



Cetetherm AquaFirst Neo



**Standard lead time
3 working days***

- ⊕ AquaFirst "Neo" a range expansion up to 65 models between 30 and 900 kw (primary 80°C).
- ⊕ AquaFirst "Neo" for its new Micro4000 control box, with dynamic, user-friendly and intuitive display
- ⊕ AquaFirst "Neo" for the addition of charging pump(s) management for primary storage tank
- ⊕ AquaFirst "Neo" for the management of renewable energy installations

NEW 2025

8000 and 6000 series are equipped with more efficient plates.

Benefits:

- ⊕ Higher delta temperature with a primary flow reduction.
- ⊕ Primary outlet temperature reduction as well.

* Ex-works upon receipt of order for 2 units maximum.
For larger quantities, please contact us.

APPLICATIONS

AquaFirst Neo is an easy-to-select domestic hot water (DHW) system, designed for DHW production between 30 kW and 900 kW for:

- apartment blocks
- Hospitals
- Hotels
- Retirement homes and care centers
- Schools and universities
- Leisure centers...

Competitive, efficient and ready to be connected to any type of boiler. Cetetherm AquaFirst Neo can be connected to remote building management systems via ModBus.

KEY BENEFITS

- Extended range between 30 and 900 kW:
 - 26 instant models: no storage tank required
 - 39 semi-instantaneous models in combination with a DHW storage tank
- User-friendly control with dynamic menus
- Low consumption primary pump(s): class A
- Low scaling
- Very high level of regulation quality thanks to rapid response of control valves; 15 seconds speed actuator
- Possibility of remote control via ModBus

- Compliance of materials with drinking water standards: 316 stainless steel plates and EPDM FF "clip-on" gaskets
- Possibility of adding plates to increase power
- Easy and quick maintenance

WORKING PRINCIPLE

In the tap water system, energy is exchanged through a heat exchanger from the primary to the DHW side. On the primary side, the Cetetherm AquaFirst Neo 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 on the secondary side.

On the secondary side, Cetetherm AquaFirst Neo instantaneous is connected to the main water circuit and provides domestic hot water to the distribution pipe-work when there is demand. A circulation pump - which is usually used to limit the time needed to deliver domestic hot water to the tap at the right temperature - maintains a minimum flow rate through the heat exchanger and through the distribution pipe-work.

For Cetetherm AquaFirst Neo semi-instantaneous a charging pump maintains - thanks to a constant flow rate - the supply of energy to the storage tank and the DHW network. This storage tank ensures DHW supply is met during peak demand periods.

MICRO4000

Controller for DHW units AquaGenius Neo, AquaFirst Neo and AquaEfficiency Neo



KEY BENEFITS

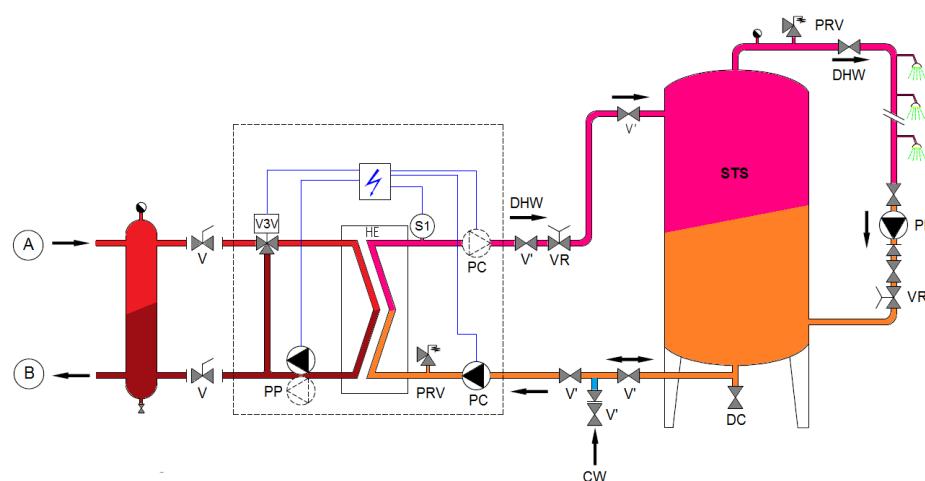
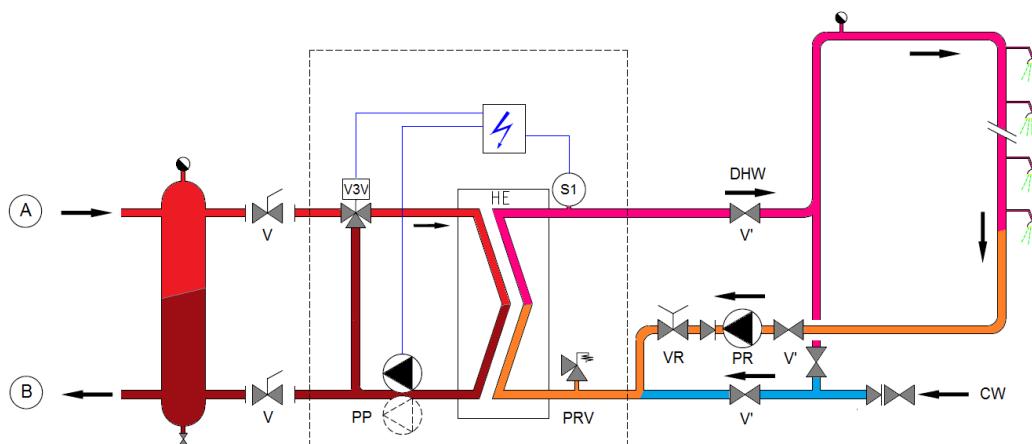
- ⊕ Dynamic, user-friendly and intuitive display
- ⊕ Management of charging pump(s) for primary tank
- ⊕ Features adapted to renewable energies
- ⊕ Heat Pump Ready
- ⊕ ModBus communication
- ⊕ Siemens Climatix controller with specific Cetetherm program
- ⊕ Industrial electronics
- ⊕ Easy access to components

