

HC06 Database Editor

User Guide

To re-order quote part number:	HD0583
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Revision history

Revision No	Software Version	Date	Description of Change
1.0.0		Feb 2014	First release
1.1.0		June 2014	Sections 7.1 and 7.2, Mix log quick view added to Chapter 3

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1 Hydro-Control VI Database Editor

The Hydro-Control Database Editor is a customer utility designed to facilitate the interrogation, editing and restoring of Hydro-Control VI databases.

This software will only work with Hydro-control VI databases and is not designed for use with previous versions of the Hydro-Control.

This software permits the user to:

- View and configure the system parameters
- View mix traces and display as a graph
- View, edit, delete and create user accounts
- View and edit recipes
- Restore a Hydro-Control VI database to default factory settings

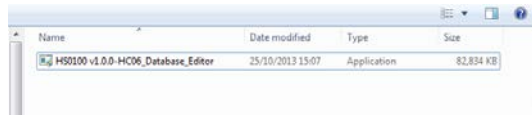
Databases displayed using the Hydro-Control VI Database editor will be automatically upgraded to the latest version. This will not cause problems when it is loaded back to the Hydro-Control; however it is recommended that the Hydro-Control software is upgraded to the latest version. Updates are available at the Hydronix web site www.hydronix.com. See the Hydro-Control VI installation guide HD0455 for guidance on updating the software.

1 For Windows XP and 7 operating systems

Note: The Hydro-Control VI Database Editor will not run on the Windows Vista operating system.

The Hydro-Control VI Database Editor can be downloaded from the Hydronix web site www.hydronix.com

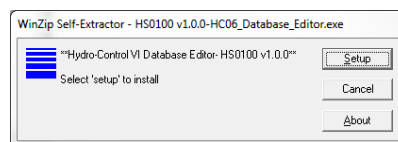
After down-loading the software select the application (This process may start automatically).



Select 'Yes' if prompted to allow the program to make changes to the computer.

Depending upon the software on the computer the installation may request the permission to install additional software, select agree/ yes if prompted.

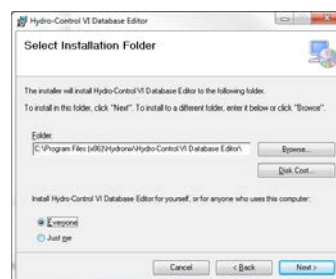
Select 'Setup' to initiate the installation



The setup wizard will now start the installation, select next.



The setup wizard will install the program in the folder shown, to change this location select browse. Select next and again on the confirm installation screen.



The software will now be installed.

Depending upon the computers current system set-up this process may take several minutes to complete.

Hydro-Control VI Database editor is separated into several tabs making it easy to interrogate and update the Hydro-Control VI database.

1 Launch screen

The launch screen is displayed when the software is first loaded (Figure 1). The open database button is available to load a suitable database. See Chapter 4 for more information about creating the database files required.

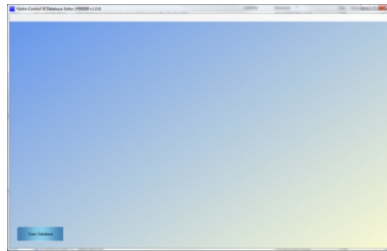


Figure 1: Launch screen

2 Main screen

Once the database has been loaded, the main screen will display the System parameters, Mix log, Users and Recipes tabs (Figure 2). This gives access to all of the Hydro-Control VI database settings.

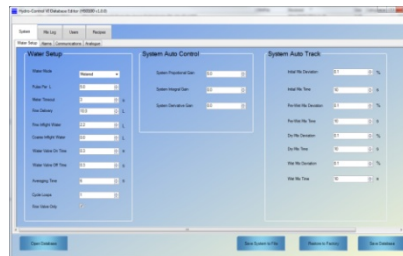
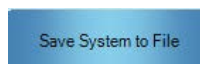


Figure 2: Main screen

2.1 Save System Settings to File

The system setting can be converted to a text file. This is achieved by clicking the Save System to File button.



2.2 Restore to Factory

The restore to factory button will restore the Hydro-Control VI database to its factory defaults.

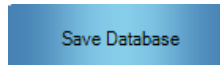


Warning:

The system settings will revert back to the factory defaults. In addition all user accounts, mix logs and recipes will be deleted. A default recipe will be created.

