

# HVACalc V1.1

## Psychrometric, and velocity pressure calculator.

### Instructions on Use:

Double click on the HVACCalc icon in the Eclipse Program Manager Group.

#### Setting Temperatures

Use the scroll bars to change the dry and wet bulb temperature values. By clicking the scroll bar buttons, the temperatures change in increments of 0.1 Celsius. By clicking between the buttons and the scroll bar position marker, the temperatures change in increments of 1 Celsius. It is also possible to drag the scroll bar position markers with the mouse for large temperature changes.

#### Other information shown

The following data is updated when the temperatures are changed and the mouse buttons are released.

|                     |  |
|---------------------|--|
| Saturation          | % saturation.  |
| Enthalpy            | kJ/kg  |
| Moisture Content    | g/m <sup>3</sup> (grammes of moisture per cubic metre) |
| Moisture Content    | kg/kg * NEW ADDITION *                                 |
| Dew Point           | Celsius * NEW ADDITION *                               |
| Barometric Pressure | kPa  |
| Velocity Pressure   | Pa   |

The velocity pressure calculator is useful when sizing velocity probes for ducts. The standard barometric pressure of 101.325 kPa can be changed via the keyboard, and later restored to it's original value by pressing the **Default Reset** button.

#### Copy calculations to Windows' clipboard

By selecting either **Psych** or **Veloc**, from the **Copy** menu, the Psychrometric or Pressure calculations respectively can be copied to the windows clipboard for use in other applications. Most "good" windows applications can paste the contents of the clipboard by pressing <Ctrl>-v together.

#### Printing calculations

Select the **File** menu, and select the **Print** sub menu. HVACCalc will send the current set of results to the default printer. The output is restricted to text only, as this provides maximum compatibility with the widest range of printers.

#### Source of calculations

Calculations have been derived from those available in the British CIBSE (The Chartered Institute of Building Services Engineers) Guide, Volume C, Reference Data, section C1.

### Registration:

This software is FREeware.

If you would like any more information then you can contact me on:

**eclipse@dial.pipex.com**

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