



HFDW(+H) SERIES

Horizontal Recessed Ceiling Fan Coil
1-3 Tons Cooling
Up to 71,300 BTUH HW Heat

The HFDW series compact twin blower design is engineered to be user friendly and only 10.25" high. The drain pan, coil, metering device, blower motor assembly, heater, and electrical components are easily accessible and removable for service, saving time and expensive service labor cost.

The HFDW series has a factory installed circulating pump with easy access check valve. Piping the HFDW fan coil to a properly sized gas-fired water heater provides space heating. To determine proper sizing please call your local manufacturers representative or contact the factory at 1-800-643-7701.

HFDW fan coils come standard with 120V, 2-speed motor, 24V transformer, and a circulating pump and check valve.

Factory installed housing add "+H" after the desired hot water coil in the model number. Example; HFDW18-30840G+H2+H.

Service Features:

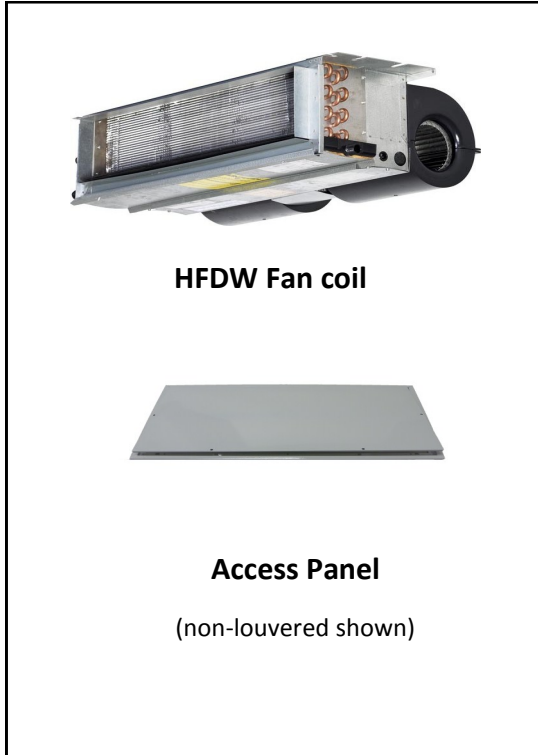
- Removable anti-microbial polycarbonate drain pan allows quick access to clean or remove coil.
- Two piece polycarbonate clam shell blower housing allows for easy access to blower wheels for motor replacement.
- Resilient motor mounts for quick replacement.

Standard Features:

- Easy access to electrical components.
- Anti-Microbial insulated polycarbonate drain pan with 3/4" NPT primary and secondary.
- 120V, 2 speed motor, 24V transformer and controls. Line voltage terminal block.
- High efficient **(G)** aluminum tube/aluminum fin or **(E)** copper tube/aluminum fin coils.
- Aluminum end plates.
- Piston-type metering device, bolt on or factory installed TXV.

Optional Features:

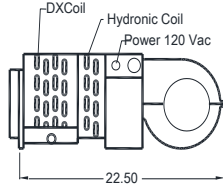
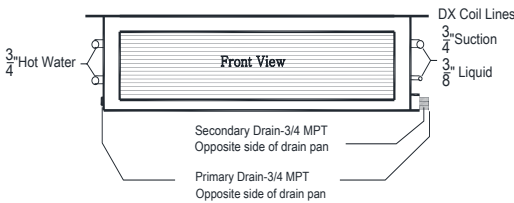
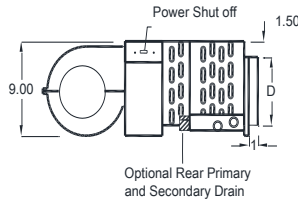
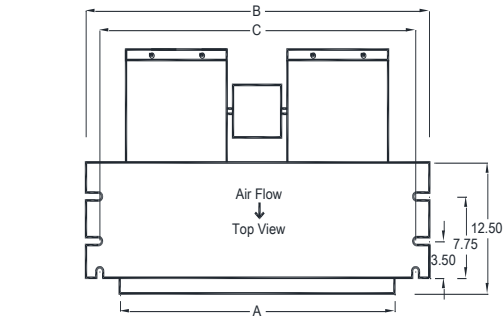
- White, powder coated, solid or louvered, hinged access panels with mounting screws.
- Insulated housing, factory or field installed, allows for ducted return air plenum.
- Easy serviceable circulating pump with check valve.
- A/C or heat pump TXV in R-22 or R410, factory or field installed.
- Available in 120V.



