AIR COMPRESSOR OFFERINGS
Range of Solutions

VanZandt
CONTROLS, LLC
Eagle
AUTOMATION

Price ↑

Single Well
AC or DC

- - - →

Multi Well Pad
AC or DC

Saylor-Beall [AC]
30 HP
202 CFM, Duplex
240G Tank Size

Saylor-Beall [AC]
15 HP
102 CFM, Duplex
240G Tank Size

Saylor-Beall [AC]
5 HP
34 CFM, Duplex
120G Tank Size

Saylor-Beall [DC]
0.75 HP
2.7 CFM, Simplex
5.4 CFM, Duplex
60G Tank Size

ViAir [DC]
0.25 HP
2.48 CFM
10G Tank

USA Made
Fully Automated "Smart" Compressors

Services
Site Assessment & Leaks Detection
Sizing
Setup & Commissioning
Maintenance: Oil & Filter Changes
Remote Diagnostics into SCADA

Functionality →

AIR COMPRESSOR OFFERINGS
Total Portfolio with Options

DC			AC		Optional Features			Services
Light Duty	**Heavy Duty**		**Simplex**	**Duplex**	**Dryer Package**	**SMARTS Package**	**Power Package**	
Duplex	Simplex	Duplex	5.8 CFM 1.5 HP	11.6 CFM (2) 1.5 HP	¾ HP	DC SMARTS	Light Duty Duplex	
2.48 CFM ¼ HP	2.7 CFM ¾ HP	5.4 CFM (2) ¾ HP	11.1 CFM 3 HP	22.2 CFM (2) 3 HP	1.5 HP	AC SMARTS	Heavy Duty Simplex	
			17.3 CFM 5 HP	34.6 CFM (2) 5 HP	3 HP		Heavy Duty Duplex	
Pricing			26.2 CFM 7.5 HP	52.4 CFM (2) 7.5 HP	5 HP			
			34.4 CFM 10 HP	68.8 CFM (2) 10 HP	7.5 HP			
			51 CFM 15 HP	102 CFM (2) 15 HP	10 HP			
					15 HP			

CFM is Actually ACFM
Outlet CFM

Light Duty Duplex DC Compressor

VANZANDT CONTROLS, LLC
Eagle

Power Option
24VDC only

Solar Skid w Batteries
Optional

"SMART" Automation Package Option
SCADApack PLC
 for Advanced Control and Feedback
Actual Runtime
Precise Pressure Control
 Pressure Transmitter to control Start/Stop
Remote/Local Indication
 Pressure, Temperature, Voltage
 Pump/motor Runtime Hours
Lead/Lag Pump Management
User Configurable Pressure Setpoints
Automated Drain Dump based on Runtime

WITHOUT Controls
Duplex only option

IO [Automation Package]
Tank Pressure
Motor Run Status [A&B]
Internal Box Temp
ESD Button
Purge Button

Base Package
Starts/stops
 Via a pressure switch
Limited Local feedback
 Run status

DC Option
0.25 HP
2.48 CFM

Warranty
One Year

Duplex Configuration
Two pump/motor assemblies
Will alternate under normal operations
 Only available w Automation Package
Will kick on both if one pump can't replenish
 in a sufficient amount of time

Automation Alarming & Maintenance
Automation Option only
Battery Voltage
Runtime
Solar Charging Status
Trending of all IO points

MULTI WELL SOLUTION, Saylor-Beall
Heavy Duty DC Compressor With No Extras

VANZANDT CONTROLS, LLC
Eagle AUTOMATION

WITHOUT SMART Controls
Simplex or Duplex available
[we recommend duplex]

Warranty
One Year

Duty Cycle Typical Solar
2-3 Hours/Day
4 Days Autonomy

RPM
800 v 1000 RPM!!
Less wear & tear

Duplex Configuration
Two pump/motor assemblies
Will alternate under normal operations
Will kick on BOTH if one pump can't replenish
    In a sufficient amount of time

