

[Manuals.plus](#) /

› [Aceup Energy](#) /

› Aceup Energy 9HP 274cc Gas Engine (Model AE274) Instruction Manual

Aceup Energy AE274

Aceup Energy 9HP 274cc Gas Engine (Model AE274) Instruction Manual

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Aceup Energy 9HP 274cc Horizontal Shaft Gas Engine, Model AE274. Please read this manual thoroughly before operating the engine.

Key Features:

- Shaft 1" (25mm) diameter, 3.48" long, end tapped with 7/16"-20 UNF, Keyway 9/32".
- 4-stroke, air-cooled OHV gasoline engine with recoil start.
- 9HP at 3800 RPM.
- 1.32-gallon fuel tank capacity.
- Equipped with steel camshaft, forged crankshafts, and cast iron cylinder liners for durability.
- EPA compliant and functionally tested prior to shipment.



Figure 1.1: Aceup Energy 9HP 274cc Gas Engine, showing the overall design and components.

2. SPECIFICATIONS

The following table details the technical specifications of the Aceup Energy AE274 gas engine:

Specification	Value
Engine Type	Single-cylinder, 4-Stroke, Air-cooled, OHV Gasoline Engine
Bore x Stroke	75 x 62 mm
Displacement Capacity	274 cc
Max. Output/HP/RPM	9 HP / 3800 RPM
Fuel Consumption	390 g/kWh
Ignition System	Transistorized Magneto Ignition

Specification	Value
Spark Plug	F7TC
Fuel Oil Tank Capacity	1.32 Gallons (5 Liters)
Lubrication Oil Type	SAE 10W/30 (API SJ or higher)
Lubrication Oil Volume	0.18 Gallons
Starting System	Recoil
EPA Compliant	Yes
Product Dimensions	18.38 x 17.71 x 17.12 inches
Item Weight	42 pounds

SPECIFICATIONS

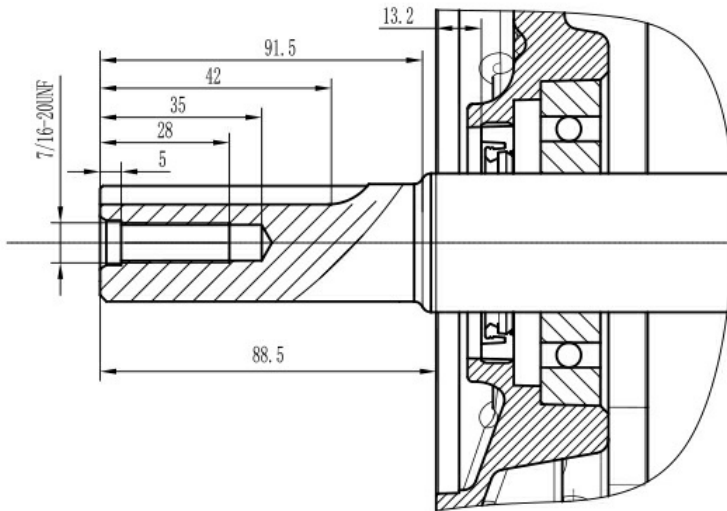
Engine Type	Single-cylinder, 4-Stroke, Air-cooled, OHV Gasoline Engine
Bore x Stroke(mm)	75x62
Displacement Capacity(cc)	274
Max.Output/HP/rpm	9/3800
Fuel Consumption(g/kWh)	390
Ignition System	Transistorized Magneto Ignition
Spark Plug	F7TC
Fuel Oil Tank Capacity(gal)	1.32
Lubrication Oil	SAE 10W/30
Lubrication Oil Volume(gal)	0.18
Starting System	Recoil
EPA	YES
Package Size(cm)	46x45x43
Gross Weight(lbs)	46.3



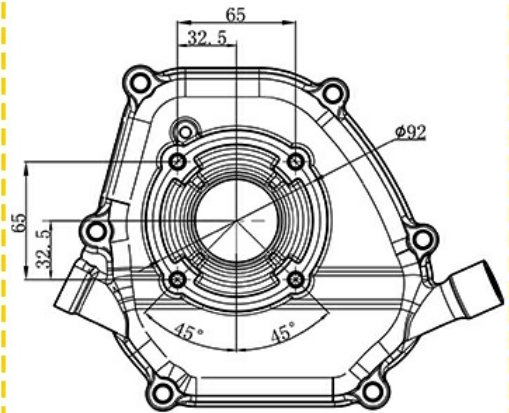
Figure 2.1: Detailed specifications for the Aceup Energy AE274 engine.

[illegible]

SPECIFICATIONS



Unit: mm



Unit: mm

Figure 2.3: Technical drawing showing the dimensions of the engine's base and side cover.

3. SETUP AND PREPARATION

3.1 Adding Engine Oil

Before starting the engine, ensure the crankcase is filled with the recommended oil type and to the correct level.

