



RAM AIR GEAR DRYERS USER MANUAL

MODELS T4-HMU AND T6-HMU



Please read this manual carefully before operating your Ram Air gear dryer and retain it for future reference.

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IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions before installing or using this dryer/heater.
2. Extreme caution is necessary when used by or near children or invalids and whenever the dryer/heater is left operating and unattended.
3. Do not operate dryer after it malfunctions. Unplug from outlet and have dryer inspected by an authorized service facility.
4. Do not use outdoors.
5. To disconnect power to the dryer/heater, press Start/Stop button and unplug dryer/heater from the outlet.
6. The dryer/heater has hot and arcing parts inside. Do not use it in areas where gasoline, paint or flammable vapors or liquids are used or stored.
7. Use this dryer/heater only as described in this manual. Any other use not recommended by the manufacturer.
8. **WARNING:** Risk of fire. Do not use in a residential or household locations.
9. **WARNING:** Hazardous Voltage, Electrical Shock Hazard. This unit is to be serviced by a trained personnel only.
10. Do not operate the blower when not properly secured on the pipe.
11. To reduce the risk of injury, disconnect from power supply before servicing.
12. Do not operate fan with a damaged cord or plug. Return to an authorized service facility for examination and/or repair.
13. Do not cover cord with any type of floor covering including carpeting, rugs or runners. Do not run cord under furniture or appliance. Keep cord away from traffic areas or where it may be a tripping hazard.
14. To reduce the risk of electrical shock, do not expose to water or rain.
15. Do not use an extension cord.
16. Do not unplug by pulling on cord. Grasp plug and remove from receptacle or outlet device.
17. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
18. If connected to a circuit protected by fuses use time delay fuses with this appliance.

QUESTIONS? CONTACT US.

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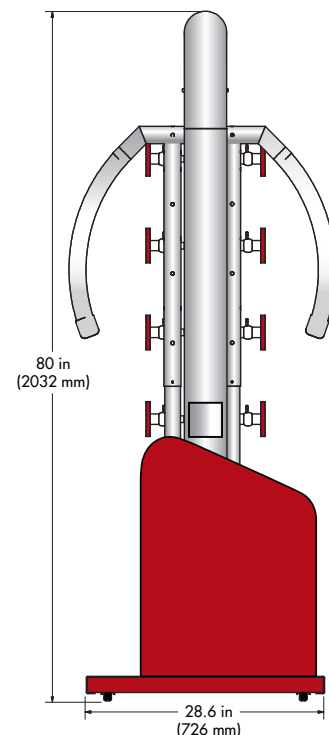
19. Use a dedicated outlet and breaker for this appliance.
20. Rotating blades. Keep hands and feet away from unguarded openings.
21. **WARNING:** To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the dryer/heater.
22. Ensure garments are secure and will not fall off dryer. Damage may result to articles falling off dryer.
23. This dryer/heater is for use on 240 Volts. The cord has a plug with a ground pin. No adapter is available for this blade configuration, and none should be used. The type outlet is a 240 Volt grounding outlet. When properly installed, it provides a ground connection through the cord to the dryer/heater to protect the operator from electric shock.
24. To reduce the risk of fire, electrical shock, or injury to persons: do not tamper with this device.
25. Do not disassemble or modify the dryer/heater or controls.
26. Do not use any power cord other than that provided with this dryer. Do not touch the power cord with a wet hand. Ensure that the power plug is easily accessible.
27. Do not climb on or allow children to climb on dryer.
28. Unplug this apparatus during lightning storms or when unused for long periods of time.
29. Operate dryer indoors, in a warm, clean, dry, humidity controlled environment.
30. Do not exceed 40 degrees Celsius, or 105 degrees Fahrenheit. Do not tamper with dryer temperature range setting.
31. Do not operate dryer/heater in a location where UV damage may occur.
32. Wear hearing protection while working in the vicinity of an operating dryer.
33. If an object gets inside the dryer, or if the enclosure becomes damaged, unplug the power supply cord immediately. Contact an authorized service center for an evaluation.