STANDARD FEATURES

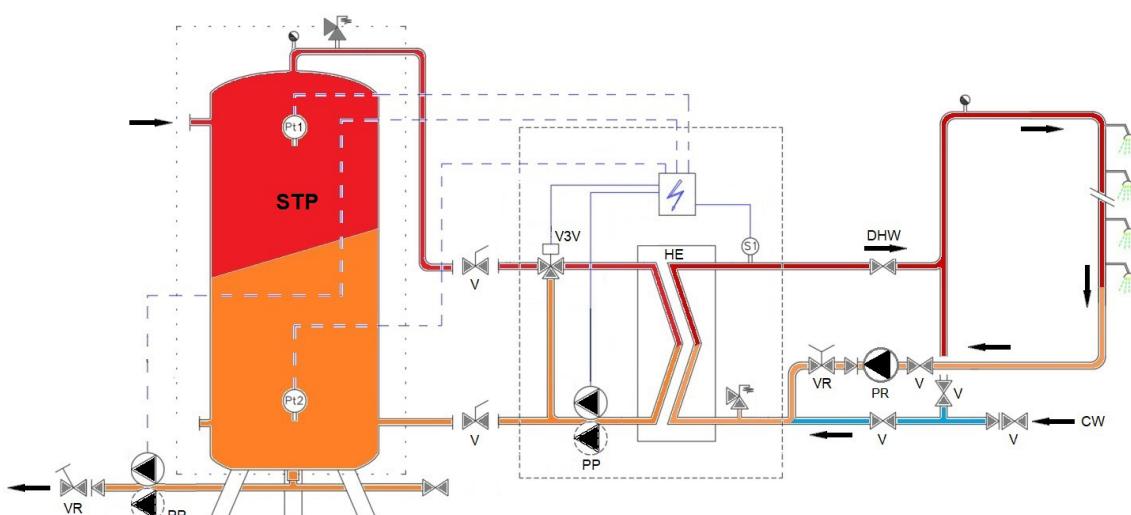
| | |
|-----------------------|--|
| Heat exchanger | <ul style="list-style-type: none"> • Plates & Gasket heat exchanger <ul style="list-style-type: none"> - Corrosion resistant stainless steel 316 plates - EPDM-FF or EPDMW clip-on gaskets • EPP insulation |
| Control system | <ul style="list-style-type: none"> • 3-port mixing electronic control valve • 24V 0-10V, 15 second speed actuator • ModBus RTU RS 485 Controller • Multi functional IP44 control box • NTC10K temperature sensors on secondary outlet with stainless steel sleeve |
| Pumps | <ul style="list-style-type: none"> • Primary class A flooded rotor Pumps pump: single or double head • Stainless steel charging flooded rotor pump: single or double head for semi-instantaneous solutions |
| Valves | <ul style="list-style-type: none"> • Drain valve (primary) • Pressure relief valve (secondary) |

| Operating limits | Primary | Secondary |
|----------------------------------|---------|-----------|
| Maximum operating pressure, bar | 10 | 10 |
| Maximum operating temperature °C | 100 | 85 |

