

GENERAL INFORMATION

GENERAL DESCRIPTION- The equipment furnished by Transamerica Delaval and covered in this manual consists of a Transamerica Delaval compressor driven through a Transamerica Delaval speed increasing gear by an electric motor. The compressor, gear, and driving motor are mounted on a bedplate. The compressing unit is equipped with oil systems and with the accessories necessary for the safe and efficient operation of the unit.

The Unit Outline Drawing in the last section of this manual shows the general arrangement of the equipment, the component weights, and the connections to be made to the unit.

DESIGN DATA- The design data of the compressor unit is shown below and on the Expected Performance curve in the last section.

Compressor

Make	Transamerica Delaval
Type	8CK22
Number of Stages	8
Speed, RPM	12,550
Rating, BHP	1,608
Gas Handled	CO ₂
Specific Gravity	1.4508
k	1,285
Z	0.995
Flow, ICFM	4,527
Inlet Pressure, psia	19.28
Inlet Temperature, °F	110
Discharge Pressure, psia	230

Speed Increasing Gear

Make	Transamerica Delaval
Model	Double Helical Speed Increaser
Type	HG- Special
Rating, BHP	2,300
Efficiency, %	95.2
Horsepower Loss	110
Ratio	1:7.0541
Gear Speed, RPM	1,780
Pinion Speed, RPM	12,556