



#7

**Stock Cabinet
Fan/Coils
400 thru 1000 CFM**

1-800-USA-COIL
(1-800-872-2645)

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TERMS AND CONDITIONS

USA Coil & Air, Inc. reserves the right to change dimensional, construction, performance or any other criteria shown in this publication without notice to its customers.

Acceptance of orders. Purchase orders are subject to acceptance and approval by USA Coil & Air, Inc. (seller). No Terms or Conditions appearing on purchase orders of other related documents that are contrary to our Standard Terms and Conditions shall be binding unless specifically agreed to beforehand by the Seller in writing.

Cancellation of orders. The Purchaser can cancel or modify an order upon written notice and Purchaser shall pay all costs (cancellation or modification) and charges as determined in an equitable way by seller.

Quotations. Any quotation in writing by USA Coil & Air, Inc. may or may not include freight charges within the quoted price(s). Regardless, all equipment is sent F.O.B. Factory and it is the Purchaser's responsibility to make claim for loss or damage with transportation (delivering) carrier.

Warranty. USA COIL & AIR, INC. WARRANTS TO THE ORIGINAL OWNER/USER OF THE USA COIL & AIR, INC. UNIT IDENTIFIED ABOVE TO BE FREE OF ORIGINAL DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE EFFECTIVE DATE OF THIS WARRANTY.

The Warranty extends for twelve (12) months from date of start-up, but no longer than eighteen (18) months from the date of shipment. The warranty does not include the filter.

This Warranty on the units obligates USA Coil & Air, Inc. to repair or replace, free of charge, any part or parts that show evidence of being defective in material and workmanship and are deemed so defective by personnel of USA Coil & Air, Inc.. The part must be returned for replacement with the proper information as required.

USA Coil & Air, Inc. assumes no obligation for labor required to replace the defective part or parts nor the freight or postage required to return or to secure the part which shall be at the cost and expense of the Original Owner/User. Warranty does not include breakage or rupture of water tubing and/or water condenser coil when subjected to freezing temperatures.

USA Coil & Air, Inc., will replace the defective part or parts within 21 days after the return to the USA Coil & Air, Inc. of such defective part or parts provided notice of such defect was given by Original Owner/User within the Warranty period.

An optional, additional four-year protection plan on the compressor is available at modest cost at the time of original unit sale only. This obligates USA Coil & Air, Inc. to replace f.o.b. factory, a defective compressor with a comparable compressor of equal capacity free of charge. No responsibility is assumed by USA Coil & Air, Inc. for refrigerant, labor, or freight to and from factory.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE (1) YEAR FROM EFFECTIVE DATE OF THIS WARRANTY. USA COIL & AIR, INC. IS NOT LIABLE FOR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT IN PART. THERE ARE NO OTHER OBLIGATIONS ON THE PART OF THE USA COIL & AIR, INC..

Warranty of Fitness

USA Coil & Air, Inc. does not provide a warranty of fitness since, in good faith USA Coil & Air, Inc. cannot anticipate or control the many different conditions under which the products of USA Coil & Air, Inc. may be used.

USA Coil & Air Fan/Coil Units with design flexibility unavailable in other units.

Horizontal Units with complete cabinets around them
for use in a variety of applications.

GENERAL APPLICATIONS & USES

USA Coil & Air Units can be installed as a basic unit where you pull the air in from the space where the unit is installed. You can also install the unit as a fully ducted return unit and duct in and out. USA Coil & Air Vertical units are designed for apartment or closet applications.

Other applications include:

- Spot cooling and/or heating
- Perimeter cooling and/or heating
- Space cooling and/or heating
- Offices, schools, hospitals, rooms, residences, apartments or general use.

Special Note

USA Coil & Air Horizontal Units can be used for exposed applications. The cabinet is sufficiently attractive that there is no problem in exposing the unit. Our coil connections and drain connections come out the side of the unit however, and special care must be given to covering the piping and wiring, if that is a consideration.

CONSTRUCTION SPECIFICATIONS

Coils – All coils are copper tube/aluminum fin. Chilled water coils are circuited for both heating or cooling and DX coils are capillary tube and require no expansion valve.