AllStyle Coil Co., L.P.

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| MODEL | A Dimension | B Dimension | D Dimension |
|-------------------------|-------------|-------------|-------------|
| HFDW 12, 18, 24, and 30 | 36.00" | 43.25" | 7" |
| HFDW 36 | 42.00" | 49.25" | 7" |

| BLOWER PERFORMANCE | | | | |
|--------------------|-------|--------------------------|------|------|
| MODEL | Speed | External Static Pressure | | |
| | | 0.10 | 0.20 | 0.30 |
| HFDW 12/18 | Low | 580 | 510 | 440 |
| | High | 675 | 605 | 525 |
| HFDW 24 | Low | 655 | 585 | 510 |
| | High | 800 | 740 | 665 |
| HFDW 30 | Low | 800 | 720 | 640 |
| | High | 990 | 950 | 855 |
| HFDW 36 | Low | 1125 | 1015 | 905 |
| | High | 1220 | 1130 | 1015 |
| HFDW 37 | Low | 1240 | 1125 | 1015 |
| | High | 1335 | 1265 | 1145 |

Add .05 static when enclosure is used

Vertical height on all models is 10.25 inches.

Vertical duct connection height on all models is 8.75 inches.



| ELECTRICAL SPECIFICATIONS @ 115 VOLTS | | | | |
|---------------------------------------|-----------|------|-----|-----|
| MODEL | Blower HP | AMPS | MCA | MOP |
| HFDW 12 | 1/8 | 1.65 | 2.1 | 15 |
| HFDW 18 | 1/4 | 2.9 | 3.7 | 15 |
| HFDW 24 | 1/3 | 3.3 | 4.2 | 15 |
| HFDW 30 | 1/3 | 3.3 | 4.2 | 15 |
| HFDW 36 | 1/2 | 5.7 | 7.2 | 15 |

| Cooling Performance | | | | | | | |
|---------------------|------|--|-----------|-----------|--|-----------|-----------|
| Model | CFM | Copper | | | Aluminum | | |
| | | Total Capacity/Sensible Capacity (MBTUH) | | | Total Capacity/Sensible Capacity (MBTUH) | | |
| | | 40degF | 45degF | 50degF | 40degF | 45degF | 50degF |
| HFDW18-30824 | 600 | 20.3/13.2 | 16.3/11.5 | 12.7/10.0 | 19.4/12.9 | 16.5/11.7 | 12.6/9.9 |
| HFDW18-30832 | 600 | 24.3/15.6 | 20.3/13.8 | 14.1/11.3 | 24.1/15.6 | 19.9/13.7 | 15.5/11.8 |
| HFDW24-30832 | 800 | 28.6/18.7 | 24.0/16.7 | 17.9/14.2 | 28.3/18.6 | 23.3/16.5 | 17.9/14.2 |
| HFDW24-30840 | 800 | 31.6/20.4 | 26.5/18.1 | 18.5/14.8 | 31.4/20.4 | 25.9/17.9 | 19.6/15.2 |
| HFDW24-30850 | 800 | 35.2/22.6 | 28.5/19.4 | 20.9/16.2 | 35.1/22.8 | 28.4/19.5 | 21.4/16.3 |
| HFDW30-36832 | 1000 | 33.8/22.5 | 28.7/20.3 | 22.2/17.5 | 32.7/22.0 | 28.2/20.1 | 22.1/17.6 |
| HFDW30-36840 | 1000 | 38.6/25.1 | 32.0/22.1 | 24.4/18.9 | 37.8/24.7 | 31.6/21.9 | 24.7/19.1 |
| HFDW30-36850 | 1000 | 43.2/28.0 | 34.9/24.0 | 26.7/20.3 | 41.6/27.3 | 34.9/24.2 | 26.5/20.3 |
| HFDW36-42832 | 1150 | 38.4/25.7 | 32.2/22.9 | 25.9/20.5 | 35.7/24.5 | 31.0/22.6 | 24.7/20.0 |
| HFDW36-42840 | 1150 | 43.4/28.4 | 36.9/25.6 | 28.5/21.9 | 41.8/27.7 | 35.3/24.9 | 27.9/21.8 |
| HFDW36-42850 | 1150 | 48.1/31.6 | 40.0/27.7 | 30.4/23.2 | 45.3/30.4 | 38.9/27.6 | 30.3/23.5 |