Moisture Purge
Automated Solenoid
Dryer option available

Starts/Stops
    Via a pressure switch
Limited Local feedback
    Run status

DC Option
0.75 HP
2.7 CFM, Simplex
5.4 CFM, Duplex

Operating Pressures
20-150 PSI
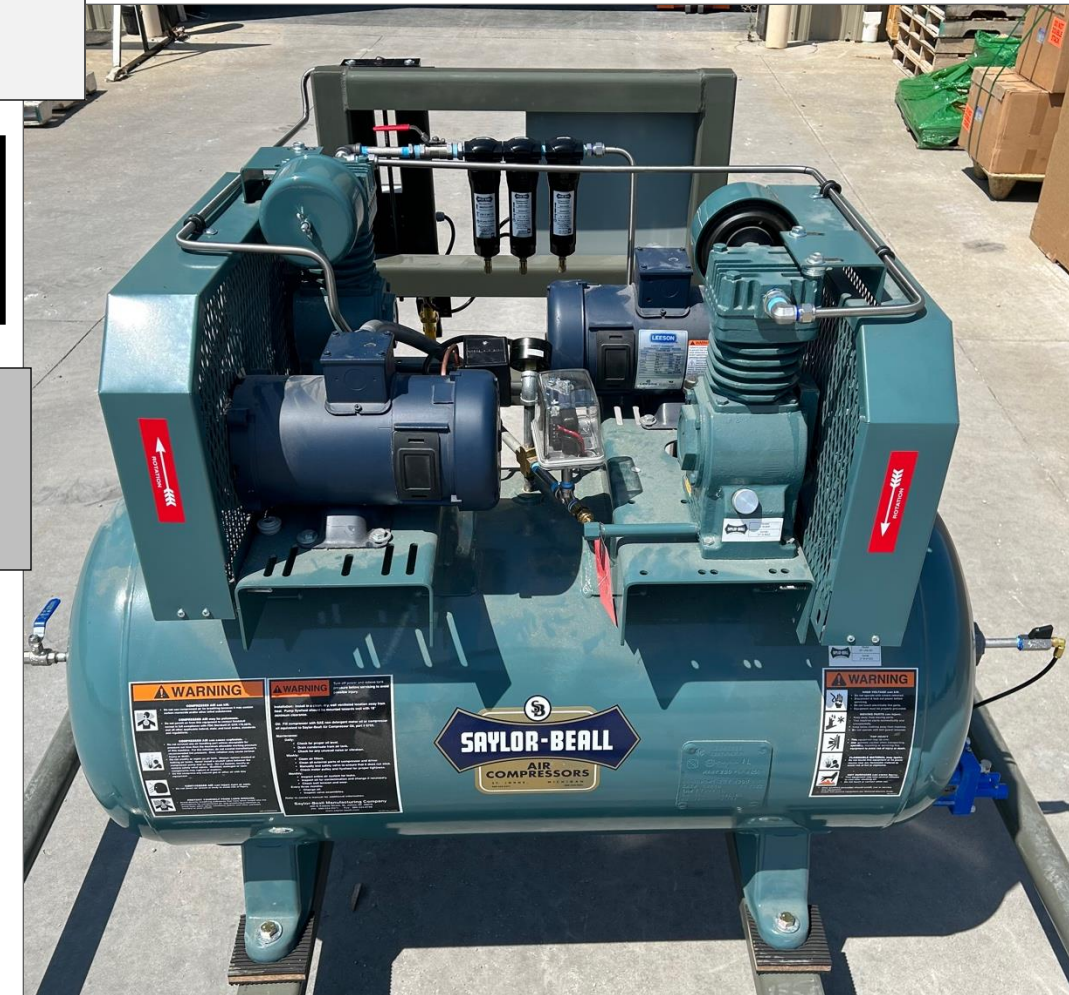
Bypass Filter when plugged
SMART Option only