Fans – Forward curved steel construction. All fans lay on their sides so that units maintain a low overall height. Fans are factory balanced.

Filters – 1” throwaway type on all units.

Motors – All motors are 3-speed, 115V/60/1. Optional

208/230/60/1 and 277/60/1 voltages available. Motors are U.L. approved and thermally protected against overload.

Insulation – Entire interior of unit is covered with 3/4” thick Tuf-Skin insulation. R value = 3.26

Hot Water Section – A hot water section with a 2 row hot water coil can be added in a 4-pipe system or with a DX coil. This section has additional space to mount a pump inside the section.

ADDITIONAL FEATURES FOR ‘BEST IN THE INDUSTRY’ FAN/COILS.

Blower & Filter Access – Blower and filter panels are designed for either top or bottom access. We build our units with bottom access, but you can easily change the unit to top access by removing the coil and drain pan assembly. Turn the entire unit over so that the access panels are on the top, and then slide the coil assembly back in the unit. There are many jobs where top access is required.

Ceiling Suspension – All horizontal units have 3/8” thread nuts in each corner of the top and bottom panels for easy ceiling suspension.

Duct Connections – All horizontal units have duct connections on the air inlet and outlet. Vertical units have duct connections on the air inlet only.

Heat Pump Ready – All units with DX coils have a

“heat pump kit”, which makes them compatible for use with heat pumps. This is standard on all units.

Coil Connections – On all horizontal units, the coil connections are on the right hand side looking in the direction of the airflow. The drain connections are on both sides of the unit. On all vertical units, the coil connections come out the front of the unit on the left side looking in the direction of airflow. Drain connection is in the same location.

High Static Pressure – All horizontal and vertical units are 3 speed and deliver your required CFM up to .5” external static pressure at the high speed.

Stock Products from USA Coil & Air



WHD or XHD
Horizontal
1 Ton Thru 2 1/2 Ton



WVD or XVD
Vertical
1 Ton Thru 2 1/2 Ton

THE HORIZONTAL OR VERTICAL FAN/COIL UNIT.

Our complete line of WHD, XHD and XVD Fan/Coil units continues the USA Coil & Air tradition of stocking units that set the industry standard for quality and value. You can order your choice of "horizontal" or "vertical" units with chilled water or DX cooling. You can

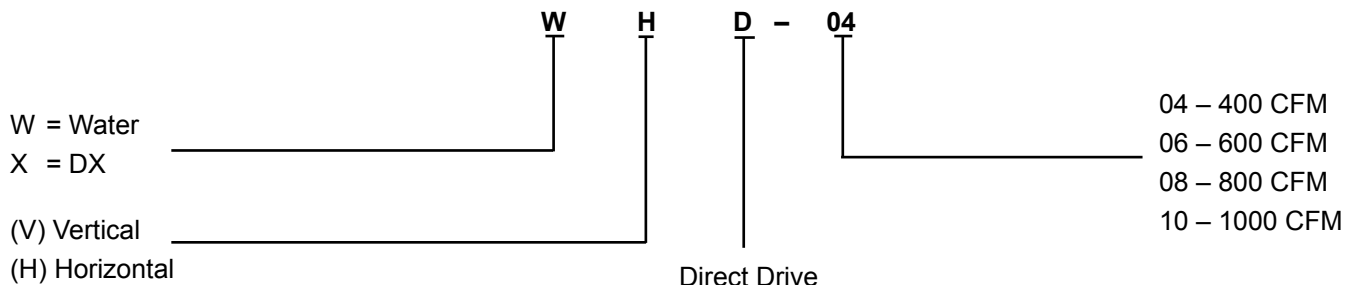
operate your unit as a 2 pipe system and use the water cooling coil as a heating coil or operate as a 4 pipe system and add a separate hot water coil. Whatever you choose, you can order it out of stock from USA Coil & Air.

Quality Features on all USA Coil & Air Fan/Coil Units

- **Basic Cabinet Construction** – 20/18 Ga. panels with all exterior surfaces bonderized and coated with a beige baked on enamel finish. All units are designed for hidden or exposed applications.

