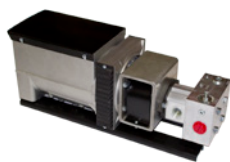


# PTO Shaft & Hydraulic Driven Underdeck Modular Systems 4X2 and 4X4 Peterbilt, International, Freightliner & Kenworth



**UDSM** ▶  
PTO AIR COMPRESSORS



**XCITE** ▶  
PTO GENERATORS



**GENAIR** ▶



**V2** ▶  
MULTI-DRIVE SYSTEM™



**V3** ▶  
MULTI-DRIVE SYSTEM™



# PTO Shaft & Hydraulic Driven Underdeck Modular Systems For 4X2 and 4X4



## UNDERDECK KITS

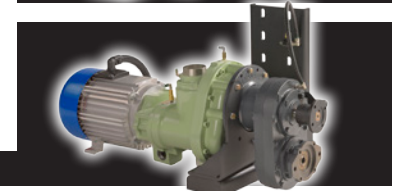
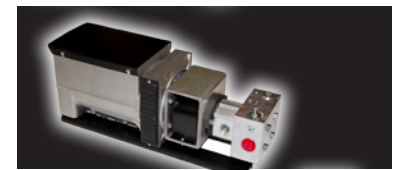
Each Vanair underdeck kit is specific to the make and model of your vehicle. All kits for trucks contain the following items plus the power unit, such as an air compressor or generator that you select.

- Power Unit
- Discharge Tank Assembly
- Air-to-Oil Cooler Assembly
- Air Filter Assembly
- V-TEC™ (excludes hydraulic drive systems)
- Vanguard Rotary Screw Compressor Oil
- Hosing
- Valving



Additional coolers may be required

## POWER UNITS




Utilizing the vehicles own engine for power, Vanair underdeck rotary screw compressor systems provide you with the exceptional power your crew needs to get the job done where and when they need it – without hauling an expensive air compressor tow-behind. Using a single PTO opening, these systems provide up to 200 CFM\* of impressive air power, AC power or hydraulics, or any combination of all three. At half the cost of a tow-behind, PTO underdeck systems mount seamlessly out of sight, under the vehicle, leaving the towing hitch free for other equipment and opens up the truck bed for additional storage space.

# UDSM

PTO AIR COMPRESSORS

## PTO SHAFT DRIVEN AIR COMPRESSOR


| AIR COMPRESSOR         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|
| Capacity (CFM)         | 60      | 85      | 125     | 160     | 185     | 200     |
| Air (PSI)              | 100-150 | 100-150 | 100-150 | 100-150 | 100-150 | 100-150 |
| Compressor Input (RPM) | 1030    | 1460    | 1330    | 1675    | 1920    | 2075    |



PTO Driven - Dry Weight (Lbs.): 328 (60-85 CFM), 407 (125-200 CFM)

## HYDRAULIC DRIVEN AIR COMPRESSOR

| AIR COMPRESSOR           |           |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Capacity (CFM)           | 60        | 85        | 125       | 160       | 185       |
| Air (PSI)                | 100-150   | 100-150   | 100-150   | 100-150   | 100-150   |
| Hydraulic Flow (GPM)     | 17.0      | 23.5      | 27.6-29.2 | 36.8-38.3 | 42.2-44.2 |
| Hydraulic Pressure (PSI) | 2300-2800 | 2300-2700 | 2100-2620 | 2200-2700 | 2400-2830 |



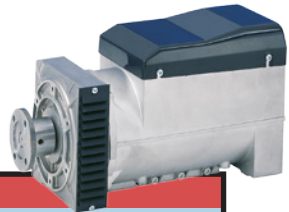
Hydraulic Driven - Dry Weight (Lbs.): 428 (60-85 CFM), 453 (125-160 CFM), 453-491 (185 CFM)

# XCITE

PTO GENERATORS

## PTO SHAFT DRIVEN GENERATOR

| GENERATOR     |                |                |                |                |                |
|---------------|----------------|----------------|----------------|----------------|----------------|
| kW            | 6.8            | 10             | 16.9           | 20             | 25             |
| Voltage       | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 |
| Phase         | Single         | Single         | Single         | Single         | Single         |
| AMPs          | 54/27          | 84/42          | 140/70         | 166/83         | 208/104        |
| Speed (RPM)   | 1800           | 1800           | 1800           | 1800           | 1800           |
| Weight (Lbs.) | 80             | 123            | 270            | 295            | 339            |