HYDRAULIC FLOWCHART AQUAFIRST NEO INSTANTANEOUS & SEMI-INSTANTANEOUS



HYDRAULIC FLOWCHART AQUAFIRST NEO WITH PRIMARY TANK COMBITHERM SOLUTION



| | |
|-----------|---------------------------------|
| A | Primary inlet |
| B | Primary outlet |
| CW | Cold water inlet |
| DC | Draining valve |
| DHW | Domestic Hot Water |
| HE | Heat exchanger (PHE) |
| PC | Charging pump (one or two) |
| PP | Primary pump (single or double) |
| Pt1 - Pt2 | primary tank sensors |

| | |
|-----|---|
| PR | Recycling pump (on installation) |
| PRV | Pressure relief valve |
| S | DHW temperature sensor |
| STS | Storage tank (Buffer vessel) secondary |
| STP | Storage tank (Buffer vessel) primary |
| V | Manual gate valve |
| VR | Balancing valve |
| V3V | Mixing 3-port control valve with actuator |

COMBITHERM SOLUTION



WHY COMBITHERM ?

Combitherm optimises the advantages of both instantaneous and semi-instantaneous, providing

- ⊕ **Maximum hygiene**
secondary storage is avoided, along with the risk of legionella, as the thermal capacity is transferred to the primary side.
- ⊕ **Greater cost-effectiveness**
a greater return of investment is generated, by allowing reduced power from the primary source.
- ⊕ **Full suitability**
the solution is suitable for all domestic hot water loops and high circulation flow rates, like in hospitals and other collective applications.
- ⊕ **Easy maintenance**
periodic maintenance is not needed at the secondary side, like storage tank and sanitary charging pumps.
- ⊕ **Optimal reliability and robustness**
the tank charging pump is located on the heating side, so there is no risk of scaling the recycling pump or corrosion.
- ⊕ **Thermal efficiency**
Combitherm significantly reduces return temperatures.

Contact Cetetherm to calculate the Combitherm solution best suited to your needs.

* Brochures for these products are available at www.cetetherm.com

QUICK SELECTION TABLE – INSTANTANEOUS

| Primary | Prim. 80°C | Secondary | | Prim. 70°C | Secondary | | Prim. 65°C | Secondary | | Partnumber | |
|---|----------------|-----------------------|----------------------|----------------|-----------------------|----------------------|----------------|-----------------------|----------------------|----------------|----------------|
| flow rate m³/h | capacity kW | flow rate L/sec | pres. drop kPa | capacity kW | flow rate L/sec | pres. drop kPa | capacity kW | flow rate L/sec | pres. drop kPa | single pump | double pump |
| Secondary: 10°C - 60°C / free pressure available on primary: 5 Kpa | | | | | | | | | | | |
| 1,1 | 30 | 0,2 | 9 | 18 | 0,1 | 4 | 12 | 0,1 | 2 | FI2007IS | FI2007ID |
| 2,9 | 95 | 0,5 | 13 | 60 | 0,3 | 5 | 42 | 0,2 | 3 | FI2017IS | FI2017ID |
| 5,2 | 175 | 0,8 | 16 | 115 | 0,6 | 8 | 80 | 0,4 | 4 | FI4027IS | FI4027ID |
| 6,3 | 260 | 1,3 | 14 | 175 | 0,8 | 7 | 125 | 0,6 | 4 | FI4045IS | FI4045ID |
| 6 | 280 | 1,3 | 32 | 195 | 0,9 | 16 | 143 | 0,7 | 8 | FI5015IS | FI5015ID |
| 6,8 | 345 | 1,6 | 24 | 248 | 1,2 | 13 | 184 | 0,9 | 8 | FI5021IS | FI5021ID |
| 7,4 | 400 | 1,9 | 17 | 290 | 1,4 | 10 | 218 | 1,0 | 6 | FI5029IS | FI5029ID |
| 7,6 | 440 | 2,1 | 13 | 320 | 1,5 | 7 | 244 | 1,2 | 5 | FI5037IS | FI5037ID |
| NEW | | | | | | | | | | | |
| 7,2 | 410 | 2,0 | 36 | 300 | 1,4 | 20 | 230 | 1,1 | 12 | FI6119IS | FI6119ID |
| 8,7 | 510 | 2,4 | 32 | 370 | 1,8 | 18 | 287 | 1,4 | 11 | FI6125IS | FI6125ID |
| 9,9 | 605 | 2,9 | 23 | 450 | 2,1 | 13 | 355 | 1,7 | 9 | FI6135IS | FI6135ID |
| 12,5 | 730 | 3,5 | 37 | 540 | 2,6 | 21 | 420 | 2,0 | 13 | FI8033IS | FI8033ID |
| 14,3 | 900 | 4,3 | 20 | 680 | 3,2 | 12 | 535 | 2,6 | 8 | FI8057IS | FI8057ID |