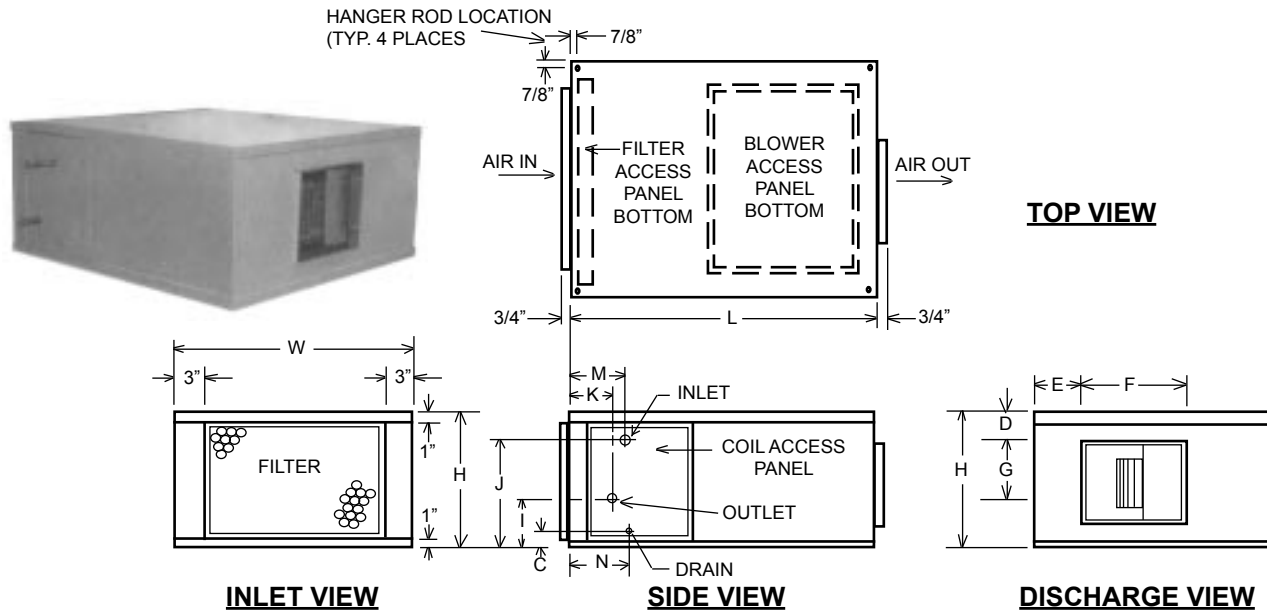
- **Drain Pan** – 20 Ga. galvanized steel construction on all units.

NOMENCLATURE



Horizontal Fan Coils

Horizontal - DX & Water - Dimensions & Specifications



DIRECT DRIVE HORIZONTAL FAN/COILS

WHD & XHD CABINET DIMENSIONS

MODEL	UNIT			BLOWER OPENING OUTLET				LOCATIONS					
	W	H	L	D	E	F	G	C	I	J	K	M	N
XHD & WHD-04	29	12.5	32.5	2.5	7	10.75	7.25	2.25	4.50	10.00	4.00	6.625	7.500
XHD & WHD-06	25	14.5	32.5	3	5	10.75	8.75	2.25	4.50	11.00	4.00	6.625	7.375
XHD & WHD-08	31.5	14.5	32.5	3	8.25	10.75	8.75	1.875	4.50	10.50	4.00	7.00	7.375
XHD & WHD-10	38	14.5	34	3	10.25	10.75	8.75	1.875	4.25	10.50	4.00	6.875	7.375

WHD SERIES SPECIFICATIONS (WATER COIL)

MODEL	FACE AREA SQ. FT.	ROWS TUBE	NOMINAL RATING IN TONS	DD MOTOR HP 3 SPEED	VOLTS	PHASE	BLOWER DD	THROWAWAY FILTERS 7/8" THICK (ACTUAL SIZE)	MANIFOLD CONNECTIONS	UNIT SHIPPING WEIGHT
WHD-04	1.50	4 - 3/8	1	1/10	115	1	9-4	11.75 X 24.75	5/8" O.D. SWT	102
WHD-06	1.53	4 - 3/8	1.5	1/8	115	1	9-6	14 X 20.75	5/8" O.D. SWT	103
WHD-08	2.02	4 - 3/8	2	1/4	115	1	9-6	13.5 X 27.5	5/8" O.D. SWT	125
WHD-10	2.52	4 - 3/8	2.5	1/3	115	1	10-6	13.75 X 33.75	5/8" O.D. SWT	140

Rating based on nominal CFM, 80/67 Ent. Air, 45° to 55° water. Tonnage is approximate.

