

WEATHERFLO HD ENCLOSURES



APPLICATION

WEATHERFLO 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
- Thermoplastic Data Pocket
- H2OMIT 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
5. 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

INDUSTRY STANDARDS

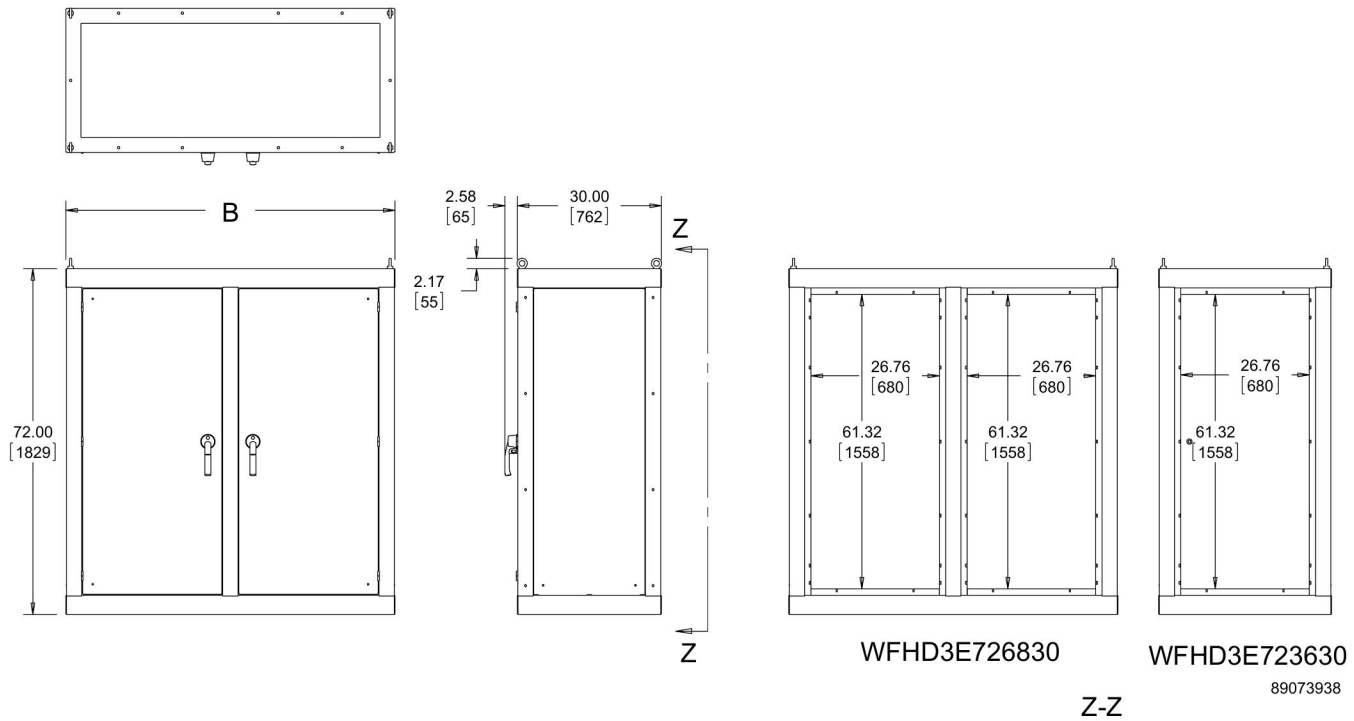
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NEMA/EEMAC Type 3R
 IEC 60529, IP22

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.



Product Selection Matrix

	One-Door Enclosure	Two-Door Enclosure
Frame	WFHD3E723630	WFHD3E726830
Solid Top	WFHD3ST3630	WFHD3ST6830
Pagoda Top	WFHD3PT3630	WFHD3PT6830
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

