



**GIAFLEX**

[www.alfalaval.si](http://www.alfalaval.si)

## Water comfort

A complete range of hot water solutions



The Aqua range of equipment for domestic hot water (DHW) applications combines the know-how of two technological fields: A well-established tradition of high-tech innovation and a profound system experience developed over many years and in many countries. It offers a complete range from component kits to plug-and-play systems.

AquaMicro	AquaFlow	AquaStore
		
<p><b>Capacity: up to 58 kW</b></p>	<p><b>Capacities: from 27 up to 1220 kW</b></p>	<p><b>Capacities: from 27 up to 1220 kW</b></p>
<p>AquaMicro is a complete, ready to install district heating substation for domestic hot water. It is suitable for flats with a primary or secondary connection to a district heating network. AquaMicro is simple to operate and has a carefully planned function. All components are readily accessible for maintenance and future servicing needs. AquaMicro offers fully automatic temperature control for hot water. The hot water is heated instantaneously when a tap is opened, ensuring that the hot water is always as fresh as the incoming cold water.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• Excellent tap water comfort</li> <li>• Easy installation</li> <li>• Long-term reliability</li> <li>• Easy to operate</li> </ul> <p><b>Applications</b></p> <ul style="list-style-type: none"> <li>• Domestic hot water for single-family apartments or houses</li> </ul>	<p>Connected to the hot water distribution pipework, AquaFlow provides instantaneous and controllable domestic hot water where and when it is required. The primary side (heating fluid) operates at constant flow and variable temperatures. The piping arrangement of the control valve provides close control of the primary temperature at the exchanger inlet. The operating principle eliminates thermal shock in the exchanger and limits limescale build up in the tap water side. Three type of Heat Exchanger are offered. AlfaNova is unique to Alfa Laval. Being a plate heat exchanger made of 100% stainless steel it provides high heat transfer capacity, resistance to corrosion and maximum cleanliness. Moreover, being 100% copper-free, it's suitable for all DHW pipeworks. Where the use of copper is not at stake, we offer a copper-brazed heat exchanger version which provides optimum comfort. Increased turbulence reduces the risk of fouling and improve heat transfer. These two heat exchangers can easily be cleaned with a chemical solution thanks to specific connections on the heat exchanger. Another heat exchanger is offered with plates and EPDM clip-on gaskets. It is thus adaptable to needs and is easily cleaned. Maximum operating pressure is 10 barg and maximum operating temperature is 110°C. The primary side is connected to a heating source (boiler, district heating, ...), the secondary side to DHW pipework.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• 3 different types of HE available</li> <li>• Easy and quick installation</li> <li>• Temperature controller and monitoring system easy to set up</li> <li>• Many useful functions available in the PID controller</li> <li>• Eliminates thermal shocks</li> <li>• Limits limescale build-up</li> <li>• An Alfa Laval exclusive: Scaling control</li> <li>• Fully assembled, electrically wired, pressure tested and calibrated at the factory prior to dispatch.</li> <li>• Built in compliance with CE 73/23 electrical and PED CE 97/23 art.3.3.</li> </ul> <p><b>Applications</b></p> <p>Domestic hot water for:</p> <ul style="list-style-type: none"> <li>• Apartment blocks</li> <li>• Hospitals</li> <li>• Retirement homes</li> <li>• Hotels</li> <li>• Schools</li> <li>• Sport centres</li> <li>• Suitable for installations with relative even DHW consumption</li> </ul>	<p>AquaStore is the semi-instantaneous counterpart of AquaFlow. Connected to a buffer vessel, it provides semi-instantaneous and controllable domestic hot water where and when it is required. The AquaStore range also offers three different heat exchanger technologies. AlfaNova is unique to Alfa Laval. Being a plate heat exchanger made of 100% stainless steel it provides high heat transfer capacity, resistance to corrosion and maximum cleanliness. Moreover, being 100% copper-free, it's suitable for all DHW pipeworks. Where the use of copper is not at stake, we offer a copper-brazed heat exchanger version which provides optimum comfort. Increased turbulence reduces the risk of fouling and improve heat transfer. These 2 heat exchangers can easily be cleaned with a chemical solution thanks to specific connections on the heat exchanger. Another heat exchanger is offered with plates and EPDM clip-on gaskets. It's thus adaptable to needs and is easily cleaned. Maximum operating pressure is 10 barg and maximum operating temperature is 110°C. As the principle of semi-instantaneous system is to offer a large volume of water at required temperature, we also offer a large range of storage vessels to combine with AquaStore: in stainless steel or enamelled carbon steel, with a volume from 300 L to 3000 L. Different insulation is available. Maximum operating pressure of the vessel is 7 barg and maximum operating temperature is 90°C. Primary side is connected to a heating source (boiler, district heating, ...), the secondary side to DHW pipework.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• 3 different types of HE available</li> <li>• Easy and quick installation</li> <li>• Temperature controller and monitoring system easy to set up</li> <li>• Many useful functions available in the PID controller</li> <li>• Eliminates thermal shocks</li> <li>• Limits limescale build-up</li> <li>• An Alfa Laval exclusive: Scaling control</li> <li>• Fully assembled, electrically wired, pressure tested and calibrated at the factory prior to dispatch.</li> <li>• Built in compliance with CE 73/23 electrical and PED CE 97/23 art.3.3.</li> </ul> <p><b>Applications</b></p> <p>Domestic hot water for:</p> <ul style="list-style-type: none"> <li>• Apartment blocks</li> <li>• Hospitals</li> <li>• Retirement homes</li> <li>• Hotels</li> <li>• Schools</li> <li>• Sport centres</li> <li>• Suitable for installations with relative even DHW consumption</li> </ul>

