



## Suction Temperature

Ariel Compressor Performance Software flags suction temperatures at the following levels:

- Low Suction Temperatures below -40 F (-40 C)
- High Suction Temperatures above 250 F (121 C)
- Mean Gas Temperature (suction plus discharge / 2) above 285 F (140 C)

Ariel compressor applications with suction temperatures below 0 °F (-18°C) should be reviewed by Ariel Applications Engineering. Ariel will review these selections to confirm the gas properties.

Ariel does not limit services based upon low ambient temperatures.

Please refer to the [Packager Standards Section 6, Lubrication](#), for frame oil heating requirements for starting and loading purposes.

All low suction temperature applications should be reviewed for gas condensates. Refer to [Gas Method](#). High suction temperature and mean gas temperature limitations are applied due to limitations on the non-metallic wear materials within the cylinder.

### NOTE:

There is a potential for o-rings to lose flexibility while at lower temperatures, at or below -10 F (-23 C). This temporary loss of flexibility may result in potential gas release at the o-ring sealing joints on the cylinders when under pressure. The lower temperatures occur with either low inlet gas temperatures during operation or low ambient temperatures during idle periods. If the gas release is of concern, it is recommended that the unit be allowed to warm up in a relatively unloaded state (low or no gas pressure and start up bypass line fully open) until the equipment reaches warmer temperatures.