

This form provides supplemental information for: **Cold Weather Operation of Type 30 Products**

● PURPOSE

This supplement applies to all two-stage air compressor products. It contains information regarding the operation of your unit in cold weather conditions. The information contained herein supplements the information contained in the product literature provided with your unit when shipped.

● INSTALLATION

- T30 compressors should be installed where ambient temperatures are between 32°F and 100°F (0°C and 37.8°C).
- Crankcase heaters should be installed whenever the compressor is operated in ambients below 32°F (0°C).

● LUBRICATION

NOTICE

Use of high viscosity lubricants in low temperature ambients can overload / burn out motors and / or damage the compressor.

Please adhere to the following guidelines.

- Consult factory for use of synthetic lubricants in ambients below 32°F (0°C).
- Non-detergent petroleum lubricating oil containing only rust, oxidation and anti-foaming inhibitors can be used in all Type-30 air compressors (exception: HP1000 and 20H40NG compressors).

The petroleum-based lubricant viscosities given in the following table are intended as a general guide only. Heavy duty operating conditions require heavier viscosities. Where borderline temperature conditions are encountered, the viscosity index of the oil should be considered. Always refer your specific operating conditions to your lubricant supplier for recommendations.

Ambient Temperature Range	Viscosity @ 100°F (37.8°F)		Viscosity Grade	
	SUS	Centistokes	ISO	SAE
40°F (4.4°C) & below	150	32	32	10
40°F to 80°F (4.4°C - 26.7°C)	500	110	100	30
80°F to 125°F (26.7°C - 51.0°C)	750	165	150	40

Table 1. Viscosity for Petroleum-based Lubricants.

● GENERAL

- When operating compressors in ambients below 32°F (0°C), the compressor control valves, pressure relief valves, regulators and drain valves must be protected against freezing.
- Starting torque is critical for cold weather starts. Remember that a 10% drop in supply voltage will reduce starting torque by 19%.