

Oil Injected Screw Compressor Model: FASV-110B-A145

• Free Air Delivery	-	240-600 cfm
• Working Pressure	-	10 Kg/cm ² (g)
• Nominal Motor Power	-	110 Kw
• Motor Efficiency, Protection & Insulation	-	IE3, IP55 & Class F insulation
• Starter	-	VFD
• Electrical Connection	-	3Phase,400V +/-10%,50Hz +/-5%
• Dimension	-	2600 x 1750 x 1850 mm
• Weight	-	3150 Kg
• Outlet Connection	-	DN80



(Product image shown are representative and may not match exactly with the actual product)

Compressor

- Dry Paper Type Suction Air Filter; Conveniently Located For Easy Replacement Of Filter Element
- Piston Type Air Inlet Valve To Control Unload & Load Status, Piston Closes Quickly When Compressor Stops.
- Unloading Solenoid Valve & Air Relief Valve Are Integrated In Inlet Valve Kit.
- Low Inlet Air Pressure Design With Bypass Valve – Reduce Noise More Efficiently.

Screw Element

- Efficient German Design Air-end
- Third Generation 5:6 Rotor
- Large Rotors - Low Speed Design
- Less Vibration, Lower Noise, Longer Life

Air Oil Receiver Tank

- Separates Air & Oil Mixture
- Built-in Oil / Air Separator With Accuracy Of 8 Micron
- Three Stage Air Oil Separation System
 - First By Cyclonic Action (Centrifugal),
 - Second By Gravitational (Heavier Particles Separate Down),
 - Third By Passing Through Coalescent Filter
- Oil Sight Glass Shows Dynamic Coolant Level
- Oil Drainage Valve on Bottom

Oil Filter

- Paper Filter To Remove Impurities In Coolant Such As Metal Particles, Deterioration Of Oil Etc.
- Filtering To Protect Bearing & Rotors
- Thermostatic Valve To Regulate Oil Temperature Within The System.

Motor

- Squirrel Cage Induction Motor With TEFC IP 55 Enclosure, Class F Insulation, Class B Temperature Rise, Motor Suitable For 45⁰ C Ambient Temperature And 400 +/- 10% Volts, 3phase, 50 +/- 5% Hz Supply
- IE3 High Efficiency Motor, SKF Bearing

Drive Arrangement

- Direct driven compressor
- Less Maintenance
- Longer Life

Power And Control Panel

- Suitable VFD Starter With Contactors, CTs, Etc.
- Single Phasing Preventer Ensures Safety Of Compressor By Tripping In Case Of Single Phasing & Phase Sequence Relay to avoid Reverse Rotation
- Emergency Stop Button

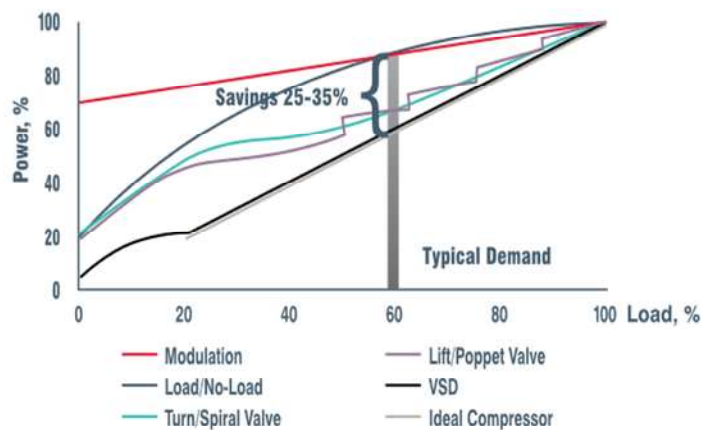
Advantages of Variable Speed

- The VSD - Offers Faster Response & Greater Operational Efficiency
- Variable Operation Slow Downs Air-end Speed, Which Lowers Energy Costs & Reduce Wear
- With Advance Controller, The VSD Enhances Quality By Stabilizing Air Pressure At 1 PSI Increments
- In Addition, The Soft Starting Capability Of VSD Reduces Inrush Current Requirement, Decreasing Your Power Demand — and, of Course, Increasing Your Energy Saving

FAS SERIES WITH VSD LIFE CYCLE COSTS OVER 5 YEARS



ENERGY SAVINGS WITH VSD COMPARING LOAD/NO-LOAD POWER CONSUMPTION



Controller

- User Friendly Design
- Multiple Language
- Automatic Maintenance Management
- Display Main Operating Parameters
- Automatically Issue Warning Messages OR Stop Machine When Sensor Detect Critical Data
- Record Error Messages
- Temperature & Pressure Protection
- Controller Advantage
 - Controller unloads rather than stops the machine if the pressure is dropping slowly.
 - Controller can predict the time until the minimum pressure limit is reached once the machine has stopped.
 - Compressor restarts soon enough to ensure that the system pressure never drops below the desired minimum.

Acoustic Canopy:

- Compressor Package Is Enclosed In A Powder Coated Acoustic Canopy With Sound Absorbing Material For Limiting The Noise Level.
- Canopy Is Pressurized Ensuring No Pressure Drop At Suction Filter And Avoids Entry For Dust Particles In The Element
- Anti-Vibration Mounts Support Electric Motor And Compressor Unit And Isolate The Moving Components From Rest Of The Structure, Thereby Reduces Sound Level And Avoids Need For Anchoring The Machine On Floor.

Ready To Commission Compressor Unit:

- Air Compressor Unit Can Be Put Directly On The Industrial Floor And Is Provided With First Fill Of Oil.

* Due to continuous engineering improvements, features are subject to change without prior notice.
