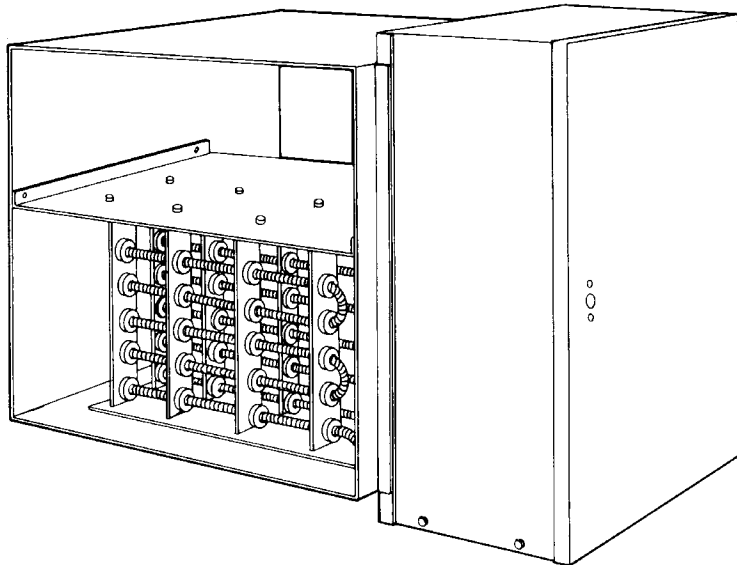




## **DH / DW SERIES**

**INDOOR ELECTRIC DISCHARGE MOUNTED HEATERS**

# **Installation / Operation Manual**



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## **INSTALLATION**

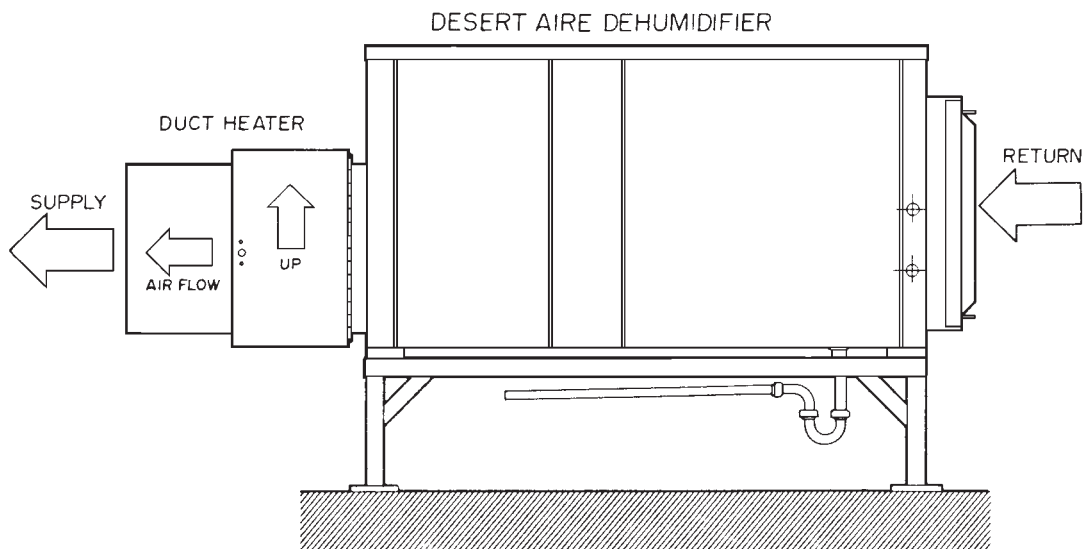
All DH/DW Series heaters are designed with ARL (Applied Research Lab) Approval for over the blower installation ONLY. Under no circumstances should a heater be installed in another location.

These heaters are designed for zero clearance to combustible material. A minimum clearance of one inch must be maintained on all sides of the heater and supply duct work for a minimum of three feet. DH/DW Series heaters are not intended for outdoor use.

### **MOUNTING OF THE HEATER**

Arrow decals affixed to the electrical components access door of the DH/DW Series heater must be followed. These arrows indicate the correct direction of air flow through the heater as well as providing pertinent mounting instructions.

