

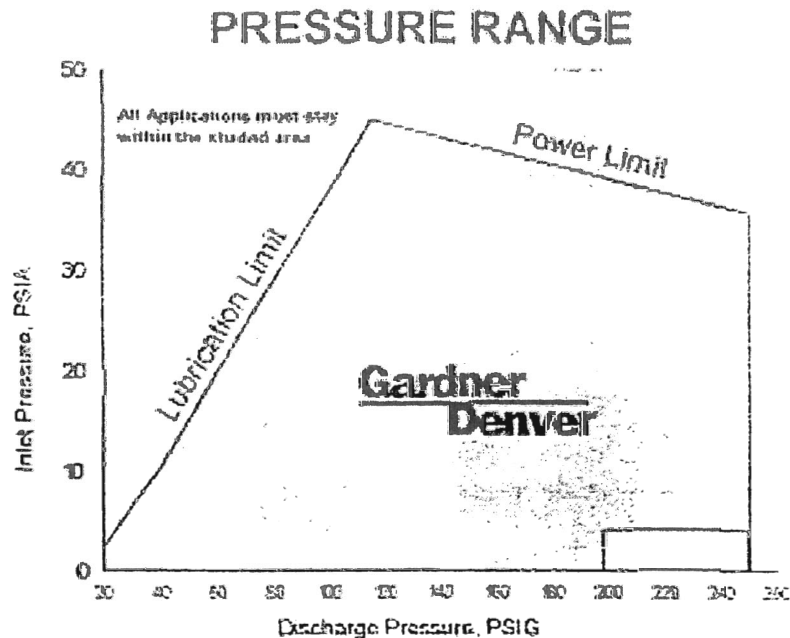


FIGURE 1-2 – PRESSURE RANGE

valve can be manually locked in a set position to match flow requirements or driver horsepower.

**OPERATING PARAMETERS** – Operating conditions must fall within the parameters shown in FIGURE 1-2.

#### OPERATING TEMPERATURES

Operating temperatures on an oil flooded screw compressor are generally limited by four factors:

1. Discharge temperatures must stay above dew point, no water can be allowed to condense in the system.

Heavy hydrocarbon must also be removed by setting oil system temperature high enough to keep the gas in vapor state. See GDMI or OEM Pack-

ager for recommendation on oil and system temperature.

2. Discharge temperature must not exceed lubricant capabilities to withstand oxidation.
3. The lubricant viscosity at injected temperatures must be adequate for proper bearing lubrication.
4. Maximum temperature must not exceed safe operating temperatures for that fluid.

FIGURE 1-3, page 3 shows recommended discharge temperatures to avoid condensation.

Bearing life is affected by oil viscosity. It is recommended that viscosity not be allowed to go below that which gives 90% of the full bearing life.