See pages 8 & 9 for specific performance.

XHD SERIES SPECIFICATIONS (DX COIL)

MODEL	FACE AREA SQ. FT.	ROWS TUBE	NOMINAL RATING IN TONS	DD MOTOR HP 3 SPEED	VOLTS	PHASE	BLOWER DD	THROWAWAY FILTERS 7/8" THICK (ACTUAL SIZE)	FREON CONNECT.		UNIT SHIPPING WEIGHT
									LQ. LINE O.D. SWT	SUCTION O.D. SWT	
XHD-04	1.50	4 - 3/8	1	1/10	115	1	9-4	11.75 X 24.375	3/8	5/8	102
XHD-06	1.53	4 - 3/8	1.5	1/8	115	1	9-6	14 X 20.75	3/8	5/8	103
XHD-08	2.02	4 - 3/8	2	1/4	115	1	9-6	13.5 X 27	3/8	5/8	125
XHD-10	2.52	4 - 3/8	2.5	1/3	115	1	10-6	13.75 X 33.75	3/8	5/8	140

Rating based on nominal CFM, 80/67 Ent. Air, 45° to 55° water. Tonnage is approximate.

See page 10 for specific performance.

WHD & XHD (WATER & DX COILS) - NO HEATING COIL SECTION

CFM VS EXTERNAL STATIC

MODEL	SPEED SETTINGS	EXTERNAL STATIC PRESSURE				
		.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
XHD & WHD-04	HIGH	590	570	555	525	490
	MEDIUM	420	410	395	380	350
	LOW	315	300	280	255	225
XHD & WHD-06	HIGH	805	770	720	665	610
	MEDIUM	615	610	585	550	510
	LOW	520	515	500	485	455
XHD & WHD-08	HIGH	1040	1000	950	900	845
	MEDIUM	875	860	835	795	750
	LOW	670	665	660	655	635
XHD & WHD-10	HIGH	1290	1245	1200	1155	1110
	MEDIUM	1105	1080	1060	1035	1000
	LOW	930	915	895	885	860

WHD & XHD (WATER & DX COILS) - WITH 2 ROW HEATING COIL

CFM VS EXTERNAL STATIC

MODEL	SPEED SETTINGS	EXTERNAL STATIC PRESSURE				
		.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
XHD & WHD-04 W/2 ROW HEATING COIL	HIGH	580	560	535	505	475
	MEDIUM	415	400	390	370	345
	LOW	310	295	275	250	220
XHD & WHD-06 W/2 ROW HEATING COIL	HIGH	755	715	670	615	555
	MEDIUM	605	590	560	520	480
	LOW	515	505	490	465	430
XHD & WHD-08 W/2 ROW HEATING COIL	HIGH	990	945	895	845	795
	MEDIUM	860	835	800	760	710
	LOW	670	665	660	645	610
XHD & WHD-10 W/2 ROW HEATING COIL	HIGH	1235	1195	1150	1110	1060
	MEDIUM	1090	1065	1040	1005	970
	LOW	920	910	890	870	840

