



### Non Intercooled

At times, more commonly with refrigeration units, interstage gas cooling may not be necessary due to low discharge temperatures from the low gas k-value. Operating without an interstage gas cooler can be done with special considerations.

The suction temperatures to each stage, and mean cylinder gas temperatures must be limited as noted in the [Suction Temperature](#) topic.

All considerations for condensation must be reviewed and confirmed to avoid condensation at the interstage. Condensate considerations include periods of shutdown / cool down and compressor cylinder lube oil carry over. Interstage liquid removal should be considered.

A bottom suction cylinder arrangement may be possible on some applications to allow interstage piping routing from the top of one stage to the top of the next stage, avoiding areas that can trap liquids on the interstage.

All non-intercooled applications must be reviewed and approved by Ariel Mount Vernon prior to quotation.