

Cleaning the heating system

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1 Instruments Covered by this Document

The following Instruments with the appropriate firmware release versions installed are covered by this document:

Instrument Type:	Part No.:	Serial Numbers:	Installed Firmware Release:
PTWS100	30-22000	all numbers	all versions
PTWS120	30-41000	all numbers	all versions
PTWS800	30-22050	all numbers	all versions
PTWS820	30-48000	all numbers	all versions
PTWS310	30-20310	all numbers	all versions
PTWS610	30-36010	all numbers	all versions
PTWS620	30-46000	all numbers	all versions
PTWS1210	30-12002	all numbers	all versions
PTWS1220	30-41200	all numbers	all versions
PTWSD620	30-46600	all numbers	all versions
IDS 1000	30-00400	all numbers	all versions
DTS 800	30-00500	all numbers	all versions
DT7	30-03070	all numbers	all versions
DT8	30-21000	all numbers	all versions
DT70	30-03070	all numbers	all versions
PTZ Auto 1-4	12-0000x	all numbers	all versions
PTZ Auto 1-4 EZ	12-00xx0	all numbers	all versions
Dist 3	10-00013	all numbers	all versions
PTZ-S	10-00012	all numbers	all versions

Table 1: Instruments Covered by this Document

2 Purpose of this Document

The document describes how to clean the heating system of your Pharma Test Instrument.

3 Cleaning the heating system

Every time you replace the water of your Pharma Test Instruments water bath you should clean the heating system and not only the water bath itself. This should be done at least one time a month.

If the instrument is not in use for days/weeks, you should always empty the water cycle (water bath / all tubes / the pump / the heater) from water. Press air in reverse direction through the tubing until all water (even water drops) is out of the cycle.

We recommend all the time to use Algex® in the water cycle to avoid the growing of algae.

If you empty the water bath, you should flush the heating system with clear water in reverse direction. Connect the heating system to a tap to do this.

You can also use a little amount of soap (2-3 drops) to support the cleaning procedure. It is important to flush the system sufficient to remove all soap relics from the system after cleaning. Flush the system with at least one whole volume of the bath to get it cleaned.

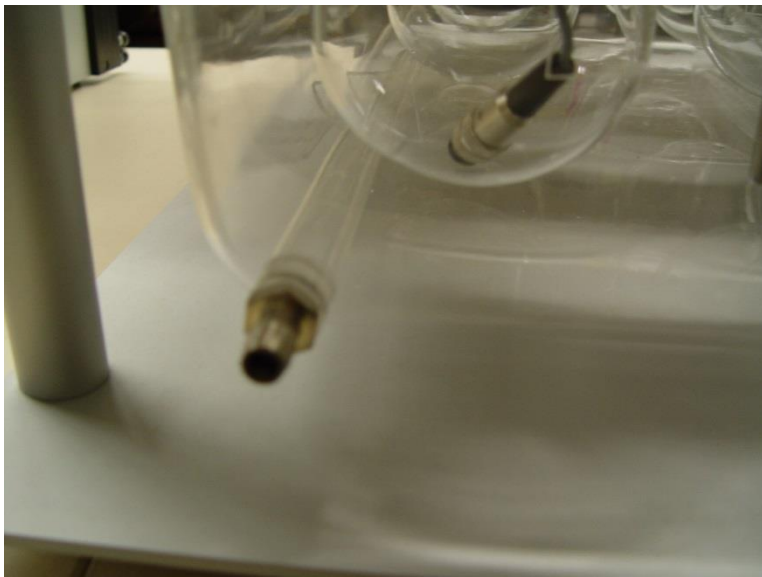
Open all quick snap couplings of your tubing and clean the couplings and the pipes as good possible from filaments and solids with a pipe brush and/or a pair of tweezers.



Instrument Type	All instruments with heaters
Document Name	Sxx-xxxxx_cleaning the heating system_V1.0e.docx
Revision No.	1.0
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Change	/



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After cleaning, refill the water bath with some liters of clear water, prime the pump and the tubing and let the system run for a few minutes. Remove this water, too. Repeat this step as often as necessary, especially if there is dirt in the dispensing water of the pump.

For any further assistance please contact
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