DC AIR COMPRESSOR
Functional Architecture

Diagram (left):

Intake filter → Pump → Tank → Coalescing Filters [2] [Oil, Particulates] → Compressor Regulator → Customer Offtake

Photograph labels (right):

- Intake Filter
- ASCO Solenoid Pressure XMTR [Automated Package]
- Pump
- Customer Offtake
- Regulator
- Motor
- Coalescing Filters
- Tank

On AC Units, the Tank comes AFTER the Filters & Dryers
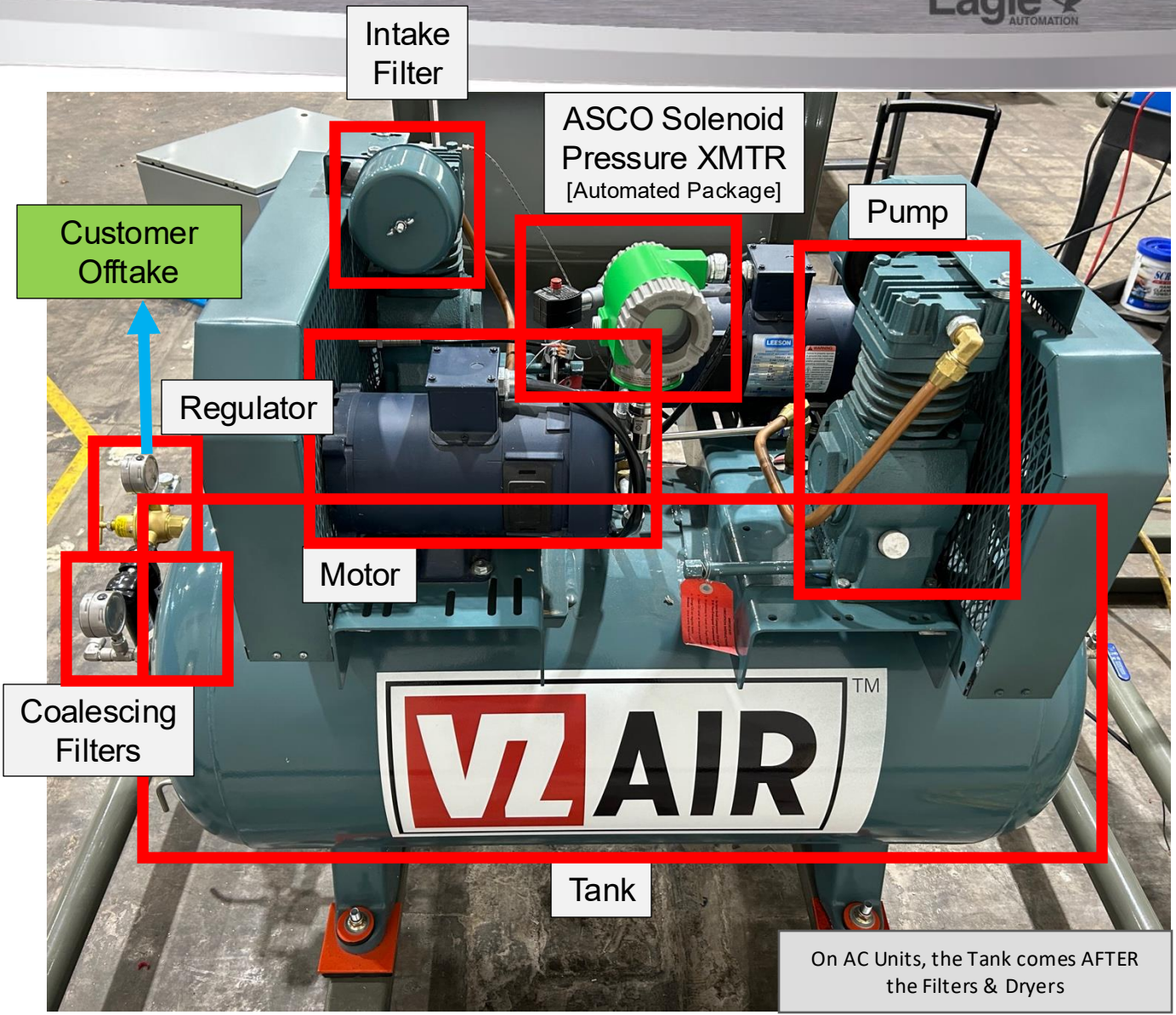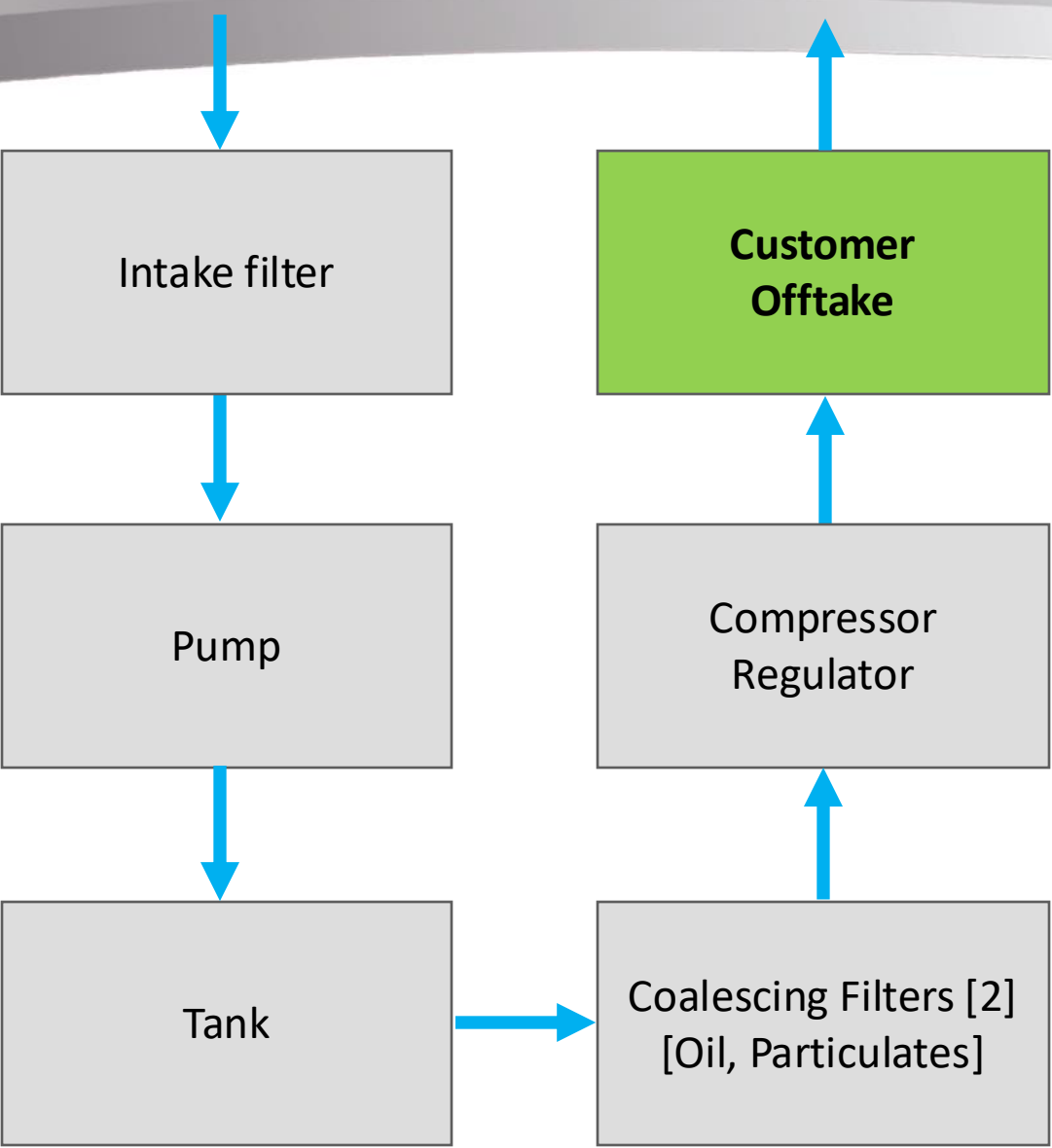
SAYLOR BEALL AIR COMPRESSOR
Unique Value