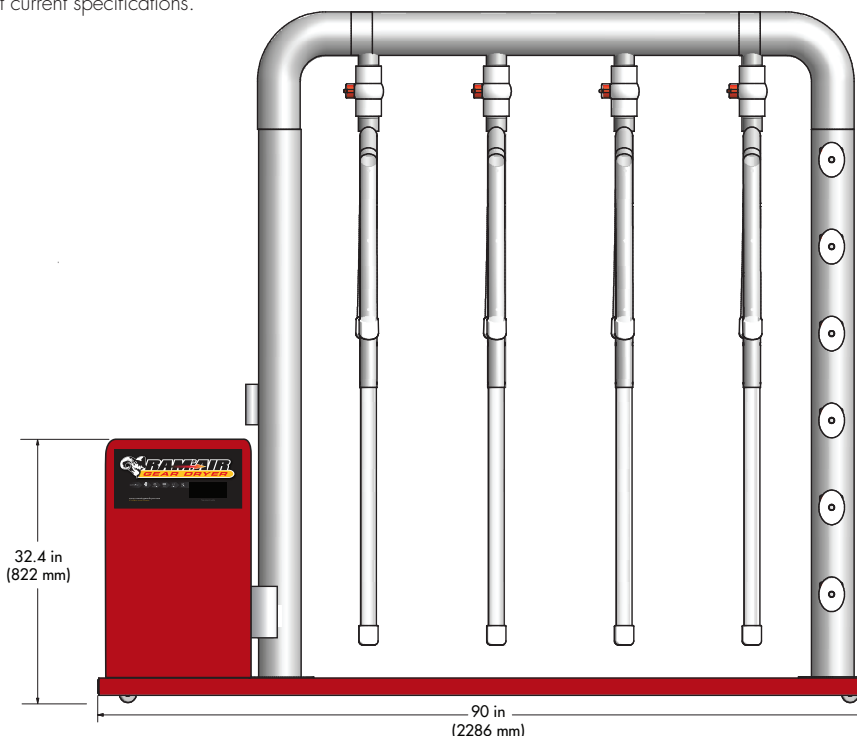
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TECHNICAL SPECIFICATIONS

	T4-HMU
Max Number of Gear Sets	4
Number of Accessory Drying Ports	12
Machine Dimensions (WxDxH)	90-1/8 x 28 x 80 in (2289 x 711 x 2032 mm)
Shipping Dimensions (WxDxH)	93 x 30 x 39-1/2 in (2362 x 762 x 1003 mm)
Machine Weight	363.5 lbs (164.9 kg)
Shipping Weight	411.5 lbs (186.7 kg)
Construction Material	12 gauge steel/powder coated paint
Shut-off Valve Diameter	2 in (51mm)
Caster Type	360° swivel
Hose Barb Attachment Diameter	4- or 6-inch (102 or 152 mm)
Motor Power	1 HP
Motor Speed	3450 rpm
Air Flow	800 cfm
Available Voltages (Volts/Hertz/Phase)	220/60/1
Fan Diameter	10-5/8 inch (270 mm)
Fan Wheel Bore	5/8 inch (16 mm)
Thermal Protection	115 volts
Max Temperature	103° F
Control Type	Touchscreen



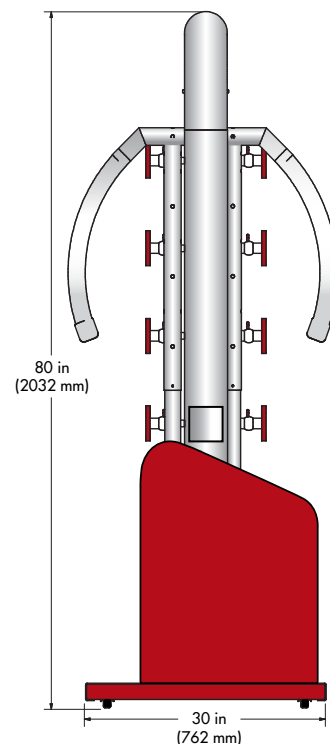
Specifications subject to change without notice. Please visit www.ramairgeardryer.com or contact Ram Air for most current specifications.