Horizontal Fan Coils

Horizontal - Water Cooling Capacities

CHILLED WATER COOLING CAPACITIES – WHD-04

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	1.2	0.96	300	13.4	8.3	59.7	57.9	64.3	11.4	7.6	56.07	55.0	61.0	9.4	6.9	53.9	52.3	57.7
			400	14.5	9.7	62.8	60.7	66.2	12.3	8.9	59.5	57.5	62.5	10.1	8.1	56.4	54.6	58.8
			500	15.3	10.9	65.0	62.5	67.5	13.0	10.1	61.4	59.1	63.7	10.9	9.2	58.1	55.9	60.2
	2.4	3.85	300	17.4	9.8	54.9	53.1	56.5	14.4	8.9	52.9	51.2	54.0	11.9	7.9	50.7	49.1	51.9
			400	19.8	11.6	58.3	56.2	58.5	16.7	10.6	55.6	53.6	58.9	13.3	9.4	53.4	51.6	53.1
			500	21.5	13.1	61.0	58.5	59.9	18.2	12.1	57.8	55.5	57.2	15.0	10.9	55.0	52.8	54.5
3.6	8.63	300	18.9	10.5	53.0	51.2	52.5	15.8	9.5	51.0	49.1	50.8	12.7	8.3	49.5	47.9	49.1	
		400	22.4	12.6	56.0	53.9	54.4	18.4	11.3	54.0	52.0	52.2	14.9	10.1	51.8	50.0	50.3	
		500	24.7	14.3	58.7	56.2	55.7	20.7	13.1	56.0	53.7	51.5	16.6	11.6	53.8	51.6	51.2	
45°F	1.2	0.96	300	12.3	7.9	60.9	59.1	65.5	10.0	7.1	58.2	56.5	61.8	8.2	6.4	55.4	53.8	58.7
			400	13.1	9.2	63.9	61.8	66.8	11.0	8.5	60.6	58.6	63.3	8.9	7.6	57.5	55.7	59.8
			500	13.8	10.4	65.9	63.4	68.0	11.5	9.6	62.4	60.1	64.2	9.4	8.7	59.1	56.9	60.7
	2.4	3.85	300	15.8	9.2	56.9	55.1	58.2	13.1	8.3	54.6	52.9	55.9	10.2	7.2	52.9	51.3	53.5
			400	17.8	10.9	60.0	57.9	59.8	14.8	9.9	57.3	55.3	57.3	11.6	8.7	55.0	53.2	54.7
			500	19.8	12.5	62.1	59.6	61.5	16.1	11.3	59.3	57.0	58.4	13.0	10.1	56.5	54.3	55.8
3.6	8.63	300	17.3	9.8	55.0	53.2	54.6	14.2	8.8	53.2	51.9	52.9	11.3	7.7	51.5	49.9	51.3	
		400	20.2	11.8	58.0	55.6	56.2	16.6	10.6	55.7	53.7	54.2	13.0	9.3	53.7	51.9	52.2	
		500	22.8	13.6	60.1	59.6	57.7	18.4	12.2	57.7	55.4	55.2	14.8	10.8	55.2	53.0	53.2	
48°F	1.2	0.96	300	11.1	7.5	62.2	60.4	66.5	9.1	6.7	59.4	57.7	63.2	7.0	5.9	56.9	55.3	59.7
			400	11.9	8.8	64.8	62.7	67.8	9.6	7.9	61.8	59.8	64.0	7.6	7.2	58.6	56.8	60.7
			500	12.6	10.0	66.6	64.1	69.0	10.1	9.1	63.3	61.0	62.8	8.0	8.0	60.3	57.9	61.3
	2.4	3.85	300	14.4	8.7	58.5	56.7	60.0	11.6	7.7	56.4	54.7	57.7	8.7	6.6	54.8	53.2	55.3
			400	16.3	10.3	61.3	59.2	61.6	12.9	9.2	59.0	57.0	58.8	10.2	8.2	56.3	54.5	56.5
			500	17.7	11.8	63.4	60.9	62.8	14.4	10.6	60.5	58.2	60.0	11.0	9.2	58.0	55.8	57.2
3.6	8.63	300	15.7	9.2	57.0	55.2	56.7	12.4	8.0	55.4	53.7	54.9	9.6	7.0	53.7	52.1	53.3	
		400	18.0	10.9	59.9	57.9	58.0	14.5	9.8	57.6	55.6	56.1	11.0	8.5	55.6	53.8	54.1	
		500	20.2	12.6	61.8	59.3	59.2	16.1	11.3	59.3	57.0	56.9	12.6	9.9	56.8	54.6	55.0	
55°F	1.2	0.96	300	8.2	6.5	65.2	63.4	68.7	6.1	5.7	62.7	61.0	65.2	4.6	4.6	61.0	58.1	62.6
			400	8.5	7.7	67.4	65.3	69.2	6.6	6.6	64.9	62.2	66.0	5.3	5.3	62.8	58.8	63.8
			500	9.0	8.9	68.7	66.2	70.0	7.4	7.4	66.4	62.7	67.1	6.0	6.0	64.0	59.2	65.0
	2.4	3.85	300	10.4	7.2	63.0	61.2	63.7	7.6	6.2	61.1	59.4	61.3	5.0	5.0	59.7	57.7	59.2
			400	11.6	8.7	65.1	63.0	64.7	8.9	7.7	62.3	60.3	62.4	6.1	6.1	61.0	58.1	60.1
			500	12.9	10.1	66.4	63.9	65.8	9.5	8.9	63.7	61.4	62.9	7.0	7.0	62.2	58.6	60.8
3.6	8.63	300	11.4	7.6	61.9	60.1	61.3	8.5	6.5	60.0	58.3	59.7	5.6	5.3	48.8	57.2	58.0	
		400	13.0	9.2	64.0	61.9	62.2	9.6	7.9	61.8	59.8	60.3	6.3	6.3	60.6	58.0	58.5	
		500	15.0	10.8	65.1	62.6	63.3	10.5	9.2	63.1	60.8	60.8	7.3	7.3	61.6	58.4	59.1	

