

HeatSnagger

- heat recovery for shower cabinetts



Shower as usual and save money and the environment

Recover heat from your greywater
Will fit most stand alone shower cabinets
No moving parts
Minimal maintenance
Self draining after showering

Outside dimensions and
connections:

Size: 380 x 630 x 85 mm
Connections:
Drain: 2 x 40mm sockets
Cold water: ½" threads

Manufactured in Norway.
www.meanderhr.com

This is how it works:

Usually when you shower, 90% of the heat energy literary goes down the drain. HeatSnagger is recovering some of that heat from the greywater and uses it to preheat the cold water. When the coldwater to the mixer is warmer than before, then you will use less hot water. The saving is 2-4kW while showering.

 **MEANDER**
HEAT RECOVERY

The heat exchanger concept



With an open lid it is easy to see how the heat exchanger works. The 3 m copper pipe efficiently transfers the heat. The greywater flows in the canal while heating the incoming coldwater inside the copper pipe. This design has increased efficiency due to the true counter flow heat transfer. Another efficiency booster is the high speed of the greywater in the canal structure. All in all this adds up to an interesting heat recovery in a small, robust and affordable heat recovery unit.

Installation and maintenance

The HeatSnagger has a standard ½" threaded coupling for both the domestic coldwater inlet and the preheated coldwater outlet to the shower mixer. Recommended connections are by flexible PEX pipes, as it will ease the positioning of the HeatSnagger. There are 40mm sockets on both the drain connections. Flexible 40mm pipes can be easily just pushed into position and then extended out to required length. Then connect other sides to floor drain and shower drain.

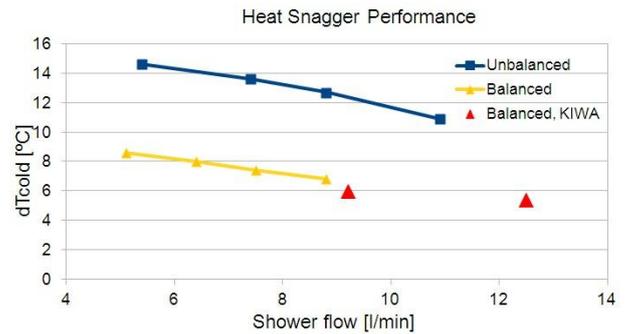


We recommend the use of a hair catcher. HeatSnagger will work even without any maintenance but we recommend to flush with hot water every second month to maintain a good efficiency rate.

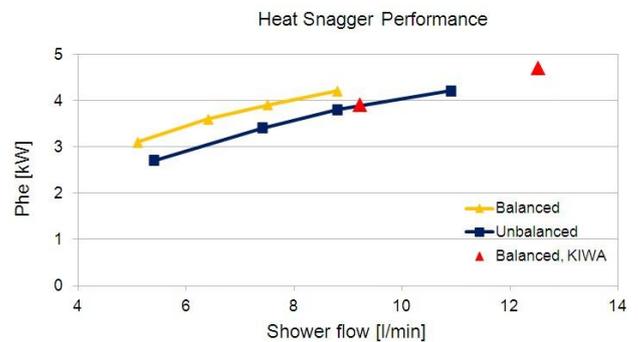
Manufactured in Norway
www.meanderhr.com

Test data

Measured according to NEN 5128 A1:2009.



Figur 2, Temperature increase for different shower flow rates.



Figur 1, Power saved for different flow rates.

The graph for unbalanced flow is used when the HeatSnagger is connected to a standalone shower cabinet. The graph for balanced performance can be used to compare the HeatSnagger to other DWHR units tested to the NEN 5128 standard. Data for third party tests by KIWA are in the graphs. The efficiency at 9.2 l/min is for the HeatSnagger 19.7%. Balanced flow is when the pre heated coldwater is connected both to the shower mixer and to the heating tank. Then there is the same amount of water flowing in both directions inside the heat exchanger.

Taking the power saved from figure 2 and multiplying it with number of hours showered will give the energy saved. Example: A family of four showers normally about 0.5 hours a day with a power saving of 4kW. Your savings for a year comes out to 4kW x 0,5h x 365= 730 kWh.