

INSTRUCTION SHEET  
**UQFP RESIDENTIAL SERIES**  
ULTRA QUIET FAN PANELS

US Patent D537,935

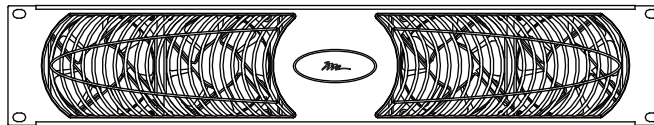


UQFP-4RA (WITHOUT DISPLAY)

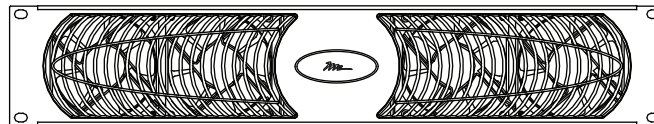


UQFP-4DRX (WITH DISPLAY)

(EXHAUST UNIT)



(INTAKE UNIT)



UQFP-4RA-I/O

**THANK YOU**

Thank you for purchasing the UQFP Residential Series Ultra Quiet Fan Panel.  
Please read these instructions thoroughly before installing this product.

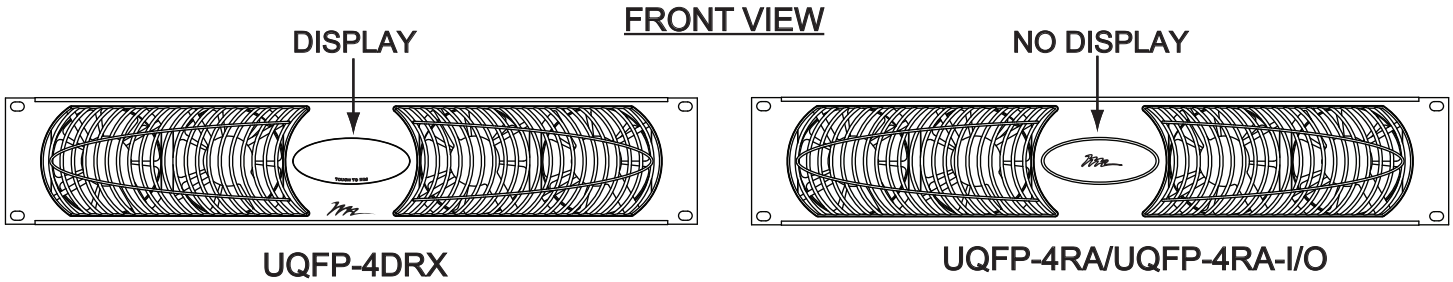
**PRODUCT FEATURES**

- Reliable cooling with minimal noise
- Local (UQFP-4DRX only) and remote status notification
- Processor controls fan speed proportional to temperature

## SPECIFICATIONS (UQFP-4DRX AND UQFP-4RA)

Airflow:	100 CFM @ Full Speed
Noise:	27 dBA from 1 meter @ Full Speed
Overtemp Alarm Setpoint:	100° F (37° C)
Temperature Probe Wire Length:	9 Feet

## UQFP-4DRX/UQFP-4RA FEATURES



### DISPLAY (UQFP-4DRX Only)

- Dimming the display is accomplished by touching anywhere on the display once. To return to the original brightness, touch the display again.
- The display will indicate rack temperature and provide a read-out of the following fault codes:

#### **OVERTEMP:**

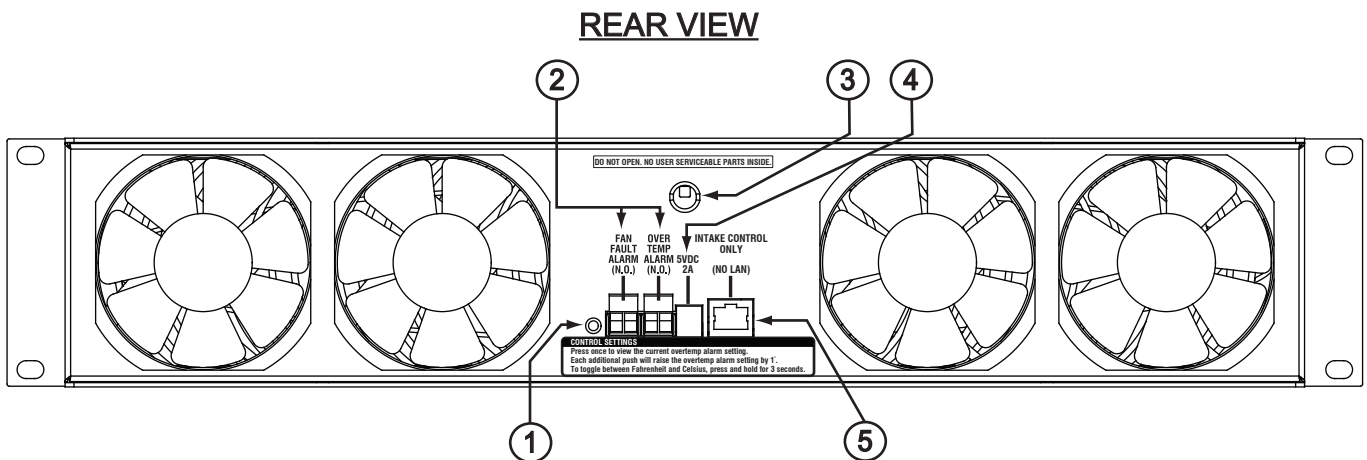
The temperature of the enclosure has risen above the alarm set point. Inspect airflow intake and output for obstructions. Additional cooling capacity may be required.

