

**Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described.
Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and / or property damage! Retain instructions for future reference.**

AMERICOOOL by WELTEM

High Capacity Air Conditioner

(For Indoor & Outdoor)

Description

AmeriCool Portable Air Conditioners are specialized for "SPOT COOLING" where central cooling is impractical.

AmeriCool air conditioners can also be used in enclosed areas just like conventional air conditioners. Simple digital controller and self-diagnostic functions allow users to easily operate the unit. Built-in Caster wheels enable users to move the unit without any hassle. The unit can be installed in 5 minutes and does not require any extra materials or certified technician for installation.

AmeriCool Portable Air Conditioner, anywhere, everywhere. Plug-and-Go!



WPC-36003
Figure 1

Unpacking

After unpacking the unit, carefully inspect unit for any damage that may have occurred during transit. Check for any loose, missing, or damaged parts.

Specifications

Model No.	Power Supply Ph-V-Hz	Cooling Capacity Btu/h	Power Consumption Watts	Rated Current Amps
WPC-36003	3Phases - 460V - 60Hz	144,400	21.5kW	27A
Model No.	Weight (Net / Gross) Lbs(kg)	Ambient temperature range °F(°C)	Dimensions W x D x H - in. (mm)	
WPC-36003	1168/1245lbs. (530/565kg)	64~113(18~45)	34.3 x 75 x 71 (870 x 1904 x 1801)	
Model No.	Indoor Air Flow CFM	Refrigerant Type / oz(g)		
WPC-36003	4000	R-410A / 278.7(7900)		

Specifications (Continued)

Safety Devices	Compressor overload protector, Anti-freezing thermister, Automatic restart (Power interruption), Compressor time delay program, High pressure switch
Features	Temperature control, Self-diagnostic function, Optional drain pump kit, Washable filters, °C display, Off-timer
PUMP-DOWN	<p>The unit is integrated with “PUMP-DOWN” function. PUMP-DOWN function keeps compressor running for certain time to protect compressor and other crucial parts before the unit or compressor is turned off.</p> <p>PUMP-DOWN function activates,</p> <ul style="list-style-type: none"> - When the unit reaches target temperature - In between cooling mode to heating mode - In between cooling mode to Fan only operation <p>The unit operates in this particular way to protect the internal parts.</p> <p>During PUMP-DOWN cycle, the compressor and fans will be keep operating even though user turns off the unit or turns off the compressor. Please do not forcefully switch off the unit or compressor during PUMP-DOWN cycle. The unit or compressor will turn off itself when it is safe for the unit to do so.</p>

General Safety Information

Please read this manual carefully for correct installation and usage. Please read all safeguards.

1. Transport and store the unit in an upright position only. Leave unit in an upright position for at least 3 hours before first use.
2. Always place the unit on an even, level surface.
3. Ensure the unit is connected to a grounded power supply of the correct rating / capacity.
4. The unit will operate between 18°C (64°F) ~ 45°C(113°F) depending on the temperature setting.
5. DO NOT use this unit for other purposes that is not described in this instruction manual.
6. DO NOT tilt the unit.
7. NEVER unplug the unit under operation.

⚠ WARNING

DO NOT use the unit in wet environments, such as a laundry room, to avoid the risk of electrical shock.

10. DO NOT place any foreign objects on the unit.
11. DO NOT operate the unit with wet or damp hands.
12. DO NOT allow chemical substances to come into contact with the unit.
13. DO NOT operate the unit near flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

⚠ WARNING

DO NOT operate the unit in explosive or flammable environments.

14. DO NOT unplug to turn off the unit. Always use the power switch to start and to stop the unit.
15. Always turn off the unit and unplug it before cleaning, moving or performing maintenance.
16. AVOID using adapter plugs or extension cords. If extension cord or an adapter plug is needed, ensure they are correctly rated for the application. Consult a local qualified electrician for proper setup. Any extension cord used with this device must be rated for a minimum of 72A.(460V)
17. DO NOT unplug the unit by pulling on the electrical cord. Keep electrical cord away from heat sources and always completely unroll the cord to avoid overheating. If the power cord is damaged, contact a qualified service agent, qualified electrician, or similarly qualified person for replacement.

