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Airrex Portable Air Conditioners HSC-18

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Model: HSC-18

1. PRODUCT OVERVIEW

The Airrex USA 18,000 BTU Spot Cooler (Model HSC-18) is a powerful and portable air conditioning unit designed for effective cooling in various environments. It operates efficiently in air temperatures ranging from 68°F to 113°F, utilizing eco-friendly 410A refrigerant. This unit is built for ease of use and maintenance, featuring removable and washable air filters and moving easily on swivel casters, two of which are locking for secure placement.

Key features include:

- 18,000 BTU Portable Air Conditioner
- 115 Volts / Nema 5/15 GFCI electrical connection
- Includes nozzles and a condensate tank
- ETL Listed and Conforms to ANSI/UL STD., Certified to CAN/CSA standards
- Thermostatically protected compressor with high and low pressure warnings



Figure 1: Airrex USA 18,000 BTU Spot Cooler, showing the main unit with cold air discharge ducts and the top warm air exhaust port.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the Airrex Spot Cooler. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- Always connect the unit to a properly grounded 115 Volt / Nema 5/15 GFCI outlet. Do not use extension cords or adapters.
- Ensure adequate fresh air supply for proper operation, as the unit may require it.
- Do not block air intake or exhaust vents. Maintain clear space around the unit for optimal airflow.
- Do not operate the unit if the power cord or plug is damaged. Contact qualified service personnel

for repairs.

- Keep children and pets away from the unit during operation.
- The unit contains R-410A refrigerant. Servicing should only be performed by certified technicians.
- Empty the condensate tank regularly to prevent overflow and potential water damage.

3. SETUP

1. **Unpacking:** Carefully remove the unit from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the spot cooler on a flat, stable surface. Utilize the swivel casters for easy movement. Engage the locking casters once the unit is in its desired location to prevent accidental movement.
3. **Cold Air Discharge:** The unit features 5-inch diameter front cold air discharge nozzles. Direct these nozzles towards the area requiring cooling.
4. **Warm Air Exhaust:** The unit has 8-inch and 12-inch diameter top warm air discharge ports. It is crucial to exhaust warm air away from the cooled space to maximize efficiency. An optional Warm Air Duct (8'L ducting with a 2' x 2' ceiling flange) is available for exhausting warm air into a ceiling plenum or outside.
5. **Condensate Management:** The unit includes a condensate tank. For continuous operation or in high humidity environments, an optional condensate pump can be connected directly to the portable air conditioner to automatically remove condensed water.
6. **Power Connection:** Plug the unit into a dedicated 115 Volt / Nema 5/15 GFCI electrical outlet.

4. OPERATING INSTRUCTIONS

Once the unit is properly set up and connected to power, you can begin operation.

1. **Power On:** Locate the power button on the control panel and press it to turn on the unit.
2. **Temperature Setting:** Use the temperature controls on the panel to set your desired cooling temperature. The unit's compressor is thermostatically protected, ensuring efficient and safe operation within its specified temperature range.
3. **Fan Speed:** Adjust the fan speed as needed for optimal airflow and noise level.
4. **Monitoring:** Periodically check the condensate tank and ensure proper warm air exhaust. The unit includes high and low pressure warnings for the compressor, which will indicate potential operational issues.
5. **Power Off:** To turn off the unit, press the power button again.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Airrex Spot Cooler.

- **Air Filters:** The unit includes removable, washable air filters for easy maintenance. Clean these filters regularly (e.g., monthly, or more frequently in dusty environments) to maintain optimal airflow and cooling efficiency. To clean, remove the filters, wash with mild soap and water, rinse thoroughly, and allow to dry completely before reinserting.
- **Condensate Tank:** Empty the condensate tank as needed. If using the optional condensate pump, ensure it is functioning correctly and the drain line is clear.
- **Exterior Cleaning:** Wipe down the exterior of the unit with a soft, damp cloth. Do not use harsh

chemicals or abrasive cleaners.

- **Coil Cleaning:** Periodically inspect the condenser and evaporator coils for dust and debris. If heavily soiled, professional cleaning may be required.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Unit does not turn on	No power; GFCI tripped; Power button not pressed	Check power cord connection; Reset GFCI outlet; Press power button firmly
Insufficient cooling	Dirty air filters; Blocked air vents; Warm air not exhausted; Room too large; High ambient temperature	Clean air filters; Clear obstructions; Ensure warm air is exhausted; Verify unit BTU matches room size; Unit operates up to 113°F
Water leakage	Condensate tank full; Drain hose kinked/blocked (if pump used)	Empty condensate tank; Check and clear drain hose/pump
High/Low Pressure Warning	Refrigerant issue; Compressor malfunction; Airflow restriction	Turn off unit and consult a qualified technician. Do not attempt to repair refrigerant system yourself.

7. SPECIFICATIONS

Feature	Specification
Model Name	HSC-18
Cooling Power	18,000 British Thermal Units (BTU)
Capacity	1.5 Tons
Voltage	115 Volts
Power Source	Corded Electric
Refrigerant	Eco-friendly 410A
Operating Temperature Range	68°F to 113°F
Cold Air Discharge Diameter	5 inches
Warm Air Discharge Diameter	8 inches & 12 inches
Filter Type	Pre-Filter (Removable, Washable)
Mobility	Swivel Casters (2 locking)
Certifications	ETL Listed, Conforms to ANSI/UL STD., Certified to CAN/CSA

8. WARRANTY AND SUPPORT

Your Airrex USA 18,000 BTU Spot Cooler comes with the following warranty coverage:

- **1 Year Warranty:** Covers the entire unit against manufacturing defects from the date of purchase.
- **3 Year LG Compressor Warranty:** Specifically covers the LG compressor component for a period of three years.

For technical support, warranty claims, or service inquiries, please contact Airrex USA customer service. Keep your purchase receipt and model number (HSC-18) readily available when contacting support.
