



UNDERHOOD™ 40 – 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 vehicle engine and must have 100% duty cycle. Compressor must provide up to 40 CFM and 150 PSI. A high temperature cut off switch must be integrated on the compressor. The compressor air end dimensions are to be no larger than 6.3" W x 4.2" H x 7.3" L in size. A multi-groove drive clutch will be used with a poly-v FEAD belt. The air compressor will weigh no more than 15 lb including the air inlet valve.

Interface Panel:

Interface panel must include hour meter, and on/off controls with indicator light.

Air Oil Separator Tank/Cooler:

The air oil separator tank/cooler must act as an oil/air separator and air/oil cooler. Material must be of high-grade aluminum and contain an integrated coalescing oil separator element. It must have a lubricant sight glass no smaller than 1 1/2" in diameter. It must have a replaceable spin on 25-micron oil filter with safety bypass feature. It must contain an integral pneumatically piloted blow down valve. The tank dimension must be no larger than 8" W x 17.5" H x 19.75" L and the weight must be no greater than 35 lb.

Digital Throttle Control:

The Digital Throttle Control must be adjustable and have two speed operation (base and elevated idle) and must automatically modulate engine RPM depending on air usage. It must have status LED pulses. Digital Throttle Control must connect to OBD2 CAN bus connector*.

Safety Features:

Safety features must include a compressor thermal protection circuit, and automatic rapid blow-down valve on the tank, a 200 PSI pressure relief valve, and electric clutch.

Note:

System must include compressor mounting bracket, accessory brackets, air receiver tank, all applicable belts, fasteners, compressor oil, hoses, installation manual and owner's manual.

*2019+ model year vehicles only