⚠ WARNING

DO NOT operate a unit with a damaged power cord.

18. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.
19. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the units output performance and efficiency will decrease.
20. DO NOT operate the unit with a damaged power cord or plug,
21. Only use in the upright position on an even, flat surface. There must not be any objects or walls within 24 inches (60 cm) from the unit.
22. Halt the unit immediately if abnormal noise or odor is detected. Contact your local service center or manufacturer.
23. Appliance is not to be operated by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
24. Children must be supervised not to play with appliance.
25. The unit must be installed in accordance with national wiring regulations.
26. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. .

Assembly (WPC-36003)

COMPONENT PARTS

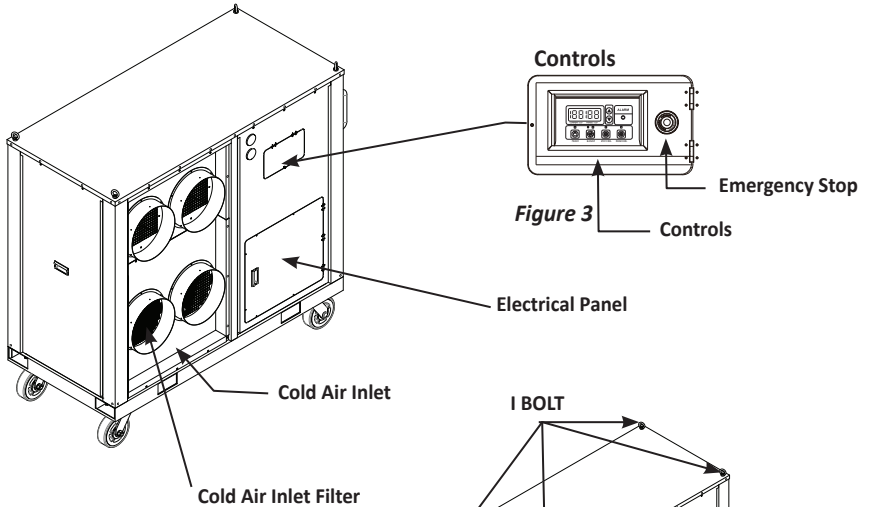


Figure 2
Front and Right Side View

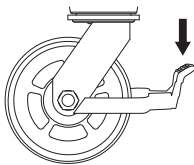
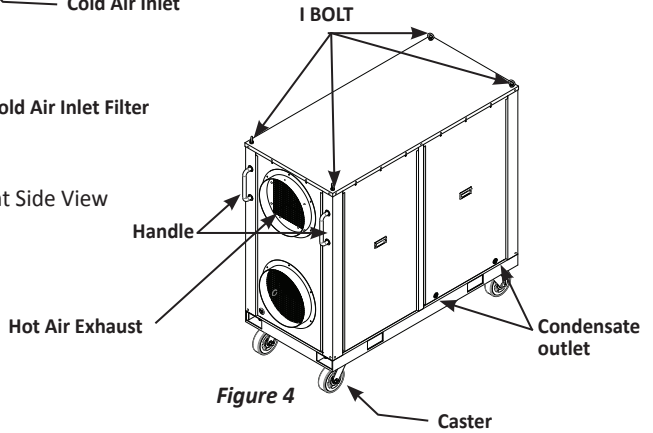


Figure 5

*Casters can be locked by
locking the break down*

DUCT CONNECTIONS

Cool Air Out Duct(EVA)

The Cool air duct connections are labeled "AIR OUT". The connection size is 350 \varnothing in diameter. Connect the flexible air ducting as follows:

1. Attach the flexible air ducting to the unit's duct collars making sure that air will not leak past the connection collar by using appropriate round flexible ducting clamps.
2. Route the ducting as straight as possible to the space being conditioned avoiding excessive turns and pinches in the ducting.
3. Verify the termination points are not restricted meaning no objects are directly in front of the termination.

Cool Air in Duct(EVA)

The Return Air In duct connection is labeled "AIR IN".

The connection size is 350 \varnothing in diameter.

Follow the same procedures as the Cool Air Duct Connections.

