



# ASE40 & ASE50B *GAS TURBINES*

The ASE40 & ASE50B gas turbine are compact, rugged power units designed for stationary, portable, mobile, industrial and oilfield applications. The core is a well proven design, having accrued over 15 million operating hours in harsh military and commercial service.

Vericor's aero-derivative gas turbine solutions have high power density, and light-weight footprint allowing for easy installation in locations where space is limited and there is a need for high reliability with a cost-effective solution.

## Proven Benefits

### HIGH RELIABILITY

Rugged design with cold end drive and military heritage with over 15 million hours in harsh environment for maximum reliability.

### FUEL FLEXIBILITY

Dual fuel with either gas (NG, CNG, LPG, wellhead gas) or liquid and fuel switching at full load. Fuel flexibility eliminates single fuel dependency and reduces fuel costs.

### ECO-FRIENDLY: GREEN AND SUSTAINABLE

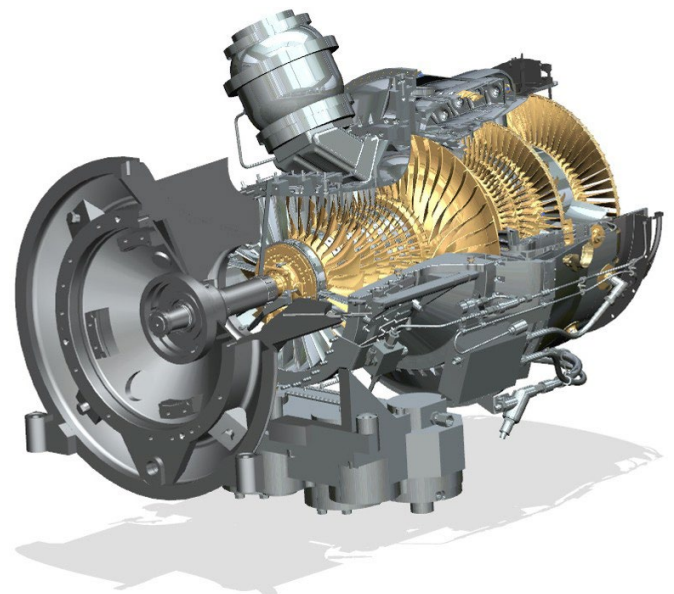
Lower emissions and noise compared to reciprocating engines.

### COST-EFFECTIVE MAINTENANCE

Low maintenance costs with 60,000 hours between major overhauls.

### EFFICIENT AND FLEXIBLE

High part load efficiency from twin shaft design. High CHP process efficiency from exhaust stream.



## Applications

- Mobile Power Generation
- Simple Cycle Power Generation, Microgrids & Emergency Systems
- Combined Heat & Power
- Mechanical Drive for Compression and Pumping

# Features and Capabilities



## COST EFFECTIVE

Simple, reliable design reduces operating & maintenance costs



## COMPACT

High power density reduces system footprint and weight



## FAST START

Fast start with no impact on life; from zero to full load in less than one minute



## EASY MAINTENANCE

Modular - on site module and engine replacement time in less than 8 hours, no realignment required



## FLEXIBLE FUEL

Runs on natural gas (NG,CNG, LNG) or liquid fuel



## SWAP FUEL TYPE

Switch fuel type (gas/liquid) while operating at full load



## DIRECT MOUNT

Direct mount to driven equipment eliminating alignment

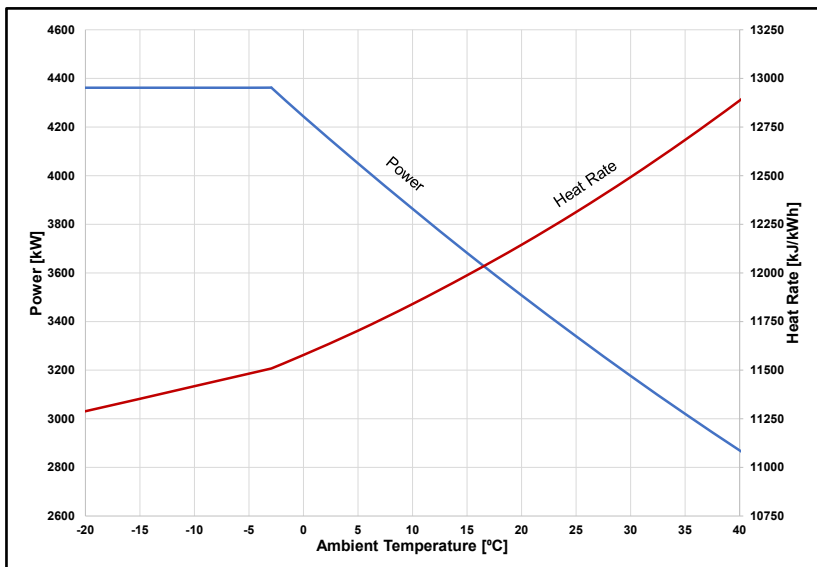


## OPEX ADVANTAGES

Fast service of modules or swap entire gas turbine reducing personnel and logistic cost

# Turbine Specifications

## Power & Heat Rate vs Ambient Temperature ASE50B



Continuous Power & Heat Rate ratings at sea level, no losses, natural gas fuel

Performance		ASE40	ASE50B
Continuous Power (MCP)	shp	4,291	4,938
	kW	3,200	3,682
Boosted Power (MIP)	shp	4,720	5,432
	kW	3,520	4,051
Heat Rate	Btu/kWh	12,105	11,305
	kJ/kWh	12,771	11,927
Thermal Efficiency	%	28.2	30.2
Exhaust Temperature		1,081	1,077
		582	580
Exhaust Flow	lb/sec	28.2	30.3
	Kg/sec	12.8	13.7
Weight	lb	1,325	1,440
	Kg	601	654
Length	in	52	52
	mm	1,321	1,321
Width	in	30	41
	mm	762	1,014
Height	in	36	35
	mm	914	889

At ISO Conditions, uninstalled