

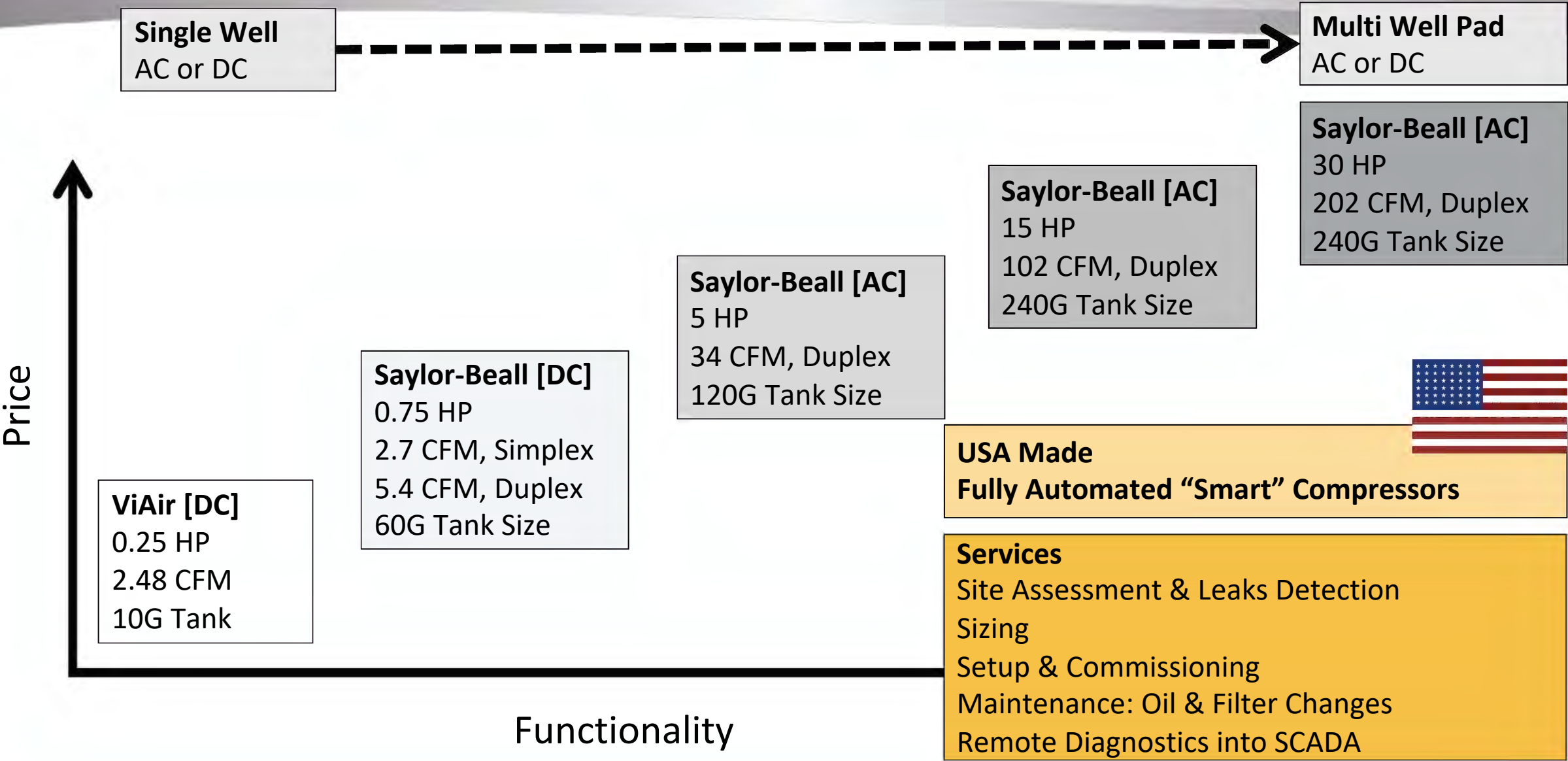
VZAIR™

AIR

TM

AIR COMPRESSOR OFFERINGS

Range of Solutions



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	
			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			