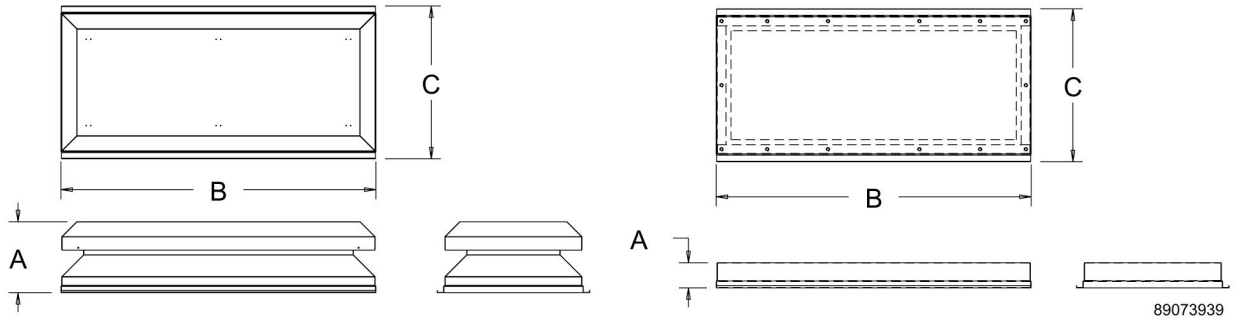
Two-Door enclosures require two rear covers and two panels.

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.

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Catalog Number	AxBxC in.	AxBxC 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

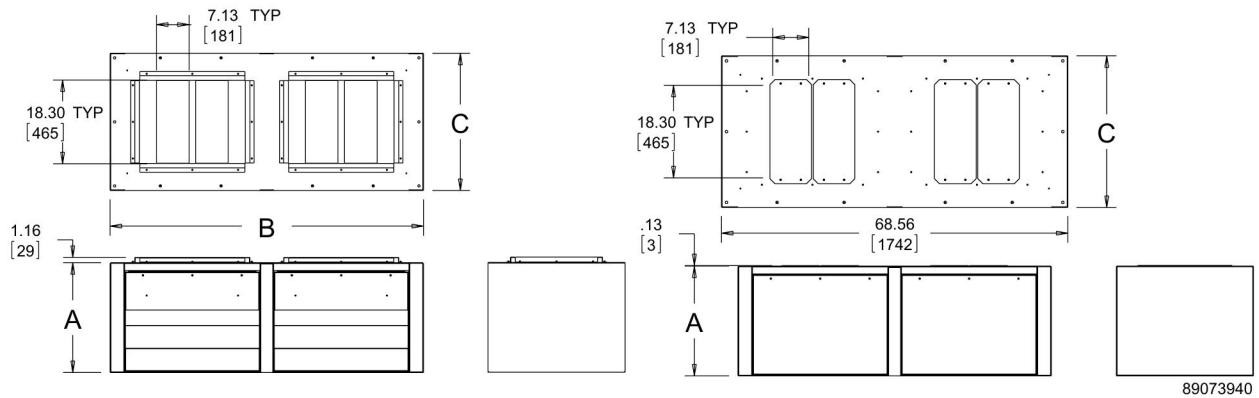


BASES

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.

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Catalog Number	AxBxC in./mm	Description	Gland Plate Openings
WFHD3B3630	24.00 x 36.00 x 30.00 610 x 914 x 762	Solid Base, One-Door	2
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

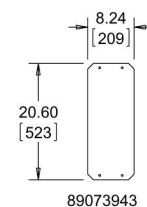


GLAND PLATE

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

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

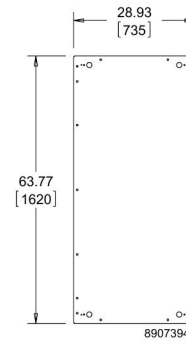


PANEL

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

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

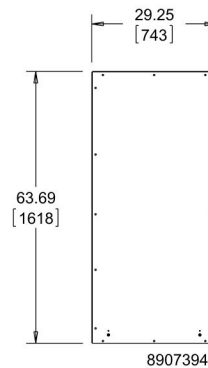


REAR COVERS

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



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.

BULLETIN: A3RHD

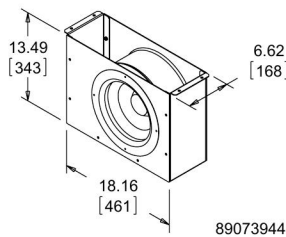
Catalog Number	Description
WFHDJK	Joining Kit

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.

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Catalog Number	Description	Impeller Qty.
WFHDFP	Impeller Package	1



CFM Performance Chart

Number of Impellers	CFM	Maximum Heat Disipation at 10° ΔT (W)	Maximum Heat Disipation at 20° ΔT (W)	Maximum Heat Disipation at 30° ΔT (W)	Maximum Heat Disipation at 40° ΔT (W)
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 using the following equation: Watts = .316 x CFM x ΔT