

To convert a non SI-unit To SI-unit value :

Always the input values may not be SI units so, a package called units where some frequently used non-SI units are defined and also their conversion to SI units are also defined

Since all the calculation in present simulator are carried in SI units ,to do that we need to call the function to convert the non-SI unit value to SI unit value shown as below and for the functions to work in the give model “*import units.*;*” should be included before using the function

```
import SI = Modelica.SIunits;  
import units.*; //importing units package  
Real a= from_atm(1); // to convert 1atm to 101325Pa
```

To display a Non-SI unit value at output panel:

To get the required unit at the output use the command displayUnit as shown below

```
Real Pin(unit = "Pa", min = 0, start =Pg,displayUnit="bar");
```

NOTE: For getting the dropdown for cooler then one have to include displayUnit command ,

Use it in “Simulator.UnitOperations.Cooler” at the quantity where the dropdown is required