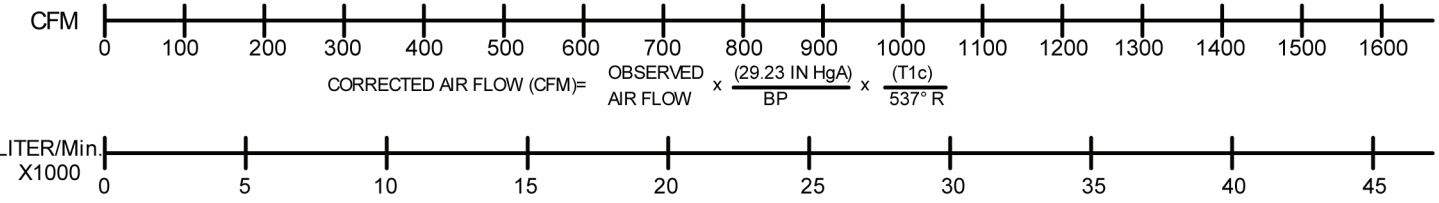
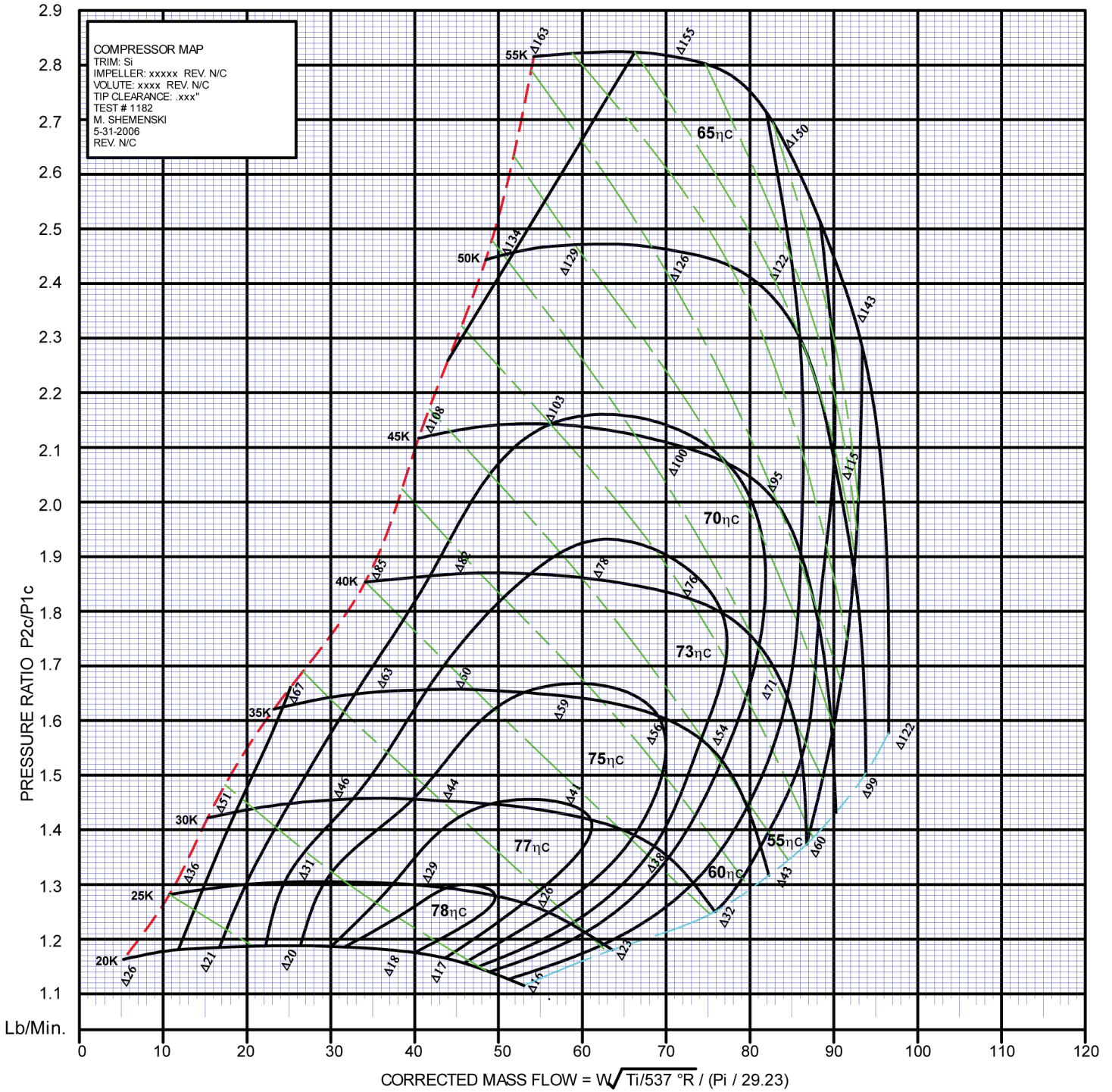


VORTECH ENGINEERING, LLC.

COMPRESSOR PERFORMANCE MAP

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$$\text{CORRECTED AIR FLOW (LITER/MIN. X 1000)} = \frac{\text{OBSERVED AIR FLOW} \times (99\text{kPa})}{BP} \times \frac{(T_i)}{298.15^\circ K}$$

PERFORMANCE OBTAINED AND CORRECTED IN ACCORDANCE WITH SAE J1723
 TEMPERATURE DIFFERENTIAL $T_o - T_i$ ($^\circ K$)

η_{1c} = COMPRESSOR ISENTROPIC EFFICIENCY (%)
 P_{1c} = COMPRESSOR INLET AIR ABSOLUTE PRESSURE (kPa)
 P_{2c} = COMPRESSOR DISCHARGE AIR ABSOLUTE PRESSURE (kPa)
 T_i = COMPRESSOR INLET AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)
 T_o = COMPRESSOR DISCHARGE AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)

$$\eta_{1c} = \frac{(T_i)^{\gamma} (P_{2c}/P_{1c})^{1-\gamma}}{(T_o)^{\gamma} - (T_i)^{\gamma}} \times 100\%$$