2.3 Save Database changes

To save any changes to the database click the Save Database button.



3 System Tab

The system tab is divided into 4 screens providing access to the Water Setup, Alarms, Communications and Analogue settings. These are the main system settings for the Hydro-Control VI (Figure 3). They are arranged in a manner to match the Hydro-Control VI system set up screens.

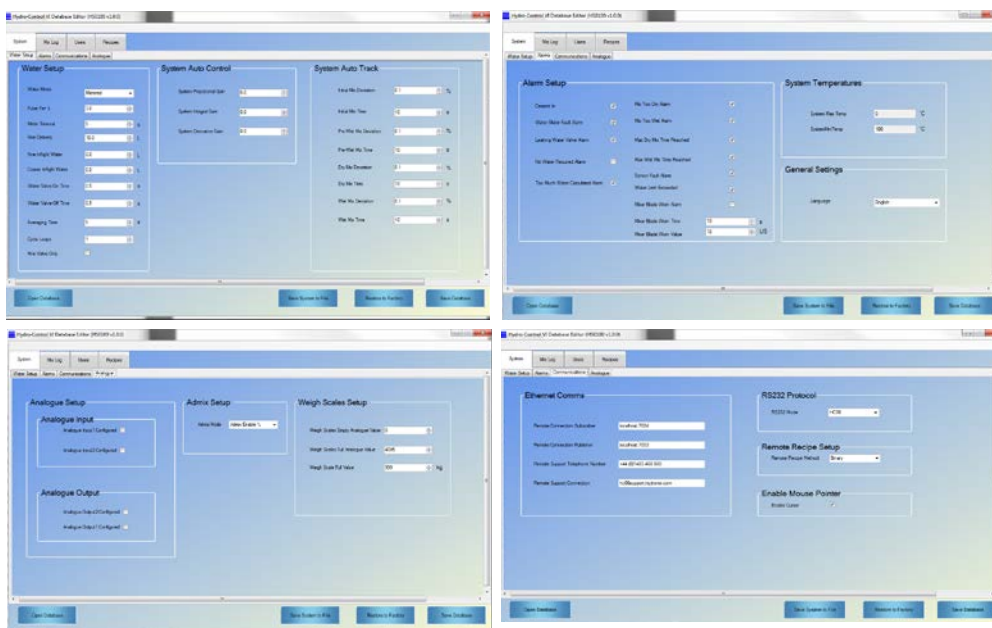


Figure 3: System Tab screens

4 Mix Log Tab

The Mix Log tab contains all of the mix logs from the Hydro-Control VI; they are displayed in a data grid form.

Date/Time	Pump Number	Speed	Status	Control Method	Auto-Tank Inlet	Auto-Tank Outlet	Auto-Tank Inlet	Auto-Tank Outlet	Auto-Tank Inlet	Auto-Tank Outlet	Auto-Tank Inlet	Auto-Tank Outlet
08 October 2016 08:08:16	1	4387	Present	Calculation								
08 October 2016 08:53:05	1	4388	Present	Calculation								
08 October 2016 08:57:53	1	4389	Present	Calculation								
08 October 2016 09:02:44	1	4390	Present	Calculation								
08 October 2016 09:07:38	1	4391	Present	Calculation								
08 October 2016 09:12:25	1	4392	Present	Calculation								
08 October 2016 09:17:19	1	4393	Present	Calculation								
08 October 2016 09:21:59	1	4394	Present	Calculation								
08 October 2016 09:27:16	1	4395	Present	Calculation								
08 October 2016 09:32:03	1	4396	Present	Calculation								
08 October 2016 09:36:44	1	4397	Present	Calculation								
08 October 2016 09:41:27	1	4398	Present	Calculation								
08 October 2016 09:46:19	1	4399	Present	Calculation								
08 October 2016 09:51:09	1	4400	Present	Calculation								
08 October 2016 09:55:27	1	4401	Present	Calculation								
08 October 2016 07:08:14	1	4402	Present	Calculation								
08 October 2016 07:10:42	1	4403	Present	Calculation								
08 October 2016 07:13:19	1	4404	Present	Calculation								
08 October 2016 07:16:43	1	4405	Present	Calculation								
08 October 2016 07:19:22	1	4406	Present	Calculation								
08 October 2016 07:24:09	1	4407	Present	Calculation								

Figure 4: Mix Log Tab

4.1 Save Mix Logs to File

The mix logs in the database can be converted to a .TXT or CSV (Excel) file type. Select the file type required using the drop down menu. Click the Save to File Button, all mix logs will be saved to one file.

