PsycPro Software Instructions

Version	2.1		
Created by	Louis-Philippe Rouillard	**Date**	09/12/2018
Reviewed by	Steve Steyn	**Date**	04/08/2014

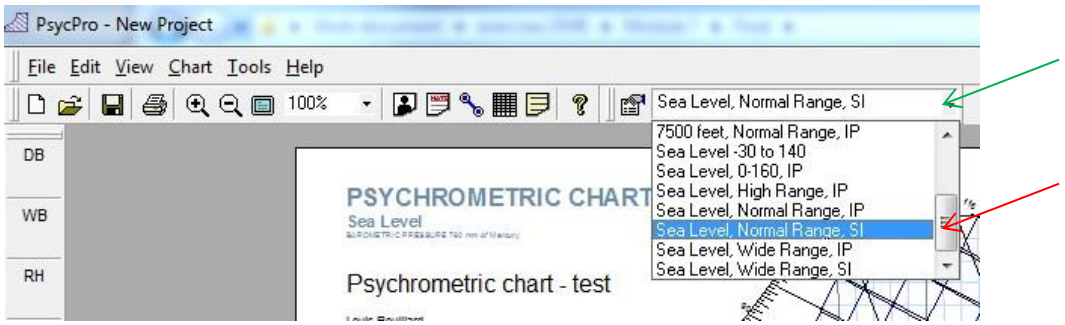
Instructions for Using the PsycPro Software Program

1. Initial Setup:

- Log on to the remote labs:
  - PsycPro should be installed on RL 2, 4 and 8.

    If you cannot access the software at this location, please contact your LSO for further assistance.
- Open PsycPro:
  - The PsycPro icon is located on the desktop.

- Make sure that you select the correct units:
  - Select 'Sea Level, Normal Range, SI' from the drop-down menu on the tool bar.



2. How to place a State Point:

- Select the icon for the 'Edit State Point'.
- In the 'Choose Action' drop-down menu, select 'Add State Point'.
- Enter the point details.
- Click 'Apply' to confirm.

3. How to Connect Points:

- Select the icon 'Edit State Point'.

  - In the ‘Choose Action’ drop-down menu, select ‘Connect State Point’.
  - Select the point and/or enter the details of the point your wish to enter.
  - Click ‘Apply’ to confirm.
- Select the other options (mixing box, cooling coil, heating coil) if required and proceed in a similar way as described above.

4. **How to Delete a Point:**
   - Select the icon ‘Edit State Point’.
     - Next to the ‘Choose Action’ drop-down menu, click delete.

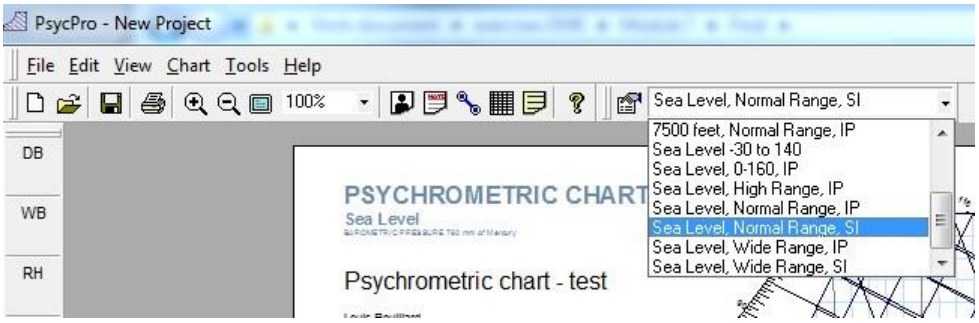
5. **How to Add Notes:**
   - Right click where you want to add your note and select ‘Add Note’.
   - To edit the note:
     - Right click on the note.
     - Select edit and proceed to edit.
   - Similarly, you can delete your note or proceed to more advanced editing.
   - To move your note simply click and drag.

6. **How to Add Your Personal Details and Project Title to the Chart:**
   - Select ‘Tool’ from the top menu.
     - Under the general tab, select your personal details and make sure to select the option you wish to include on your chart.
     - Select the ‘Chart’ from the top menu.
     - Then, add personal information. Click and drag your personal information where you want it on the chart.
   - Similarly, select the project information from the ‘Chart’ menu to place the title on the chart. Then edit the title.

