

# HazPak® 100 (NA variable)

Perkins 1104C-44

55 bkW ± 3% (74 bhp ± 3%) 2200 rpm



## **PACKAGE SPECIFICATIONS**

## **FEATURES**

# **Improving Workforce Efficiency**

- Standard factory certifications improve worksite safety
- ATEX Directive (2014/34/EU) Group IIA
- Category 3G (Zone 2) Temperature Class T3.
- Certified flameproof intake system to prevent any internal explosions from propagating to external atmosphere
- ATEX-designed and tested exhaust system, compliant to EN 1834-1

#### **Making Your Investment Work Harder**

- Maintains high power over broad range of operating speeds, improving performance
- Steady torque rise provides superior load acceptance
- Optimized ambient and altitude capabilities for operating flexibility

#### **Committed to Sustainable Development**

- Meets today's emission standards for well service applications
  - -CCNR Stage 2/U.S.A. 40 CFR Part 94 Marine Tier 2

#### **Driving Down Total Cost of Ownership**

- Improved serviceability versus the competition
- Industry-leading component overhaul life

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### **HAZPAK SOLUTION**

- Matched exhaust and inlet systems
- Integrated control system
- Take the risk out of specification and procurement of individual parts
- All skin temperatures and exhaust gas < 200°C (T3)</li>
- Certified to maintain T3 skin temperatures for up to 45°C ambient applications

#### **Class-leading safety**

- ATEX 2014/34/EU
- Machinery safety directive 2006/42/EC
- IFCFX

#### Superior corrosion resistance

• Marine grade solder dipped core radiator

#### STANDARD PACKAGE EQUIPMENT

#### Air Inlet System

ATEX-designed and tested inlet system, compliant to EN 1834-1; stainless steel flame arrestor; integrated air shutdown valve, activates on overspeed and emergency stop; available in hydraulic, pneumatic, electric configurations; air cleaner, single element canister type with service indicator and rain cap

### Cooling System

Closed cooling system with air blast radiator and charge air cooling, marine radiator with full solder-dipped core, radiator cooled packages sized for 45°C ambient air temp, gear-driven centrifugal jacket water pump, de-aeration expansion tank, exhaust gas heat exchanger, additional heat load from exhaust heat exchanger included in cooling circuit

#### **Exhaust System**

ATEX-designed and tested exhaust system, compliant to EN 1834-1; comprised of exhaust gas heat exchanger; stainless steel flame arrestor; stainless steel spark arrestor; water-cooled exhaust manifold

#### Flywheel and Flywheel Housing

#### **Fuel System**

Mechanical fuel injection, primary fuel filter/water separator with 1/4" BSPP connectors (LH), secondary fuel filter (LH), fuel priming pump manual, fuel shutoff valve

#### General

Package ambient capability is -20°C to 45°C; mechanical systems are designed for Gas Group IIA; electrical systems are designed for Gas Group IIC; all systems meet temperature class T3 (200°C limit); includes a declaration of conformity for the entire package scope; radiator package, engine, and exhaust system fitted to sub-frame; air filter, fuel/water separator, remote oil filter installed and mounted; earth bonding per standard EN 60079-14

#### Lube System

Locking oil filter (LH), locking dipstick (LH), flame trap breather

#### **OPTIONAL EQUIPMENT**

#### Air Compressor

Single cylinder, 225 CC with head unloader

## **Charging System**

12V, 45A alternator with 75AH battery pack 24V 16A alternator with 75AH battery pack 24V 25A alternator with 75AH battery pack

#### **Control System**

Local panel at side of engine, includes: coolant temperature gauge, lube oil pressure gauge, exhaust gas temperature gauge, exhaust gas backpressure gauge, engine speed gauge, stop switch

#### **Exhaust System**

18 dBA spark arrestor/muffler, ATEX-approved

## **Shutdown System**

Pneumatic, hydraulic, and electric solutions

#### **Starting System**

Pneumatic, electric, and hydraulic starters available

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# **PERFORMANCE DATA**

# Naturally Aspirated - 2200 rpm

General Performance Data					
Percent Load	Engine Power		Engine Torque		
	bkW	bhp	N•m	lb-ft	
100	55	73.8	239	176	
90	55	73.8	250	184	
80	54	72.4	258	190	
70	52	69.7	261	193	
60	51	68.4	261	200	
50	49	65.7	271	203	
40	47.5	63.7	275	209	
30	44.5	59.7	283	209	
20	42	56.3	283	211	
10	39	53.3	286	211	

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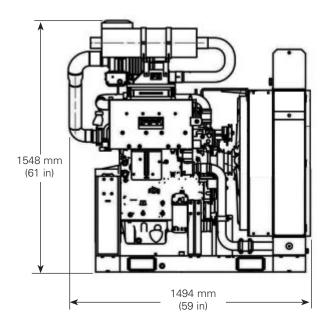


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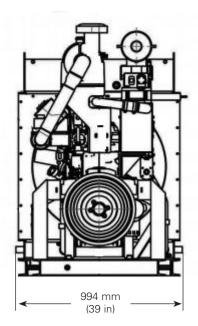
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# **DIMENSIONS**

## **RIGHT SIDE VIEW**



#### **FRONT VIEW**



DIMENSIONS*				
Length	mm (in)	1494 (59)		
Width	mm (in)	994 (39)		
Height	mm (in)	1548 (61)		
Shipping Weight	kg (lb)	970 (2138)		

<sup>\*</sup>Typical dimension shown. Height will increase if silenced spark arrestor is chosen.