



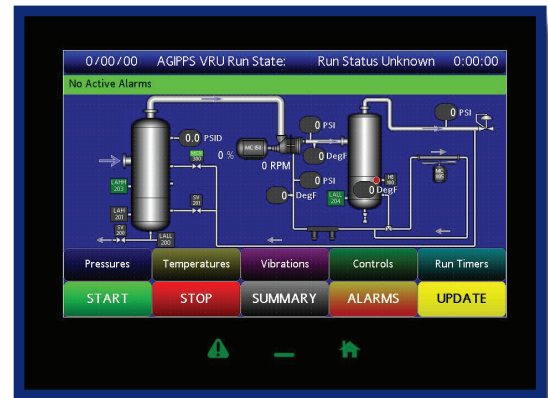
# AGI Packaged Pump Systems

A Subsidiary of AGI Industries

# Gas Compression Packages

- Vapor Recovery
- Gas Gathering
- Wellhead

- Turnkey Solutions for Rotary Screw, Sliding Vane and Reciprocating Compressor Types
- Electric Motors (TEFC) or Natural Gas Driven Engine
- Code Pressure Vessels (ASME UM)
- Gas Aftercoolers and Lubricant Coolers (ASME U)
- Variable Frequency Drive Panels UL Listed NEMA 3R Standard or 4X Purged Option
- PLC Control Panel UL Listed - NEMA 4X - Modbus Protocol RS232
- Factory Functional Testing Available



- Low Pressure and High Pressure Gas Recycle Loops
- Large Color Touchscreen
- Packages Classified as Class 1, Division 2
- Compliant with EPA 40 Code of Federal Regulations, Part 60, Subpart 0000
- ANSI B31.3 Piping, ANSI B31.8 Tubing, AWS D 1.1 Structural Steel Assembly

AGI Packaged Pump Systems

An Employee Owned Company

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# FAQs about VRUs

## Why use a VRU for oil and gas operations?

- Increase process profitability by selling natural gas instead of flaring.
- Reduce air pollution emissions
- Assist in meeting air permit limits
- Capturing vent gas can reduce current and future risks and liability associated with greenhouse gas emissions.

## What are typical sources of natural gas recovered by VRUs?

- Casing head gas
- Crude oil/condensate storage tanks
- Produced water storage tanks
- Heater treater flash gas
- Glycol dehydrator still column vent gas

## What is the purpose of Variable Frequency Drives?

- Adjust the speed of the compressor driver based on the flow of gas to the VRU.
- Provide the overall system a larger degree of operating flexibility.
- More quickly respond and recover increases and decreases in the flow of gas to the VRU over a short period of time.

## What are the operating ranges for VRUs?

VRU Type	HP Range	Max Discharge Pressure	Min Volume (MSCFD)	Max Volume (MSCFD)
Flooded Rotary Screw	5 - 1,000	350 psig	15	5,000
Rotary Sliding Vane	5 - 600	55 psig	2	2,000
Vapor Jet Pump	N/A	55 psig	2	75
Reciprocating Compressor	5 - 2,000	4,500 psig	2	50,000+

Based on natural gas with specific gravity of 0.65, inlet gas temperature of 60°F and suction pressure of 0 psig.