7. **How to save as PDF:**
   - Select ‘Save as PDF’ from the File menu located on the top left-hand corner.

8. **Example:**

(Replace all values with values specific to the assignment) Set to: Sea Level, Normal Range, SI

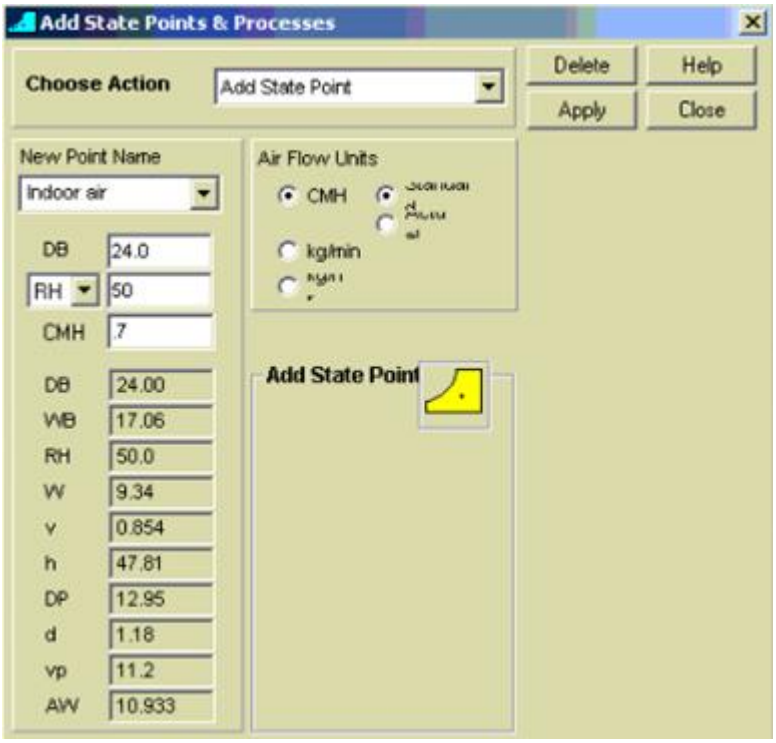


Create Points and Reactions of a System/Process:

Indoor air; Outdoor air; Mixed air (mixed box); Cooled air (cooling coil), and Supply (heating coil).

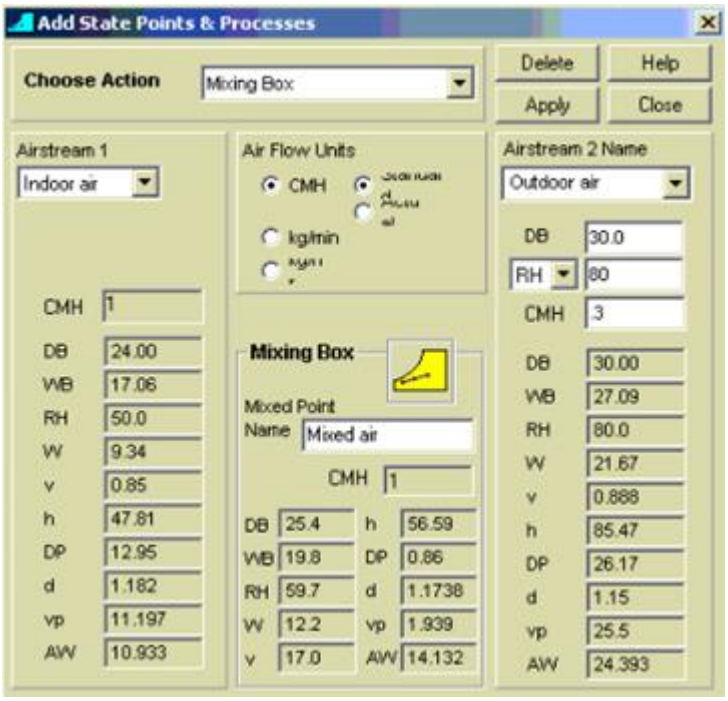
- Create **Indoor air point** using the "add State Point" action where (Apply when done):

  Dry Bulb (DB) Temp = 24°C | Relative Humidity (RH) = 50% | Air flow (CMH) = 0.7 of total (70% of mix):