Pricing

CFM is Actually ACFM
Outlet CFM

SINGLE WELL SOLUTION

Light Duty Duplex DC Compressor



WITHOUT Controls
Duplex only option

Power Option
24VDC only

Solar Skid w Batteries
Optional

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

"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
Battery Voltage
Runtime
Solar Charging Status
Trending of all IO points

MULTI WELL SOLUTION, Saylor-Beall

Heavy Duty DC Compressor With No Extras



WITHOUT SMART Controls

Simplex or Duplex available
[we recommend duplex]

Warranty

One Year

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

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

Duty Cycle Typical Solar

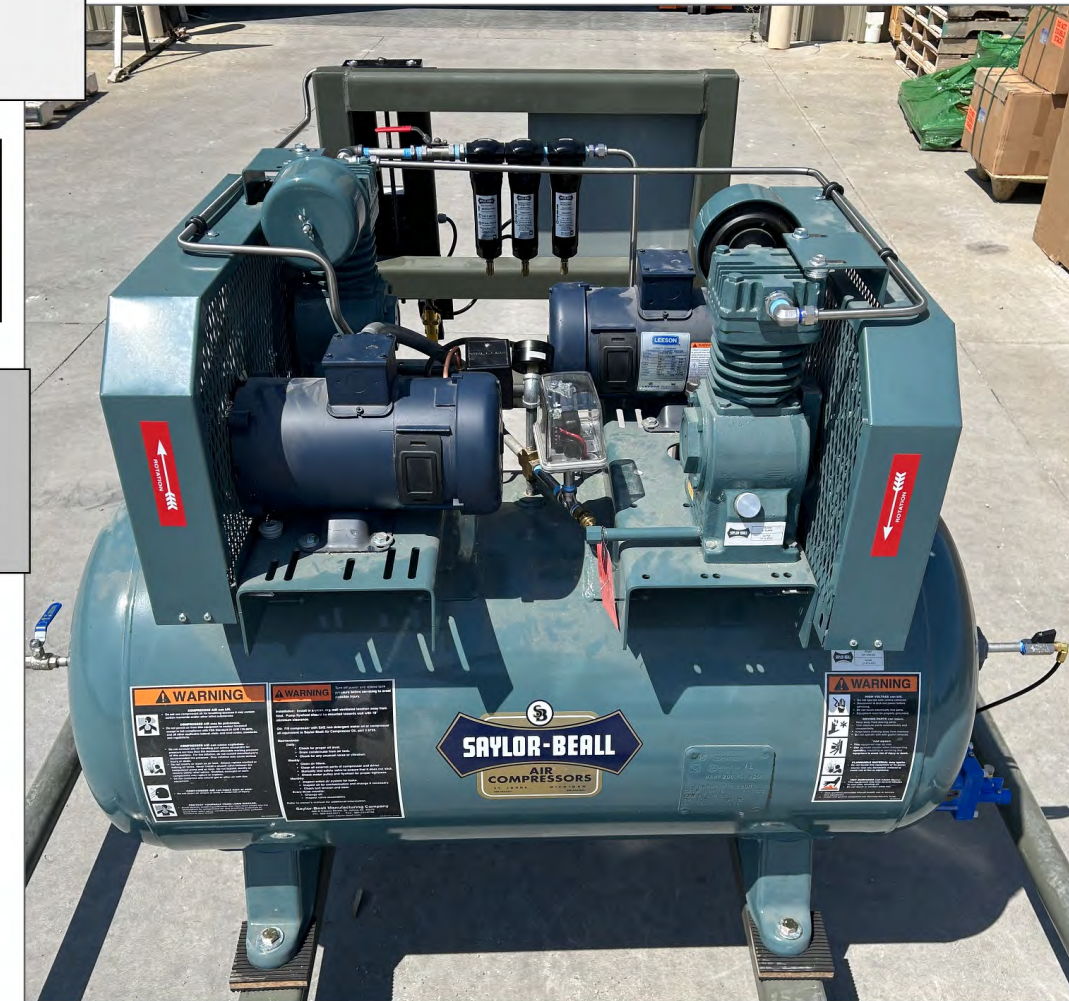
2-3 Hours/Day
4 Days Autonomy

RPM

800 v 1000 RPM!!
Less wear & tear

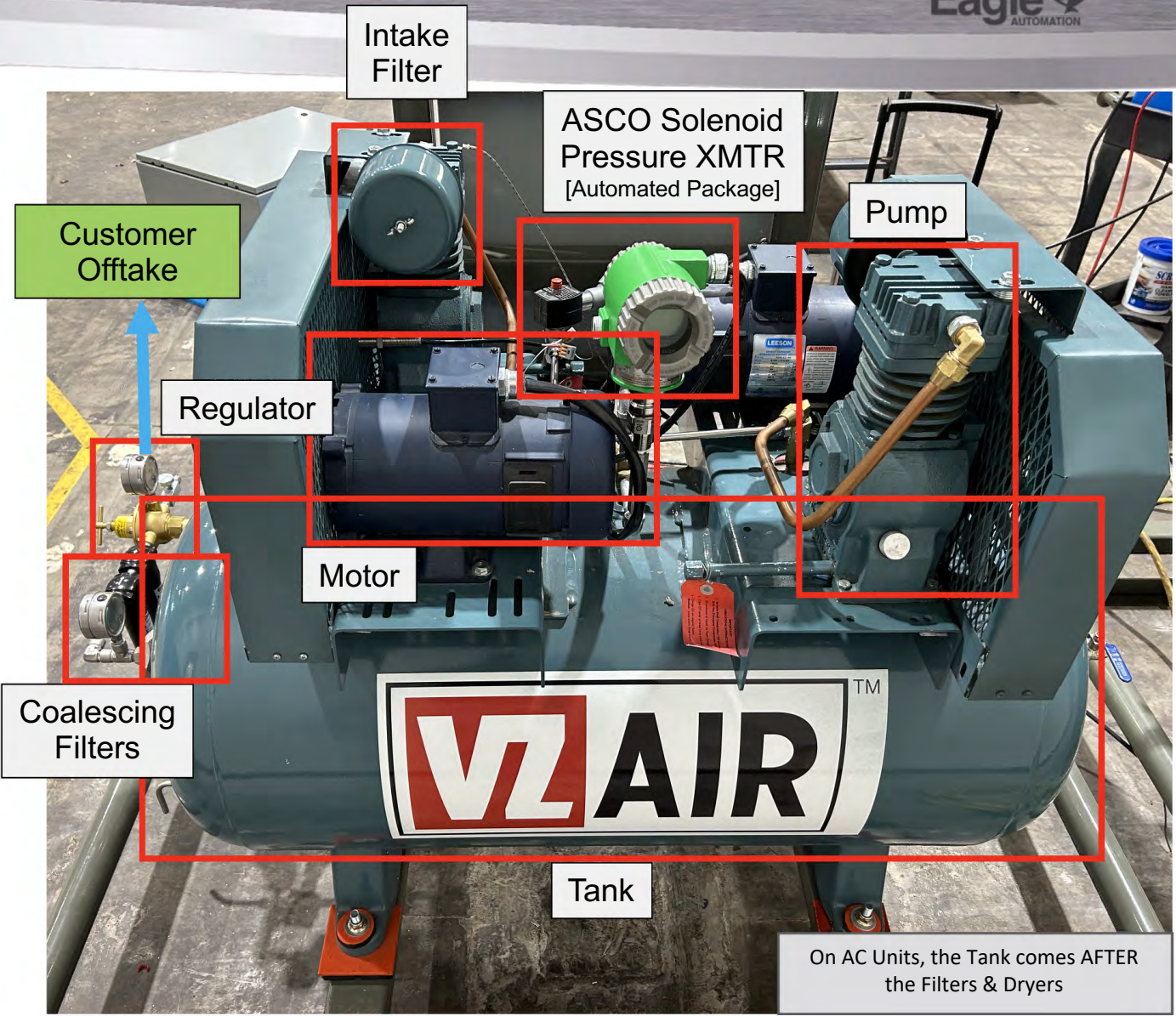
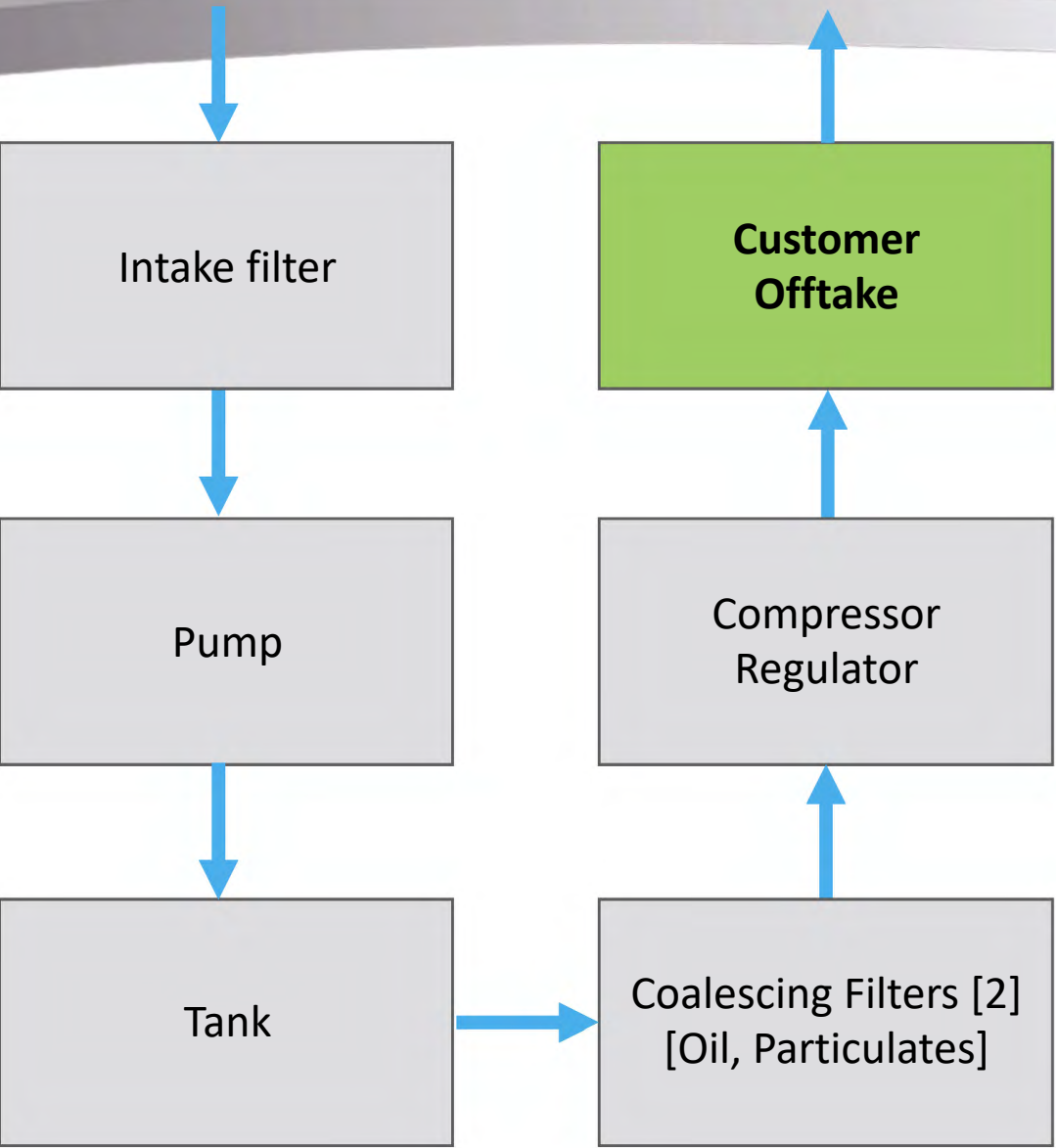
Moisture Purge