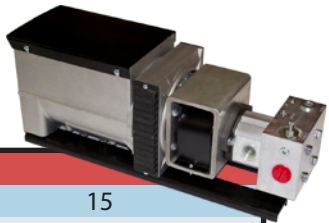


PTO Driven - Dimensions (In.): 12H x 11.5W x 17L (6.8 kW - 10kW), 12H x 12W x 24L (16.9 kW), 12H x 12W x 25L (20 kW - 25 kW)

Consult factory for additional kW options

## HYDRAULIC DRIVEN GENERATOR

| GENERATOR            |                |                |                |                |                |                |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| kW                   | 4              | 7.5            | 8.5            | 10             | 12             | 15             |
| Voltage              | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 | 120 or 120/240 |
| Phase                | Single         | Single         | Single         | Single         | Single         | Single         |
| AMPs                 | 33/16          | 62/31          | 72/36          | 84/42          | 105/52.5       | 126/63         |
| Hydraulic Flow (GPM) | 8.5            | 14.5           | 16             | 19             | 20             | 24             |
| Pressure (PSI)       | 1800           | 1800           | 1800           | 2000           | 2000           | 2000           |
| Weight (Lbs.)        | 78             | 105            | 114            | 121            | 129            | 141            |



Hydraulic Driven - Dimensions (In.): 10H x 8W x 23L (4 kW), 10H x 8W x 28L (7.5 kW - 10 kW), 11H x 11W x 29L (12 kW - 15 kW)

Consult factory for additional kW options



### PTO SHAFT DRIVEN AIR COMPRESSOR & GENERATOR

| AIR COMPRESSOR         |         |         |         |
|------------------------|---------|---------|---------|
| Capacity (CFM)         | 125     | 160     | 185     |
| Air (PSI)              | 100-150 | 100-150 | 100-150 |
| Compressor Input (RPM) | 1535    | 1880    | 2160    |
| Oil Capacity (Gal.)    | 3.5     | 3.5     | 3.5     |

Genair Kit Mounted Dry Weight (Lbs.): 513(min.) - 554 (max.)

| GENERATOR (TEFC)    |                |    |                |
|---------------------|----------------|----|----------------|
| Output (continuous) | 6.6 kW         | OR | 9.6 kW         |
| Voltage             | 120 or 120/240 |    | 120 or 120/240 |
| Phase               | Single Phase   |    | Single Phase   |
| Speed               | 3600 RPM       |    | 3600 RPM       |
| Protection Degree   | IP54           |    | IP54           |
| Type                | Brushless AVR  |    | Brushless AVR  |



MULTI-DRIVE SYSTEM™



### PTO SHAFT DRIVEN AIR COMPRESSOR & SAE B PUMP PAD

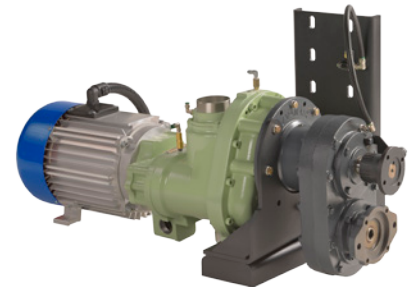
| AIR COMPRESSOR         |         |         |         |
|------------------------|---------|---------|---------|
| Capacity (CFM)         | 125     | 160     | 185     |
| Air (PSI)              | 100-150 | 100-150 | 100-150 |
| Compressor Input (RPM) | 1330    | 1675    | 1920    |
| Oil Capacity (Gal.)    | 3.5     | 3.5     | 3.5     |

V2 Kit Mounted Dry Weight (Lbs.): 473(min.) - 514(max.)

| SAE B PUMP PAD (pump sold separately) |  |
|---------------------------------------|--|
| Limited to 77 Ft. Lbs.                |  |



MULTI-DRIVE SYSTEM™



### PTO SHAFT DRIVEN AIR COMPRESSOR, GENERATOR & SAE B PUMP PAD

| AIR COMPRESSOR         |         |         |         |
|------------------------|---------|---------|---------|
| Capacity (CFM)         | 125     | 160     | 185     |
| Air (PSI)              | 100-150 | 100-150 | 100-150 |
| Compressor Input (RPM) | 1535    | 1880    | 2160    |
| Oil Capacity (Gal.)    | 3.5     | 3.5     | 3.5     |