If you need outdoor air, please note that machine will read the temperature of the outdoor air.

Hot Air Out Duct(COND)

The Hot Air Out duct connection is labeled "AIR OUT"

The connection size is 450 \varnothing in diameter.

Follow the procedures as the cool air duct connections

Hot Air in Duct (COND)

The Hot Air Out duct connection is labeled "AIR IN"

The connection size is 450 \varnothing in diameter.

Follow the procedures as the cool air duct connections

Forklift

If a forklift is needed to move the unit, put the foot of the forklift to the forklift hole (shown in the picture: figure 8).

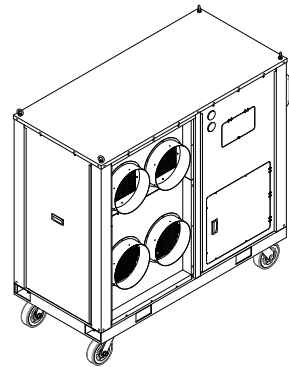


Figure 6

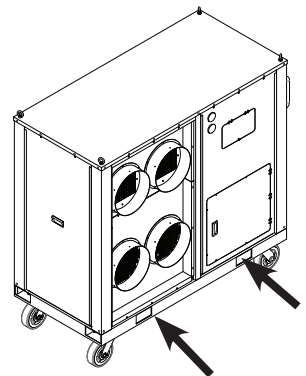


Figure 7

Installation

WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

▲ WARNING

Do not use the unit in explosive environments or in areas where flammable gas leakage may occur.

▲ WARNING

Do not use the unit in areas where it will be exposed to rain or water.

▲ WARNING

Do not use the unit in a corrosive atmosphere.

▲ WARNING

Do not use the unit above 18°C(64°F) ~ 45°C(113°F).

▲ WARNING

Do not install the unit on uneven or sloping surface. The unit may roll or topple over even if the casters are set to the locked position.

MOVING THE UNIT

Unlock the casters and push the unit using the side handles to a flat, level surface and set the caster brakes to the locked position.

PLUGGING IN THE UNIT

Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.

Check the power cord, plug and prongs for damage or excess play.

If any damage or excess play is found, contact a qualified repair technician or a qualified electrician to perform replacement or repair of the power cord, plug or prongs.

▲ WARNING

If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.

▲ WARNING

Do not connect / disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.

NOTE: Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign material. The unit is equipped with an approved NEMA plug configuration. The appropriate outlet must be used for each plug type.

Operation

CONTROL PANEL

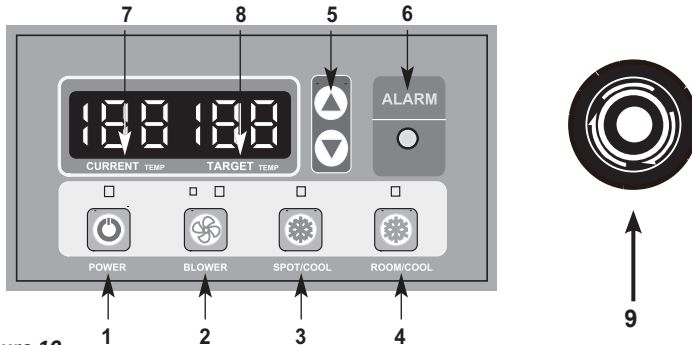


Figure 10

1. POWER BUTTON :

Turns on/off the unit when the button is pressed for 1 second.

2. BLOWER BUTTON :

Adjusts the fan speed from (Low) to (High) when the button is pressed for 1 second.

NOTE: Some models only have one fan speed

3. SPOT/COOL BUTTON :

Activates Spot Cooling mode when the button is pressed for 1 second. Compressor can be switched on/off

4. ROOM/COOL BUTTON :

Activates Room Cooling mode when the button is pressed for 1 second. Compressor can be switched on/off

5. UP/DOWN BUTTON :

Sets target temperature in ROOM or SPOT COOL MODE.

6. ALARM :

The alarm indicator will flash when the unit detects abnormal operation. The compressor will stop after the alarm and the system will stop after 3 minutes of alarm unless there is any action taken to fix the issue.