The heater is installed by attachment to the flanges on the dehumidifier's discharge air opening (supply side). It is recommended that mounting be done with #8 sheet metal screws through both flanges of the heater and dehumidifier. Special care must be taken to avoid drilling through any electrical components, thus avoiding damage to the unit. If support is needed under the heater, it can be suspended from angle iron brackets using threaded rods of sufficient length.



### **ELECTRICAL CONNECTIONS**

Electrical wiring must comply with all National, State and Local codes. Locate and read the electrical rating plate on the heater to confirm that the voltage requirements match the available power source. A disconnect device of sufficient capacity must be installed within sight of the heater.

Consult the electrical wiring diagram, located on the inside of the electrical compartment access panel, to make wiring connections during the installation of the heater.

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## **WIRE SIZE**

The main power supply wire diameter must be determined by the listed minimum ampacity as found on the rating plate. An uninterrupted ground source must be provided to prevent possible injury. The grounding wire diameter must be the same as or larger than the supply wire diameter. Failure to properly ground the heater will void the warranty. (Refer to the amperage rating chart below).

## **AMPERAGE RATING CHART**

<b>DEHUMIDIFIER MODEL NO.</b>	<b>KW</b>	<b>208/1</b>	<b>240/1</b>	<b>208/3</b>	<b>240/3</b>	<b>460/3</b>	<b>575/3</b>
PD0100	4	19.23	16.67	11.10	9.62	5.02	4.20
1H0125	4	19.23	16.67	11.10	9.62	5.02	4.20
IH/PD/WC0200	5	24.04	20.83	13.88	12.03	6.28	5.25
IH/PD/WC0200	7	33.66	29.17	19.43	16.84	8.79	7.35
IH/PD/WC0300	10	48.08	41.67	27.76	24.06	12.55	10.50
IH/PD/WC0300	13	62.50	54.17	36.09	31.27	16.32	13.65
IH/PD/WC0500	15	72.12	62.50	41.64	36.09	18.83	15.75
IH/PD/WC0500	20	96.16	83.33	55.52	48.11	25.10	21.00
IH/WC0750	20	96.16	83.33	55.52	48.11	25.10	21.00
IH/WC0750	30	144.24	125.00	83.28	72.17	37.65	31.49
IH/WC1000	35	168.28	145.83	97.16	84.20	43.93	36.74
IH/WC1000	50	240.40	208.34	138.80	120.28	62.76	52.48
IH/WC1200	35	168.28	145.83	97.16	84.20	43.93	36.74
IH/WC1200	50	240.40	208.34	138.80	120.28	62.76	52.48

*Note: The listed amperages are for all PD, IH, and WC Series Dehumidifiers.*

## **LOW VOLTAGE CONNECTIONS**

All low voltage wiring must be done using 18 gauge wire. A low voltage terminal strip is provided in the heater and is marked with the terminals of the DESERT AIRE unit.

Example: IH, PD Series, connections will be terminals #2 and #4.

WC Series, connections will be terminals #2 and #3.

No other relay or transformer is needed to connect the heater to the dehumidifier. Limits and air flow interlocks are also built into the heater to provide safety if the air flow has been interrupted.

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## ***TROUBLE SHOOTING***

### **UNIT WILL NOT OPERATE**

Thermostat system switch is set to the cooling mode. Set the system switch to the “automatic” mode position.

There is no main power. - Check for tripped circuit breaker or a blown fuse.

Controls are stuck in the open position. - Repair or replace the controls.

Electrical element is open. - Replace the element.

The limit switch is open. - Replace the limit switch.

The blower is not operating. - Check the blower for correct operation.

## ***LIMITED WARRANTY***

DESERT AIRE CORP. warrants each DH/DW Series Electric Discharge Mounted Heater against defects in materials and/or workmanship for a period of 90 days from the date of **installation**.

Should any evidence of defects in materials and/or workmanship occur during the warranty period, DESERT AIRE CORP. will repair or replace the unit without charge at DESERT AIRE's discretion.

DESERT AIRE CORP. will not be held responsible for any labor charges involved in the removal or replacement of the defective equipment or any consequential damages.

Any modifications of the original equipment or changes to the internal wiring of the electric heater **VOIDS ALL WARRANTY** and responsibility of DESERT AIRE CORP.