MARINFLOC®
A CLEAN SEA

# Service Bulletin

*no. 18, 2014-11-19*

## Operation of MAG flowmeter affected by piping arrangement to WhiteBox®

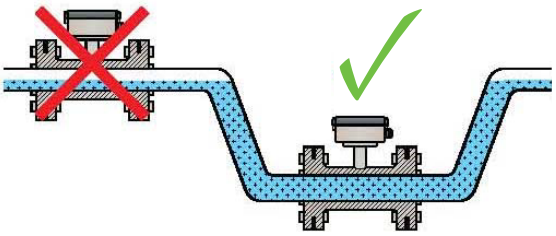
*System applicability: WhiteBox® system models from serial no. 51000 and systems where the MAG 5000 flowmeter has been retrofitted*

### Background

Following reports of flowmeter issues in various WhiteBox installations, Marinfloc has identified that some WhiteBox® systems have been installed with a piping arrangement that may significantly affect the operation of the MAG 5000 flowmeter. This type of flowmeter cannot measure correctly if an air pocket develops within the measuring pipe. Marinfloc is releasing this service bulletin for clarification and explanation of the problem and to provide guidance for corrective actions.

**Important!**

*The MAG 5000 flowmeter must be installed at a lower point in a pipeline in such way that it is completely filled with water at all times.*



### Corrective actions

In order to ensure correct measurement by the flowmeter, it is important that the WhiteBox® is installed so that no air pockets can develop inside the WhiteBox® piping.

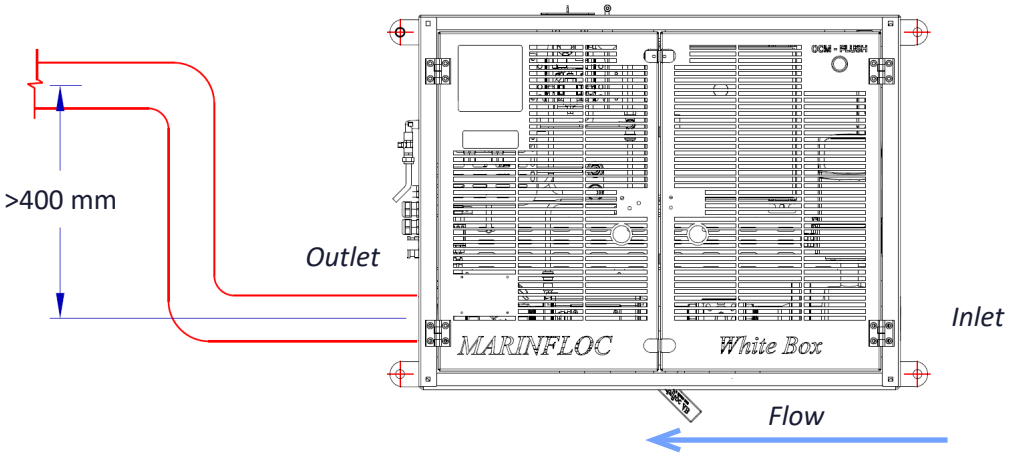
The configuration of the inlet pipe does not affect the flowmeter, but the outlet pipe from the WhiteBox® must be configured as in the example below and must raise a minimum of 400 mm to ensure correct flow measurement. After this initial elevation the pipe can continue downward as convenient. If the WhiteBox® is already installed with a descending pipe, a gooseneck with a height of 400 mm needs to be installed to ensure correct flow measurement.



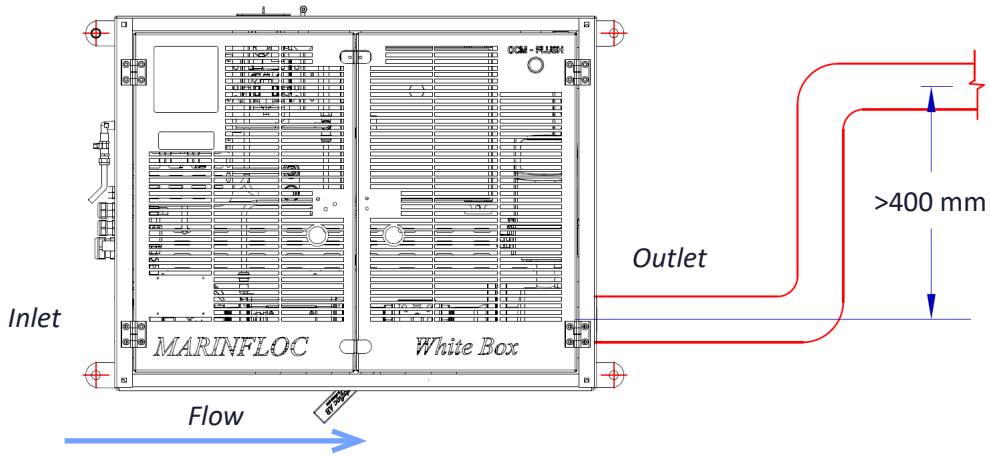
Marinfloc AB
Industrivägen 10
472 95 Varekil, Sweden

Phone: +46 304 60 63 00
marinfloc@marinfloc.com
www.marinfloc.com

**Correct installation of the outlet pipe from WhiteBox®**




*WhiteBox® flow direction right-to-left*




*WhiteBox® flow direction left-to-right*

*All previous service bulletins and other important information, e.g. updated lists of approved chemicals and flocculants, can be found on our website www.marinfloc.com*



Marinfloc AB
Industrivägen 10
472 95 Varekil, Sweden

Phone: +46 304 60 63 00
marinfloc@marinfloc.com
www.marinfloc.com