

## VMAC UNDERHOOD70-G – Bid Specifications

These specifications are for bid purposes only and are provided by VMAC.

*All specifications are subject to change without notice.*

### **Compressor Air End:**

The air compressor must be installed on the truck engine and must have 100% duty cycle. Compressor must provide 70 CFM and up to 175 PSI. A low profile integrated air inlet control valve will feature an oil fill port, and dry type paper air filter. The compressor air end dimensions are to be no larger than 6" x 7" x 11 1/2" in size. A multi-groove drive clutch will be used with a serpentine belt. The air compressor will weigh no more than 46 lbs including the air inlet valve.

### **Digital Control System:**

A 12 volt digital control box with LCD display will be included. The control box will feature system hours, service interval reminders and safety/functional messages including park brake, over-temp and clutch voltage protection. The control system will integrate with the chassis to automatically start and stop the vehicle's engine in response to air usage. Adjustable settings within the control system to include delay to stand-by, air use rate, restart pressure, system pressure, auto-restart disable and system top up pressure.

### **Air/ Oil Separator Tank:**

The tank is an air/oil separator. Material must be of high-grade aluminum material and contain an integrated coalescing oil separator element. It must have a lubricant sight glass no smaller than 1 1/2" in diameter. Must contain a 200 PSI high pressure relief valve. It must have a replaceable spin on 25-micron oil filter with safety bypass feature. It must contain an 8 seconds or less integral pneumatically piloted blow down valve. The tank dimension must be no larger than 6" diameter X 31" length and the weight must be no greater than 18 lbs.

### **Heat Exchanger:**

Must be the liquid-to-liquid type. The overall dimensions should be no greater than 4" x 3 3/4" x 9" in size and the weight must be no greater than 17 lbs without fluid.

### **Throttle Control:**

Throttle control must be an infinitely variable speed control and must automatically modulate engine RPM to match the air demand. It must have a vehicle Drive Disable Circuit (DDC) for vehicles equipped with an automatic transmission.

### **Safety Features:**

The air compressor system will include an LED safety light and alarm to notify the user the system is in standby mode. An alarm will be included to notify the user that the vehicle is about to re-start the engine. A hood-open circuit will be included to prevent operation of the auto re-start while the hood is open.

### **Air Receiver Tank:**

The air receiver tank must be installed for proper operation of all Digital Control System functions. The air receiver tank must be ASME certified with a safety rating up to 200 PSI. It will include all necessary fittings with 200 PSI pressure relief valve, tank drain, and 200 PSI pressure gauge.

### **Installation:**

Installation of air compressor must be completed only by the factory authorized distributor of the air compressor manufacture. Air compressor installation kits are engineered to fit specific chassis and engine configurations.