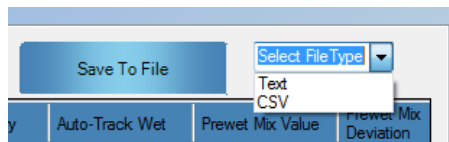


Figure 5: Save mix logs to file type selector

5 Users Tab

The Users tab contains a list of all of the users accounts set up on the Hydro-Control VI and provides the facility to add and remove accounts (see Section 5.1).

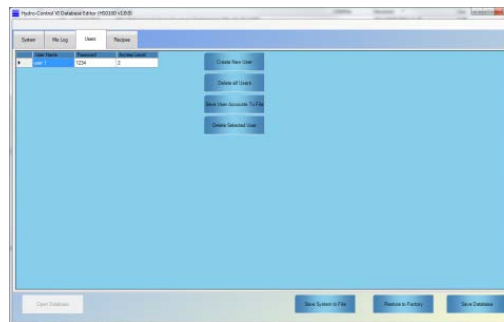


Figure 6: User accounts Tab

5.1 Create/Delete user accounts

To add or delete a user account a password is required

To create an account select "Create New User"

Enter the password "0336".

The create new account section will now be available (Figure 7).

Note: if no accounts exist the first added account must be given an access level of Administrator. The access level will be set to administrator automatically.

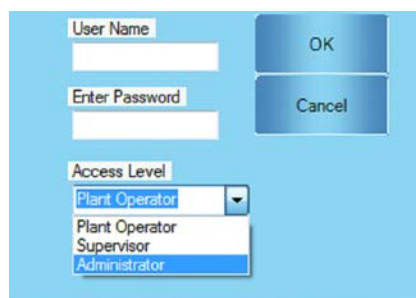


Figure 7: Create new user account

To delete a user account, select it in the list and press “Delete Selected Account”.



Enter the password “0336”.

5.2 Save user accounts to file

All user account in the database can be converted to a .TXT file for reference. Click the Save User accounts to File button to create the file.



6 Recipes Tab

This Tab contains a list of all of the recipes that are in the Hydro-Control VI database.

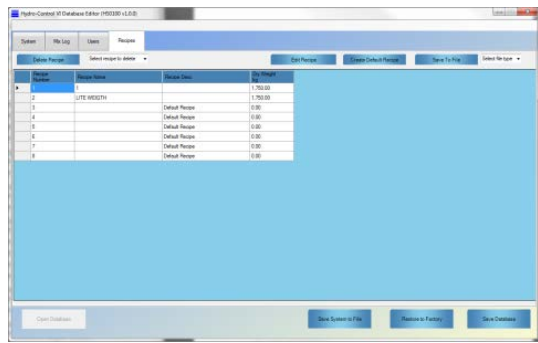


Figure 8: Recipes Tab

6.1 Save Recipes to file

The recipe database can be converted to a .TXT or CSV (Excel) file type. To convert the recipe database select the file type required from the drop down menu and click the Save to File button. All the recipes will be saved to one file.

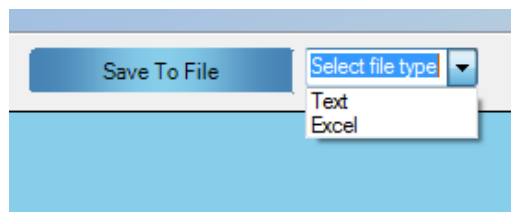


Figure 9: Save Recipe Database to File

6.2 Edit recipe

To edit a recipe double click the required row or select the recipe in the list and press Edit Recipe.



The edit recipe form will now open (Figure 10).

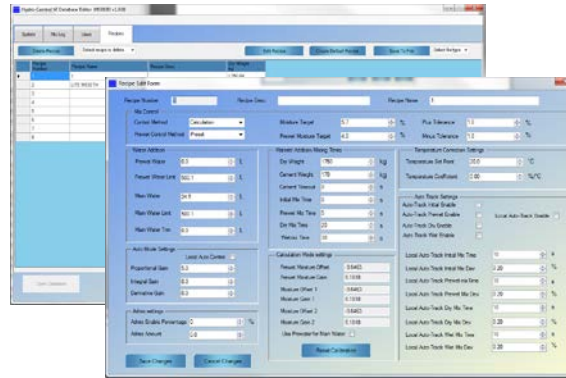


Figure 10: Recipe edit screen

6.3 Delete Recipe

To delete a recipe select the recipe number using the drop down menu and press the Delete Recipe button.

