Test report

Client:	**hotun- RA Tech UK Ltd.**
Product:	**hotun hiflo dry trap tundish – product code hhw100c**
Tests Undertaken:	**Testing to determine the maximum flow rate before drain to atmosphere is compromised.**
Report Number:	**180199 (summary report)**
Date of Report:	**28th February 2018**
Authorised by:	**Simon Warburton Laboratory Director**
Test Technician:	**Steve McCann Senior Laboratory Technician**
Note:	***This is a summary of results contained in report 180199 rev. 1 dated 23rd February 2018. For full details of the testing undertaken, please refer to the full report.***

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1. EXECUTIVE SUMMARY

Client:	hotun – RA Tech UK Ltd.
Generic Product Type:	hotun hiflo dry trap tundish.
Summary:	hotun RA Tech UK Ltd contacted NSF Wales with a request for conducting testing of the hotun hiflo dry trap tundish to confirm that the product is capable of withstanding 18l/min flow. Hotun RA Tech UK Ltd asked for the testing to be conducted and started at 15l/min flow on a cold water flow rig and run at 2 minute intervals with increasing flow rates of 1 l/min until 18 l/min of flow was reached. After the 18l/min was reached and the flow is assessed the test was to continue in 0.5l/min increasing steps until max flow is identified at the point where drain to atmosphere is compromised. The results were obtained with no fittings or pipework connected to the lower part of the hotun hiflo dry trap tundish

2. TEST RESULTS

This section contains the results of all relevant tests as stated in correspondence with the customer and the flow rates agreed upon.

Note: inlet pressures were not recorded as they were not considered relevant to testing conducted.

Table of flow results at different intervals.

Flow	Comments
15.0l/min	Dealing with flow.
16.0l/min	Dealing with flow.
17.0l/min	Dealing with flow.
18.0l/min	More turbulence but not spilling over.
18.5l/min	Pulsing but not spilling over.
19.0l/min	Pulsing but not spilling over.
19.5l/min	Lot more turbulence and pulsing.
20.0l/min	Max flow drain compromised.

3. CONCLUSION

Upon testing the hotun hiflo dry trap tundish with 15mm inlet and 32mm outlet at the flow rates stated by the customer at 15.0l/min,16.0l/min and 17.0l/min the tundish was able to deal with the flow comfortably at 18.0l/min there was signs of turbulence but no spill over.

As the flow rate increased to 18.5l/min and 19.0l/min the water in the tundish started pulsing but was still able to cope with the flow it was being subjected to. At 19.5l/min and 20.0l/min the tundish started to struggle to cope with these flow rates and at 20.l/min the drain to atmosphere was compromised.