

#### WEATHERFLO™ HD ENCLOSURES



INDUSTRY STANDARDS

UL 508A Listed; Type 3R; File Number E61997 cUL Listed per CSA C22.2 No 94; Type 3R; File Number E61997

NEMA/EEMAC Type 3R IEC 60529, IP22

#### **APPLICATION**

WEATHERFLO<sup>TM</sup> HD Enclosures are designed to protect and cool 100-500 HP variable frequency drives. These enclosures provide an integrated cooling solution for your VFD application needs.

#### **FEATURES**

- Optional impeller packages provide 840 actual CFM per impeller
- Easy-to-install back panel with flexible installation methods
- Painted white polyester powder finish with low solar absorption
- Selectable bases and tops, designed to meet your specific needs
- Gangable; enclosures can be joined to one another
- Easy-to-change filter (not included)

#### **SPECIFICATIONS**

- Frames, bases and gland plates constructed of .125-in. aluminum
- Tops and fan housing constructed of .080-in. aluminum
- Sides and standard rear cover constructed of .100-in. aluminum
- Gasketed door, top and base
- Panels and heavy-duty rear cover constructed of 12 gauge mild steel
- Three-point latches operated by patented padlocking handle
- Grounding provisions on door and body

#### **FINISH**

RAL 9003 white polyester powder paint finish inside and outside, including panels, tops, covers and bases.

#### **ACCESSORIES**

INTERSAFE™ Data Interface Ports, Type 4/4X/12 PANELITE™ Enclosure Lights Overview Thermoplastic Data Pocket H20MIT™ Thermoelectric Dehumidifier Stainless Steel Window Kits

#### **ORDERING**

For your specific needs please identify and order each individual component.

- 1. Select frame
- 2. Select top, dependent on cooling solution
- 3. Select base, dependent on cooling solution
- 4. Select panel
- Select rear cover, HD rear cover designed for applications when the drive is mounted on rear cover instead of the panel
- 6. Select number of Impellers (if needed), room for two impellers per door

Please see Product Selection Matrix on page 4.

## MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Modification options for WEATHERFLO HD include: size changes, custom paint, and holes and cut-outs. Contact your local Hoffman sales office or distributor for complete information.

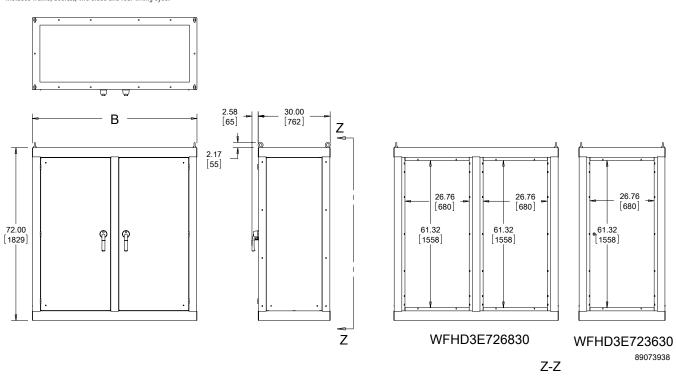
**BULLETIN: A3RHD** 



### Standard Product One- and Two-Door Frames

Catalog Number	AxBxC in./mm	Description
WFHD3E723630	74.14 x 36.00 x 30.00 1883 x 914 x 762	One-Door Frame
WFHD3E726830	74.14 x 68.56 x 30.00 1883 x 1741 x 762	Two-Door Frame

Includes frame, door(s), two sides and four lifting eyes.



## **TOPS**

Pagoda tops are designed to be used with Hoffman's Impeller packages. Pagoda tops include aluminum dampers and a stainless steel mesh to prevent the ingress of debris. Solid tops are designed to be used with a closed-loop cooling solution.

## **BULLETIN: A3RHD**

BOLLETIN: ASKIID		
Catalog Number	AxBxC in./mm	Description
WFHD3PT3630	15.53 x 36.00 x 33.42 394 x 914 x 849	Pagoda Top, One-Door
WFHD3ST3630	5.50 x 36.26 x 33.42 140 x 921 x 849	Solid Top, One-Door
WFHD3PT6830	15.53 x 68.89 x 33.42 394 x 1750 x 849	Pagoda Top, Two-Door
WFHD3ST6830	5.50 x 68.89 x 33.42 140 x 1750 x 849	Solid Top, Two-Door
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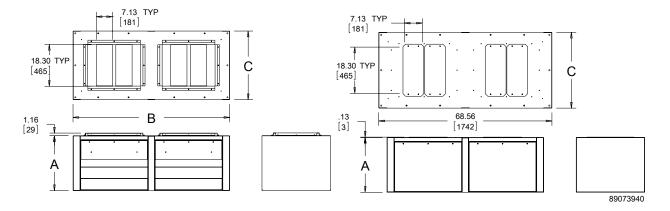


### **BASES**

Vented bases are designed to be used with Hoffman's Impeller packages and include a stainless steel mesh to prevent the ingress of debris. The vented bases have a provision to easily install a standard furnace filter. If vented bases are used, a maximum airflow furnace filter is recommended. Filters are not provided. Solid bases are designed to be used with a closed-loop cooling solution.

