POLICY BULLETIN

Tecumseh Compressor Company
Compressor Group

Tecumseh

SUBJECT: Quadro-Flex Application Parameters for Air Conditioning PB-121

Issued: October 24, 1990 REV DATE: 5/22/2007

The Quadro-Flex, with its four cylinder radial Scotch yoke design, is an extremely versatile (flexible) compressor. For superior performance and long-term reliability, the following parameters must be maintained when applying Tecumseh Quadro-Flex compressors to their applications:

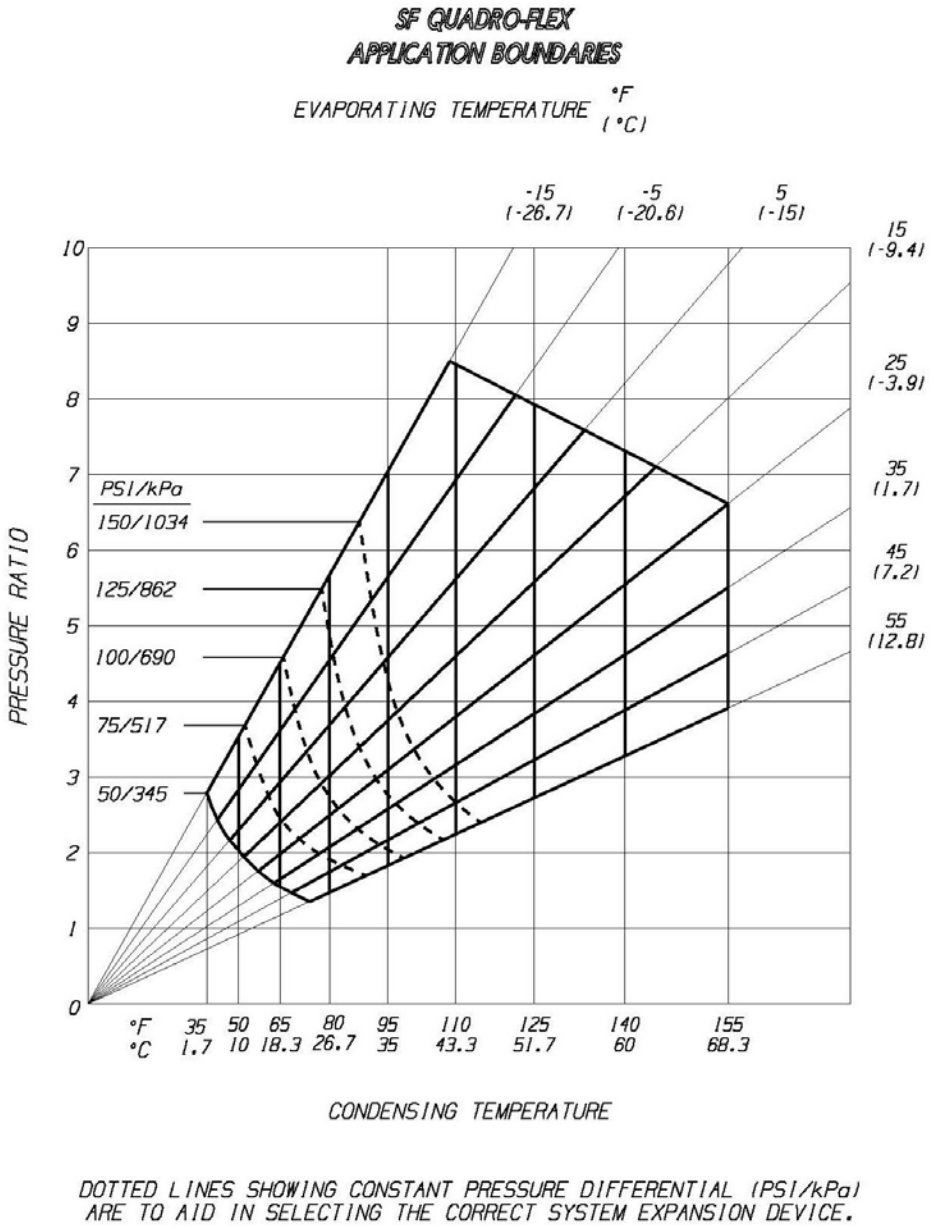
1. Refrigerant: R22
2. Evaporator Range: Air Cond & Heat Pump –15 to +55°F (-26.1 to 12.8°C)
3. Condensing Range: +35 to +155°F (+1.7 to 68.3°C)
4. Pressure Ratio: 8.5:1 Maximum
5. Motor Temperature: 265°F (129.4°C) Maximum (Resistance Method)
6. Shell Bottom: Minimum of Saturated Condensing Temperature plus 10°F (5.6°C). See Policy Bulletin No. PB-107.
7. Discharge Gas Temp: 260°F (126.7°C) Maximum (D2I)
8. The Quadro-Flex is a direct suction compressor with a factory installed suction screen. See Policy Bulletin No. PB-120.
9. Suction Gas Temperature: 5°F (2.8°C) Minimum Superheat **NOTE**: Under transient flood back conditions, less than 5°F (2.8°C) superheat is permissible.
10. Voltage Range (Run): See Policy Bulletin No. PB-113.
11. Voltage (Start): See Policy Bulletin No. PB-102.
12. Abnormal Discharge Pressure (e.g. blocked fan condition): 750 PSIG (5171 kPa) Maximum
13. Internal Pressure Relief Valve:

    SFA5554E thru SFA5572E 500 ± 50 PSI (3448 ± 345 kPa) differential

    SFA5594E thru SFA5615E None (High pressure control required)
14. Tubing: 0.035" (0.9 mm) vibration to be checked through operating limits of voltages and frequencies. Clearances between active and inactive components must be sufficient to avoid contact.
15. Heat Pump: See Policy Bulletin No. PB-112.
16. Remote Systems: See Policy Bulletin No. PB-107.
17. Mounting Components: Grommet 70650-1, Sleeve 71035.

EP-9 is the "APPLICATION GUIDELINES FOR AIR CONDITIONING QUADRO-FLEX COMPRESSORS"

PART OF POLICY BULLETIN No. PB-121



DOTTED LINES SHOWING CONSTANT PRESSURE DIFFERENTIAL (PSI/kPa) ARE TO AID IN SELECTING THE CORRECT SYSTEM EXPANSION DEVICE.