Operation

CONTROL PANEL

7. CURRENT TEMP :

Displays Current temperature

NOTE: Canadian version shows the temperature in Celsius.

8. TARGET TEMP :

Displays target temperature

OFF-TIMER : Press BLOWER Button and SPOT/COOL Button simultaneously for 2 seconds to set off-timer. Press UP/DOWN Button to set the timer. After you set off-timer, idle for 5 seconds to save the off-timer setting. To cancel OFF-TIMER, set the timer to 0.

AUTO RESTART : If the unit turns off due to an electrical interruption, the unit will automatically restart when the power comes back on.

9. EMERGENCY STOP :

Emergency stop button immediately halts the operation

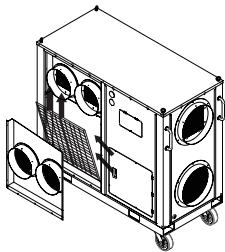
1. Press the red button – Unit stops
2. Inspect the unit.
3. Rotate the red button clockwise to restart the unit

Maintenance

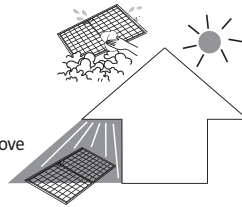
FILTER CLEANING (See Figures 11 and 12)

1. loosen up 6 bolts on the front filter guard.
2. Slide filter up and use a vacuum cleaner to remove the dust from the filter.
3. If the filter is heavily covered with dust and dirt, warm water and mild soap or neutral detergent may be used to wash the filter. Do not use any other chemicals to clean filter, as they will likely damage the filter.
4. Dry the filter in a shaded area before replacing it. Do not operate the unit without the filter installed and the filter guard in the closed position.
5. Replace the clean filter and close the filter guard.

NOTE: For effective cooling clean the filter at least every 2 weeks.



- Loosen up 12 bolts on the front filter guard.
- Slide filter up and use a vacuum cleaner to remove the dust from the filter.



- Remove dust from the filter using a vacuum cleaner hose attachment.
- If required wash the filter in lukewarm water with a mild detergent. Leave to dry in a shaded area before reinstalling.

Figure 11 – Removing Filters

Figure 12 – Removal of Dust

▲ WARNING Do not operate without the filter fitted.

▲ WARNING Do not operate the unit with a damaged cord or plug, after the unit malfunctions, or if the unit has been dropped or damaged.

- For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.
- Also, attach your purchase receipt as proof of purchase to this instruction manual for future reference.
- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

Maintenance (Continued)

– To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

Product	Portable Air Conditioner
Model No.	_____
Date of Purchase	_____
Place of Purchase	_____
Serial No.	_____
Period of Warranty	_____

Customer: Please read and keep this manual for future reference and keep sales receipt as proof of purchase.

SELF-DIAGNOSTIC CODES (See Table 1)

The alarm light is activated if abnormal operation occurs, and a code is displayed on the control panel. The compressor and condenser fan motor will stop operating. The evaporator fan will continue to run for 3 minutes. If the fault is rectified within 3 minutes, the unit will resume operation. If the fault persists for more than 3 minutes, the evaporator fan also stops. The fault must be rectified before the unit can resume normal operation.


SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	Problem	Cause	Corrective Action
	Frost prevention sensor and Abnormal temperature sensor value	<ul style="list-style-type: none"> Indoor heat exchanger temperature too low TH3 temperature sensor has a loose or broken connection 	<ul style="list-style-type: none"> Do not use the air conditioner if ambient temperature is lower than 18°C (64°F) Contact a qualified service agent