Low RPMs = Longer Life Span
Versus Competition
More powerful compressor that's de-rated
Competition takes lower HP and ramps up
VZAIR takes higher HP and ramps down
800 RPM v 1000+

USA Made
Supply Chain issues better managed
Extensive Spare Part Availability
Substantial Castings = Better Quality

Splash/Pressure Oil System
Splash Oil System, Standard Offering
Pressure Oil is an Expensive Option Available

One Stop Shop
Solar Packages
Automation Options

Optimized Dryer Location
Mounted on the Compressor
Smaller Footprint

Optional Dryer Typically Runs Purge Cycle to Regen the Desiccant
Only Purges When Motor is Running
Stored Wet Air Purges Run on Timed Cycles [Optional]
Leads to Unnecessary Purges & Run Times
Standard: Solenoid Drain

Optimized After Cooler Position [AC Only]
Cools Motor!!
Cools Compressed Air

Excellent Technical Support
Easy Live Support Available
Local and Vendor Support Available

Large Drain Orifice
Will not clog easily

Optimized for Long Service Life
Lower RPMs
Lead/Lag strategy equalizes Runtimes
Head Unloading Reducing Wear on Startup
Run Hours for Maintenance Scheduling
Not Calendar Based

SAYLOR BEALL DC COMPRESSOR
Solar Packages

Power Option
24VDC only

Warranty
One Year

Base Package
2 Solar Panels, 795 Watts Total
8 Batteries, 480 Amp Hours Total

HD Package
4 Solar Panels, 1590 Watts Total
16 Batteries, 960 Amp Hours Total

Includes Enclosure with
Solar Controller
Breakers
Terminals
Battery Box
Solar Panel Mounting

Custom Packages Available
To meet your Autonomy Needs
XX Solar Panels
YY Batteries

LD Compressor
w Solar & Battery Skid

Solar Packages

SAYLOR BEALL DC COMPRESSOR
Services Needed

Weekly or After 40 Hours of Service

Check the **lubricant level** to verify it is at the proper level.

  If the lubricant becomes discolored, empty and refill.

Verify the **auto drains** are functioning correctly.

Visually inspect the compressor

  Verify the safeguards are in place.

Check for **leaks and vibrations**.

Check the **pressure relief valves**.

Clean the **surfaces** of the compressor and intercooler.

Inspect the compressor and hoses for **air leaks**.

Inspect the **filter**

  Change the filter if applicable.

Required Oil Type

ISO 150 or ASTM 700 Compressor Oil

Holds 4 pints

Monthly or After 160 Hours of Service

Perform Weekly Tasks PLUS

Inspect the Belt Tension inside the Air Compressor

Quarterly or After 500 Hours of Service

Perform Weekly & Monthly Tasks PLUS

Change out the Lubricant

Inspect the Torque on the Pulley Nuts & Screws

Inspect the Dryer & Separator Assembly & Filters

Bi-Annually or After 1000 Hours of Service

Perform Weekly, Monthly & Quarterly Tasks PLUS

Check Valves for signs of leaks or carbon prints

Clean the Strainer Screen of the Crankcase

Examine the motor-area Contact Points

Examine Pressure Switch Diaphragm

MULTI WELL SOLUTION, Saylor-Beall
Heavy Duty AC Compressor With No Extras

WITHOUT Controls
Simplex or Duplex available [we recommend duplex]