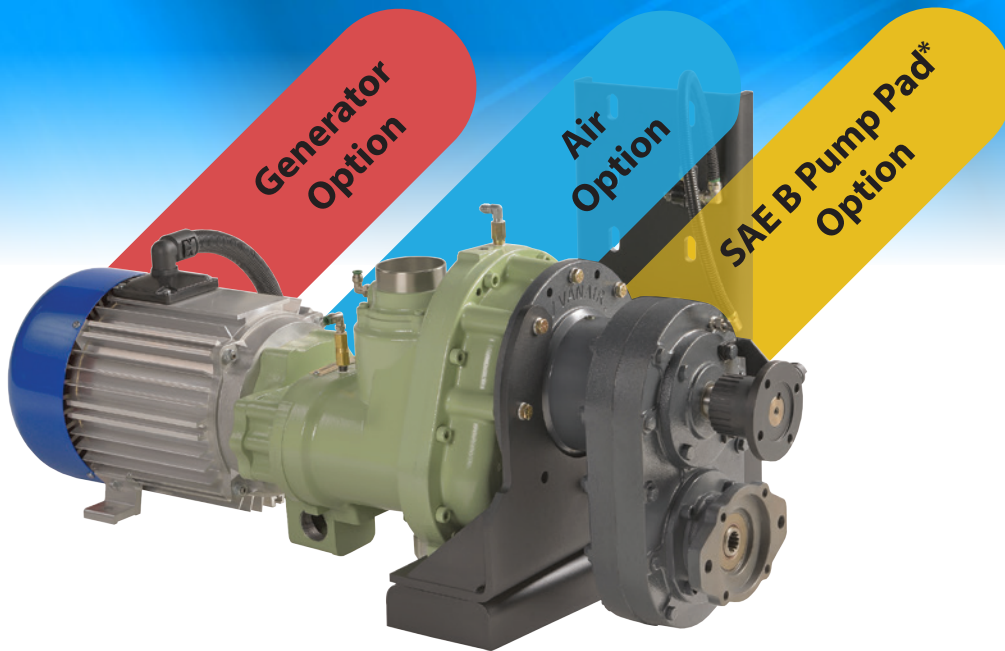
| SAE B PUMP PAD (pump sold separately) |  |
|---------------------------------------|--|
| Limited to 77 Ft. Lbs.                |  |

V3 Kit Mounted Dry Weight (Lbs.): 595(min.) - 636 (max.)

| GENERATOR (TEFC)    |                |    |                |
|---------------------|----------------|----|----------------|
| Output (continuous) | 6.6 kW         | OR | 9.6 kW         |
| Voltage             | 120 or 120/240 |    | 120 or 120/240 |
| Phase               | Single Phase   |    | Single Phase   |
| Speed               | 3600 RPM       |    | 3600 RPM       |
| Protection Degree   | IP54           |    | IP54           |
| Type                | Brushless AVR  |    | Brushless AVR  |



# What kind of power do you need?



## UDSM

Air Only

|                  |   |                      |
|------------------|---|----------------------|
| PTO Shaft Driven | Air (CFM)<br>60, 85, 125, 160, 185 or 200 | Air (PSI)<br>100-150 |
| Hydraulic Driven | Air (CFM)<br>60, 85, 125, 160 or 185      | Air (PSI)<br>100-150 |

## Xcite™

Generator Only

|                  |  |                           |
|------------------|--|---------------------------|
| PTO Shaft Driven | Output (kW)<br>6.8, 10, 16.9, 20 or 25   | Voltage<br>120 or 120/240 |
| Hydraulic Driven | Output (kW)<br>4, 7.5, 8.5, 10, 12 or 15 | Voltage<br>120 or 120/240 |

## Genair®

Air & Generator

|                  |                              |                      |                           |                           |
|------------------|------------------------------|----------------------|---------------------------|---------------------------|
| PTO Shaft Driven | Air (CFM)<br>125, 160 or 185 | Air (PSI)<br>100-150 | Output (kW)<br>6.6 or 9.6 | Voltage<br>120 or 120/240 |
|------------------|------------------------------|----------------------|---------------------------|---------------------------|

## V2™

Air & Hydraulic

|                  |                              |                      |                                |
|------------------|------------------------------|----------------------|--------------------------------|
| PTO Shaft Driven | Air (CFM)<br>125, 160 or 185 | Air (PSI)<br>100-150 | SAE B Pump Pad*<br>77 Ft. Lbs. |
|------------------|------------------------------|----------------------|--------------------------------|

