



# SCORE™ 70 SERIES ROTARY ENGINES

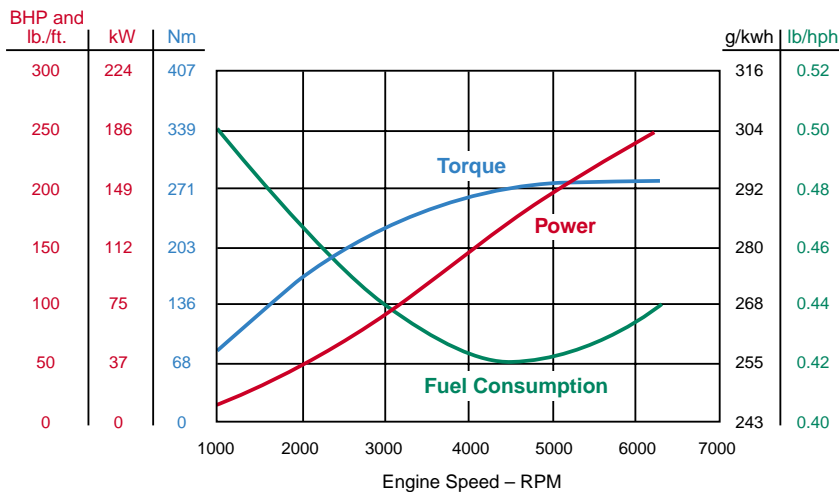
ROTARY POWER INTERNATIONAL, INC.



## MODEL 2013R 250HP

**DIMENSIONS:** 686mm (27 in.)L, 711mm (28 in.)W, 711mm (28 in.)H

### PERFORMANCE AND BRIEF SPECIFICATIONS FOR MODEL 2013R



• For multi-rotor versions, power and torque increase in proportion to the number of rotors. Specific fuel consumption is the same.

#### 2-rotor engine

**Displacement** – 1.3L (80 in.<sup>3</sup>)

**Weight** – 159 kg (350 lb.) Dry

**Rated power** – 186 kW (250hp)

**Rated speed** – 6250 rpm

**Injection** – direct

**Ignition** – spark

**Fuel** – multiple fuel use (includes combat gasoline, JP-5, JP-8, Jet A, No. 1 and No. 2 diesel fuel)

**Rotation** – counterclockwise when viewed from flywheel end of engine

### ENGINE DESCRIPTION:

The SCORE™ 70 Series (Stratified Charge Omnivorous Rotary Engine) family of rotary engines is a turbocharged, high pressure direct injected, spark ignited rotary engine. The Model 2013R, shown at left, will be available in prototype configuration for field trials in 2001 with production engines available in 2002. RPI's SCORE™ 70 Series family of rotary engines will offer power sizes of 125, 250 and 500 horsepower in 1, 2 and 4 rotor models, respectively.

### ADVANTAGES:

- All RPI rotary engines will offer these advantages:
- Patented stratified charge, which allows SCORE™ engines to use a wide range of liquid fuels
  - Exceptional power density
  - Low weight
  - Compact size
  - Fuel efficient
  - Design simplicity
  - Unaided cold weather start-up to –25°F
  - High degree of parts commonality
  - Fewer parts
  - Modular construction
  - Low noise and vibration
  - Low magnetic signature

### FEATURES:

- 12 or 24-Volt, belt-driven alternator
- Oil and charge air heat exchangers
- RPI Electronic Engine Management System
- Turbocharger with insulation standard
- SAE flywheel housing bolt pattern
- Electronic fuel injection
- Full flow spin-on lube oil and fuel filter
- 24-Volt starter – top mounted
- Engine mounts
- Ceramic apex seals, investment cast stainless steel rotors, hard coated trochoid running surface, precision-cast aluminum alloy power section housings

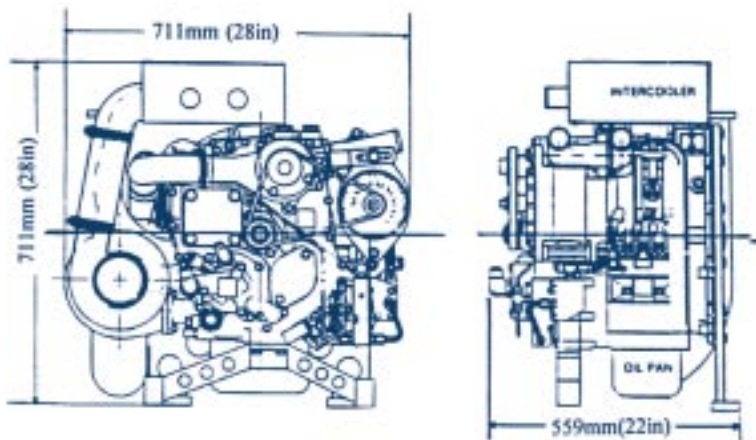
Manufactured by  
**PEGASUS TECHNOLOGIES INC.**  
(A wholly-owned subsidiary of RPI)

