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## DAHTEC BGO-30C-1

# DAHTEC Indirect Diesel Heater 30 kW User Manual

Model: BGO-30C-1

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your DAHTEC Indirect Diesel Heater 30 kW (Model: BGO-30C-1). Please read these instructions thoroughly before using the appliance and retain them for future reference.

The DAHTEC 30 kW Indirect Diesel Heater is designed for heating large, well-ventilated spaces such as workshops, construction sites, agricultural buildings, and industrial environments. It features a 50-liter fuel tank, adjustable thermostat, and multiple safety protections.



Figure 1: DAHTEC Indirect Diesel Heater 30 kW, showing its robust design and wheels for portability.



Figure 2: Examples of the DAHTEC Indirect Diesel Heater in use in a garage, construction site, and greenhouses.

## 2. SAFETY INSTRUCTIONS

Always prioritize safety when operating this appliance. Failure to follow these instructions may result in fire, electric shock, serious injury, or death.

- **Ventilation:** Ensure adequate ventilation in the operating area. This is an indirect heater, but proper air circulation is still critical to prevent oxygen depletion and the buildup of combustion byproducts.
- **Fuel:** Use only Diesel or Kerosene as fuel. Never use gasoline, paint thinners, or other highly flammable liquids.
- **Placement:** Position the heater on a stable, level surface. Maintain a safe distance from combustible materials (walls, curtains, furniture, etc.).
- **Electrical Connection:** Connect the heater to a properly grounded electrical outlet (AC 220-240V~50Hz). Do not use extension cords unless absolutely necessary and ensure they are rated for the heater's power requirements.
- **Supervision:** Do not leave the heater unattended during operation. Keep children and pets away from the appliance.

- **Maintenance:** Perform regular maintenance as described in this manual. Disconnect the power supply before any cleaning or maintenance.
- **Exhaust:** Ensure the exhaust gases are properly vented to the outside via a dedicated exhaust pipe.
- **Safety Features:** The heater is equipped with multiple safety protections including automatic shutdown for faults, flameout protection, overheat protection, and overcurrent protection. Do not attempt to bypass or disable these features.

