

Handling Instruction for Air Conditioner Units

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This document is part of the ACAC documentation and does not replace the User Manual which is delivered with every ACAC unit.

changed by Giuseppe Marino 18.05.2009	reviewed by Andreas Scholle 19.05.2009	released by Christian George 20.05.2009

1 Air Conditioner Units delivered by INHECO

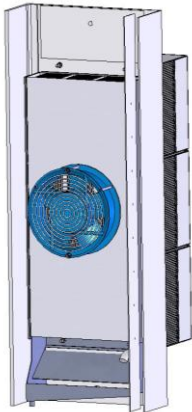
Part No. 8700001
ACAC 600BTU



Part No. 8700002 (Ex Proof)
Part No. 8700004
ACAC 1800BTU H



Part No. 8700003
ACAC 1800BTU V



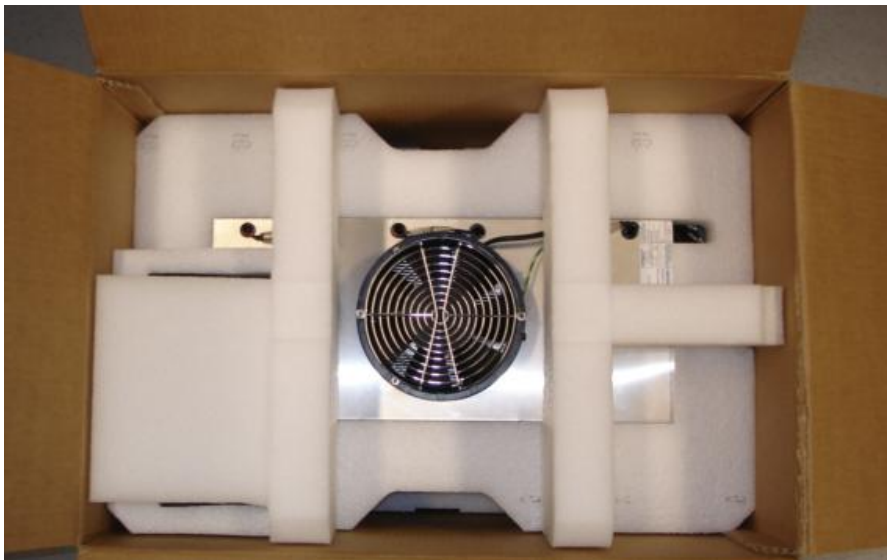
2 Packaging for ACAC 1800BTU H +V

No packing foam available for Part No. 8700001 ACAC 600BTU

Part No. 8700002 or 8700004 ACAC 1800BTU H = horizontal version



Part No. 8700003 ACAC 1800BTU V = vertical version



3 Incoming Units from INHECO

- Check that the packaging is undamaged.
- If the packaging is damaged INHECO should be informed immediately.
INHECO GmbH
D-82152 Martinsried / Munich
+49(0)89 899 593-200 (Phone)
+49(0)89 899 593-499 (Fax)
techhotline@inheco.com
- Germany
- We recommend measuring the AC-Ohm resistance of the peltier modules (see chapter 6).

4 Transportation

- For all kinds of transportation of the units only use the original INHECO packaging.
- For (return) shipments of the units, pallets have to be used.
- The peltier device of the ACAC units can be easily damaged by mechanical shock. To protect the unit it should stay in the original packaging just until the installation process starts.

5 Storage

- To store the units only use the original INHECO packaging.

