 9001:1994	
Wiring Standards		BSEN 60204 part 1	
Electro-magnetic Compatibility		European Directive 89/392/eec: 1994	CE marked
Gaskets	EPDM		
Transfer Plates	Stainless Steel	AISI 316	
Pumps	UP/UPS		
	Internals	304 Stainless, BS1449	
Pump Motors	T.E. Encapsulated	IP44, Class F Insulation	
	Motor Protection	IEE regulations	

The information in this specification is correct at time of issue; as AquaTech Pressmain design and development programmes are continuous, we reserve the right to make any changes to this specification without prior notice.

# AquaTech Pressmain

**Head office**  
AGM House, London Road, Copford, Colchester. CO6 1GT  
T: 01206 215121 F: 01206 215131

**Manchester Office**  
Dolphin House, 130 Princess Road, Manchester. M16 7BY  
T: 0161 226 4727 F: 0161 226 5848

E: [info@aquatechpressmain.co.uk](mailto:info@aquatechpressmain.co.uk)  
W: [www.aquatechpressmain.co.uk](http://www.aquatechpressmain.co.uk)

Leaders in the design, manufacture and assembly of packaged fluid pumping equipment and control systems.  
Applications: Cold Water Supply; Fire Fighting; Heating & Chilled System Pressurisation; Tank Level Monitoring.