| Performance | | | | | | |
|-------------|------|------|--|-------|-------|-------|
| Model | Rows | CFM | Heating Performance | | | |
| | | | Heat MBTUH based on 3 GPM 70F RA Temp. | | | |
| | | | 120 F | 140 F | 160 F | 180 F |
| HFDW 12/18 | 1 | 400 | 6.9 | 9.7 | 12.5 | 15.4 |
| | | 600 | 8.1 | 11.4 | 14.7 | 18.0 |
| | 2 | 400 | 11.5 | 16.1 | 20.8 | 25.4 |
| | | 600 | 13.9 | 19.5 | 25.2 | 30.9 |
| | 3 | 400 | 14.0 | 19.8 | 25.5 | 31.2 |
| | | 600 | 17.4 | 24.5 | 31.6 | 39.7 |
| | 4 | 400 | 15.7 | 22.1 | 28.5 | 34.9 |
| | | 600 | 19.8 | 27.9 | 36.0 | 44.1 |
| HFDW 24 | 1 | 600 | 8.9 | 12.5 | 16.2 | 19.9 |
| | | 800 | 10.0 | 14.1 | 18.2 | 22.3 |
| | 2 | 600 | 15.0 | 21.1 | 27.2 | 33.3 |
| | | 800 | 17.1 | 24.1 | 31.0 | 38.0 |
| | 3 | 600 | 18.6 | 26.1 | 33.7 | 41.2 |
| | | 800 | 21.4 | 30.1 | 38.9 | 47.6 |
| | 4 | 600 | 20.9 | 29.4 | 37.9 | 46.5 |
| | | 800 | 24.3 | 34.2 | 44.2 | 54.1 |
| HFDW 30 | 1 | 800 | 10.9 | 15.3 | 19.7 | 24.2 |
| | | 1000 | 11.8 | 16.7 | 21.5 | 26.4 |
| | 2 | 800 | 18.3 | 25.7 | 33.1 | 40.6 |
| | | 1000 | 20.1 | 28.3 | 36.5 | 44.7 |
| | 3 | 800 | 22.6 | 31.8 | 41.0 | 50.2 |
| | | 1000 | 25.1 | 35.3 | 45.4 | 55.7 |
| | 4 | 800 | 25.5 | 35.9 | 46.3 | 56.7 |
| | | 1000 | 28.4 | 40.0 | 51.5 | 63.1 |
| HFDW 36 | 1 | 1000 | 12.7 | 17.9 | 23.1 | 28.3 |
| | | 1200 | 13.6 | 19.2 | 24.8 | 30.4 |
| | 2 | 1000 | 21.3 | 30.0 | 38.6 | 47.3 |
| | | 1200 | 23.0 | 32.3 | 41.6 | 51.0 |
| | 3 | 1000 | 26.3 | 36.9 | 47.6 | 58.3 |
| | | 1200 | 28.4 | 40.0 | 51.5 | 63.1 |
| | 4 | 1000 | 29.6 | 41.6 | 53.6 | 65.6 |
| | | 1200 | 32.1 | 45.1 | 58.2 | 71.3 |