#### **FAN FAULT:**

One or more of the fans has stopped. Display will indicate which fans are causing the fault. Check fans for obstruction. If problem persists, call Middle Atlantic Products. Technical Support at (800) 266-7225.

#### **SENSOR ERROR:**

The temperature probe wire has been either cut or shorted. Fans will not operate if the wire has been cut. A technician may be able to repair a damaged temperature probe wire.



### **① ALARM SET POINT BUTTON (UQFP-4DRX Only)**

**NOTE:** The overtemp alarm set point value is factory preset to 100° F (37° C) and is non-adjustable for the UQFP-4RA/UQFP-4RA-I/O.

- To change display from Fahrenheit to Celsius, press and hold Alarm Set Point Button for 3 seconds
- To view alarm set point, press and release the Alarm Set Point Button
- To change the factory preset alarm set point, repeatedly press the Alarm Set Point Button until the desired temperature is displayed on the display. The factory preset overtemp alarm set point is 100° F (37° C). The adjustment range is from 95° to 115° F (35° to 46° C).

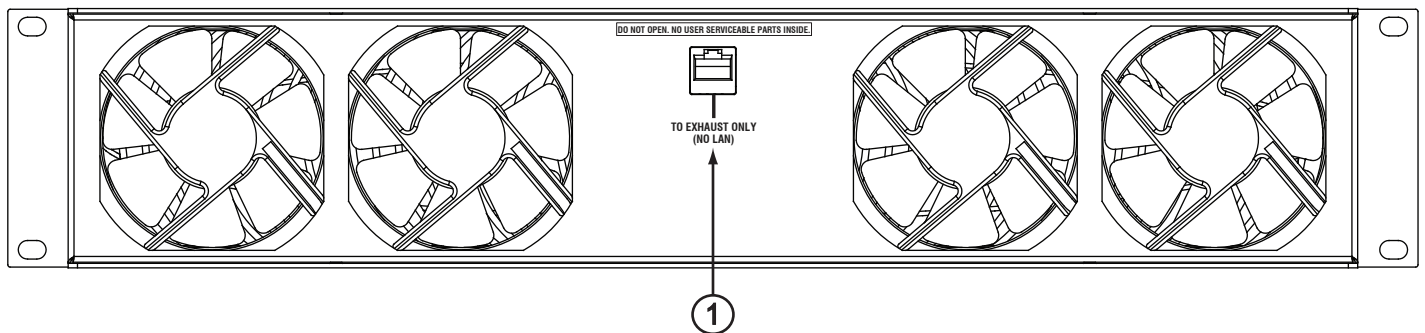
## FEATURES CONTINUED

- ② **FAN FAULT/OVERTEMP ALARM OUTPUTS (For Optional Remote Monitoring):** These normally open dry contact closures will provide notification to an external (remote) monitoring system if there is a fan fault or overtemp condition.
- ③ **TEMPERATURE PROBE:** 9 foot temperature probe. Mount at the highest available location in the enclosure.
- ④ **5 VDC - 2A POWER SUPPLY INPUT**
- ⑤ **INTAKE CONTROL PORT:** RJ45 port used to control the intake unit.  
(DO NOT CONNECT TO A LAN)

## UQFP-4RA-I/O INTAKE - EXHAUST SYSTEM

- The UQFP-4RA-I/O system consists of a UQFP-4RA and a UQFP-4RIS.

### REAR VIEW UQFP-4RIS



- ① **EXHAUST CONNECTION PORT:** RJ45 port. Connect this to the INTAKE CONTROL PORT on the UQFP-4RA provided with the UQFP-4RA-I/O INTAKE - EXHAUST SYSTEM (connect to callout #5 on the image from page 2). A 7 foot CAT5 cable is provided. (DO NOT CONNECT TO A LAN)
- The UQFP-4RIS can also work in conjunction with a separately purchased UQFP-4RX or UQFP-4DRX (connect to callout #5 on the image from page 2). (DO NOT CONNECT TO A LAN)

