HD362C-LW

Compressor for Anhydrous Ammonia (NH_3) driven @ 655 RPM

Gas

Anhydrous Ammonia
n = 1.31
MW = 17.03

Inlet

39 – 247 psia
(2.74 - 17.4 kg/cm^2 a)
10 - 110° F (-12 - 43° C)

Outlet

49 - 265 psia
(3.44 - 18.6 kg/cm^2 a)

Compressor Construction

Ductile Iron Valves with PEEK valve plates
Buna-N O-rings
Ductile Iron Head and Cylinder

Accessories

ASME Code Liquid Trap
15 HP TEFC Motor
Non Lube 4-Way Valve
Two Liquid Level Switches
Suction Strainer
Welded Steel Piping
Temperature Switch, N4
Low Oil Pressure Switch, N4

Installation Example

A Blackmer OEM provided two of these HD362 packages as part of a complete anhydrous ammonia unloading station for a Power Company in the Carolinas. The system is used to unload Anhydrous Ammonia rail cars or tanker trucks into storage.

The NH3 is used in a Selective Catalytic Reduction (SCR) system to reduce NOx emissions. The compressors unload liquid NH_3 at 130-175 GPM (29.4 - 40 m^3/hr) depending on ambient temperature. The second compressor is a standby compressor.