



## 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:

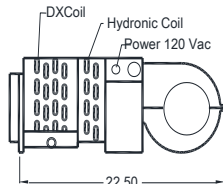
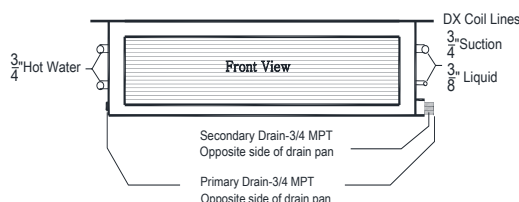
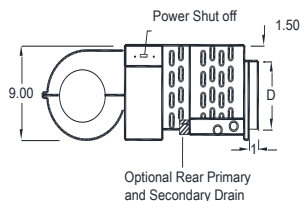
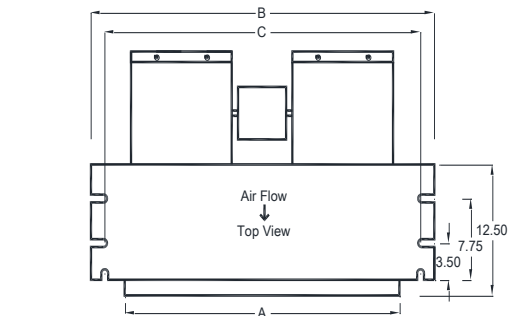
- White, powder coated, solid or louvered, hinged access panels with mounting screws.
- Insulated housing, factory or field installed, allows for ducted return air plenum.
- Easy serviceable circulating pump with check valve.
- A/C or heat pump TXV in R-22 or R410, factory or field installed.
- Available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



# AllStyle Coil Co., L.P.

7037 Brittmore; Houston, Texas 77041  
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## HFDW(+H) SERIES



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						
		Heating Performance				
Model	Rows	CFM	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

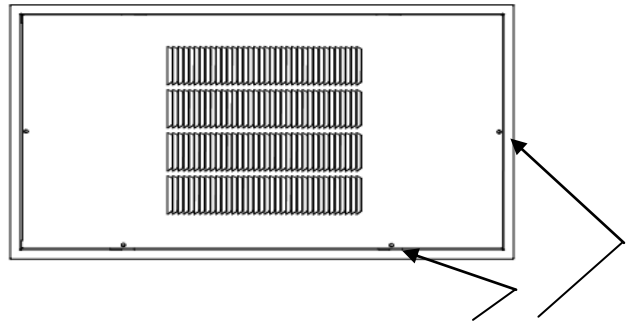
Coil Length

Nominal Tons

## Ceiling Access Panels

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

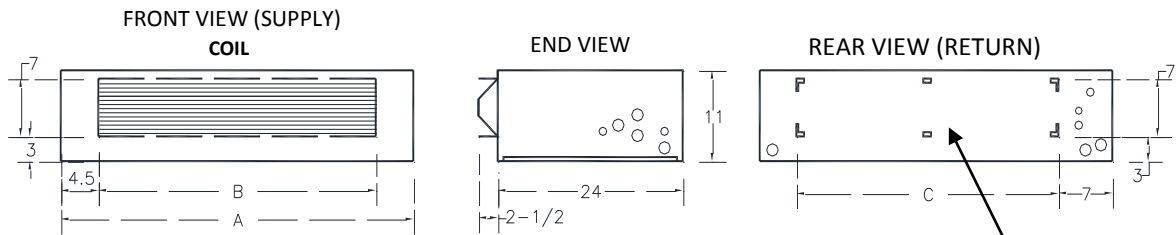
(Housings and panels are standard with ALL “-H” models or can be ordered separately as a accessory kit)

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"
						PS-4575	NON-LOUVERED	24-1/2"	46"	28"	49-3/4"
HFDW 12,18,24, and 30	5175	11"	51-3/4"	24"	WITH PUMP	PL-5175	LOUVERED	24-1/2"	52"	28"	55-3/4"
						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"
						PS-5175	NON-LOUVERED	24-1/2"	52"	28"	55-3/4"
HFDW 12,18,24, and 30	5175	11"	51-3/4"	24"	WITH PUMP	PL-5175	LOUVERED	24-1/2"	52"	28"	55-3/4"
						PS-5175	NON-LOUVERED	24-1/2"	52"	28"	55-3/4"
HFDW 36	5875	11"	58-1/2"	24"	WITH PUMP	PL-5875	LOUVERED	24-1/2"	52"	28"	62-3/4"
						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)



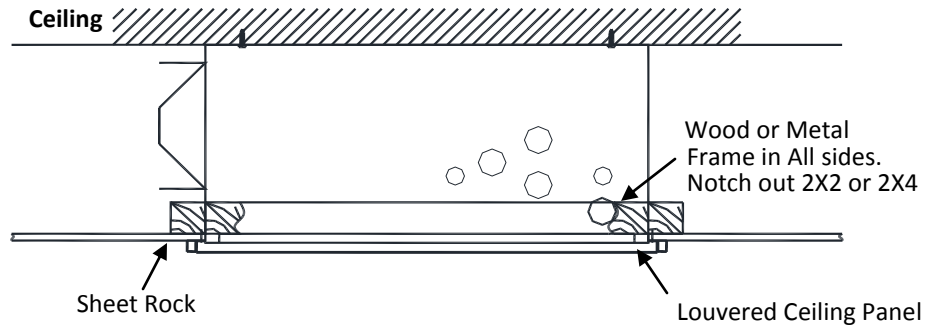
Expansion valve kit (Heat pump and Cooling only)		
PART NO.	TYPE	FOR
RP31114	R-410A	1-2 Tons
RP31115	R-410A	2.5-3 Tons
RP31117	R-410A	1-2 Tons
RP31118	R-410A	2.5-3 Tons

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**