Automated Solenoid
Dryer option available



DC AIR COMPRESSOR

Functional Architecture



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

LD Compressor
w Solar & Battery Skid



Solar Packages



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

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]

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

Starts/Stops

Via a Pressure Switch

Limited Local feedback

Run status

Operating Pressures

20-170 PSI

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

Disc-style Valve in Pump

Not Reed-style

Much longer wear life

Special Order item w Competitors



Moisture Purge

Mechanical Float Switch driven

Heat Exchanger

Mounted between Compressor & Tank

Lowers the Discharge Temperature

Helps reduce Moisture

Warranty

One Year

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

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



“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

AUTOMATION DETAILS

Dialed-In Based on Customer Requirements

IO

- Motor Run [A&B]
- Motor Run Status [A&B]
- Motor Temperature [A&B]
- Customer Permissive
- Power Fail [AC only]
- ESD Button
- 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
- Motor High Temperature
- Motor Over Current
- Long Run "Shot Clock"
- Low Oil Level

VZAir Dual HD DC

Tank Pressure

0

Battery Voltage

0

AUTOMATION PACKAGE ADDER
HMI Screens

Alarms

Set Points

Trend View

Overview

Purge

Maintenance

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

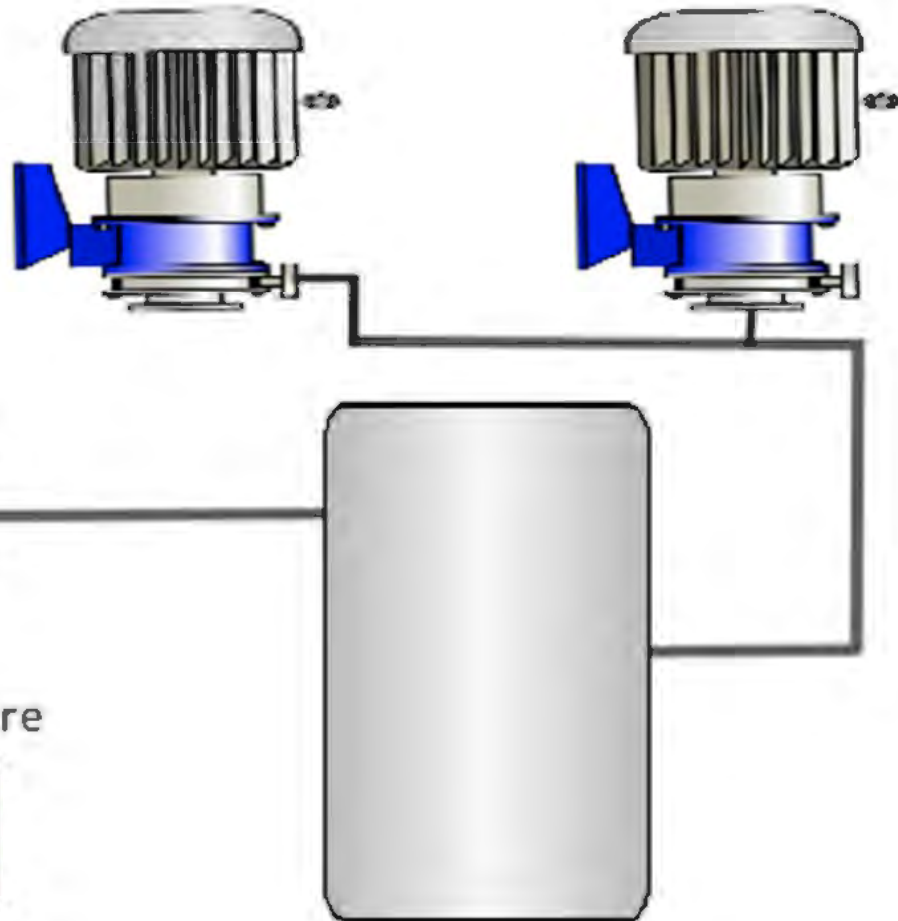
VANZANDT
CONTROLS, LLC



PLC Rev.

0.0

Battery Voltage



Outlet Pressure



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

