

FAIRBANKS MORSE ENGINE DIVISION

INTRODUCES REVOLUTIONARY DUAL FUEL
TECHNOLOGY FOR STATIONARY
POWER AND CO-GENERATION APPLICATIONS

The *Enviro-Design*[®] Family of Engines



Engine evolution continues at the Fairbanks Morse state-of-the-art development facility.

Cotec Industries



Fairbanks Morse

Engine Division

STATE-OF-THE-ART RECIPROCATING DUAL FUEL ENGINES TO MEET TOMORROW'S ENVIRONMENTAL REQUIREMENTS

Embra-Design[®] Engines feature pre-combustion chamber compression ignition and are characterized by:

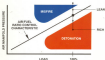
- High Specific Output
- Improved Specific Fuel Consumption
- Reduced NOx/CO Quantities
- Reduced Exhaust Emissions

The *Embra-Design*[®] Family of Engines . . .

Incorporate cutting edge technology with a robust design to withstand firing pressures formerly associated only with diesel engines

Engines Rate Themselves Dec.

- Firing Pressure
- Stroke
- Pre-Torque Temperature
- Turbocharge RPM



Refinements in air/fuel ratio controls permit continuous dual fuel operation without misfire or detonation

E-SERIES DUAL FUEL	PC2.5 DUAL FUEL
252 HP/CYL - 1300 RPM	252 HP/CYL - 1314 RPM
266 HP/CYL - 900 RPM	
1.0 GRADE HP - 14% NO _x	1.0 GRADE HP - 14% NO _x
1% PILOT OIL	1% PILOT OIL
500-875 LB HP - HR	500-875 LB HP - HR

The E-Series engine, when equipped with the **Enviro-Design®** technology, is one of the most efficient low-emission engines available in the 1,000 - 3,000 HP range.

**E-Series Dual Fuel****PC2.5 Dual Fuel**

On test is an 18-cylinder PC2.5 dual fuel engine similar to the **Enviro-Design®** PC2.5.



THE PRIDE AND THE POWER

a Century of Tradition

A custom-engineered design is combined with Fairbanks Morse's advanced engine technology to produce a power plant that is a world of possibilities. It's built to meet the most demanding and toughest conditions – and power technology products for the needs of multiple customers. Whether you're looking for a diesel, dual fuel, or gas engine.

The Engine Design Group offers advanced engineering solutions for powerplants, marine propulsion and auxiliary, and power generation. Our power generation, industrial and marine applications are designed with advanced engineering and a commitment to excellence. We're proud to be a leader in the industry.

Our engine technology is used in a wide range of applications. From the most demanding marine propulsion and auxiliary, to power generation, industrial and marine applications. Our power generation, industrial and marine applications are designed with advanced engineering and a commitment to excellence. We're proud to be a leader in the industry.

According to our customers, we're the industry's most reliable power plant and engine. Our distribution and service network is a testament to our commitment to excellence.

For more information, visit our website at www.fairbanks-morse.com.

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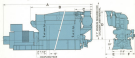
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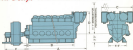
Engine Division

Fairbanks-Morse® B-SERIES RATINGS AND DIMENSIONS



DUAL FUEL			A	B	C	D	E	F	APPROXIMATE WEIGHT - LBS.
HP	kW	EFF.							
1500/1040	1000kW	8	207.63"	127.13"	33"	31"	34.13"	201.13"	41,000
1800/1300	1000kW	8	225.51"	127.13"	31.13"	33.63"	35.51"	201.13"	75,000
2000/1450	1000kW	10	242"	127.13"	31.13"	31"	35.13"	201.13"	85,000

Fairbanks-Morse® PCC-3 RATINGS AND DIMENSIONS



DUAL FUEL			A	B	C	D	E	F	APPROXIMATE WEIGHT - LBS.
HP	kW	EFF.							
1000	714	12	247"	147"	112"	31"	31"	47"	148,000
1250	914	12	258"	147"	112"	31"	31"	112"	160,500
1400	1014	12	271.5"	147"	112"	31"	31"	121.5"	165,000
1700	1214	12	312"	147"	112"	31"	31"	121.5"	188,000

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7/24/93 (01/93)

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