

Interactive comment on “Functioning conditions of the Casale pumping station in Mantova, Italy” by C. Capponi et al.

C. Capponi et al.

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Reply to the first observation:

we also noticed the differences between the manufacturer and the actual measured characteristic curve. For the sake of clarity, in the new version of Fig. 5, we added the band of confidence given by the manufacturer. We accept Tom Walski's comment, a recognized expert in the field of water system management, but we suspect that it is quite frequent in the common practice to find not negligible differences between actual and given pump characteristic curves.

Reply to the second observation:

In the revised version we have clarified this point. We agree with Tom Walski about
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the loss of efficiency introduced by the VF or inverter drive. As clearly stated in the amended version, we evaluated a "wire to water" efficiency, which includes the inverter drive efficiency. We also agree about the importance the storage in water distribution systems to increase the efficiency of pump groups. However we have to say that nowadays it's common to find pumping groups directly connected to water distribution systems.

Reply to the third observation:

The installed flow meter is an electromagnetic one.

We thank Tom Walski for his help in improving the quality of the paper.

Interactive comment on Drink. Water Eng. Sci. Discuss., 7, 151, 2014.