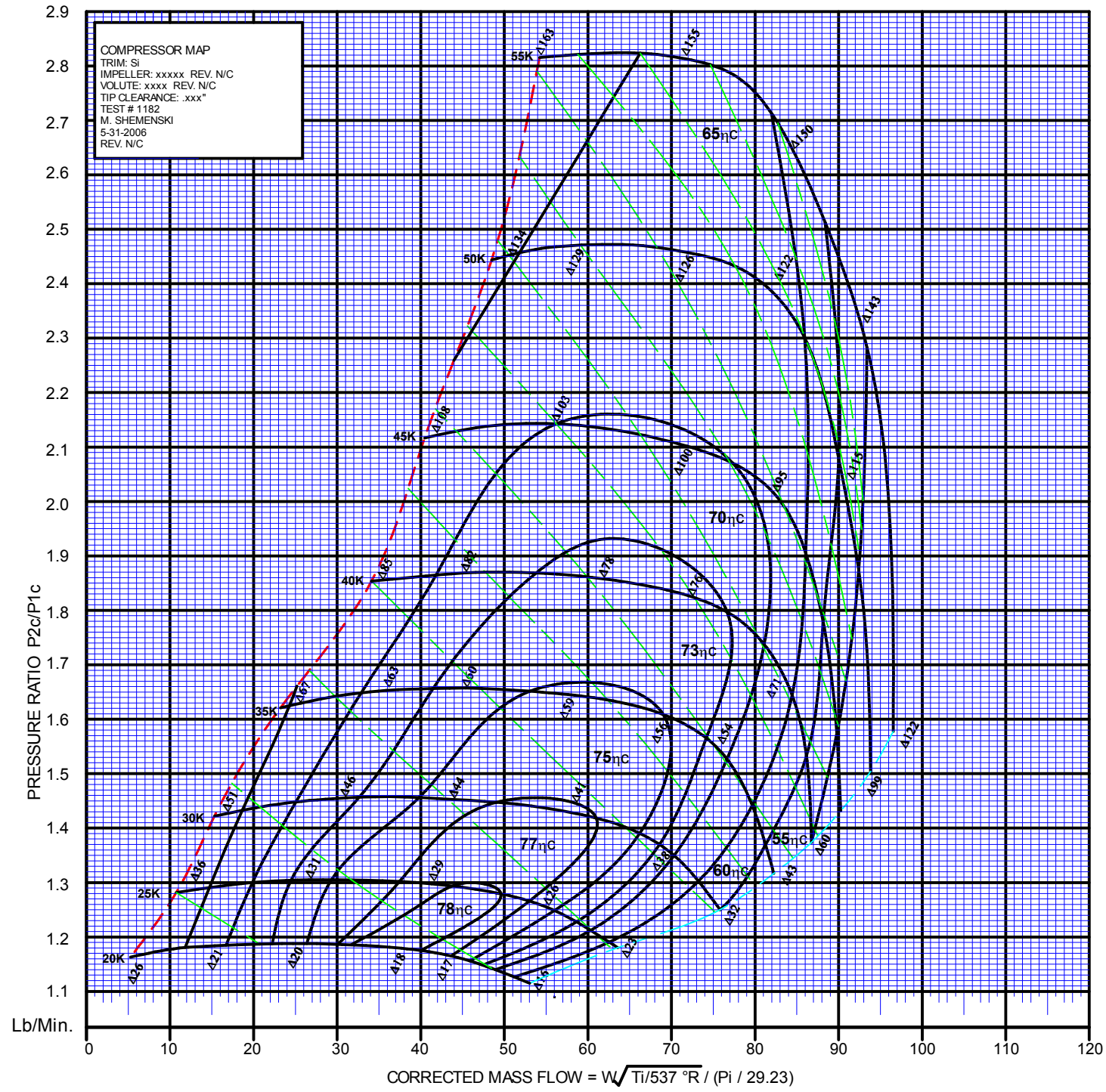
VORTECH ENGINEERING, LLC.

COMPRESSOR PERFORMANCE MAP



CFM

CORRECTED AIR FLOW (CFM)= OBSERVED AIR FLOW x (29.23 IN HgA) / BP x (T1c) / 537° R

LITER/Min. X1000

CORRECTED AIR FLOW (LITER/MIN. X 1000) = OBSERVED AIR FLOW x (99kPa) / BP x (Ti) / 298.15 °K

η_C= COMPRESSOR ISENTROPIC EFFICIENCY (%)
Pi= COMPRESSOR INLET AIR ABSOLUTE PRESSURE (kPa)
Po= COMPRESSOR DISCHARGE AIR ABSOLUTE PRESSURE (kPa)
Ti= COMPRESSOR INLET AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)
To= COMPRESSOR DISCHARGE AIR ABSOLUTE TEMPERATURE (DEGREES KELVIN)

$$\eta_C = \frac{(Ti)*(PR^{0.286})-(Ti)}{(To-Ti)} * 100\%$$

PERFORMANCE OBTAINED AND CORRECTED IN ACCORDANCE WITH SAE J1723
TEMPERATURE DIFFERENTIAL To - Ti (°K)