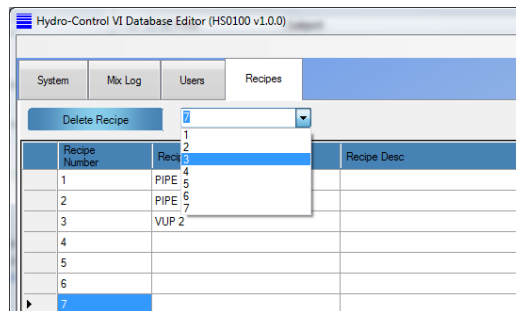


Figure 11: Delete Recipe

7 Mix Trace screen

This screen is accessed through the Mix log tab and displays a graphical representation of a selected mix trace to facilitate the analysis of the mix (Figure 12).

To open the graph, double click on the required mix log. The graph can display the mix log in Unscaled or Moisture% values. Up to two mix traces can be view at any time.

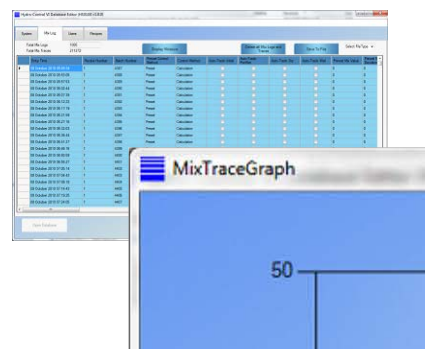


Figure 12: Mix Graph

The current mix action is displayed on the graph by selecting “Display action changes”. Additionally the moisture/Unscaled target value can also be displayed by selecting “Display Target”, shown as a red line (Figure 13).

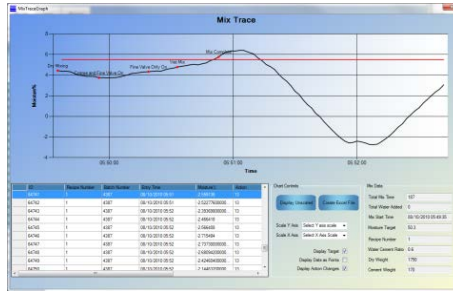


Figure 13: Current Action and Target

To display the current action for an individual data point single click on the data point in the data grid. The value will be displayed on the graph in green. To remove from the graph double click the point in the data grid (Figure 14).

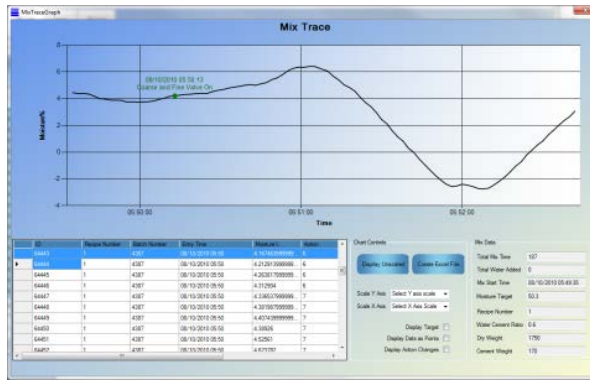


Figure 14: selected current action

7.1 Mix Trace quick View

To open a quick view graph of a mix log, right click the 'EntryTime' column.

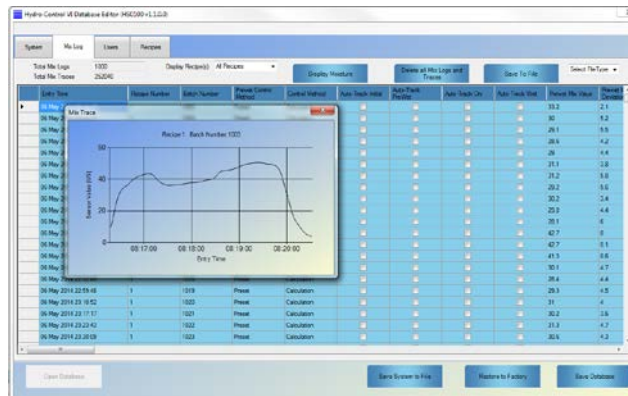


Figure 15: Quick View Mix Trace

7.2 Filter displayed recipes

Using the Display Recipes selection box it is possible to only display mix logs from a specific recipe. Select the required recipe from the drop down menu and all other recipes will be removed from the data table.