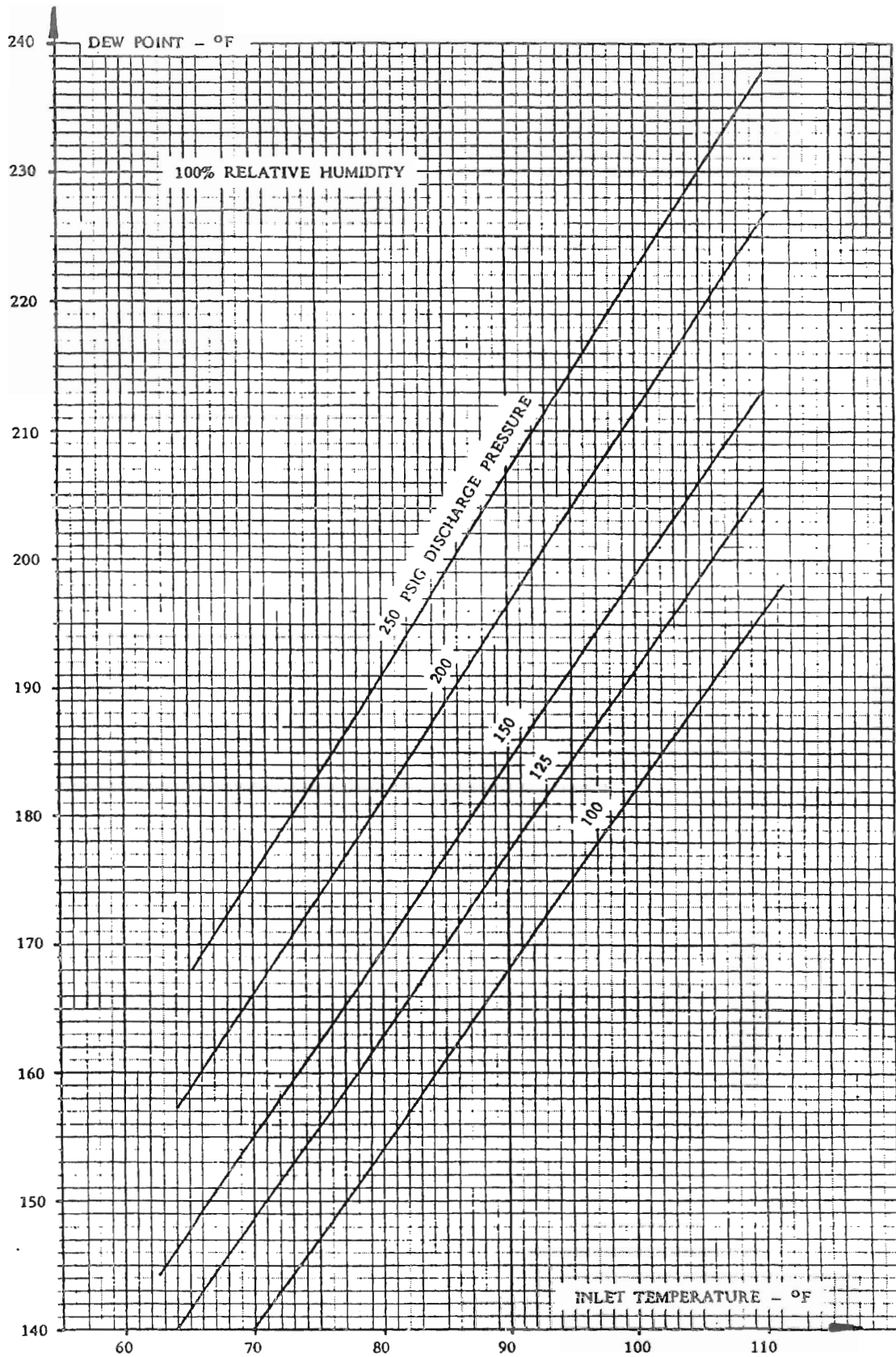


FIGURE 1-3 - RECOMMENDED DISCHARGE TEMPERATURE TO AVOID CONDENSATION

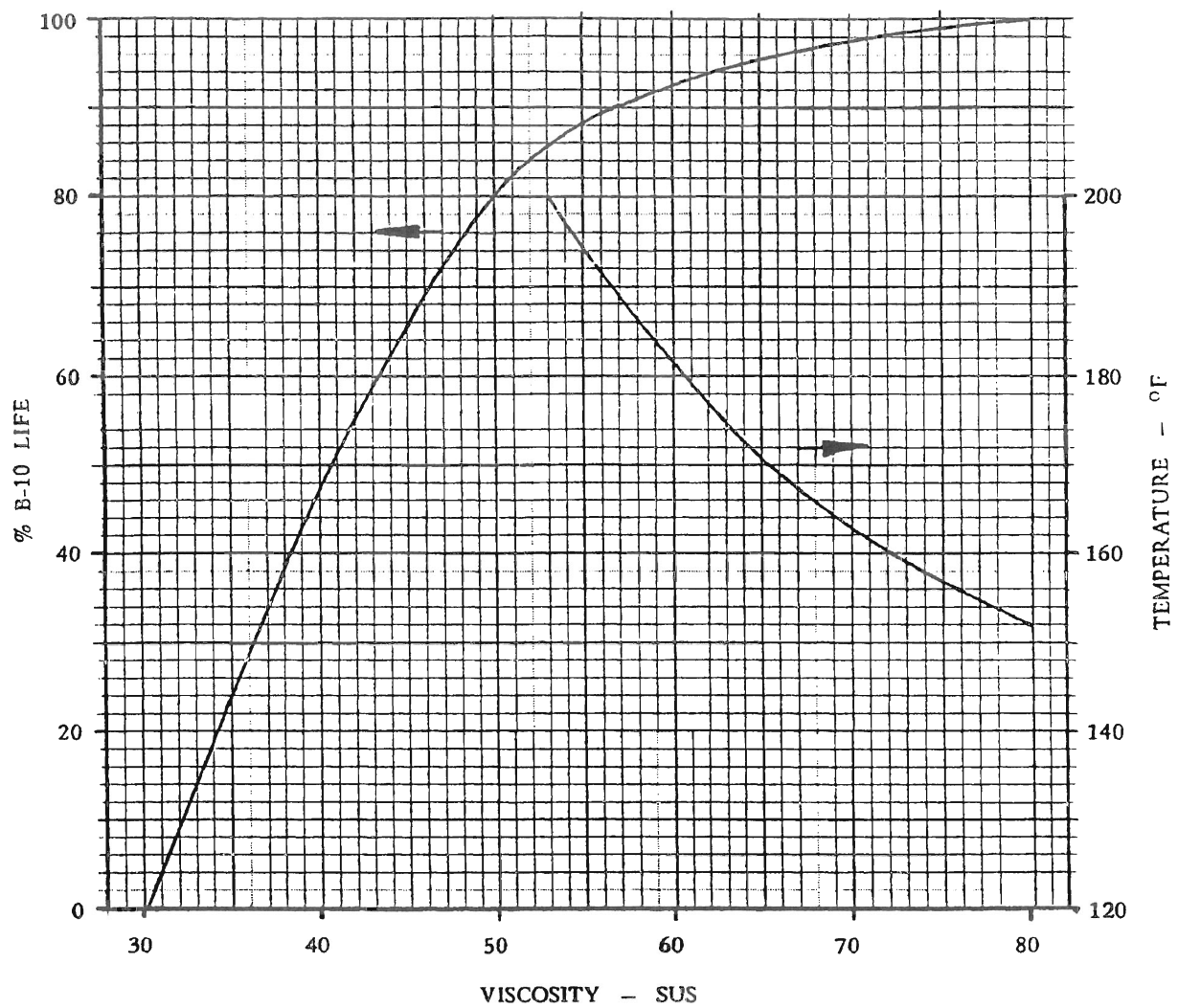


FIGURE 1-4 - EFFECT OF VISCOSITY ON B-10 LIFE