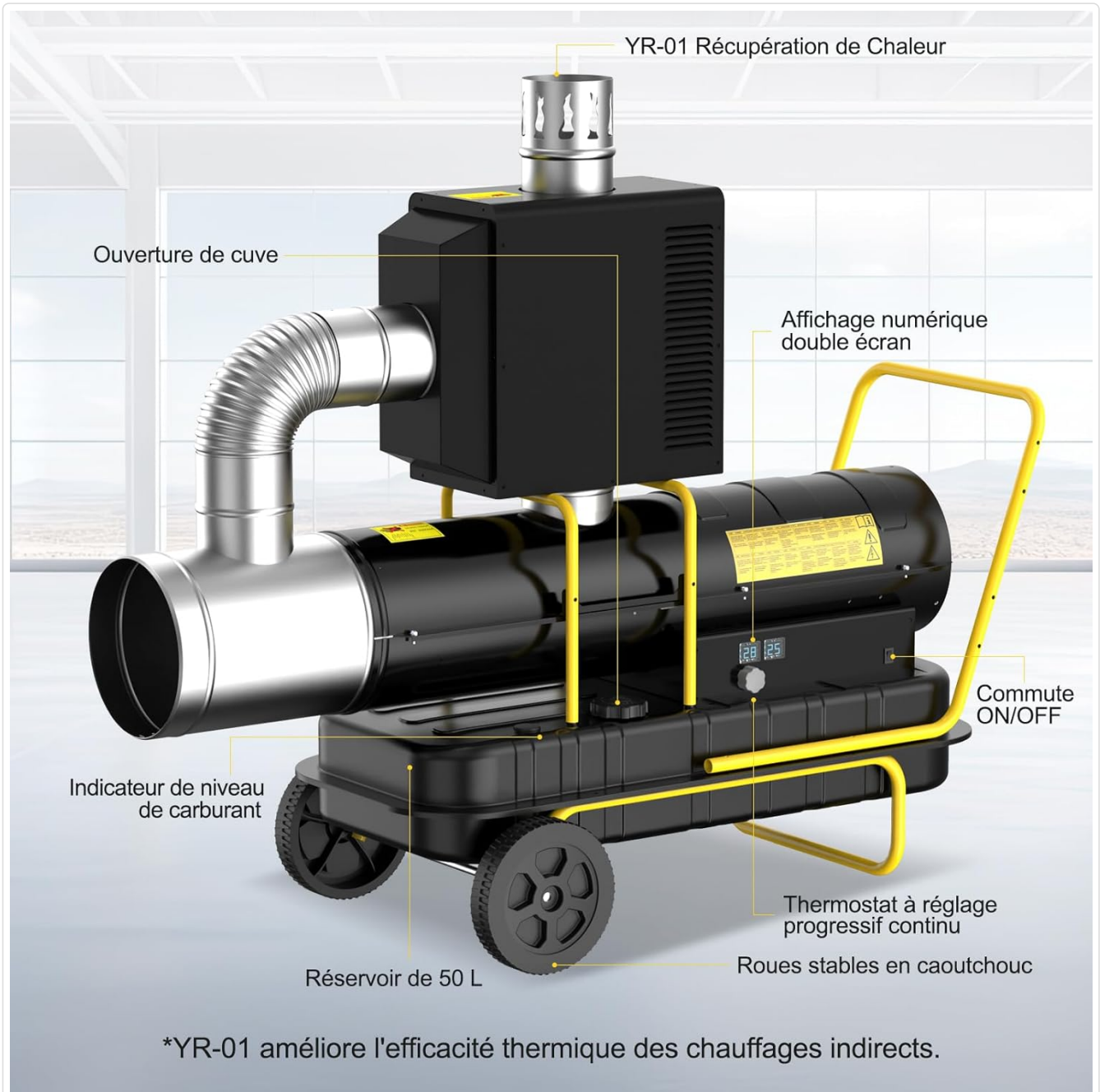


Figure 3: Overview of the heater's multi-protection system, including overheat protection, flame protection, CE marking, and fault detection. Always ensure adequate ventilation.

## 3. SETUP

### 3.1 Unpacking and Assembly

1. Carefully remove the heater from its packaging.
2. Inspect the heater for any signs of damage during transit. If damaged, do not operate and contact customer support.

3. Attach the wheels and handle assembly as per the included hardware. Ensure all fasteners are securely tightened.

### 3.2 Fueling the Heater

- Ensure the heater is turned off and unplugged before fueling.
- Open the fuel tank cap. The tank has a capacity of 50 liters.
- Fill the tank with clean Diesel or Kerosene. Do not overfill.
- Securely close the fuel tank cap.
- The integrated fuel gauge allows for easy monitoring of the fuel level.

### 3.3 Electrical Connection

- Connect the power cord to a grounded 220-240V~50Hz electrical outlet.
- Ensure the power supply matches the heater's requirements.

**HAUT RENDEMENT  
CHAUFFAGE MOBILE**

**DAHTEC®**

**20 KW  
Puissance Thermique  
Nominale**

**1.65kg/h  
Consommation de  
Carburant**

**600m<sup>3</sup>/h  
Débit Volumique d'air**

Remplissez le réservoir avec du carburant propre. Utilisez uniquement du diesel ou du kérosène.

L'indicateur de niveau de carburant situé sur le dessus du réservoir permet de vérifier la quantité de carburant.

Branchez la fiche électrique sur une prise de terre en courant alternatif 220-240 V 50 Hz.