## V3™

Air, Generator & Hydraulic

|                  |                              |                      |                           |                           |                                |
|------------------|------------------------------|----------------------|---------------------------|---------------------------|--------------------------------|
| PTO Shaft Driven | Air (CFM)<br>125, 160 or 185 | Air (PSI)<br>100-150 | Output (kW)<br>6.6 or 9.6 | Voltage<br>120 or 120/240 | SAE B Pump Pad*<br>77 Ft. Lbs. |
|------------------|------------------------------|----------------------|---------------------------|---------------------------|--------------------------------|

\*Pump Sold Separately

# PTO Shaft & Hydraulic Driven Underdeck Modular Systems

## Additional Features (If Equipped)

### AIR COMPRESSOR

- Lifetime Warranty on Air End
- 100,000 Hours Design Life
- 100% Duty Cycle
- Greater Efficiency for Lower Engine RPMs
- Integrated Inlet Valve and Rear Discharge Provides Higher Ground Clearance
- Made in the USA

### GENERATOR (GENAIR AND V3 ONLY)

- Totally Enclosed Fan Cooled Sealed Generator
- No Brushes for Maintenance-Free Operation
- Automatic Voltage Regulation (AVR) Regulates to Within  $\pm 2\%$
- 6.6 kW to 9.6 kW Producing 120 or 120/240V at a Constant 60 Hz
- Ground Fault Circuits and Outlet Panels Available to Meet Your Needs

### DISCHARGE SYSTEM

- Intank Coalescer System Provides Greater Surface Area for Increased Oil Separation
- Coalescer is Protected from the Elements, Eliminating the Possibility of Rust or Damage from External Source
- Less Prescribed Maintenance and Waste Oil Recovery Costs
- Less Than 2 PPM Oil Carryover
- Pressure Rated to 250 PSIG
- 5 Year Warranty or 3000 Hours for Replacement on Coalescer Element Only
- Smaller Tank Design Makes Installation Easier
- Streamlined Fittings on the End of Tank
- ASMA and CRN Certified

### AIR FILTER

- ABS Plastic Housing
- Dual Stage

### SAE B PAD

- Limited to 77 Ft. Lbs.

### HYDRAULIC SYSTEM REQUIREMENTS

All hydraulic ratings and pressures are at the machine and do not take into account the pressure drops of individual hydraulic systems. These pressure drops need to be taken into account and added to the rating of the hydraulic pump and components. Vanair highly recommends consulting a hydraulic supply expert for specifying the correct hydraulic pump size and type, oil reservoir size, hydraulic cooler, hydraulic pressure relief, and other hydraulic supply components for your application. Please take into consideration the following: the hydraulic flow and pressure requirements of the air compressor, the continuous hydraulic load when the compressor is running, the duty cycle and ambient operating temperatures, and any other hydraulic equipment that may share the same hydraulic supply system (Vanair recommends a dedicated pump and hydraulic circuit).

### COOLER(S)

- Capable of Cooling Up to 200 CFM at Up to 175 PSI
- Air to Oil Heat Exchanger Driven by 12V Fan

### INSTRUMENTATION

#### VANAIR TOTAL ELECTRONIC CONTROL SYSTEM (V-TEC™)

Diagnostic Monitoring Display Includes:

- Remote Engine Speed Control
- Built-In Safety Features
- Complete Startup & Shutdown Capabilities
- Oil Temperature & Air Pressure System Checks
- Troubleshooting & Maintenance Display Assistance & Alerts
- LCD

### VANGUARD ROTARY SCREW COMPRESSOR OIL

- Full Synthetic Oil Exclusively Created for Rotary Screw Compressors
- Flash Point: 257 °C/495 °F
- Pour Point: -45 °C /-50 °F
- Outstanding Thermal and Oxidative Stability
- Reduced Oil Disposal Due to Extended Drain Intervals

### SAFETY EQUIPMENT

- High-Temperature Shutdown
- High-Pressure Shutdown
- Air Pressure-Relief Safety Valve
- Minimum Pressure Valve
- Automatic Blowdown on Shutdown
- Oil Fill Plug Safety Relief

### OPTIONS/ACCESSORIES

- External, Spin-on Air-Oil Separating Element
- Dual Pressure
- Dual Voltage
- Service/Control Line Moisture Separators
- Filter/Lubricator/Regulator (FLR)
- Air Hoses, Hose Reels, and Fittings
- OSHA Safety Valve (Velocity Fuse)
- Tool Oiler/Lubricator
- Biodegradable Vanguard Green™ Synthetic Oil