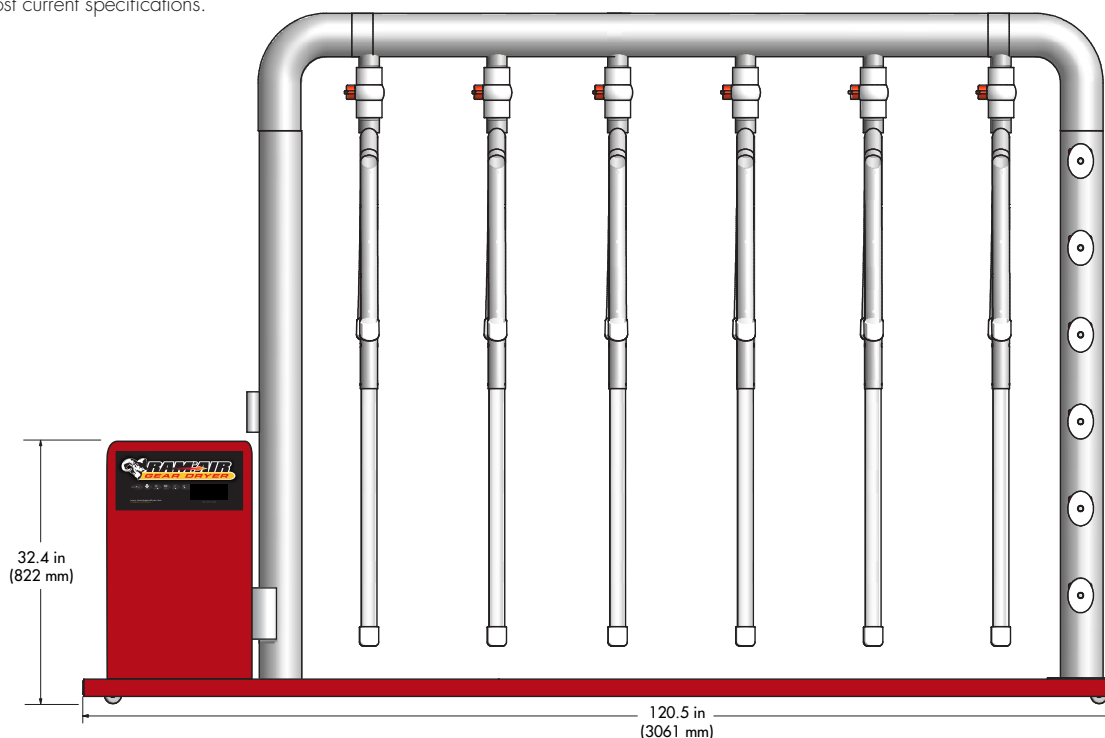
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	T6-HMU
Max Number of Gear Sets	6
Number of Accessory Drying Ports	18
Machine Dimensions (WxDxH)	120-1/4 x 28 x 80 in (3054 x 711 x 2032 mm)
Shipping Dimensions (WxDxH)	123-1/4 x 30 x 39-1/2 in (3131 x 762 x 1003 mm)
Machine Weight	468.5 lbs (212.5 kg)
Shipping Weight	536.5 lbs (243.4 kg)
Construction Material	12 gauge steel/powder coated paint
Shut-off Valve Diameter	2 in (51mm)
Caster Type	360° swivel
Hose Barb Attachment Diameter	4- or 6-inch (102 or 152 mm)
Motor Power	1 HP
Motor Speed	3450 rpm
Air Flow	800 cfm
Available Voltages (Volts/Hertz/Phase)	220/60/1
Fan Diameter	10-5/8 inch (270 mm)
Fan Wheel Bore	5/8 inch (16 mm)
Thermal Protection	115 volts
Max Temperature	103° F
Control Type	Touchscreen



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OPERATION INSTRUCTIONS

STEP ONE

for gear with built-in suspenders

Place clean, wet gear pants onto stickmen using gear suspenders. Adjust so that leg of pants are just above dryer base.



STEP ONE

for gear without built-in suspenders

Use temporary suspenders to hang pants as shown. Wrap cord around stickmen neck until leg of pants are just above dryer base.