QUICK SELECTION TABLE – SEMI-INSTANTANEOUS

| Primary | Prim. 80°C | Secondary | | Prim. 70°C | Secondary | | Prim. 65°C | Secondary | | Partnumber | | |
|---|----------------|-----------------------|----------------------|----------------|-----------------------|----------------------|----------------|-----------------------|----------------------|----------------------------|----------------------------|----------------------------|
| flow rate m³/h | capacity kW | flow rate L/sec | pres. drop kPa | capacity kW | flow rate L/sec | pres. drop kPa | capacity kW | flow rate L/sec | pres. drop kPa | single/ single pumps | double/ single pumps | double/ double pumps |
| Secondary: 10°C - 60°C / free pressure available on primary: 5 Kpa | | | | | | | | | | | | |
| 1,1 | 30 | 0,2 | 65 | 18 | 0,1 | 71 | 12 | 0,1 | 74 | FI2007SS | FI2007DS | FI2007DD |
| 2,9 | 95 | 0,5 | 57 | 60 | 0,3 | 68 | 42 | 0,2 | 71 | FI2017SS | FI2017DS | FI2017DD |
| 5,2 | 175 | 0,8 | 47 | 115 | 0,6 | 60 | 80 | 0,4 | 67 | FI4027SS | FI4027DS | FI4027DD |
| 6,3 | 260 | 1,3 | 41 | 175 | 0,8 | 56 | 125 | 0,6 | 64 | FI4045SS | FI4045DS | FI4045DD |
| 6 | 280 | 1,3 | 22 | 195 | 0,9 | 46 | 143 | 0,7 | 59 | FI5015SS | FI5015DS | FI5015DD |
| 6,8 | 345 | 1,6 | 22 | 248 | 1,2 | 44 | 184 | 0,9 | 55 | FI5021SS | FI5021DS | FI5021DD |
| 7,4 | 400 | 1,9 | 22 | 290 | 1,4 | 43 | 218 | 1,0 | 54 | FI5029SS | FI5029DS | FI5029DD |
| 7,6 | 440 | 2,1 | 22 | 320 | 1,5 | 42 | 244 | 1,2 | 52 | FI5037SS | FI5037DS | FI5037DD |
| NEW | | | | | | | | | | | | |
| 7,2 | 400 | 1,9 | 6 | 300 | 1,4 | 31 | 230 | 1,1 | 47 | FI6119SS | FI6119DS | FI6119DD |
| 8,6 | 460 | 2,2 | 6 | 370 | 1,8 | 25 | 287 | 1,4 | 42 | FI6125SS | FI6125DS | FI6125DD |
| 9,9 | 525 | 2,5 | 5 | 450 | 2,1 | 20 | 355 | 1,7 | 36 | FI6135SS | FI6135DS | FI6135DD |
| 12,5 | 660 | 3,2 | 6 | 540 | 2,6 | 32 | 420 | 2,0 | 55 | FI8033SS | FI8033DS | FI8033DD |
| 14,2 | 760 | 3,6 | 5 | 680 | 3,2 | 21 | 535 | 2,6 | 46 | FI8057SS | FI8057DS | FI8057DD |