6 Installation Process

6.1 General information

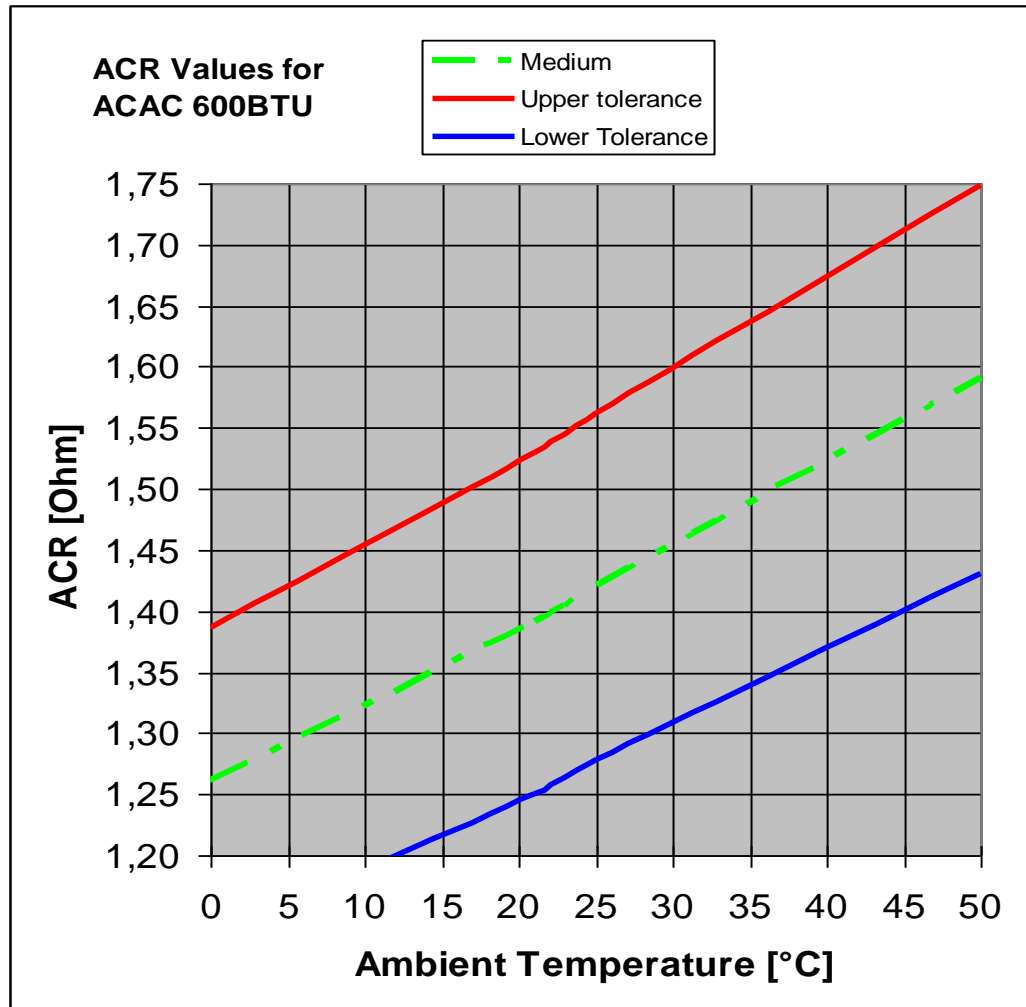
- The peltier device of the ACAC units can be easily damaged by mechanical shock.
- To protect the unit it should stay in the original packaging just until the installation process starts.
- During the installation process the units have to be handled with care.
- Falling down from about 5 cm (1.97 inch) to a hard ground can already damage the peltier devices.
- **AC-resistance measurement of the peltier modules:**
 - An AC-resistance which meets the specifications indicates that the peltier devices are undamaged.
 - A calibrated AC-resistance measurement tool must be used (e.g. LCR 131, www.megger.com).

6.2 Step by step procedure

- 1. Measure the AC resistance of the peltier modules (end splices #1,#2):**
 - Measure the ambient temperature.
 - Measure the AC-Resistance at the end of connection cables (end splices #1,#2)
 - Check whether the AC resistance is within the specified range (see tables in chapter 6.3)
 - Document the ambient temperature and the AC resistance (warranty claim).
- 2. Install the ACAC unit mechanically according to the ACAC-Users-Manual:**
 - Check that the blue Gasket is mounted correctly.
- 3. Measure the AC-resistance of the peltier modules once again, to be sure that the unit wasn't damaged during the mounting process:**
 - Measure the ambient temperature.
 - Measure the AC-Resistance at the end of connection cables (end splices #1, #2)
 - Check whether the AC resistance is within the specified range (see tables in chapter 6.3)
 - Document the ambient temperature and the AC resistance (warranty claim).
- 4. Check short circuit between grounding (yellow/green) and all wires (end splices #1 to #8).**
 - Target: $\infty \Omega$ (no beep)
- 5. Connect the thermal fuse (end splices #7, #8):**
 - *Attention:* Part No. 8700001 ACAC 600BTU has got no thermal fuses; see ACAC-Users-Manual
 - Check whether the temperature control device can detect a closed loop.
 - Disconnect the thermal fuse and check whether the temperature control device switches off the peltier power.
 - Connect the thermal fuse again.
- 6. Connect the outer and inner fans (end splice #5, #6 and #3, #4):**
 - Start the cooling mode of the temperature control device
 - All fans must work.
- 7. Connect the Peltier modules (end splices #1, #2):**
 - Start the cooling mode of the temperature control device.
 - All fans must work.
 - The cabinet heat sinks must cool down.
 - The ambient heat sinks must heat up.
- 8. The mounting procedure should be documented carefully (warranty claim).**

6.3 AC-Ohm resistance table

6.3.1 Part No. 8700001 ACAC 600BTU



6.3.2 Part No. 8700002/ -3/ -4 ACAC 1800BTU