STEP TWO

Place clean, wet gear jackets onto stickmen. Fasten all jacket closures.

Note: Hang inside liner and outer shell separate for optimum drying times.



STEP THREE

If drying boots, place boots on the dryer base under stickman and insert a stickman leg into each boot.



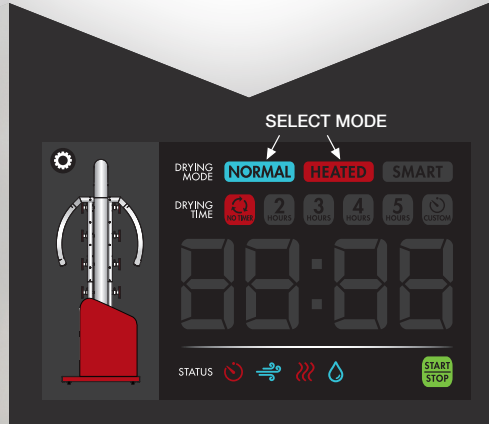
STEP FOUR

Load accessory drying ports with gloves, helmets, face masks and balaclavas. Close all accessory port valves not in use.



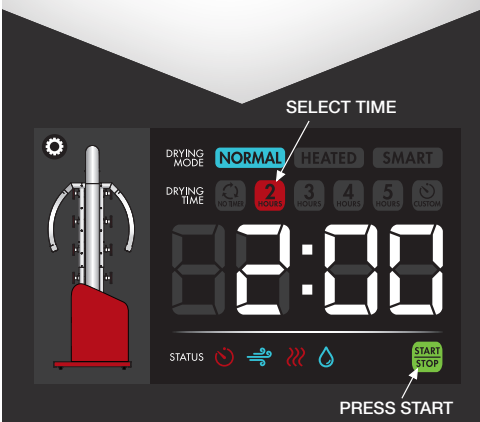
STEP FIVE

Tap to wake touchscreen control and select desired drying mode—Normal or Heated



STEP SIX

Select desired dry time using the timer presets and press start.



STEP SEVEN

Monitor drying progress—checking hard-to-dry areas (armpits, fingertips, etc.). Adjust dry time until gear is fully dry.



STEP EIGHT

Remove dried items and shut down the dryer.

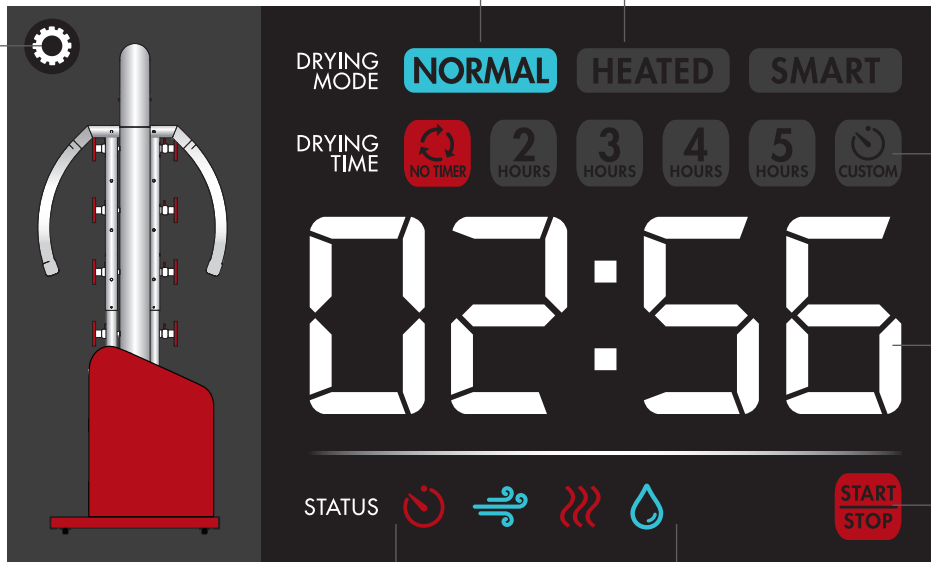


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TOUCHSCREEN CONTROL

SETTINGS

Select for temperature settings, custom timer, machine information and operation instructions.