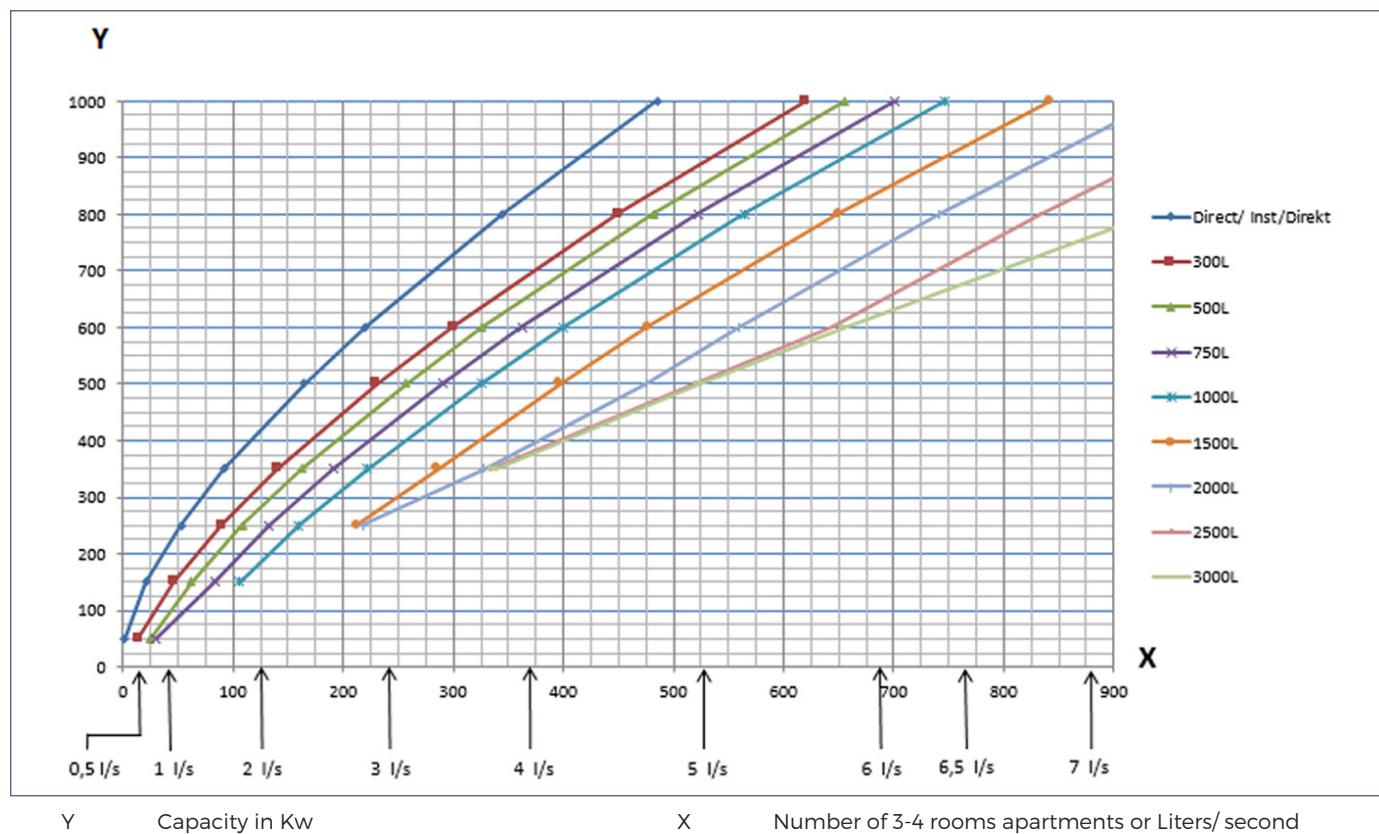
TECHNICAL TABLE - INSTANTANEOUS

| Part number | Number of plates | Weight (kg) | Power consumption | | |
|-------------|------------------|-------------|-------------------|----------------------|--|
| | | | Pmax (W) | I _{max} (A) | |
| FI2007IS | 7 | 57 | 225 | 2 | |
| FI2017IS | 17 | 60 | | | |
| FI4027IS | 27 | 62 | | | |
| FI4045IS | 45 | 64 | | | |
| FI2007ID | 7 | 66 | 176 | 1.7 | |
| FI2017ID | 17 | 69 | | | |
| FI4027ID | 27 | 71 | | | |
| FI4045ID | 45 | 73 | | | |
| FI5015IS | 15 | 103 | 335 | 1.9 | |
| FI5021IS | 21 | 106 | | | |
| FI5029IS | 29 | 110 | | | |
| FI5037IS | 37 | 114 | | | |
| FI5015ID | 15 | 110 | 640 | 3.2 | |
| FI5021ID | 21 | 113 | | | |
| FI5029ID | 29 | 117 | | | |
| FI5037ID | 37 | 121 | | | |
| NEW | | | | | |
| FI6119IS | 19 | 130 | 225 | 2.1 | |
| FI6125IS | 25 | 138 | | | |
| FI6135IS | 35 | 144 | | | |
| FI8033IS | 33 | 164 | | | |
| FI8057IS | 57 | 176 | | | |
| NEW | | | | | |
| FI6119ID | 19 | 140 | 420 | 3.7 | |
| FI6125ID | 25 | 148 | | | |
| FI6135ID | 35 | 154 | | | |
| FI8033ID | 33 | 170 | | | |
| FI8057ID | 57 | 194 | | | |