Table 1- Alarm Codes






SELF-DIAGNOSTIC ALARM CODES			
Alarm Display	Problem	Cause	Corrective Action
	Refrigerant high pressure switch	<ul style="list-style-type: none"> Blocked air filter Blocked / kinked exhaust duct Ambient temperature is too high 	<ul style="list-style-type: none"> Clean air filter Ensure exhaust duct is not blocked / kinked Do not use the air conditioner if ambient temperature is higher than 45°C (113°F)
 (Option)	Overheat	<ul style="list-style-type: none"> Internal Unit temperature is over 85°C (185°F) 	<ul style="list-style-type: none"> Turn off the unit, wait for it to cool down, Turn on again. If HO alarm code is still on, it means that the unit has reached over 95°C(203°F). Resettable overheat sensor is on Manually switch off the resettable overheat sensor to re-operate.
	Abnormal temperature sensor value	TH1(Outlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Abnormal temperature sensor value	TH2(Inlet) temperature sensor has a loose or broken connection	Contact a qualified service agent
	Compressor overloaded	<ul style="list-style-type: none"> Ambient temperature is too high Unstable voltage supply Defective compressor 	<ul style="list-style-type: none"> Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) Contact a qualified service agent Replace compressor

Table 1- Alarm Codes

Wiring Diagram

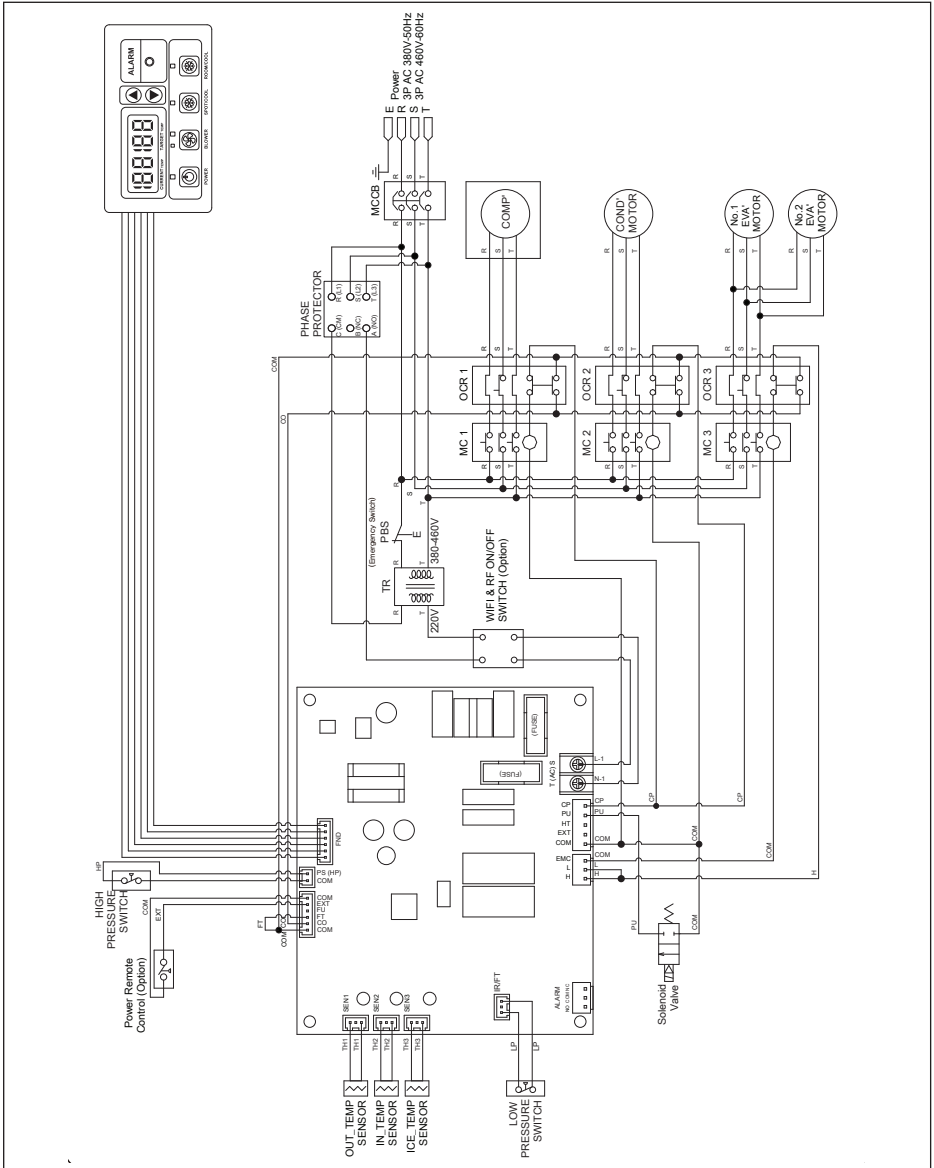


Figure 14 - Circuit Wiring Diagram (WPC-36003)