DRYING MODE

Select NORMAL for ambient air drying. Select HEATED for drying with heat (only available on T4-HMU and T6-HMU models).

DRYING TIME

Select NO TIMER for continuous drying, 2-, 3-, 4-, or 5-hour presets, or CUSTOM to set your own time.

TIME REMAINING

Shows time remaining in current selected cycle.

START/STOP BUTTON

Shows time remaining in current selected cycle.

STATUS

Icons are brightly lit when status of timer, blower, heat and moisture sensing are activated.

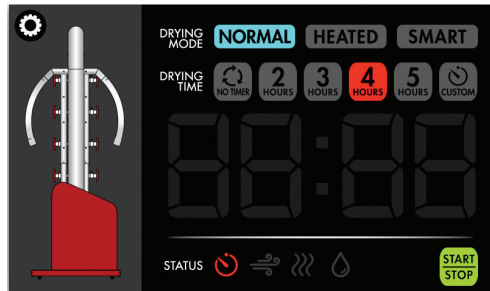


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TROUBLESHOOTING

Please follow the steps below to troubleshoot your Ram Air Gear Dryer if it is not operating as expected:



1. Make sure the unit's power cable or plug is not broken and that it is properly plugged into a power outlet and turned on.
2. Make sure the power outlet is not tripped due to overload or overheating.
3. About one minute after the dryer starts up, look at the LCD panel.

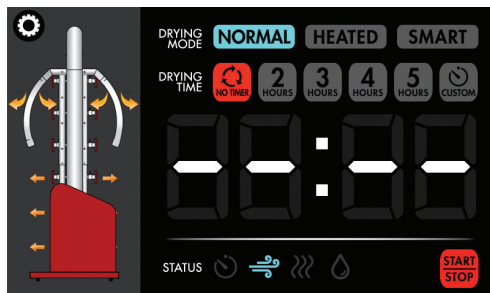



The panel should be displaying the dryer's graphic user interface (GUI) for operation as show above.



Note: If the unit is sitting idle for some time, the screen may show a screensaver with a floating Ram Air logo as shown above. Touching the LCD Panel brings the GUI back.

4. If there is no GUI displayed and the screen is totally blank, turn off all the lights in the room to see if the LCD backlight is still on. If the LCD backlight is on but no display can be seen, contact your vendor to verify your dryer's operating system. If LCD is totally dark with no backlight at all, contact your vendor to obtain a replacement LCD panel.
5. If the LCD panel is working properly, select **NORMAL** mode, then select  and press  to start the dryer.





If you hear a confirmation beep but the blower doesn't start up, listen to see if you can hear a clicking sound from the blower relay. Press the  several times to test this.

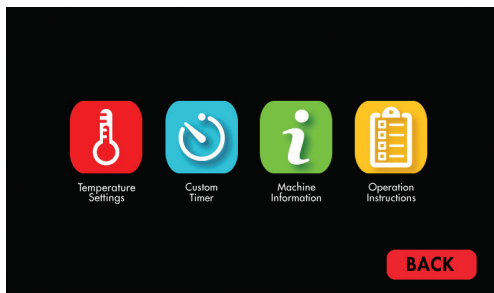
If you hear a clicking sound but the blower does not turn on, check for the safety fuse of the blower fan motor. If the fuse is blown, replace it with a new similar rating fuse. If the fuse is good, then the fan motor itself may be faulty. Contact your vendor for a motor replacement.

If you do not hear a clicking sound, then the power controller board may be faulty. Contact your vendor to replace the controller board.

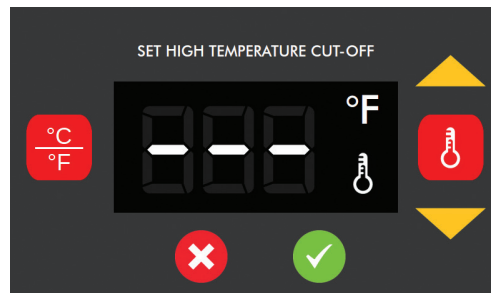
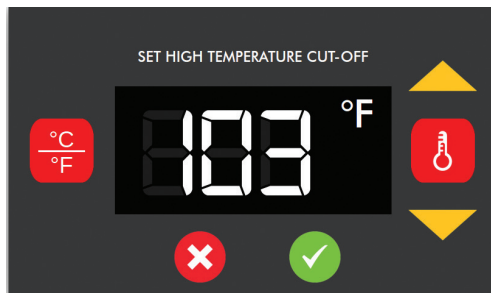
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6. If the blower starts up in NORMAL mode, but not in HEATED mode, make sure the temperature sensor is not damaged. On the main display, press the  and then select the .