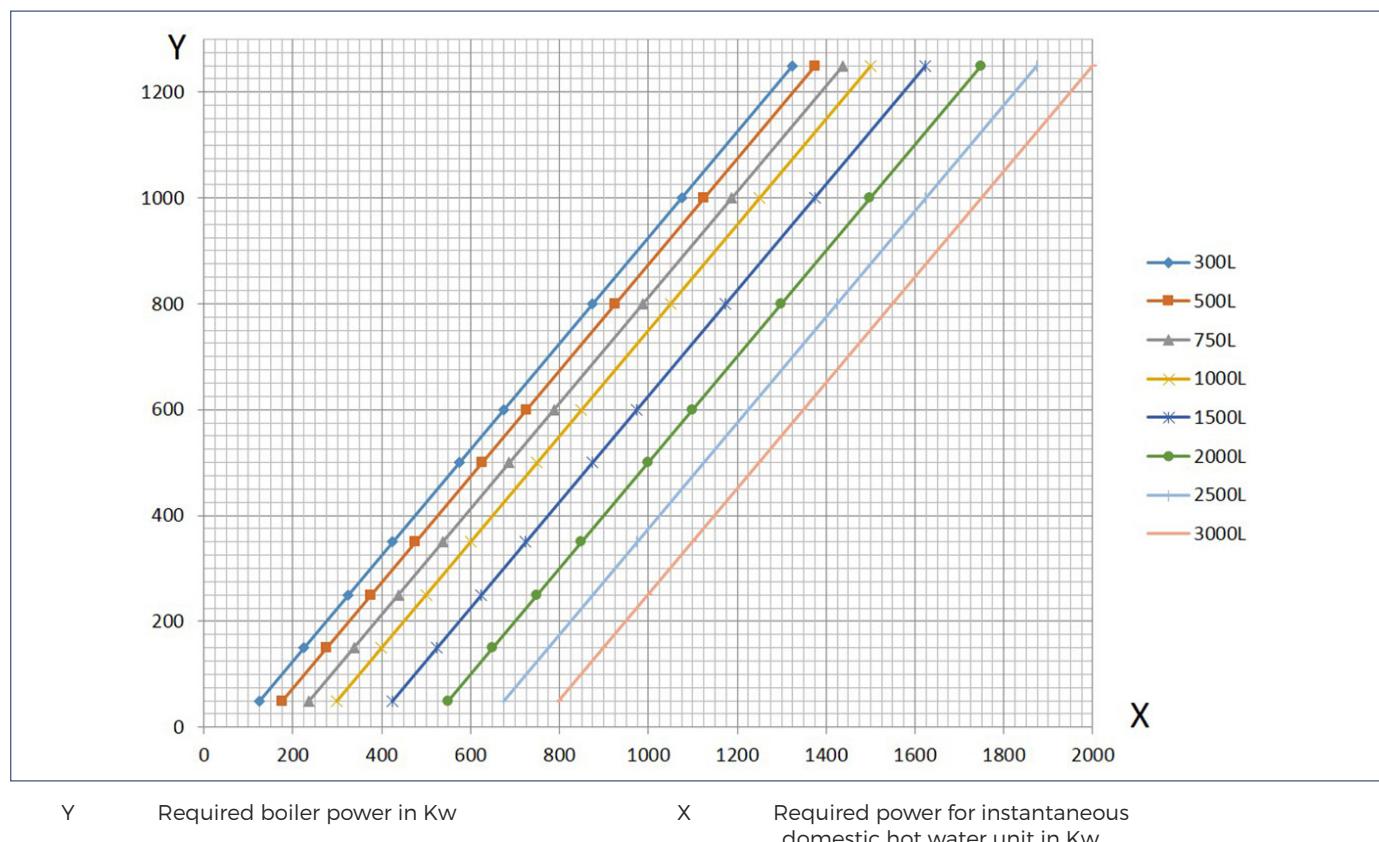
TECHNICAL TABLE - SEMI-INSTANTANEOUS

| Part number | Number of plates | Weight (kg) | Power consumption | | | |
|-------------|------------------|-------------|-------------------|----------------------|--|--|
| | | | Pmax (W) | I _{max} (A) | | |
| FI2007SS | 7 | 63 | 445 | 3 | | |
| FI2017SS | 17 | 66 | | | | |
| FI4027SS | 27 | 68 | | | | |
| FI4045SS | 45 | 70 | | | | |
| FI2007DS | 7 | 70 | 396 | 2.7 | | |
| FI2017DS | 17 | 74 | | | | |
| FI4027DS | 27 | 77 | | | | |
| FI4045DS | 45 | 79 | | | | |
| FI2007DD | 7 | 76 | 616 | 3.7 | | |
| FI2017DD | 17 | 80 | | | | |
| FI4027DD | 27 | 83 | | | | |
| FI4045DD | 45 | 85 | | | | |
| FI5015SS | 15 | 108 | 555 | 2.81 | | |
| FI5021SS | 21 | 111 | | | | |
| FI5029SS | 29 | 115 | | | | |
| FI5037SS | 37 | 119 | | | | |
| FI5015DS | 15 | 115 | 860 | 4.2 | | |
| FI5021DS | 21 | 118 | | | | |
| FI5029DS | 29 | 122 | | | | |
| FI5037DS | 37 | 126 | | | | |
| FI5015DD | 15 | 132 | 1080 | 5.2 | | |
| FI5021DD | 21 | 135 | | | | |
| FI5029DD | 29 | 139 | | | | |
| FI5037DD | 37 | 143 | | | | |
| NEW | | | | | | |
| FI6119SS | 19 | 136 | 445 | 3.1 | | |
| FI6125SS | 25 | 144 | | | | |
| FI6135SS | 35 | 150 | | | | |
| FI8033SS | 33 | 170 | | | | |
| FI8057SS | 57 | 181 | | | | |
| NEW | | | | | | |
| FI6119DS | 19 | 146 | 640 | 4.6 | | |
| FI6125DS | 25 | 154 | | | | |
| FI6135DS | 35 | 160 | | | | |
| FI8033DS | 33 | 182 | | | | |
| FI8057DS | 57 | 201 | 1115 | 5.4 | | |
| NEW | | | | | | |
| FI6119DD | 19 | 152 | | | | |
| FI6125DD | 25 | 160 | | | | |
| FI6135DD | 35 | 166 | | | | |
| FI8033DD | 33 | 188 | | | | |
| FI8057DD | 57 | 209 | 1460 | 6.9 | | |