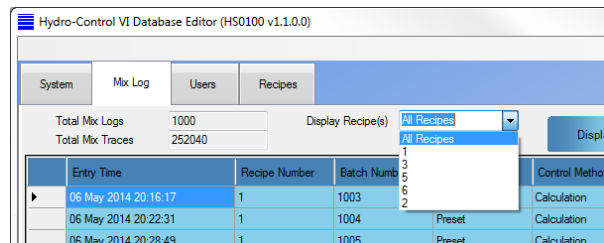


Figure 16: Display Recipe selection Box

1 Creating a back-up database

To use the Database Editor a back-up of the Hydro-Control VI database has to be completed first.

1.1 Backing up the database

To back up the Hydro-Control VI database install a USB memory stick into the side of the Hydro-Control VI.

Select Menu from the Hydro-Control VI overview screen.



Figure 17: Hydro-Control VI Overview screen

Select System Parameters.

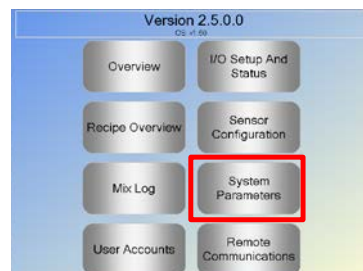


Figure 18: Hydro-Control VI Main Menu

On page one of the system parameters, select Backup/Restore. A message box will be displayed, select Backup. The unit will now create an SDF file saved to the root of the memory stick.

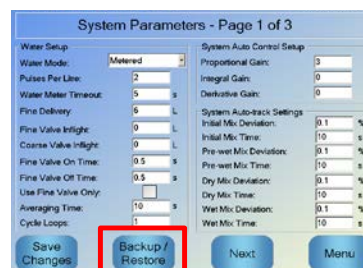


Figure 19: Hydro-Control VI System Parameters screen

For details about the back-up process see the Hydro-Control VI installation guide HD0455 and the Hydro-Control VI user guide HD0456.

2 Load the database

Start the database editor software and the load screen will be displayed (Figure 20).

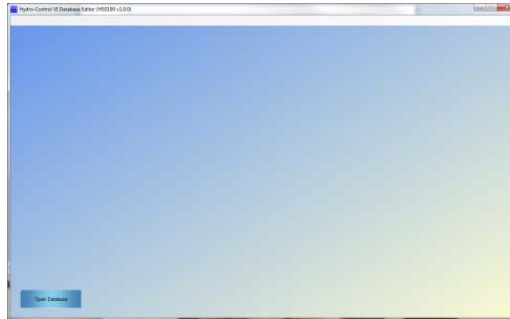


Figure 20: Load database screen

Click Open Database and the message box will ask for a file to open. Select the "HC06Database.SDF" file. The database reader will only open HC06Database.sdf files. The Database editor will now check the database and populate the screens.

3 Restore Database to the Hydro-Control VI

To restore the Hydro-Control VI with the edited database switch on the Hydro-Control VI and insert the USB memory stick into the side of the unit.



Select Menu from the overview screen.



From main menu select System Parameters.

On page one of the system parameters, select Backup/Restore. The Hydro-Control VI will ask if you want to backup or restore. Select restore and the unit will re-boot.

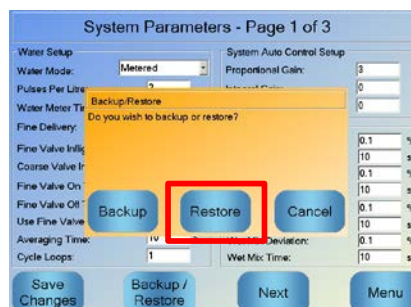


Figure 21: Backup/Restore selector

1 Document Cross Reference

This section lists all of the other documents that are referred to in this User Guide. You may find it beneficial to have a copy available when reading to this guide.

Document Number	Title
HD0455	HC06 Installation Guide
HD0456	HC06 Operators Guide

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