

# Saving energy by heat recovery Shower Pipe ECOshower



**Wagner Solar**

ENERGIETECHNIK  
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Can reduce  
energy  
consumption  
by 60 %

**Double your shower pleasure with ECOshower shower pipe**  
ECOshower shower pipes ingeniously utilize the energy required for showering several times over

## BENEFITS

- **The affordable way to saving energy**
- **Maintenance-free performance**
- **Increases value**

## DETAILS

Efficient heat recovery from shower water. A family of four effortlessly saves up to 220 m<sup>3</sup> of gas or 220 l of heating oil every year while taking showers. Sustainable and economical energy use as it should be. Thanks to the attractive price of the shower tube, the shower system quickly pays for itself.

After installation the double-walled shower pipe with integrated corrosion-resistant copper heat exchanger is practically maintenance free. The shower tube quietly works along for an entire "shower life". Its simple and efficient design guarantees continued high performance and savings.

Better energy efficiency rating can increase the value of the property.

The ECOshower effect

Save up to 60 % of heat energy while showering!

### Why does heat recovery from shower water pay off?

Normally only 20 to 25% of the heat generated for showering is utilized, while the bulk is flushed into the sewer.

Heat recovery allows our ECOshower shower pipe to retrieve a large fraction of the unused heat. To achieve this, the shower collector directly employs the heat of the wastewater to pre-heat the incoming cold water. As a result the gas, oil or power consumption required for showering is almost halved, simply while taking a shower and without compromising comfort.

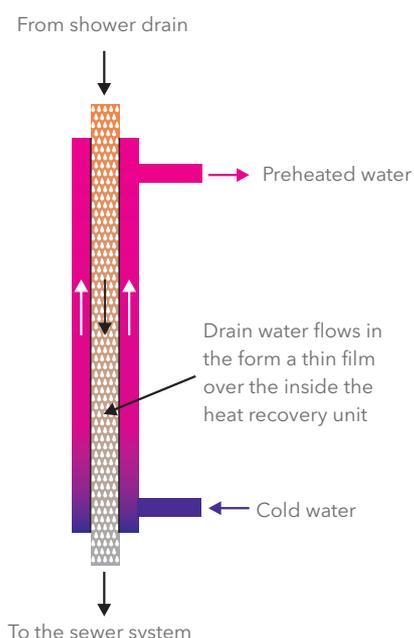
### How does it work?

Recovery of the heat contained in the shower wastewater is achieved by counter-flow principle. The outflowing shower water is led through the heat exchanger integrated in the shower collector, and the heat contained in the wastewater is then transferred to the inflowing cold domestic water, which is safely separated from the wastewater. The fresh water, warmed from approx. 10 °C to approx. 27 °C is then led to the cold water connection of the shower mixer or used to pre-heat the hot water.

### Reliable efficiency

The heat exchanger's patented design ensures a very high and stable efficiency over many years.

**With up to 60% heat recovery the ECOshower shower tube is the most efficient of the four ECOshower systems!**



ECOshower 15

### Functional principle of the heat exchanger

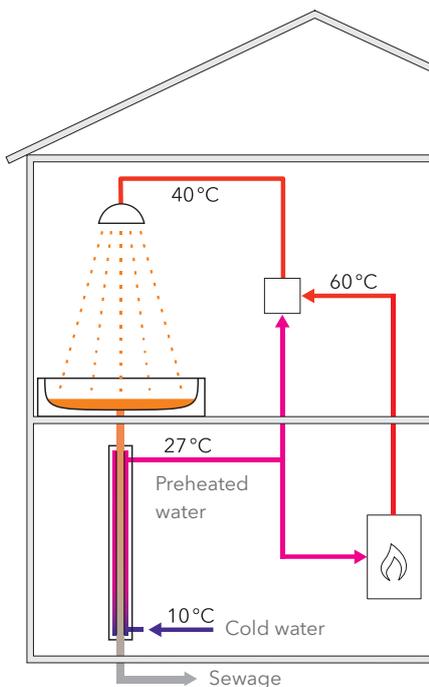
The excess heat of the wastewater is used to heat the cold domestic water from for example 10 °C to 27 °C, before being fed to the shower mixer.



### Easy installation of the shower tube

The function of ECOshower shower tubes is independent of the type and design of the shower unit itself. Therefore, they are ideally suited for all types of buildings, whether existing or newly developed.

Sufficient space below the shower room, e.g. a living room or basement, is required for installation.



For example: Connection to shower armature and DHW generator

The ECOshower shower pipe can be connected to the water heater and shower in various ways. A thermostatic mixing valve is not a must, but it ensures comfortable operation.

### Multiple combinations

The ECOshower shower pipe operates with any type of water heater.

For even more energy saving, it is recommended to combine it with a durable and highly effective solar thermal system from Wagner Solar. 40 years of solar experience as well as products that won multiple awards are a proof of outstanding quality.

#### Further ECOshower products:

Shower Drain ECOshower for floor level installation in tiled showers

Shower Tray ECOshower with integrated heat exchanger

Shower Collector ECOshower for larger systems

Technical data	ECOshower 15		ECOshower 20
Max. Flow rate	15 l/min		20 l/min
Length x Diameter (mm)	1,500 x 63	1,700 x 63	2,100 x 63
Discharge connection	50 mm		50 mm
Domestic water connections	2 x 1/2" female thread		2 x 1/2" and 1 x 3/4" female thread
Efficiency (%) NEN 7120 (12,5 l/min) <sup>1</sup>	52.3 <sup>2</sup>	55.5	60.0

<sup>1</sup> Connection to cold water inlet of shower mixer and water heater. Hot water temperature = 60 °C, mixing temperature = 40 °C, cold water temperature = 10° C

<sup>2</sup> calculated

## Power. Heat. Future

We are solar pioneers with foresight and have been successfully working with the sun for 40 years.

As a one-stop systems supplier we stand for integrated sustainable solar power, solar heat, mounting systems and energy technology.



Wagner Solar has a constantly expanding international distribution network.