HFDW24- **30** **832** - **H2** **NP** — Pump or No Pump

Rows of Hot Water

Coil specifications

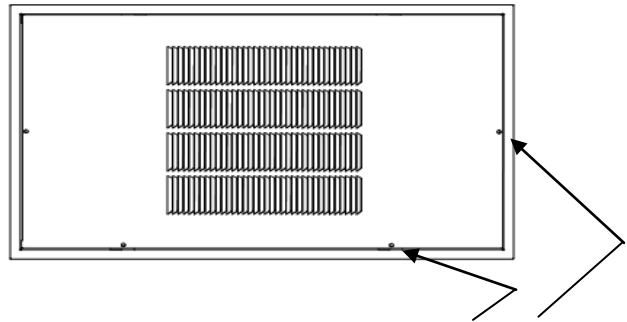
Coil Length

Nominal Tons

Ceiling Access Panels

| CEILING ACCESS PANELS | | | | | | | |
|-------------------------|--------------|-----------|--------------|-------------------------|--------------|-----------------------------|----------|
| FOR MODEL | PUMP | PANEL NO. | DESCRIPTION | CEILING PANEL OPENING | | PANEL FRAME DIMS. (OUTSIDE) | |
| | | | | HFDW 12, 18, 24, and 30 | WITHOUT PUMP | PL-4575 | LOUVERED |
| HFDW 12, 18, 24, and 30 | WITH PUMP | PS-4575 | NON-LOUVERED | 24-1/2" | 46" | 28" | 49-3/4" |
| HFDW 36 | WITHOUT PUMP | PL-5175 | LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 36 | WITH PUMP | PS-5175 | NON-LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 12, 18, 24, and 30 | WITHOUT PUMP | PL-5175 | LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 12, 18, 24, and 30 | WITH PUMP | PS-5175 | NON-LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 36 | WITHOUT PUMP | PL-5875 | LOUVERED | 24-1/2" | 52" | 28" | 62-3/4" |
| HFDW 36 | WITH PUMP | PS-5875 | NON-LOUVERED | 24-1/2" | 52" | 28" | 62-3/4" |

(Louvers may differ from picture)
 Louvered panels accept 20 X 20 X 1" filter
 (field supplied)



White thumb screws
For Easy Access



#PL-4575, PL-5175,
and PL-5875



#PS-4575, PL-5175
and PS-5875

Housing with Ceiling Panels

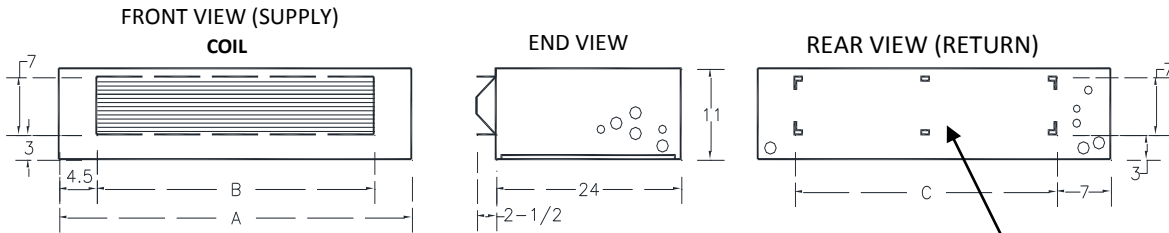
(Housings and panels are standard with ALL “-H” models or can be ordered separately as a accessory kit)