Disc-style Valve in Pump
Not Reed-style
Much longer wear life
Special Order item w Competitors

Duplex Configuration
Two pump/motor assemblies
Will alternate under normal operations
   Only available w Automation Package
Will kick on BOTH if one pump can't replenish
   in a sufficient amount of time

Moisture Purge
Mechanical Float Switch driven
Heat Exchanger
Mounted between Compressor & Tank
Lowers the Discharge Temperature
Helps reduce Moisture

Starts/Stops
   Via a Pressure Switch
Limited Local feedback
   Run status

AC Option
Simplex [5-30 HP]
1.5 HP, 5.8 CFM
15 HP, 51 CFM
Duplex [1.5-30 HP]
1.5HP, 11.6 CFM
15 HP, 102 CFM

Warranty
One Year

Operating Pressures
20-170 PSI

Dry Receiver only
Helps while in Peak Demand from overloading the Dryer
Supplied Air is pre-dried and pre-filtered
Will reduce maintenance on Customer equipment
Bypass Filter when plugged [SMART only]

AIR COMPRESSOR
Amp Draw by HP

DC Motor

HP	FLA 24VDC
3/4	33

Single Phase Motors

HP	FLA 110VAC	FLA 240VAC
3/4	11	5
1	15	6.7
1.5	21	9
2	26	12
3	37	17
4	49	22
5	54	25
5.5	60	27
7.5	85	38

Three Phase Motors

HP	FLA 240VAC	FLA 460VAC
3/4	2.8	1.8
1.5	4.5	2.8
2	5.8	3.6
3	8.7	5.3
5	13	8.9
7.5	19	11
10	25	15
15	37	22
20	50	28

DC AIR COMPRESSOR PRICING
2024 Price Table

Name	Display Name	Description	List Price
DC Air Compressors WITHOUT Automation			
VZAIR-DC-24-LD-S-B-.25-5G	VZAir **Light Duty Simplex,** 24VDC	Single light duty compressor with a 24 Volt, 1/4HP motor and 5 gallons of storage	$ 4,100
VZAIR-DC-24-LD-D-B-.25-10G	VZAir **Light Duty Duplex,** 24VDC	Two light duty compressors with two 24 Volt, 1/4HP motors and 10 gallons of storage capacity	$ 8,570
VZAIR-DC-24-HD-S-B-.75-60G	VZAir **Heavy Duty Simplex,** 24VDC	Single heavy duty compressor with a 24 Volt, 3/4HP motor and 60 gallons of storage capacity	$ 9,650
VZAIR-DC-24-HD-D-B-.75-60G	VZAir **Heavy Duty Duplex,** 24VDC	Two heavy duty compressors with two 24 Volt, 3/4HP motors and 60 gallons of storage capacity	$ 13,900
DC Air Compressors WITH Automation			
VZAIR-DC-24-LD-S-S-.25-5G	VZAir **Light Duty Simplex SMART,** 24VDC	Single light duty compressor with a 24 Volt, 1/4HP motor and 5 gallons of storage with Smart Package	$ 11,645
VZAIR-DC-24-LD-D-S-.25-10G	VZAir **Light Duty Duplex SMART,** 24VDC	Two light duty compressors with two 24 Volt, 1/4HP motors and 10 gallons of storage capacity with Smart Package	$ 13,850
VZAIR-DC-24-HD-S-S-.75-60G	VZAir **Heavy Duty Simplex SMART,** 24VDC	Single heavy duty compressor with a 24 Volt, 3/4HP motor and 60 gallons of storage capacity with Smart Package	$ 15,195
VZAIR-DC-24-HD-D-S-.75-60G	VZAir **Heavy Duty Duplex SMART,** 24VDC	Two heavy duty compressors with two 24 Volt, 3/4HP motors and 60 gallons of storage capacity with Smart Package	$ 19,895
Solar Packages			
VZAIR-DC-24-790W-480AH	VZAir DC **Simplex Solar Power** Package	24VDC Power Package with 790 Watts of Solar and 480 Amp Hours of Batteries	$ 5,500
VZAIR-DC-24-1580W-960AH	VZAir DC **Duplex Solar Power** Package	24VDC Power Package with 1580 Watts of Solar and 960 Amp Hours of Batteries	$ 11,000

