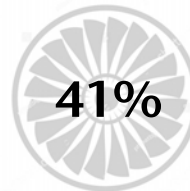


# FT4000<sup>®</sup> SWIFTPAC<sup>®</sup>

# Gas Turbine Package



## POWER



## EFFICIENCY

- ✓ Flexible solutions customized to meet demanding customer requirements
- ✓ Reliable peaking and base load power within a compact footprint
- ✓ Superior fault-ride-through and grid stability characteristics
- ✓ Fast-track deployment/installation
- ✓ Multiple gas and liquid fuel options
- ✓ Fast-start; fast ramp
- ✓ Low-cost O&M

AERO-DERIVATIVE

ADVANTAGE

### Package, Install, Commission

- Single- or dual-engine configuration
- Modular design
- Maximum factory assembly
- Optimized shipping sizes
- Prefabricated field piping
- Interconnecting quick-disconnect cables
- Reduced transportation time and cost
- Minimal installation time
- Efficient commissioning

### Perform

- 5-minute fast start; fast ramp
- Wet compression for improved performance
- High part load efficiency
- Highest power output of any aero-derivative package
- Synchronous condensing
- Low turn down ratio

### Operate and Maintain

- Proven industrial components
- Integrated ancillary systems
- Limited on-site inventory
- Ease of operation and maintenance
- Quick engine changeout

# PW Power Systems

A Group Company of Mitsubishi Hitachi Power Systems

Simple-cycle (50 Hz)	FT4000 SWIFTPAC 60	FT4000 SWIFTPAC 120
Gross output (kW)	70,154	140,376
Gross heat rate (Btu/kWh, LHV)	8,352	8,348
Gross heat rate (kJ/kWh, LHV)	8,812	8,808
Gross efficiency (%)	40.9	40.9
Exhaust flow (lbs/sec)	401	803
Exhaust flow (kg/sec)	182	364
Exhaust temp (°F / °C)	793 / 423	793 / 423
Ramp rate (MW/minute)	31 to 55	62 to 110
Minimum start-up time (cold iron; minutes)	5	5
GT minimum turn down load with emissions (%)	50	50

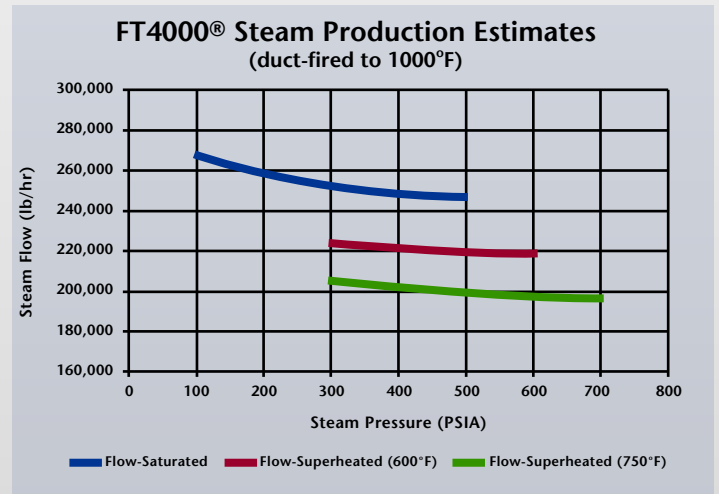
Combined-cycle (1 x 1)	FT4000 SWIFTPAC 60	FT4000 SWIFTPAC 120
Net output (kW)	86,431	174,178
Net heat rate (Btu/kWh, LHV)	6,814	6,762
Net heat rate (kJ/kWh, LHV)	7,190	7,135
Net efficiency (%)	50.1	50.5

NOTE: ISO conditions; natural gas fuel; zero installation losses



Simple-cycle (60 Hz)	FT4000 SWIFTPAC 60	FT4000 SWIFTPAC 120
Gross output (kW)	70,836	141,567
Gross heat rate (Btu/kWh, LHV)	8,269	8,248
Gross heat rate (kJ/kWh, LHV)	8,724	8,702
Gross efficiency (%)	41.3	41.4
Exhaust flow (lbs)	401	802
Exhaust flow (kg/sec)	182	364
Exhaust temp (°F / °C)	785 / 418	784 / 417
Ramp rate (MW/minute)	31 to 55	62 to 110
Minimum start-up time (cold iron; minutes)	5	5
GT minimum turn down load with emissions (%)	50	50

### Cogeneration



### Additional Specs

	FT4000 SWIFTPAC 60	FT4000 SWIFTPAC 120
Gas fuel hot section hours	25,000	25,000
Overhaul hours	50,000	50,000
Sound level, near field (dBA average)	85	85
Footprint (approx. LxWxH; ft)	95 x 74 x 44	170 x 91 x 44
Footprint (approx. LxWxH; m)	29 x 23 x 10	52 x 28 x 10

# PW Power Systems

A Group Company of Mitsubishi Hitachi Power Systems

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