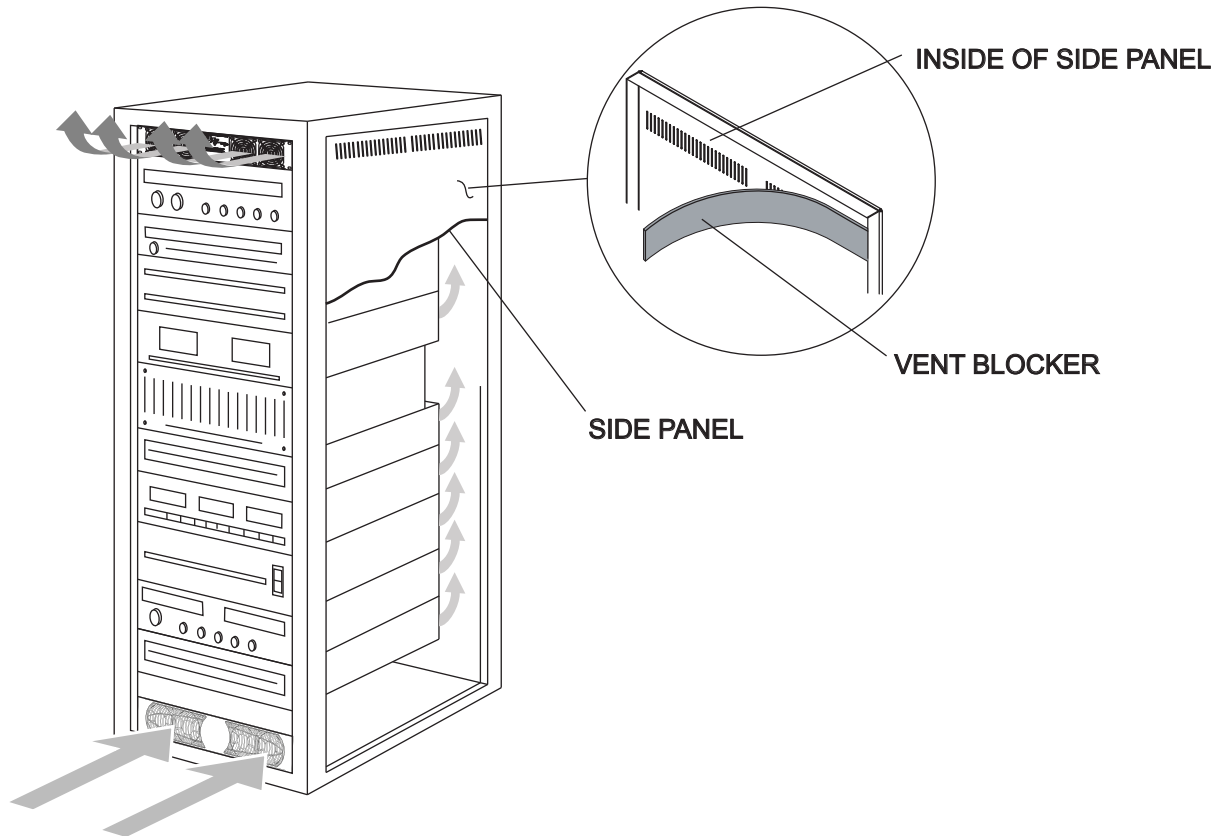
## INSTALLATION

**TIP:** Ensure that you have access to the rear of the panel to make connections and configure settings once mounted. If access to rear of unit is limited, cable management and setting configurations must be done prior to mounting the panel.

- 1) For optimum performance install the exhaust unit in the uppermost rackspaces of the enclosure, and install the intake unit in the lowermost rackspaces of the enclosure.
- 2) Mount the temperature probe at the highest available location in the enclosure.

## THERMAL MANAGEMENT GUIDELINES

- Mount the fan panel in the highest location of the rack.
- Use magnetic vent blockers to cover any vents at the top of the side panels. Install the vent blockers on the inside of the side panel as shown.
- Do not place vent panels within six rackspaces from below the fan panel. Cover any of these spaces with blank panels.
- If heat producing equipment is located in the middle of the rack, install a three space vent panel at the bottom of the rack, or one UQFP-4RIS Intake Unit.
- If heat producing equipment is located near the bottom of the rack, install a two space vent panel at the bottom of the rack, or one UQFP-4RIS Intake Unit.



### **WARRANTY**

Middle Atlantic Products, Inc. (the "Company") warrants the UQFP Residential Series Ultra Quiet Fan Panel to be free from defects in material or workmanship under normal use and conditions for a period of (3) years from date of shipment by the company. The Company's entire liability to the purchaser, and the purchaser's (or any other party's) sole and exclusive remedy, under this warranty shall be limited, at the Company's option, to either (a) return of and refund of the price paid for, or (b) repair or replacement at the Company's factory of the products purchased, or any part or parts thereof, which the Company has determined to be defective after inspection thereof at the Company's factory. This warranty does not cover damage due to acts of God, accident, misuse, abuse or negligence by parties other than the Company, or any modification or alteration of the products. In addition, this warranty does not cover damage due to improper handling, assembly, installation or maintenance.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF THE PRODUCTS PURCHASED, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE COMPANY'S LIABILITY TO THE PURCHASER (OR ANY OTHER PARTY) HEREUNDER, IF ANY, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS PAID TO THE COMPANY.

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**At Middle Atlantic Products we are always listening. Your comments are welcome.**