AquaCompact	AquaProtect T Anti Legionella System	AquaPool
		
<b>Capacities : From 19 to 240 kW</b>	<b>Capacities: up to 756 kW, instantaneous and semi-instantaneous</b>	<b>Capacities: from 14 up to 246 kW</b>
<p>AquaCompact is a all-in-one solution for semi-instantaneous applications. The charging kit including the heat exchanger is plugged on the storage vessel to reduce the space needed for the production of domestic hot water, where and when it is required. Three different types of heat exchanger are offered: AlfaNova the 100% Stainless Steel Alfa Laval exclusive, a copper-brazed version for efficiency in environments where copper is not at stake and a plate and clip-on EPDM gasket heat exchanger. AlfaNova and the copper-brazed version can easily be cleaned with a chemical treatment thanks to specific extra connections on the heat exchanger. The plates and gaskets heat exchanger can be upgraded to future needs and allow s easy access to clean the plates.</p> <p>As standard, AquaCompact comes with ready-made charging kits including the heat exchanger, charging pump, valves and piping and is design to easily meet different project designs and installation requirements up to 240 kW.</p> <p>Several ready-made primary kits are proposed as option to choose between 2-Port Self Actuated to 3-Port electronic regulation to provide a close control of the primary temperature at the heat exchanger inlet. AquaCompact comes with storage vessels from 300 L to 1500 L in Stainless Steel or enameled carbon steel. The primary side is connected to a heating source (boiler, district heating, ...), the secondary side to DHW pipework. Maximum operating pressure is 16 Bar and temperature is 110°C on primary side.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• Compact size</li> <li>• Space saving</li> <li>• Large range of charging kits</li> <li>• 2-port or 3-port valve</li> <li>• Self Actuated or Electronic Control</li> <li>• An Alfa Laval exclusive: scaling control (electronic version)</li> <li>• Cleaning-in-Place extra connections</li> <li>• Built in compliance with CE 73/23 electrical and PED 97/23 art 3.3.</li> </ul> <p><b>Applications</b> Domestic hot water for:</p> <ul style="list-style-type: none"> <li>• Apartment blocks</li> <li>• Hospitals</li> <li>• Retirement homes</li> <li>• Hotels</li> <li>• Schools</li> <li>• Sport Centres</li> <li>• Suitable for installations with relative even DHW consumption</li> </ul>	<p>AquaProtect T is a patent-pending heat exchanger system specifically developed for thermal disinfection of hot water. It heats the water to 70°C and keeps it at this level, which kills the bacteria effectively. Since the system includes heat recovery, the disinfection process consumes no extra energy. Instead of being diluted with cold water to the system temperature, the 70°C water is used to preheat the incoming cold water. All of the heat used for disinfection will thus be recovered, which means high cost-efficiency. For the adaptation to specific demands, Aqua Protect T can be delivered with a number of optional features.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• Safe eradication of all Legionella</li> <li>• Temperature safety function</li> <li>• Continuous disinfection of all circulating water</li> <li>• Net disinfection, periodically or on demand</li> <li>• Heat exchangers for soft and hard waters</li> <li>• Standardized systems for different tap flow rates</li> <li>• Supplied as fully assembled system</li> <li>• Electronic controller</li> <li>• Over-tapping protection</li> <li>• Protection against discharging</li> </ul> <p><b>Applications</b> Domestic hot water for:</p> <ul style="list-style-type: none"> <li>• Hospitals</li> <li>• Nursing Homes</li> <li>• Hotels</li> <li>• Military barracks</li> <li>• Apartment buildings</li> <li>• Gyms, sport clubs, fitness/wellness centers</li> <li>• Industrial facilities</li> <li>• Public swimming pools</li> <li>• Camping facilities</li> </ul>	<p>AquaPool is a compact swimming pool heating system which is highly efficient. It can be fed by different heating sources such as a boiler, district heating or solar energy. Water from the pool is by-passed to be heated through the heat exchanger. A temperature sensor at the secondary entry drives the heating process and allows it to heat and maintain the temperature of pools of different sizes. AquaPool uses the plate and clip-on EPDM gasket technology. Plates can be in Stainless Steel or in Titanium depending on content of chlorides in the water.</p> <p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• Compact size</li> <li>• Different heating source possible (Boiler, District Heating, Solar, ...)</li> <li>• Easy and quick installation</li> <li>• Stainless Steel or Titanium plates</li> <li>• Fully assembled, electrically wired, pressure tested and calibrated at the factory prior to dispatch.</li> <li>• Built in compliance with CE 73/23 electrical and PED CE 97/23 art.3.3.</li> </ul> <p><b>Applications</b> For heating:</p> <ul style="list-style-type: none"> <li>• Public pools</li> <li>• Private pools</li> <li>• All sizes</li> </ul>

### **Alfa Laval in brief**

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuffs, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

### **How to contact Alfa Laval**

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com)

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