**SCORE 70 (continued)**

# THE SCORE™ 70 SERIES FAMILY OF ENGINES

## ROTARY ENGINE DIMENSIONS:

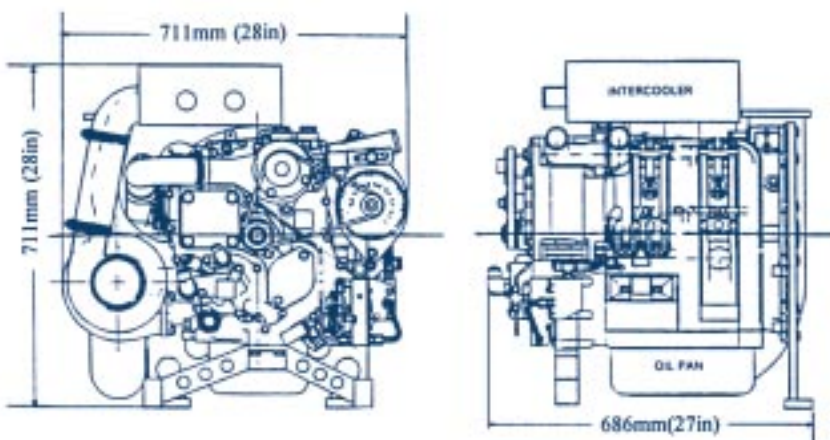
### MODEL 1007R



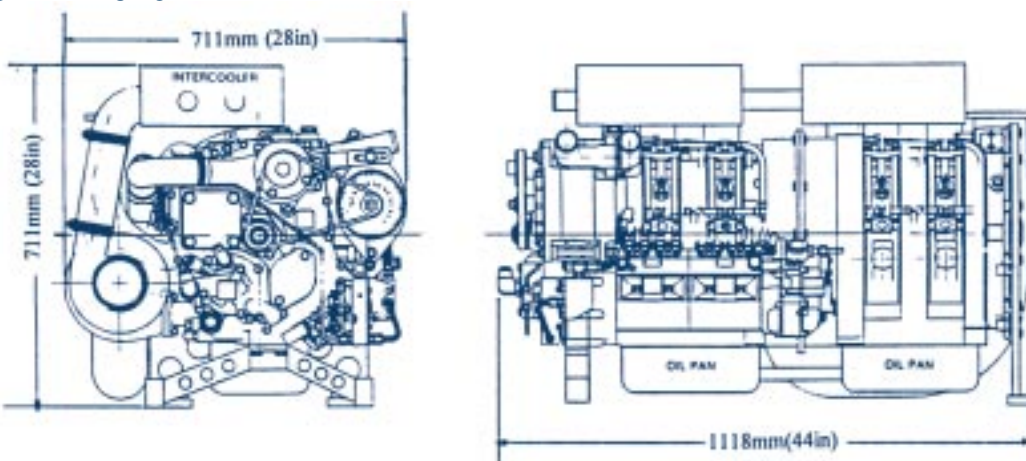
For more information about RPI Rotary Engines visit our websites at [www.rotarypowerinternational.com](http://www.rotarypowerinternational.com) and [www.pegasuspowers.com](http://www.pegasuspowers.com) or write Rotary Power International, Inc., PO Box 128, Wood-Ridge NJ 07075-0128.

All specifications are subject to change without notice.

### MODEL 2013R



### MODEL 4026R



### SCORE 70 SERIES PERFORMANCE AND BRIEF SPECIFICATIONS:

Model No.	No. of Rotors	Displacement L (in. <sup>3</sup> )	Max Power kW (BHP)	Weight-Dry Kg (lb.)	Specific Kg/kW	Weight lbs/hp
1007R	1	.7 (40)	93 (125)	125 (275)	1.34	2.20
2013R	2	1.3 (80)	186 (250)	159 (350)	0.85	1.40
4026R	4	2.6 (160)	373 (500)	308 (680)	0.83	1.36