AUTOMATION PACKAGE ADDER
Control & Remote Diagnostics

Automation Package
SCADApack PLC
  for advanced control and feedback
Precise Pressure Control
Pressure transmitter to control start/stop
Discharge Pressure monitoring & control

HMI Local Alarms and Status
Clear the alarms
Web-based local interface [Beijer]

Communication Options
Ethernet or Modbus
Wired or wireless

Compressor doesn't start under load
Pump/motor heads are bled off first
Extends motor life significantly

Battery Backup
Maintain Control Power
Up to 24 Hours

"SMART" Automation Package Option
SCADApack PLC
  for Advanced Control and Feedback
Actual Runtime
Precise Pressure Control
  Pressure Transmitter to control Start/Stop
Remote/Local Indication
  Pressure, Temperature, Voltage
  Pump/motor Runtime Hours
Lead/Lag Pump Management
User Configurable Pressure Setpoints
Automated Drain Dump based on Runtime

Automation Alarming & Maintenance
Automation Option only
Remote/Local Monitoring
Battery Voltage
Runtime
Solar Charging Status
Trending of all IO points

Dialed-In Based on Customer Requirements

IO
Motor Run [A&B]
Motor Run Status [A&B]
Compressor Temperature [A&B]
Customer Permissive
Power Fail [AC only]
ESD Button
Oil Level Monitor
Purge Solenoid
Header Pressure Relief Solenoid
Customer Alarm Light
Tank Pressure [4-20mA]
Moisture Analyzer [Modbus]

Setpoints
Pump Lead/Lag
Pump ON/OFF
Low Battery
Air Fill Rate

Alarms
Leak Detection
Compressor Failure
   Call to RUN, no START
Compressor High Temperature
Motor Over Current
Long Run "Shot Clock"
Low Oil Level

VZAir Dual HD DC

Tank Pressure	**0**
Battery Voltage	**0**

Cmp 1 RunTime in Hr:Mn	0 :	
Cmp 2 RunTime in Hr:Mn	0 :	
Lead Run Time TDay in Hr	0	
Lead Run Time YDay in Hr	0	
Lead Run Time CMonth in Hr	0	
Lead Run Time PMonth in Hr	0	
Lag Run Time TDay in Hr	0	
Lag Run Time YDay in Hr	0	
Lag Run Time CMonth in Hr	0	
Lag Run Time PMonth in Hr	0	

