



**CAP-START® 3000+AIR 12V/24V
12 VDC/24 VDC ENGINE STARTER
RECIPROCATING AIR COMPRESSOR
BID SPECIFICATION
REVISED: April 29, 2019**

Type:	Vanair® CAP-START® 3000+Air 12V/24V. New and in current production.
12/24V Start:	Fast self-recharge rate of 15 seconds. Elevated starting potential to negate cable voltage loss. High output discharge of up to 3240 AMP, specifically designed to overcome the initial friction for starting rotation in cold engines, followed by continued output power of approximately 800-1000 AMP through the starting event. Able to maintain glow plug and machine/vehicle parasitic loads without draining the capacitor start system. Override function to allow for charging of batteries below 4V.
12/24V Charge:	240 AMP 3-stage charging system. Time out technology to prevent battery over charge with over current monitoring.
Safeties:	Weather protected electrical enclosure, reverse polarity protection, open, closed or low circuit safety, low engine oil pressure shut down, engine over temperature shut down and self-regulating 3-stage charging system.
Starting Cables:	30' 3/0 starting cables. Flexible down to -67 °F (-55 °C), UL class K stranded copper utilized to minimize voltage drop.
VSC™ :	Vanair® Super Capacitor (VSC™) 3000 AMP at 12V capabilities. Meets MIL specifications vibration ratings.
DC Alternator:	240 AMP at 24 VDC and 240 AMP at 12 VDC, externally excited, microcontroller regulated to allow efficient total control over unit charging and starting modes.
Air Compressor:	24 CFM at up to 175 PSIG.
Fuel Capacity:	11 gallon slimline tank or plumb to chassis
Air Storage Tank:	Remote air tank. Vanair offers optional ASME/CRN certified tank kits that include check valve, pressure relief valve, and condensation drain.
Machine Weight:	Dry weight (Lbs.): 575
Engine:	Kohler® Command PRO EFI, V-twin, fuel injected, electric start gasoline engine, air cooled, 19 HP per SAE J1940, automatic electronic throttle control, optional remote oil filter and oil drain.
Dimensions:	Dry weight (Lbs.): 575
Battery:	Kohler® Command PRO EFI, V-twin, fuel injected, electric start gasoline engine, air cooled, 19 HP per SAE J1940, automatic electronic throttle control, optional remote oil filter and oil drain.
Instrument Panel:	Control panel can be remotely mounted. Features include engine start/stop function, hour meter, display for voltage output, battery charge/boost mode selector switch, mode indicator lights and system fault lights. Terminal block/boost lugs at machine for running to multiple boosting locations.

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Drive System:	Compressor utilizes a dual V-belt drive system with manual tensioner. Alternator utilizes a poly-V serpentine belt with quiet channel technology and automatic tensioner.
Metal:	Fully powder-coated with galvalume sheet metal enclosure around electrical or critical components, 1/4" plate steel mainframe, optional integrated lift hook or lifting points and easy service access.
Warranty:	The air compressor unit shall be warranted for 3 years when following the prescribed maintenance schedule. This warranty does not cover damage caused by accident, misuse, or negligence. If the unit is disassembled, the warranty is void.
Service Centers:	Manufacturer must have factory authorized service centers located in each state of the United States of America and Canadian provinces.