On the temperature settings screen press the  to toggle the display reading between the cut-off set point and the actual temperature reading of the sensor.



Press the  once to show the current temperature sensor reading. The temperature reading is indicated by a thermometer icon next to the reading. If it shows a temperature value as illustrated above, then the thermostat is working properly.

If it instead shows dashes [---] as shown above, then the temperature sensor may be damaged, disconnected or short. In that case, contact your vendor to replace/fix the broken sensor.

7. If the temperature sensor is working properly but the blower still does not start up in HEATED mode, make sure the high-temperature cut-off set point is high enough.

NOTE: If it is set to a lower temperature and the temperature sensor reaches the set point, blower will not start up until the temperature falls below the cut-off set point. This is a safety feature. In this case try to adjust the set point to a lower temperature value (default is 103°F) or use NORMAL mode.

8. If everything above is good and the dryer is still not operating as expected, contact your vendor for a more detailed inspection and to replace or fix any faulty parts.



1. Before cleaning, make sure the power has been turned off at the circuit breaker panel and that the heating element of the heater is cool.
2. Before cleaning, disconnect power to the dryer/heater by pressing Start/Stop button and unplugging the dryer from outlet.
3. If the dryer becomes dirty, wipe it with a soft, dry cloth.
4. If the surface is particularly dirty, after cleaning up the dust, soak a soft, lint-free cloth in diluted, mild liquid dish soap (1 part mild liquid dish soap diluted by 100 times the amount of water), and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the dryer, then wipe it evenly with a dry cloth of the same type until the surface is dry.
5. Wipe plug with a dry cloth.
6. Do not spray or soak dryer with water.
7. Bearings are prelubricated. No further lubrication necessary.
8. Have the dryer serviced by a qualified authorized technician.

Ram'd Air Gear dryer warrants the Products to be free from material defects for a period of one year from date of Purchase (extended to three years in the case of motors, fans and timers forming part of the Products), provided they are used for their intended purpose, and under normal operating conditions. During that year, in the event of mechanical failure of the Products or its components, Ram'd shall, at its option, either provide replacement parts as are reasonably necessary for the Product to resume its intended function, or may replace the Product.

Warranty Provisions:

1. The warranty does not apply to any labor or other costs of installing or replacing the parts, and the warranty shall nonetheless remain one year (or three years in the case of motors, fans and timers forming part of the Products) from its original purchase date, and there shall be no further warranty despite the provision of parts or replacement of the Product during that period.
2. There shall be no other warranties whatsoever, whether oral, written, express, implied or statutory.
3. The warranty is limited to use within Canada or the United States of America only and Ram-d provides no warranty whatsoever for any use outside of Canada or the United States.
4. The warranty is void if the Product is used under extreme conditions, or altered in any way and/or used for any purposes not otherwise intended or advertised by Ram-d for the Products intended use.



**WE PROMISE TO PROVIDE THE BEST, MOST STRUCTURALLY
SUPERIOR GEAR DRYERS AVAILABLE...**

A firefighter-owned company, Ram Air provides a full range of dryers made exclusively for drying personal protective equipment including bunker gear, immersion/hazmat suits, helmets, gloves, boots, face masks and SCBAs. Our patented dryers are designed to dry gear quickly—getting firefighters back to action fast. NFPA compliant, Ram Air Gear Dryers are built with the highest quality components. We strive to set standards beyond any other competitor's products. Our goal is to provide unmatched customer service and quality products that ensure gear is in top operating condition—ultimately preserving the safety of firefighters and those they serve.

Ram Air Gear Dryers are built to dry and built to last!

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