



## Vapor Fraction Specification in Inlet and Flash Blocks

**Inlet** and **Flash** blocks now have the ability in ProTreat Version 6.5 to specify the vapor fraction of a stream. This allows for either the temperature or the pressure of the resulting stream to be calculated depending on the specifications. Figure 1 shows the dialog for the **Inlet** block where either temperature and vapor fraction or pressure and vapor fraction can be specified.

**Fraction** or a **Pressure and Vapor Fraction** specification by selecting the desired option from the drop-down menu for **Flash Type**.

Figure 1. Dialog of Inlet Block with Vapor Fraction

The **Vapor Fraction** specification makes it very quick to calculate either the bubble point or the dew point for any given composition.

Similar to the **Inlet** block, the **Flash** block also has the **Vapor Fraction** specification, as shown in Figure 2. It can be either a **Temperature and Vapor**

Figure 2. Dialog of Flash Block with Vapor Fraction

**PROTIP:** By using the Vapor Fraction specification in an **Inlet** block, you are now able to quickly generate vapor-liquid equilibrium data points as well as generate the data needed to create phase envelopes. This can be done by running a range of points and generating the curve with the output using the graphing feature of Excel.

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