



Issue 15 The information hub is designed to provide - mainly technical - information relating to Water Coolers and Boilers, to assist you with your work

“Pressure Build Up In Your Direct Chill Tank”

Eliminating Problems Due To Pressure Build Up In Your Direct Chill Tank Using A Shock Absorber Or Pressure Relief Valve

Fitting a Pressure Relief Valve to a Direct Chill Tank is the traditional way of dealing with a pressure build up in a Direct Chill Tank, by venting into a Drain or Drip Tray.

This system fails to work in situations where there is no Drain or Drip Tray available, such as Undersink Chillers, or where the Drip Tray is small and would have to be emptied very regularly when the Cooler is in high use (when pressure build up is at its maximum).



It is for situations like this that we at AA First are including a Shock Absorber System with our UC800 Undersink Chillers and ArcticRevolution 75/75B Water Coolers. The Shock Absorber consists of a sealed chamber with a flexible membrane. It is connected to the top of the Direct Chill Tank and when the water pressure inside the Tank builds up, the flexible membrane which is inside the Shock Absorber expands to reduce the pressure in the Tank. The membrane will relax again when the pressure declines.

The AA Shock Absorber is unfortunately a more expensive solution than the traditional Pressure Relief Valve, which is the reason why it is only used in critical areas.