Alarms

Set Points

Trend View

Overview

Purge

Maintenance

PLC Rev. **0.0**

VANZANDT
CONTROLS, LLC
Eagle AUTOMATION

Battery Voltage

0
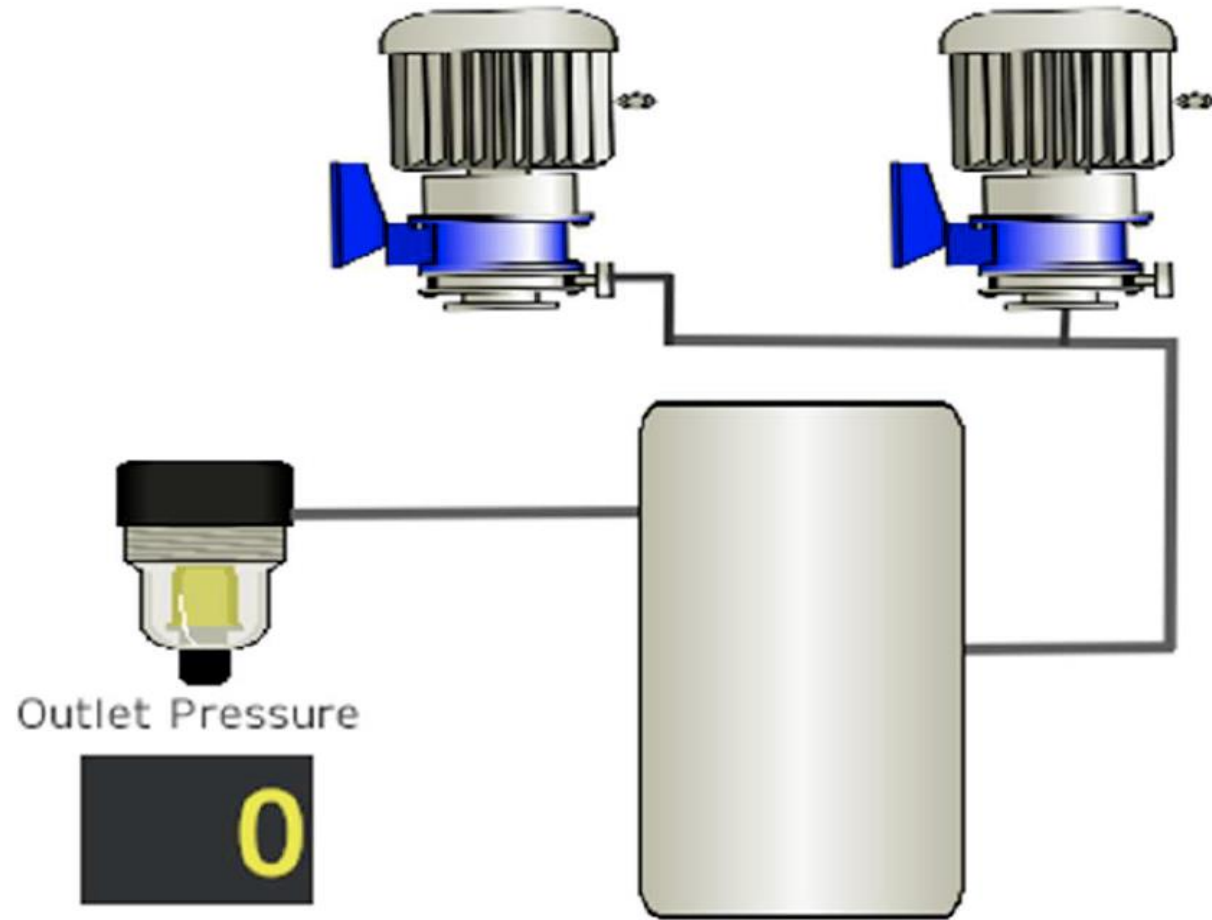
Outlet Pressure

0

MAIN

Alarm	Description	Current Hours	Hours Set Point	Reset
CLEAR	Comp 1 Oil Maintenance Hours	0	0	RESET
CLEAR	Comp 1 Air Filter Maintenance Hours	0	0	RESET
CLEAR	Comp 1 Belt Maintenance Hours	0	0	RESET
CLEAR	Comp 1 Valves Maintenance Hours	0	0	RESET
CLEAR	Compe 2 Oil Maintenance Hours	0	0	RESET
CLEAR	Comp 2 Air Filter Maintenance Hours	0	0	RESET
CLEAR	Comp 2 Belt Maintenance Hours	0	0	RESET
CLEAR	Comp 2 Valves Maintenance Hours	0	0	RESET

MAIN

Stop SETPT	0.0
Lead Start SP	0.0
Lag Start SP	0.0

PSI

0

MAIN

Active Time	Active Date	AlarmMessage
13:09:03	10/20/2023	Cmp1 Fault
13:09:03	10/20/2023	Cmp2 Fault

MAIN **RESET**