1. Place the engine on a level surface.
2. Remove the oil dipstick (see Figure 3.1).
3. Using a funnel, slowly add SAE 10W-30 API SJ or higher engine oil into the oil fill opening.
4. Check the oil level using the dipstick. The oil level should be within the safety range, between the highest and lowest marks on the dipstick (see Figure 3.2). Do not overfill.
5. Reinstall the oil dipstick securely.

SPECIFICATIONS



Figure 3.1: Location of the oil dipstick on the engine.



Figure 3.2: Checking the engine oil level using the dipstick. The oil should be within the indicated safety range.

3.2 Adding Fuel

Use unleaded gasoline with an octane rating of 87 or higher. Do not use E85 or gasoline containing more than 10% ethanol.

1. Ensure the engine is off and cool.
2. Open the fuel tank cap.
3. Carefully pour unleaded gasoline into the fuel tank. Do not fill above the maximum fuel level indicated (approximately 25mm or 1 inch below the top of the fuel tank opening).
4. Securely close the fuel tank cap.



Figure 3.3: The Aceup Energy AE274 engine is suitable for various applications such as lawn mowers, wood splitters, high-pressure washers, and water pumps.

4. OPERATING INSTRUCTIONS

4.1 Starting the Engine

Follow these steps to start your Aceup Energy gas engine:

1. Turn the engine switch to the **ON** position.
2. Move the fuel valve lever to the **ON** position.
3. For a cold engine, move the choke lever to the **CHOKE** position. For a warm engine, leave it in the **RUN** position.
4. Adjust the throttle lever to a position about 1/3 of the way from "MIN." to "MAX."
5. Pull the starter grip lightly until you feel resistance, then pull briskly and return it gently. Repeat if necessary until the engine starts.
6. Once the engine starts, gradually move the choke lever to the **RUN** position (if it was in CHOKE).

4.2 Stopping the Engine

To stop the engine:

1. Move the throttle lever to the "MIN." position.
2. Turn the engine switch to the **OFF** position.
3. Move the fuel valve lever to the **OFF** position to prevent fuel flow.

Your browser does not support the video tag.

Video 4.1: A visual guide demonstrating the steps for preparing and starting the Aceup Energy 9HP 274cc Gas Engine, including oil and fuel filling, and control lever adjustments.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your engine. Always ensure the engine is off and cool before performing any maintenance.

5.1 General Maintenance Schedule

- **Before Each Use:** Check engine oil level, check air filter, check fuel level.
- **Every 10-20 Hours or Monthly:** Clean air filter, check spark plug.
- **Every 50 Hours or 3 Months:** Change engine oil.
- **Every 100 Hours or 6 Months:** Inspect fuel line, clean spark plug, inspect valve clearance (professional service recommended).

5.2 Air Filter Maintenance

The air filter should be cleaned regularly, especially in dusty conditions, to prevent engine damage and maintain performance. Refer to the engine's air filter housing for specific instructions on removal and cleaning.

5.3 Oil Change

Change the engine oil after the first 20 hours of operation, then every 50 hours or 3 months thereafter. Drain the old oil when the engine is warm to ensure complete drainage. Refill with the recommended oil type and quantity.

5.4 Spark Plug Inspection

Inspect the spark plug every 10-20 hours. Clean or replace if necessary. Ensure the gap is set correctly according to the specifications (F7TC spark plug).

6. TROUBLESHOOTING

If you encounter issues with your engine, refer to the following common troubleshooting steps. For complex problems, contact technical support.

6.1 Engine Will Not Start

- **No Fuel:** Check fuel level and ensure the fuel valve is open.
- **Incorrect Choke Position:** Adjust choke lever for cold or warm start conditions.
- **Engine Switch Off:** Ensure the engine switch is in the ON position.
- **Low Oil Level:** The engine may have a low oil shutdown feature. Check and fill oil to the correct level.
- **Fouled Spark Plug:** Inspect the spark plug for carbon buildup or damage. Clean or replace if necessary.
- **Stale Fuel:** Old fuel can cause starting issues. Drain old fuel and refill with fresh gasoline.

6.2 Engine Runs Poorly or Stalls

- **Dirty Air Filter:** Clean or replace the air filter.
- **Incorrect Throttle/Choke Setting:** Ensure choke is fully open after starting and throttle is set appropriately.
- **Contaminated Fuel:** Drain and replace with fresh, clean fuel.
- **Spark Plug Issues:** Inspect and clean or replace the spark plug.

7. WARRANTY AND SUPPORT

7.1 Limited Warranty

The Aceup Energy 9HP 274cc Gas Engine is backed by a **1-year limited warranty** under normal use conditions. This warranty covers defects in materials and workmanship. Please retain your proof of purchase for warranty claims.

7.2 Technical Support

Aceup Energy provides **FREE lifetime technical guidance** from experts. For any technical assistance, troubleshooting advice, or warranty inquiries, please contact Aceup Energy customer service. Refer to the product packaging or the official Aceup Energy website for contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question