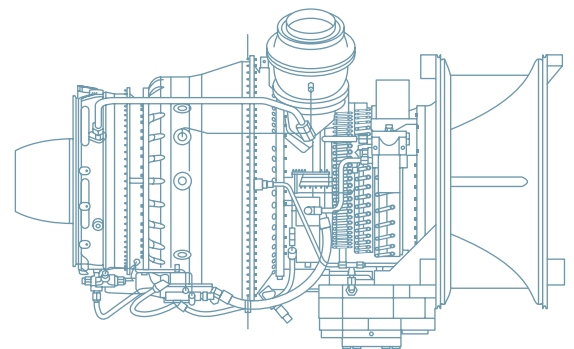




## VPS series mechanical drive sets



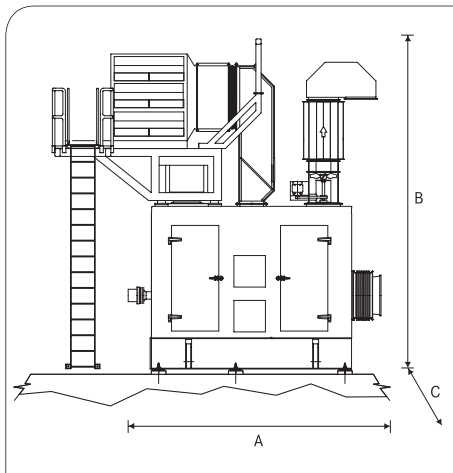
VPS1-688 shp/  
VPS3-4,277 shp/  
VPS4-4,784 shp

#### VPS series mechanical drive sets

The heart of our mechanical drive sets are the reliable ASE™ aeroderivative gas turbines. Our engines originate from the time-tested Lycoming and Garrett gas turbines that have been in service for more than 30 years in a wide variety of industrial, military and commercial marine applications. A fleet of some 600 installations have logged more than 1.5 million operating hours. Our gas turbines feature a compact cold end drive design. A flexible on-condition maintenance plan assures high availability.

#### Worldwide support 24/7

Customer support is a key part of Vericor's product offerings. Dedicated and responsive customer support teams work to ensure reliable and cost-effective operation. Each customer is assigned a Customer Service Manager (CSM) who is responsible for all support needs 24 hours a day, seven days a week.



#### Mechanical drive

##### Simple cycle performance

		VPS1	VPS3	VPS4
Nominal performance*		Natural gas	Natural gas	Natural gas
Output power	kW	513	3,189	3,567
	shp	688	4,277	4,784
Heat rate	Btu/kWh	15,900	12,308	11,635
	kJ/kWh	16,775	12,985	12,275
Thermal efficiency	%	21.5	27.7	29.3
Fuel flow	lbs/h	397	1,910	2,020
	kg/h	180	866	916
Fuel pressure required (min./max.)	psig	250/300	200/250	250/300
	kPA	1,723/2,068	1,379/1,723	1,723/2,068
Exhaust gas flow	lbs/s	7.8	28.0	30.1
	kg/s	3.56	12.7	13.7
Exhaust gas temperature	F	913	1,115	1,080
	°C	489	602	582
Length (A)	ft	10.00	20.00	20.00
	m	4.27	7.72	7.72
Height (B)	ft	14.10	20.00	20.00
	m	4.29	6.10	6.10
Width (C)	ft	8.50	8.60	8.60
	m	2.59	2.64	2.64

\* 59 F, sea level, RH60%, 3" inlet/4" exhaust losses; LHV: 20,548 Btu/lb., 47,486 kJ/kg.

#### About Vericor

Vericor is an MTU Aero Engines company based in Alpharetta, Georgia, U.S.A. Vericor supplies gas turbines, systems and related services for marine, oil and gas and power generation customers. Vericor is dedicated to being responsive, flexible and easy to work with while providing quality, cost-effective solutions and services.



An MTU Aero Engines Company

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#### VPS series scope of supply

##### Standard equipment

ASE series gas turbine  
Natural gas fuel system  
  
Lube system (water cooled)  
Electro hydraulic start system  
Structural steel base, weatherproof acoustic enclosure (gas turbine, reduction gearbox) with ventilation air system  
Allen Bradley PLC

##### Optional equipment

Gas turbine water wash system  
Distillate fuel system, dual fuel system, fuel gas conditioning skid, fuel gas compressor, water injection system  
  
Oil/Air cooler  
Black start system  
No enclosure, no fire and combustible gas detection or suppression systems  
  
MCC, HMI-Station, uninterruptible power supply (UPS), control room building, remote control interfaces  
Self cleaning filter, chilling, evaporative cooling  
Exhaust silencer, stack

Combustion air intake system (two stage barrier filter)  
Exhaust gas diffuser and expansion metal bellows