

ENERPIPE

Natural Energy Solutions



Freshwater station from ENERPIPE
For an ideal process water supply.

www.enerpipe.de

Supply:

Whether buffer storage for your wood heating or universal buffer for all systems, the question concerning the correct buffer system is one of the most important points regarding your heating and process water system. Only using a balanced buffer will you be able to produce reserves and ensure ideal efficiency. For wood heating systems the application of an adequate buffer zone is compulsory.



Fresh water technology:

Conditioning of potable water is not always easy, even in connection with biomass boilers. The boiler should run long-term for heating of heating water and should be able to buffer for hot potable water. This is the only efficient way to run the system efficient. But potable water is food and should not be stored in contrast to normal heating water since due to continuing down-time losses, the loss of energy increases heavily. Furthermore, the danger of growth of legionella or other germs is very high at a temperature around 40 degrees Celsius.

In earlier times as well as today, process water buffers are still rampant although their problems and disadvantages are well known. But in the meantime, there are very good economical solutions to counteract germs and the loss of energy. The possibility to heat the potable water in a hygienic flow principle, to deal with these problems.

- Low energy consumption
- No growth of legionella
- No germs

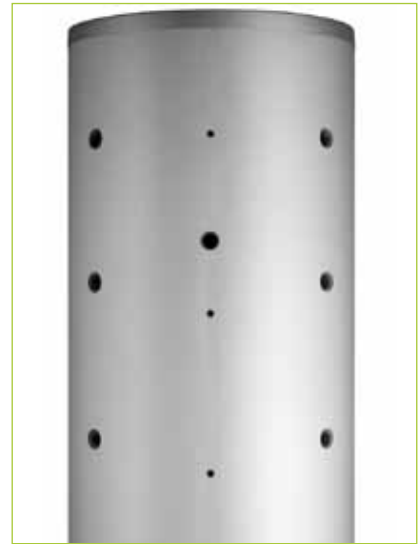
Advantages of the fresh water station:

Due to smallest construction without internal ducts and a hydraulic and electric plug-in installation directly into the buffer storage the **required space** is very small. The **hygienic** flow principle guarantees 100 % fresh process water and avoids therefore the growth of legionella.

- Heat insulated construction and automatic airing of the system
- Patent-registered temperature regulation including easy hot water temperature preselection
- Constant hot water temperatures
- Fastest reaction time without overheating or underheating preselected tapping temperature
- Process water is available directly for the consumer without any dead-time

Buffer storage:

Not absolutely necessary but an ideal amendment. Application of a buffer storage is the optimal solution to extend the down-times of biomass boilers. Even better is the use of the buffer storage as a connection for the fresh water station. The stratified storage by ENERPIPE allows an ideal energy storage on a high level and the connection of the fresh water station.



- Easy to install
- High quality and durability
- All-purpose
- Optimal heat-insulation
- Better use of combustible due to combination of boiler and solar collector
- Several stratified storages can easily be connected via corrugated pipe hose connections
- The fresh water station can be directly affixed to the buffer storage

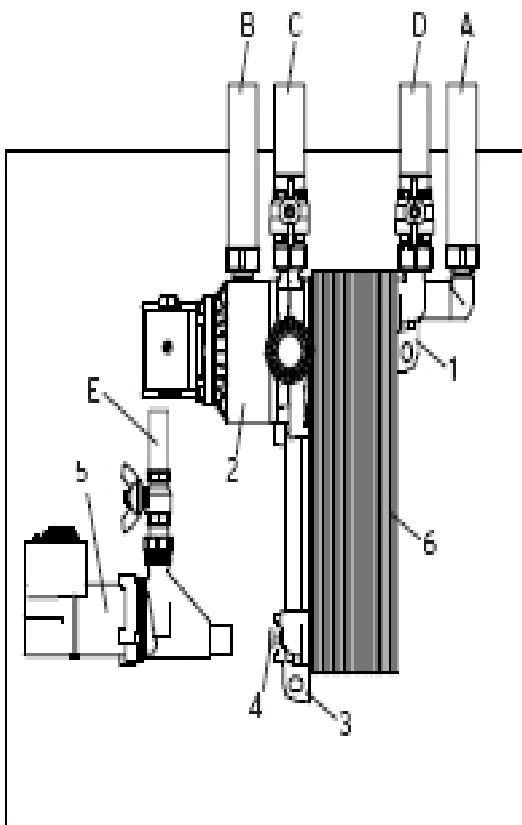
Technical informations ENERPIPE fresh water station

Item number fresh water station	100.501.300
Output (l/min)	1,5 - 35
Dimensions incl. insulation	
Station height [mm]	572
Station breadth [mm]	337
Station depth [mm]	276
Station weight [kg]	19
Min. acceptable operating temp.	2
Max. acceptable operating temp.	95
Max. acceptable pressure	
Process water [bar]	10
Heating [bar]	3
Data of pump:	
Main pump [V/Hz]	230/50
Drive [U/min]	2200
Input [W]	93
Nominal current [A]	0,40

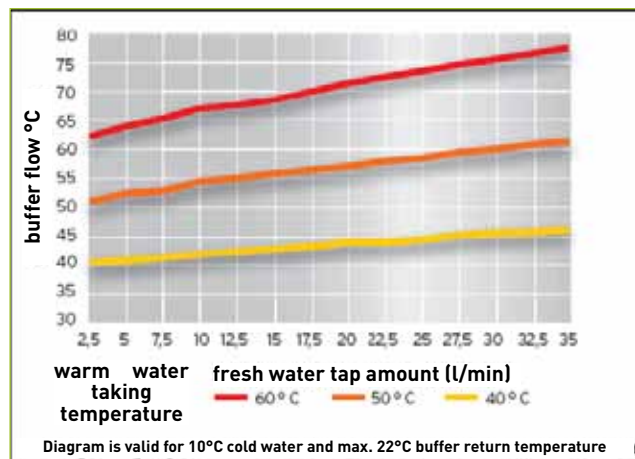


Drawing ENERPIPE fresh water station

Schematic diagram fresh water station:



Drawing schematic diagram



Drawing flow diagram

1 + 3	Fastening clip above and below
2	Heating pump
4	Connection circulation pump (optional)
5	Circulation pump
6	Plate heat exchanger
A	Cold water input 1" IG
B	Warm water output 1" IG
C	Flow buffer storage 1" AG
D	Return buffer storage 1" AG
E	Connection circulation conduct 1/2" IG

Further heat sources required?

Get yourself informed about our possibilities of efficient thermal use of bio mass plants!



You wish to receive further information about our services and products!

Just send us an email to info@enerpipe.de
or a fax with the attached form.

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