### **BULLETIN: A3RHD**

Catalog Number	AxBxC in./mm	Description	Gland Plate Openings
WFHD3B3630	24.00 x 36.00 x 30.00	Solid Base, One-Door	2
	610 x 914 x 762		
WFHD3VB3630	24.00 x 36.00 x 30.00 610 x 914 x 762	Vented Base, One-Door	2
WFHD3B6830	24.00 x 68.56 x 30.00 610 x 1741 x 762	Solid Base, Two-Door	4
WFHD3VB6830	24.00 x 68.56 x 30.00 610 x 1741 x 762	Vented Base, Two-Door	4

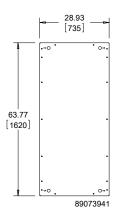


### **PANEL**

The panel size and openings are the same regardless of frame size. Select a panel for each door.

## **BULLETIN: A3RHD**

Catalog Number	AxBxC in./mm	Description
WFHDP7236	63.77 x 28.93 x 1.12	Panel
	1620 v 735 v 28	

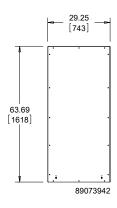


## **REAR COVERS**

The heavy-duty rear cover is designed for those applications when the drive is mounted directly to the rear cover of the enclosure instead of to the panel. Select a rear cover for each door.

## **BULLETIN: A3RHD**

Catalog Number	AxBxC in./mm	Description	Material
WFHD3RC7236	63.69 x 29.25 x 1.29 1618 x 743 x 33	Aluminum Rear Cover	.100-in. Aluminum
WFHD3RCH7236	63.69 x 29.25 x 1.29 1618 x 743 x 33	Heavy-Duty Rear Cover	12 Ga. Mild Steel



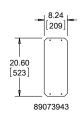


# **GLAND PLATE**

The gland plate is intended for use in combination with the vented base to cover unused impeller locations.

### **BULLETIN: A3RHD**

Catalog Number	AxB in./mm	Description	
WFHD3GP	20.60 x 8.24	Gland Plate	
	523 x 209		



# **JOINING KIT**

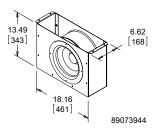
The joining kit will work on either one- or two-door models. The kit includes hardware and instructions. Enclosures should be joined/ganged at the application site, as the kit is not designed to be used while the enclosures are in transit.

Catalog Number	Description
WFHDJK	Joining Kit

### **IMPELLER**

Each Impeller package includes one high-performance, 115 VAC 60 Hz, shielded impeller and an aluminum housing. Each vented base has a provision for two impellers per door. Please see performance chart below.

Catalog Number	Description	Impeller Oty.
WFHDFP	Impeller Package	1



# **CFM PERFORMANCE CHART**

NO. OF	CFM	MAX HEAT DISSIPATION (IN WATTS) AT:			
IMPELLERS	CIW	10° Delta T	20° Delta T	30° Delta T	40° Delta T
1	840	2,654	5,309	7,963	10,618
2	1680	5,309	10,618	15,926	21,235
3	2520	7,963	15,926	23,890	31,853
4	3360	10,618	21,235	31,853	42,470
Calculated u	Calculated using the following equation: Watts = $.316 \times CFM \times \Delta T$				

### **PRODUCT SELECTION MATRIX**

	One-Door Enclosure	Two-Door Enclosure
Frame	WFHD3E723630	WFHD3E726830
Solid Top	WFHD3ST3630	WFHD3ST6830
Pagoda Top	WFHD3PT3630	WFHD33PT6830
Solid Base	WFHD3B3630	WFHD3B6830
Vented Base	WFHD3VB3630	WFHD3VB6830
Panel	WFHDP7236	WFHDP7236
Rear Cover	WFHD3RC7236	WFHD3RC7236
Heavy-Duty Rear Cover	WFHD3RCH7236	WFHD3RCH7236
Gland Plate	WFHD3GP	WFHD3GP
Impeller	WFHDFP	WFHDFP

Two-Door enclosures require two rear covers and two panels.