SELECTION CHART AQUAFIRST NEO (DHW FLOW RATE: 10 - 60°C)

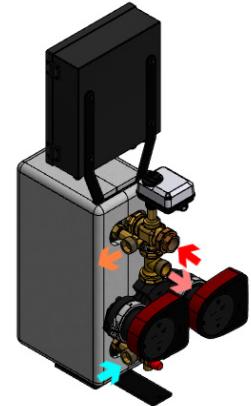
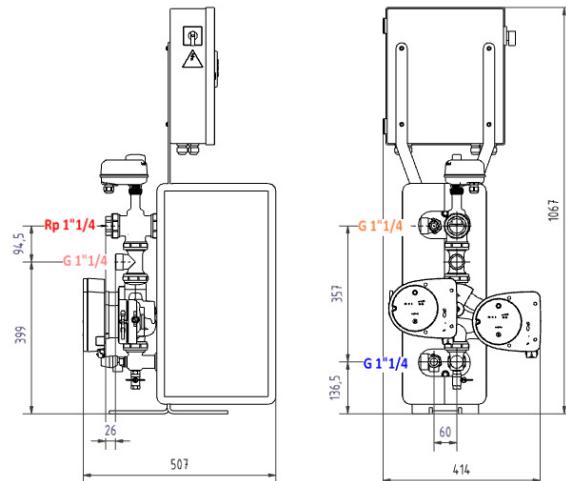


SELECTION CHART AQUAFIRST NEO WITH PRIMARY VESSEL (DHW OUTLET: 60°C)



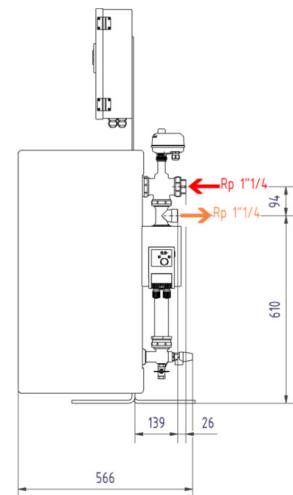
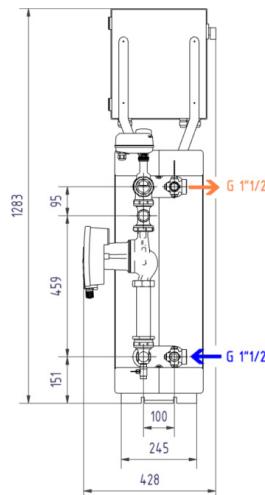
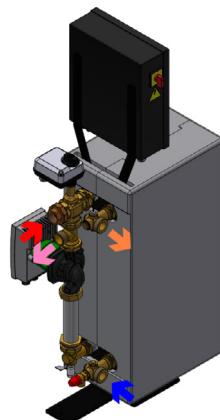
AQUAFIRST NEO INSTANTANEOUS

- MODELS 2000 & 4000
INSTANTANEOUS DOUBLE



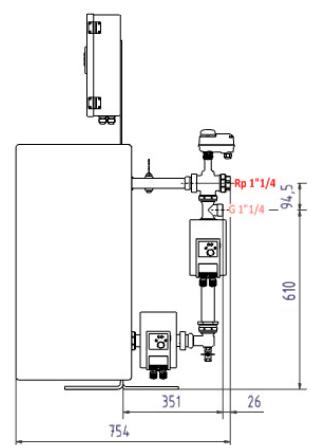
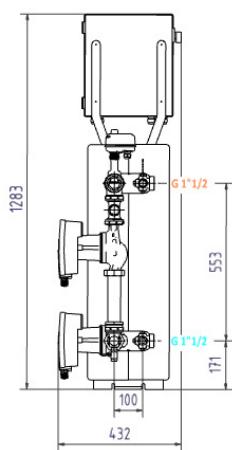
NEW

