



TJERNLUND PRODUCTS, INC.

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RA1 Radon Fan Failure Alarm

READ OWNERS INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION. DO NOT DESTROY.

DESCRIPTION

Tjernlund's Fan Failure Alarm alerts homeowners of a radon fan failure or ice induced pipe blockage. Alarm sounds when loss of exhaust flow is detected. Secondary gauge port allows installer to measure actual system pressure. Large bright indicator lights are easily visible. Mounts to any flat surface or PVC piping. Includes low voltage power supply, sensing tubing and mounting hardware. Compatible with all Active Sub-Slab Depressurization (ASD) systems that can generate $-0.10''$ water column (w.c.) static pressure.

INSTALLATION

The RA1 must be installed by a qualified installer in accordance with these instructions and all local codes or in their absence in accordance with the latest editions of the International Residential Code and International Electrical Code. Improper installation can create a hazardous condition such as fire, electric shock or personal injury. To reduce these risks significantly, use this unit only in the manner intended by the manufacturer. If you have questions, contact Tjernlund Products. Always disconnect the RA1 from its power source before installation and servicing. Tjernlund recommends performing radon testing annually to ensure acceptable levels are maintained.

NOTE: RA1 must be located on the negative pressure side of the system (between the subslab penetration and the inlet of the fan). Locate the sensing tube as close the inlet side of the fan as possible for best results. Consider possible mounting location and electrical access when determining the alarm location.

1. Use the included wall anchors and screws to mount the back of the unit to a wall or joist or use the included zip ties to secure the unit to the PVC pipe of the radon system. Alarm must be mounted so that the alarm's label runs perpendicular to the floor (label cannot face the floor or face the ceiling).
2. Make a $5/16''$ hole in the pipe and insert one end of the sensing tube in the hole. Secure and seal the tube in the pipe with silicone if desired.
3. Attach the other end of the sensing tube to the alarm's sensing port (below the label). The gauge port (above the label) must be capped with the included cap. For installers seeking to determine the exact pressure of the system remove the cap and attach a magnehelic gauge to the gauge port to determine the system pressure. Recap once measurement is complete.
4. Insert low voltage plug into the RA1 control box and plug the power supply into a 115 VAC outlet.

OPERATION

When **no power** is supplied to the RA1 **no lights** will appear.

When power is supplied and the **system pressure is equal to or greater than $-0.10''$ w. c.** the **green light** will be activated.

When power is supplied and the **system pressure is less than $-0.10''$ w.c.** the **red light** will be activated and **alarm will sound**.

If fan is on, but the red light is activated and alarm is on then the system is not creating $-0.10''$ w.c. of static pressure at the location of the sensing tube. Relocate sensing tube closer to fan inlet or improve system/fan performance.

WARRANTY

TJERNLUND LIMITED 1 YEAR WARRANTY

Tjernlund Products, Inc. warrants to the original purchaser of this product that the product will be free from defects due to faulty material or workmanship for a period of (1) year from the date of original purchase or delivery to the original purchaser, whichever is earlier. Remedies under this warranty are limited to repairing or replacing, at our option, any product which shall, within the above stated warranty period, be returned to Tjernlund Products, Inc. at the address listed below, postage prepaid. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND TJERNLUND PRODUCTS, INC. EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND NO AGENT IS AUTHORIZED TO ASSUME FOR US ANY LIABILITY ADDITIONAL TO THOSE SET FORTH IN THIS LIMITED WARRANTY. IMPLIED WARRANTIES ARE LIMITED TO THE STATED DURATION OF THIS LIMITED WARRANTY. Some states do not allow limitation on how long an implied warranty lasts, so that limitation may not apply to you. In addition, some states do not allow the exclusion or limitation of incidental or consequential damages, so that above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Send all inquiries regarding warranty work to Tjernlund Products, Inc. 1601 9th Street, White Bear Lake, MN 55110-6794. Phone (651) 426-2993 • (800) 255-4208 • Fax (651) 426-9547 • Email fanmail@tjfans.com.