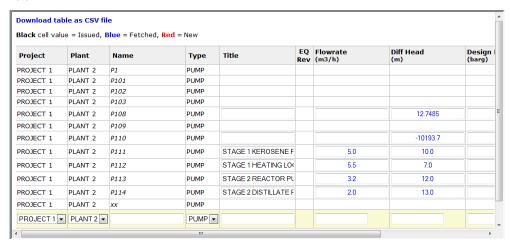


Part 2 - Equipment Lists

This short guide will show you how to use ProvueDB.Net Desktop Edition to create and maintain equipment lists.



Starting ProvueDB.Net

1. Click Start > All Programs > PEL > ProvueDB > ProvueDB.Net Desktop Edition.

The first thing we need to do is select a database to store the equipment lists. We will use the database we created in the Part 1 60 second guide.

2. In the top pane, select TutoriaIDB, enter your User Name and Password and click Equipment Lists.

We will now create a specification file. This file remembers all data items we want to retrieve from the database and how we want it listed – the column headers, units of dimension, etc. In fact everything except where the data is to be retrieved from.

3. Select **<Create new>** in the **Open** list and then enter a name for the specification file (such as pumps followed by your user id) and click **OK**.

We will restrict this equipment list to pumps.

4. Scroll down the list of equipment types and click **PUMP**.

The pane to the right lists the valid datasheets for a pump. We are going to select fields from the Process and Mechanical datasheets. The fields go blue when they have been selected.

- In the list of datasheets, click Process to show the Pump Process datasheet in the far right pane and click the Flowrate field on line 18 in column 1 and the Differential Head Across The Pump on line 46, column 1.
- In the list of datasheets, click Mechanical and click the fields Design Pressure and Design Temperature on line 12.

The last thing we want to do is to add meaningful names for the columns.

7. Scroll down to the **Selected Fields** list and add column names as follows:

Selected fields

Equipment	Datasheet	Field	Units	Column Name	
PUMP	Process	VOLFLOW1	m3/h	Flowrate	Û
PUMP	Process	HEADDIFFACROSSPUMP1	m	Diff Head	Û
PUMP	Mechanical	<u>DESPRESS</u>	barg	Design Pressure	Ū
PUMP	Mechanical	DESTEMP	С	Design Temp	Ū





That completes the specification so we now need to select the project(s) and plant(s) to supply the data. We don't have many options with this database but with a working database there could be many to choose from.

8. Scroll down to the **Selected Projects/Plants** list and select the **PROJECT 1 / PLANT 2 checkbox** and click **Show Results.**

ProvueDB retrieves the selected data fields from all the pumps in PROJECT1 / PLANT 2 and shows them in a spreadsheet.

We will now use Equipment Lists to add some more pumps to the database.

9. Below the last row of the table, enter a new pump, **P110** (or the next available number). Enter the data as shown below and then click **Save Changes** to add the data to the database.

Pump	Title	Flowrate	Diff Head	Design Pressure	Design Temp
P111	STAGE 1 KEROSENE RECIRCULATION PUMP	5.0	10.0	3.0	20.0

The values are initially in red as you add them, but change to blue when you click Save Changes.

10. Add four more pumps (with the next sequentially available numbers).

Pump	Title	Flowrate	Diff Head	Design Pressure	Design Temp
P112	STAGE 1 HEATING LOOP PUMP	5.5	7.0	2.5	22.0
P113	STAGE 2 REACTOR PUMP	3.2	12.0	2.0	37.0
P114	STAGE 2 DISTILLATE PUMP	2.0	13.0	2.0	37.0
P115	STAGE 2 EXTRACTION VESSEL PUMP	4.2	9.0	2.5	15.0

- 11. Click Back to Specification to close the spreadsheet and return to the Equipment List window.
- 12. Click the **Logout** button, select the same database, enter your password again and click **Datasheets** to open the Datasheets view.
- 13. Expand the tree-view to check that the pumps have been added successfully. Expand any of the pumps to see that a process and a mechanical datasheet have been added.
- 14. Click the **Tools** tab and click **Equipment Lists** to open in a new browser window.
- 15. In the Open list click your Pumps specification and click **Load**. Then click **Show Results** to get back to the spreadsheet view.

Now let's export the data as a CSV list and open in Microsoft Excel.

16. In the top left of the spreadsheet, click **Download table as CSV file**. Select all the text and then copy and paste into a text editor such as Notepad. Click **Save** and browse as required to save the file to your desktop as **MyPumps.csv**. Then click **Open** to open in Microsoft Excel.

This program is developed, maintained and supported by PEL Support Services, ABB. We run a Hotline telephone and email service to answer any queries about the PEL products. You can contact us:

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