Troubleshooting chart

Symptom	Possible Cause(s)	Corrective Action
The unit doesn't work	<ol style="list-style-type: none"> 1. Check the power supply to verify that power is available to the unit 2. Verify that the power cord is connected 	<ol style="list-style-type: none"> 1. Reset the circuit breaker and restart the unit 2. Connect power cord
No cold air flows from the cold air outlet	<ol style="list-style-type: none"> 1. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned 2. Compressor will not work if the unit is turned off and on quickly. 3. The ambient air temperature may be too high 	<ol style="list-style-type: none"> 1. Clean the filter 2. Wait 2 minutes after unit is turned off before turning the unit back on. 3. The temperature of the compressor can be higher when the ambient temperature is too high. The compressor will not work unless the ambient air temperature is within the acceptable operating range of the unit
Water flow can be heard after compressor shuts off	No cause	Common to hear coolant flowing after unit shuts off

SHIPPING LIST

- (1) High Capacity Air Conditioner
- (1) Owner's Manual

OBTAINING SERVICE

If the Weltem High Capacity Air Conditioner by AmeriCool requires Service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, call AmeriCool Technical Support at 888-726-6158 Please have the following information available BEFORE calling the Technical Support Department:
 - a. Your name and address.
 - b. The serial number of the unit.
 - c. Where and when the unit was purchased.
 - d. All of the model information about your Weltem High Capacity Air Conditioner by AmeriCool.
 - e. Any information on the failure, including LED's that may or may not be illuminated.
 - f. A description of the protected equipment, including model numbers if possible.

LIMITED WARRANTY

AmeriCool warrants all AmeriCool products to be free from defects in materials or workmanship, under normal use and service, for a period of 12 months from the date of purchase to the end user (original invoice must be provided). AmeriCool warrants that the compressor will be free from defects in materials and workmanship for 12 months from the date of purchase to the end user.

AmeriCool's obligation under this warranty is limited to the repair or replacement at its option, of any part or parts, which, upon AmeriCool's examination are shown to be defective, or at AmeriCool's option, the return of the purchase price to the purchaser.

Correction of such defects by repair or replacement, or at AmeriCool's option, the return of the purchase price shall constitute fulfillment of warranty obligations to the purchaser. This warranty does not cover defects or malfunctions which result from causes beyond AmeriCool's control, including, without limitation, (i) unusual physical or electrical stress; (ii) accident, neglect, abuse, misuse or other abnormal use; (iii) failure to perform routine maintenance in accordance with AmeriCool's recommended procedures; (iv) normal wear and tear; (v) repairs or attempted repairs by an unauthorized person; (vi) modifications or alterations to the Products; (vii) use with parts or devices not supplied or approved by AmeriCool (viii) improper installation or service; (ix) shipping damage to any units or spare parts during shipping. This includes and is not limited to compressors, evaporators and condenser coils. This warranty shall extend only to the original end-user and shall be void if any labels or other identifying marks permanently affixed to Products when shipped by AmeriCool are removed, altered, defaced or obliterated.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY, AS LIMITED HEREIN, SHALL BE IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, ON THE PART OF AMERICOOOL INC., OR WELTEM CO., LTD. WHETHER ARISING FROM LAW, COURSE OF DEALING, USAGE OF TRADE, OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE OR ANY LIABILITY FOR COMMERCIAL LOSSES BASED UPON NEGLIGENCE OR MANUFACTURER'S STRICT LIABILITY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NEITHER AMERICOOOL, INC., NOR WELTEM CO., LTD. WILL, IN ANY EVENT, BE LIABLE FOR LOST PROFITS, COSTS OF PROCESSING, INJURY, GOODWILL, OR ANY OTHER CONSEQUENTIAL DAMAGES OF ANY KIND ARISING FROM BREACH OF THIS WARRANTY.

**Manufactured in Weltem Co., Ltd.,
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