- MODEL 5000
INSTANTANEOUS SINGLE

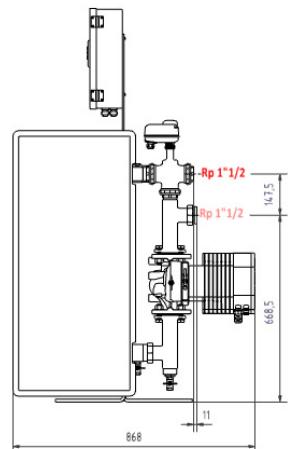
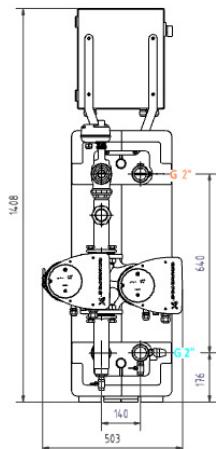
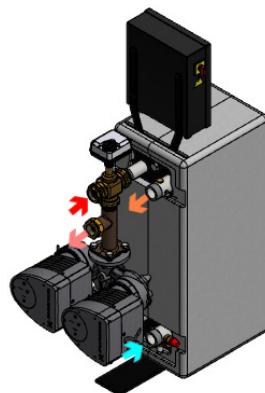


NEW

- MODEL 5000
INSTANTANEOUS DOUBLE

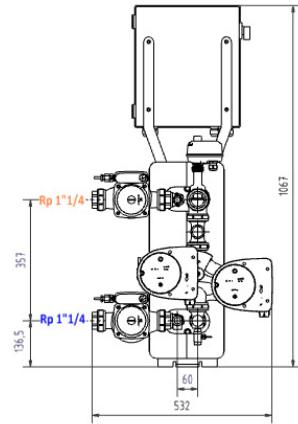
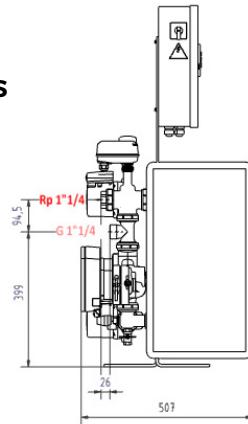


- MODELS 6000 & 8000
INSTANTANEOUS DOUBLE



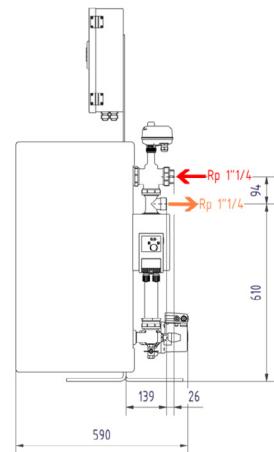
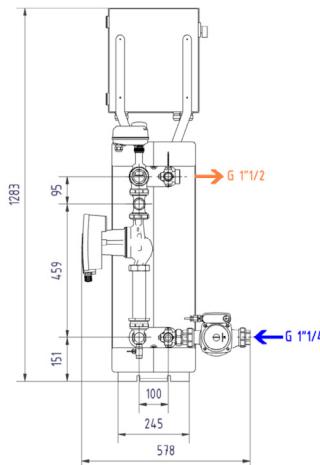
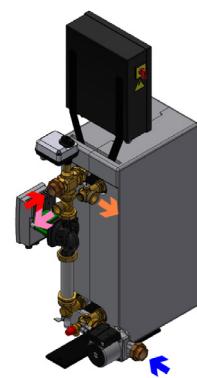
AQUAFIRST NEO SEMI-INSTANTANEOUS

- MODELS 2000 & 4000
SEMI-INSTANTANEOUS DOUBLE



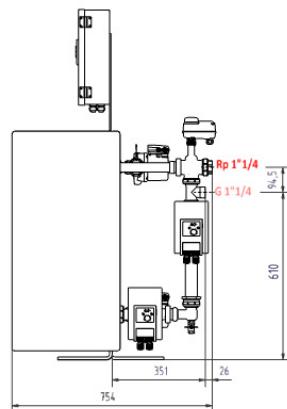
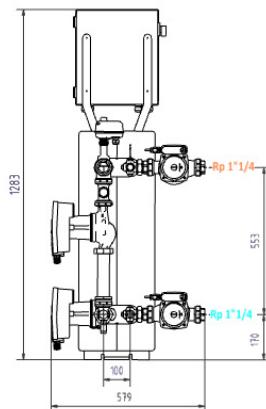
NEW

- MODEL 5000
SEMI-INSTANTANEOUS SINGLE



NEW

- MODELS 5000
SEMI-INSTANTANEOUS DOUBLE



- MODELS 6000 & 8000
SEMI-INSTANTANEOUS DOUBLE