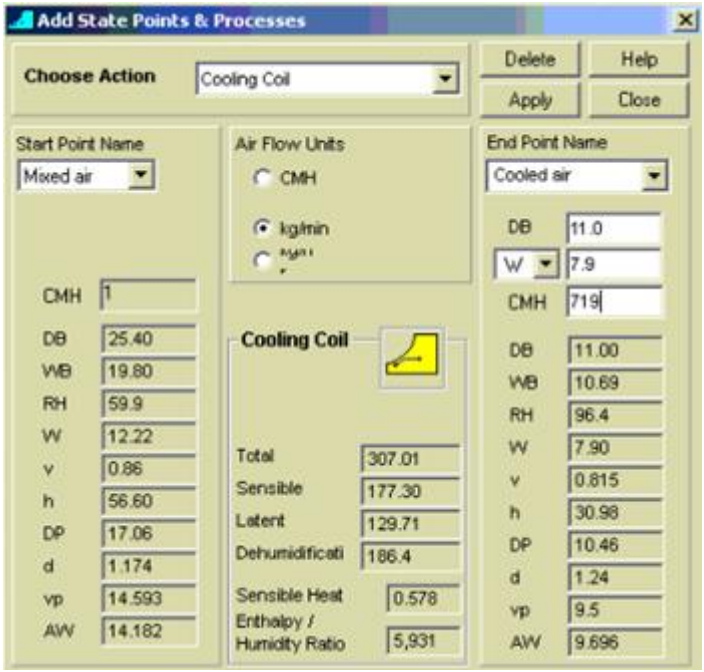
- Create **Mixed Box** using the "Mixing Box" action. Enter the "Airstream 2 Name" as **Outdoor air** and "Mixed Point Name" as **Mixed air** - where:

  Outdoor air Dry Bulb (DB) Temp = 30°C | Relative Humidity (RH) = 80% | Air flow (CMH) = 0.3 of total (30% of mix):



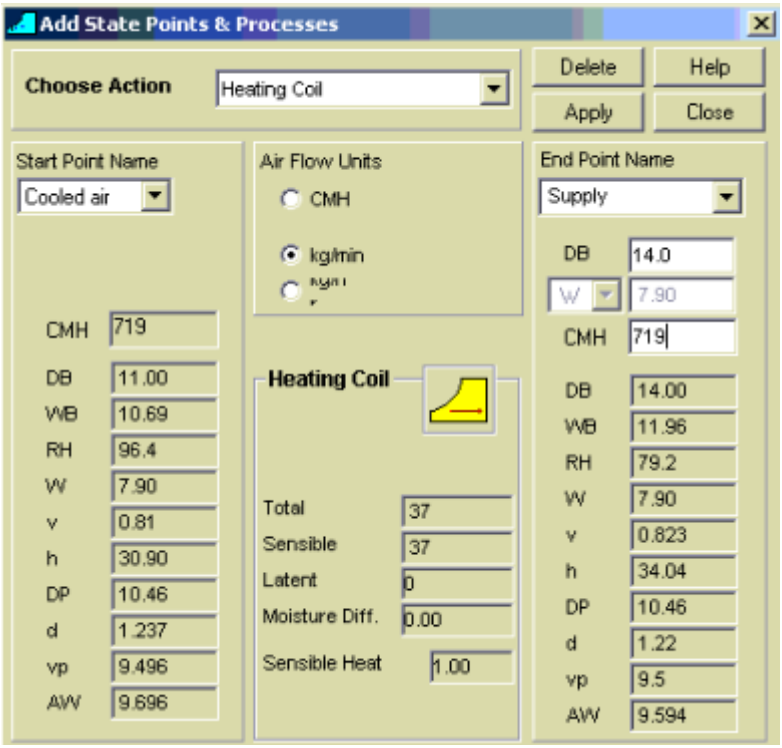
Create **Cooled air** using the "Cooling Coil" action. Enter the "End Point Name" as **Cooled air** - where:

Cooled air Dry Bulb (DB) Temp = 11°C | Humidity Ratio (W) = 7.9 g/kg (1000g/kg = kg/kg) | Air flow (CMH) = 719 kg/min (60 * X kg/s):



- Create **Supply** using the "Heating Coil" action. Enter the "End Point Name" as **Supply** - where:

Supply Dry Bulb (DB) Temp = 14°C | Humidity Ratio (W) = 7.9 g/kg (1000g/kg = kg/kg) | Air flow (CMH) = 719 kg/min (60 * X kg/s):



PSYCHROIVETRIC CHART