Figure 4: Key components of the heater, including the 50L tank, fuel level indicator, ON/OFF switch, continuous adjustment thermostat, stable rubber wheels, and double-screen digital display.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Starting the Heater

1. Ensure the heater is properly set up and fueled.
2. Plug the heater into a suitable electrical outlet.
3. Turn the ON/OFF switch to the 'ON' position.
4. Set the desired temperature using the adjustable thermostat. The digital display will show the ambient temperature and the target temperature. The operating temperature range is 5°C to 55°C.
5. The heater will automatically ignite and begin heating.

### 4.2 During Operation

- Monitor the fuel level using the integrated gauge.
- The heater is designed for continuous operation, with the 50L tank providing approximately 17 hours of use at a consumption rate of 2.4 kg/h.
- The digital display provides real-time monitoring of ambient and target temperatures.

### 4.3 Shutting Down the Heater

1. Turn the ON/OFF switch to the 'OFF' position.
2. Allow the heater to cool down completely before unplugging or moving.



Figure 5: Features highlighting easy use, including the ON/OFF control, large wheels for mobility, and the thermostatic regulator.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your heater.

- **Cleaning:** Keep the exterior of the heater clean. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Air Intake/Outlet:** Ensure the air intake and outlet grilles are free from dust and debris to maintain optimal airflow.
- **Fuel Filter:** Periodically check and clean or replace the fuel filter to prevent blockages and ensure consistent fuel supply. Refer to the detailed manual for specific instructions on accessing the fuel filter.
- **Storage:** When storing the heater for extended periods, ensure the fuel tank is empty and the heater is clean and dry. Store in a cool, dry place.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, or if issues persist, contact

customer support.

Problem	Possible Cause	Solution
Heater does not start	No power supply; ON/OFF switch off; Low fuel level; Fault detected	Check power connection; Turn ON/OFF switch on; Refuel; Check digital display for error codes
Heater starts but shuts down quickly (e.g., Error E1)	Fuel supply issue (clogged filter, air in line); Overheat protection activated; Flameout detected	Check fuel filter; Ensure adequate ventilation; Allow heater to cool; Refer to detailed manual for specific error code meanings
Insufficient heating	Incorrect thermostat setting; Large area for heater capacity; Poor insulation	Adjust thermostat to higher setting; Ensure heater is appropriate for the space; Improve insulation if possible
Excessive smoke or odor	Poor fuel quality; Clogged burner; Inadequate ventilation	Use clean, recommended fuel; Clean burner components (professional service recommended); Ensure proper ventilation

**Error Codes:** The heater's digital display may show error codes such as 'E1' for various faults. Consult the detailed product manual or contact customer support for specific interpretations and solutions for each code.

## 7. SPECIFICATIONS

Feature	Specification
Model	BGO-30C-1
Brand	DAHTEC
Rated Power	30 kW
Fuel Type	Diesel / Kerosene
Fuel Consumption	2.4 kg/h
Tank Capacity	50 Liters
Recommended Heated Area	200-300 m <sup>2</sup>
Rated Voltage	AC 220-240V~50Hz
Max Air Flow	793 m <sup>3</sup> /h
Air Speed	5.0 m/s
Thermostat Temperature Range	5°C to 55°C
Operating Temperature	-20°C to 40°C
Noise Level	80 dB
Dimensions (L x W x H)	105 x 51.5 x 69.5 cm
Weight	26.5 kg

Feature	Specification
Safety Protections	Fault Detection, Overheat Protection, Overvoltage Protection, Flameout Protection, E1 Shutdown

## 8. WARRANTY AND SUPPORT

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DAHTEC provides comprehensive pre-sales and after-sales support for its products. This includes a detailed user manual and online video tutorials.

For any questions, technical assistance, or warranty claims, please contact DAHTEC customer support through the platform where the product was purchased (e.g., Amazon). Please refer to your purchase documentation for specific warranty terms and conditions, as this information is not provided in detail here.

DAHTEC is committed to providing quick solutions and technical assistance to ensure customer satisfaction.