Specifications Data

**Prime Aire Plus**

**Model PAH4F60-4045H**

**Size 6” x 4”**

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**Diesel Engine Driven**

**Priming Assisted Centrifugal Pump w/Autostart**

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**Specifications Data**

**TOTAL HEAD**

| Capacity of Pump in U.S. Gallons per Minute (GPM) at Continuous Performance |
|-----------------------------|---------------------------------|-----------------------------|
| P.S.I. | Feet | 190 | 190 | 190 | N/A | N/A |
| 112.7 | 260 | 560 | 560 | 560 | N/A | N/A |
| 104.0 | 240 | 685 | 960 | 1135 | N/A | N/A |
| 86.7 | 200 | 700 | 975 | 1145 | 1340 | 1340 |
| 69.4 | 160 | 715 | 990 | 1170 | 1380 | 1585 |
| 52.0 | 120 | 730 | 1000 | 1185 | 1390 | 1590 |
| 34.7 | 80 | 740 | 1015 | 1220 | 1400 | 1600 |

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**Priming Lift**: 25’ 20’ 15’ ±10’ ±5’

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**PUMP SPECIFICATIONS**

- **Size**: 6” x 4” (152 mm x 102 mm) Flanged.
- **Casing**: Ductile Iron 65-45-12.
- **Maximum Operating Pressure**: 159 psi (1096 kPa).*
- **Enclosed Type, Two Vane Impeller**: Ductile Iron 65-45-12.
- **Handles 3” (76.2 mm) Diameter Spherical Solids.**
- **Suction Head**: Gray Iron 30.
- **Suction Spool**: Gray Iron 30.
- **Impeller Shaft**: Alloy Steel 4150M.
- **Replaceable Wear Ring**: Ductile Iron 65-45-12.
- **Bearing Pedestal**: Gray Iron 30.
- **Seal Plate**: Gray Iron 30.
- **Seal**: Mechanical, SAE 30 Non-Detergent Oil-Lubricated. Silicon Carbide Rotating Face and Stationary Seat. Fluorocarbon Elastomers (DuPont Viton or Equivalent), Stainless Steel 18-8 Cage and Stainless Steel 316 Spring. Maximum Temperature of Liquid Pumped 160°F (71°C).*
- **Shaft Sleeve**: Stainless Steel 303/304.
- **Priming Chamber**: Gray Iron 30 Housing w/Stainless Steel Float and Linkage.
- **Discharge Check Valve**: Ductile Iron Housing w/Viton Flapper.
- **Radial Bearing**: Open Roller.
- **Thrust Bearing**: Open Double Ball.
- **Bearing Cavity Lubrication**: Lithium EP2 Grease.
- **Gaskets**: Vegetable Fiber.
- **O-Rings**: Buna-N.
- **Hardware**: Standard Plated Steel.
- **Seal Cavity Oil Level Gauges**: *Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*
- **Standard Equipment**: Strainer, Gear-Driven Air Compressor, Hoisting Bail, Combination Skid Base w/Fuel Tank. **Single Ball Type Float Switch**.
- **Optional Equipment**: Battery, NPT Threaded Flange Kit, Suction Vacuum and Discharge Pressure Gauge Kit, High Speed (55 MPH/89 KM/H) Tandem Axle Pneumatic-Tired Wheel Kit w/ DOT Approved Lights and Electric Brakes. **Tandem Axle Over-the-Road Trailer, Full Feature Control Panel**. For Use w/Submersible Transducer Liquid Level Sensor (50 Ft. [15 M] Cable Standard, Alternate Lengths Available).

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**ENGINE SPECIFICATIONS**

- **Model**: John Deere 4045H “Power Tech”.
- **EPA Tier**: Tier 3.
- **Type**: Four Cylinder, Turbocharged, Charge Air Cooled, Enclosed, Liquid Cooled Diesel Engine.
- **Displacement**: 275 Cu. In. (4,5 liters).
- **Full Load Operating Time**: 12.7 Hrs.
- **Starter**: 12V Electric.
- **Standard Features**: Muffler w/Weather Cap.
- **Optional**: Electronic Fuel Level Sensor.

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**GORMAN-RUPP PUMPS**

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**Specification Data**

**APPROXIMATE DIMENSIONS and WEIGHTS**

- **SKID BASE**
  - NET WEIGHT: 3438 LBS. (1559 KG.)
  - SHIPPING WEIGHT: 3738 LBS. (1695 KG.)
  - EXPORT CRATE SIZE: 372 CU. FT. (11 CU. M.)

- **2-WHEEL**
  - NET WEIGHT: 3933 LBS. (1784 KG.)
  - SHIPPING WEIGHT: 3933 LBS. (1784 KG.)

**DIMENSIONS**

- **DISCHARGE**
  - 4.00 NOMINAL WITH 8 HOLES .75/19.05 DIA EQUALLY SPACED ON A .75/19.05 DIA B.C.

- **SUCTION**
  - 6.00 NOMINAL WITH 8 HOLES .75/19.05 DIA EQUALLY SPACED ON A .75/19.05 DIA B.C.

**PERFORMANCE CURVE**

- JOHN DEERE 4045H DIESEL ENGINE
- VOLUTE 38218-304
- IMPeller 38621-788
- MODEL PAH4F-4045H-1
- SIZE 6X4
- IMp.DIA. 13.50'
- SP.GR. 1.0
- RPM NOTED

- PERFORMANCE SHOWN DOES NOT INCLUDE UNLOADING CHECK VALVE LOSS

**TOTAL HEAD**

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