| CEILING PANEL/ENCLOSURE INFORMATION | | | | | | | | | | | |
|-------------------------------------|-------------|--------------------|---------|-----|--------------|-----------|--------------|-----------------------|-----------------------------|-----|---------|
| FOR MODEL | HOUSING NO. | HOUSING DIMENSIONS | | | PUMP | PANEL NO. | DESCRIPTION | CEILING PANEL OPENING | PANEL FRAME DIMS. (OUTSIDE) | | |
| | | H | W | D | | | | | | | |
| HFDW 12,18,24, and 30 | 4575 | 11" | 45-3/4" | 24" | WITHOUT PUMP | PL-4575 | LOUVERED | 24-1/2" | 46" | 28" | 49-3/4" |
| | | | | | WITH PUMP | PS-4575 | NON-LOUVERED | 24-1/2" | 46" | 28" | 49-3/4" |
| HFDW 12,18,24, and 30 | 5175 | 11" | 51-3/4" | 24" | WITHOUT PUMP | PL-5175 | LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| | | | | | WITH PUMP | PS-5175 | NON-LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 36 | 5175 | 11" | 51-3/5" | 24" | WITHOUT PUMP | PL-5175 | LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| | | | | | WITH PUMP | PS-5175 | NON-LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 12,18,24, and 30 | 5175 | 11" | 51-3/4" | 24" | WITHOUT PUMP | PL-5175 | LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| | | | | | WITH PUMP | PS-5175 | NON-LOUVERED | 24-1/2" | 52" | 28" | 55-3/4" |
| HFDW 36 | 5875 | 11" | 58-1/2" | 24" | WITHOUT PUMP | PL-5875 | LOUVERED | 24-1/2" | 52" | 28" | 62-3/4" |
| | | | | | WITH PUMP | PS-5875 | NON-LOUVERED | 24-1/2" | 52" | 28" | 62-3/4" |

(See panel pictures on page 3)

NOTES:

- These housings are shipped with units installed unless specified otherwise.
- Customer needs to specify on order which panel is wanted.



| ENCLOSURE DIMENSIONS | | | | | |
|----------------------|---------------|--------------|--------|--------|--------|
| FOR MODEL | ENCLOSURE NO. | PUMP | A | B | C |
| 12,18,24, 30 HFDW | 4575 | WITHOUT PUMP | 45-3/4 | 36-5/8 | 36-5/8 |
| 36 HFDW | 5175 | WITHOUT PUMP | 51-3/4 | 36-5/8 | 36-5/8 |
| 12,18,24, 30 HFDW | 5175 | WITH PUMP | 51-3/4 | 36-5/8 | 36-5/8 |
| 36 HFDW | 5875 | WITH PUMP | 58-3/4 | 42-5/8 | 42-5/8 |

KNOCKOUT FOR DUCTED RETURN
 (Requires filter grille-field supplied)
 (Ducted return requires non-louvered panel)



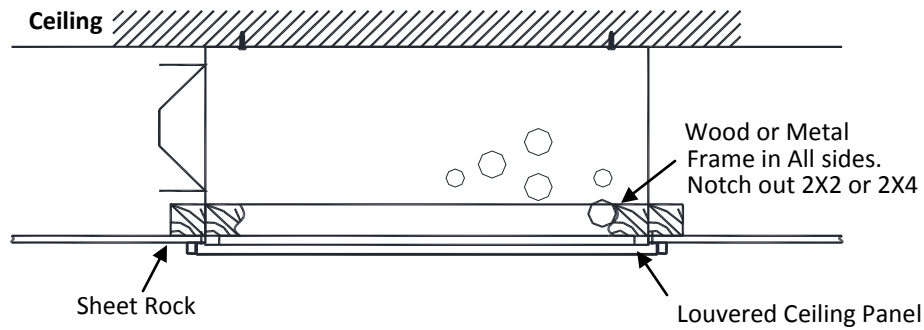
| Expansion valve kit (Heat pump and Cooling only) | | |
|--|--------|------------|
| PART NO. | TYPE | FOR |
| RP31114 | R-410A | 1-2 Tons |
| RP31115 | R-410A | 2.5-3 Tons |
| | | |
| RP31117 | R-410A | 1-2 Tons |
| RP31118 | R-410A | 2.5-3 Tons |

Notes:

- Expansion valve kits are approved for both heat pump or cooling only (non heat pump) applications.
 - Valves are factory installed or field installed.
 - Contractor friendly screw-on connections.
 - Valves are external equalizing, internal bleed.
- * +V For cooling only valves Ex. HF18-30840G+V+5+H
 * +VP For heat pump model valves Ex. HF18-30840G+VP+5+H



ENCLOSURE INSTALLATION SUPPORT FRAMING



ENCLOSURE CONNECTION LOCATIONS

