System Requirements

OS:

Windows: 32/64-bit 7/8/10/11
Linux: 32/64-bit Wine-supported (https://www.winehq.org)

Software:

Microsoft .NET Framework 4.6.2 or newer (Windows)
Mono Framework 6.8.0 or newer (Linux)
Wine 3.0.3 or newer (Linux)

CPU:

1.0 GHz dual-core processor (minimum)

Memory:

2 GB RAM

Graphics Card:

128 MB with OpenGL hardware acceleration

Display:

1280x800 display resolution is recommended as a minimum

Disk space:

750-2000 MB for program files

1 The procedure to install DWSIM on Windows OS

1. Please make sure that you meet the system requirements to be able to download and install DWSIM.

2. Open your default web browser.

3. In the address bar, type the following URL and press Enter.
   `https://sourceforge.net/projects/dwsim/`

4. Click on **Download** button.

5. The .exe file for the latest version of DWSIM gets downloaded and saved in the Downloads folder. Currently, it is version 8.4.3.

6. Go to Downloads folder and double click on .exe file.

7. In User Account Control window, click **Yes**.

8. In Installer Language window, English is displayed. Click **OK**.

9. DWSIM 8.4.3 Setup window appears. Click **Next**.

10. In License Agreement section, click on **I Agree**.

11. Click on **Next**.

12. In Select components to install field, select ALL the components including **Microsoft WebView2 Runtime, ChemSep 8.32, CAPE-OPEN Type Libraries, Register Type Libraries** and click **Next**.

13. In the Destination Folder, change the path to **C:\Program Files\DWSIM**.

14. Ensure that the new destination is displayed as **C:\Program Files\DWSIM**.

15. Click on **Next**.

16. Click on **Install**.

17. Wait for a few seconds for the installation to complete and **ChemSep 8.32 LITE Setup** window to appear.

18. In **ChemSep 8.32 LITE Setup License Agreement** section, click on **I Agree**.

19. Click on **Next**.

20. Click on **Next**.

21. Click on **Install**.

22. Click on **Next**.

23. Click on **Finish**.

24. Click on **Next**.

25. Under **CAPE-OPEN libraries**, check the Accept License Agreement check box.

26. Click on **Next**.

27. Click on **Next**.

28. Click on **Install**.

29. Click on **Finish**.

30. Click on **Next**.

31. Click on **Finish**.

32. DWSIM is successfully installed.

2 The procedure to install DWSIM on Linux OS

1. Please make sure that you meet the system requirements to be able to download and install DWSIM.

2. Open your default web browser.

3. In the address bar, type the following URL and press Enter.
   `https://sourceforge.net/projects/dwsim/`

4. Click on **Download** button.

5. The .deb file for the latest version of DWSIM gets downloaded and saved in the default Downloads folder. Currently, it is version 8.4.3.

6. Install Mono Framework version 6.8.0 or newer
   `https://www.mono-project.com/download/stable/#download-lin`

7. Follow the instructions given in the section and add the Mono repository to your system based on your OS version.

8. Once the Mono repository is added to your system, open the terminal by pressing Ctrl + Alt + T keys together.

9. Change the directory using cd command to the location where the downloaded dwsim_8.4.3-amd64.deb file is saved. For example, **cd Downloads**

10. Type the below command and press enter
    sudo gdebi dwsim_8.4.3-amd64.deb

11. In the terminal, type **dwsim**.

12. If DWSIM opens on your machine, then this means that DWSIM is successfully installed.

NOTE: This installation of DWSIM doesn't support use of Chemsep Distillation Column. To use Chemsep Distillation column in Linux OS, download the file DWSIM-wine_v843.7z. Unzip the file and follow the instructions mentioned in the Readme file.

3 Checking the installation

1. To check the software installation, please follow these steps:

2. For Windows: Go to DWSIM, right click on it and select "Run as administrator"
   For Linux: Open a command terminal by pressing Ctrl+Alt+T and type "dwsim-classic"

3. In Welcome to DWSIM window, click on the Samples under Quick Access.

4. Click "Carbon Combustion.dwxml".

5. Maximize the flowsheet window.

6. Now press Solve Flowsheet button.

7. Following message should be displayed after solving the flowsheet "The flowsheet was calculated successfully".

4 Resources to learn DWSIM

1. **Spoken Tutorials**: `https://spoken-tutorial.org/tutorial-search/?search_foss=DWSIM&search_language=English`

2. **DWSIM Flowsheeting Project**: `https://dwsim.fossee.in/flowsheeting-project/completed-f`

3. **DWSIM Textbook Companion Project**: `https://dwsim.fossee.in/textbook-companion/completed-books`

4. **DWSIM Forum**: `https://forums.fossee.in/filter/dwsim/`

5. **Spoken Tutorial Forum**: `https://forums.spoken-tutorial.org/filter/DWSIM/`