

HYSYS Stream Reporter Utility version 1.1, User Guide

James Martin, AEA Technology, Hyprotech, UK Technical Services

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1 Introduction

The HYSYS Stream Reporter (HSR) utility allows material stream conditions, properties and compositions to be easily reported onto a Microsoft Excel spreadsheet. It also enables streams in different cases to be conveniently compared.

HSR can report properties from the following phases: Overall, Vapour, Light and Heavy (/Aqueous) Liquid, Combined Liquid, and Solid. It also allows stream user variables to be reported.

HSR takes the form of an Excel spreadsheet file with embedded Visual Basic for Applications (VBA) code that demonstrates how HYSYS can be accessed programmatically. The VB source code is freely accessible and users are encouraged to learn from it and adapt it to their own needs.

HSR has been fully tested in versions 3.1.1, 3.2, 3.3 and 3.4 of HYSYS but should also work with previous and future versions. (See section 7 for information when using HSR with HYSYS versions other than 3.2). HSR was written using, and fully tested in, Microsoft Excel 97. It's use in Excel 2000 has not been fully tested at the time of writing.

1.1 Changes for version 1.0.1

Combined liquid phase properties now correctly reported. Version 1.0 had a bug where if a combined liquid phase property was selected above a light or heavy liquid property then every time a light liquid property was reported it actually corresponded to the combined liquid.

(Ideal) Liquid Volume flow property for individual phases now reported correctly, previously this reported *Std Liquid Vol Flow*.

Fixed minor bugs concerning deleting worksheets, unnamed (sub) flow sheets, and clarified some error messages.

1.2 Changes for version 1.0.2

Fixed a bug which meant that problems accessing a local/network drive prevented the Cases/Flowsheets/Streams lists being updated.

1.3 Changes for version 1.1

When switching between HYSYS versions, now checks to see if stored units match units available in HYSYS, and updates them if not.

2 Installation

No installation is required, simply copy the Excel spreadsheet file HSR.xls to a convenient location and double click it to open it in Excel.

3 Important Note

This Automation application has been created by Hyprotech Technical Support as an example of what can be achieved through the object architecture of HYSYS. The application is provided for academic purposes only and as such is not part of Hyprotech's normal QA.

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