CHILLED WATER COOLING CAPACITIES – WHD-06

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	2.4	1.76	500	20.6	12.8	61.5	59.1	59.2	17.4	11.8	58.3	56.1	56.5	14.0	10.6	55.6	53.6	53.7
			600	22.3	14.3	63.2	60.4	60.6	18.5	13.0	60.1	57.5	57.4	15.2	11.8	57.0	54.6	54.7
			700	23.2	15.3	64.9	61.7	61.3	19.6	14.1	61.5	58.5	58.3	16.2	12.8	58.2	55.4	55.5
	3.6	3.95	500	24.1	14.1	59.1	56.7	55.4	20.1	12.9	56.4	54.2	53.2	16.2	11.5	53.9	51.9	51.0
			600	26.3	15.7	61.0	58.2	56.6	21.7	14.3	58.2	55.6	54.1	17.8	12.8	55.4	53.0	51.9
			700	27.4	16.9	62.9	59.7	57.2	23.2	15.5	59.7	56.7	54.9	19.2	14.0	56.6	53.8	52.7
4.8	7.02	500	25.7	14.8	57.9	55.5	52.7	21.5	13.5	55.3	53.1	51.0	17.1	11.9	53.2	51.2	49.1	
		600	28.4	16.5	59.8	57.0	53.8	23.9	15.1	56.9	54.3	52.0	19.1	13.3	54.6	52.2	50.0	
		700	30.6	18.0	61.4	58.2	54.8	25.8	16.5	58.4	55.4	52.8	20.6	14.6	55.9	53.1	50.6	
45°F	2.4	1.76	500	18.6	12.1	62.8	60.4	60.5	15.5	11.1	59.6	57.4	57.9	10.6	9.2	58.1	56.1	56.8
			600	20.2	13.5	64.3	61.5	61.8	16.8	12.4	61.1	58.5	59.0	11.3	10.3	59.3	56.9	57.4
			700	20.8	14.6	65.9	62.7	62.3	17.4	13.4	62.5	59.5	59.5	12.1	11.3	60.2	57.4	58.1
	3.6	3.95	500	22.1	13.3	60.5	58.1	57.3	17.8	12.0	58.0	55.8	54.9	11.9	9.8	57.1	55.1	54.6
			600	23.6	14.7	62.5	59.7	58.1	19.7	13.5	59.4	56.8	55.9	13.2	11.0	58.2	55.8	55.3
			700	25.3	16.1	63.9	60.7	59.1	20.6	14.5	61.0	58.0	56.4	14.1	12.1	59.2	56.4	55.8
4.8	7.02	500	23.7	14.0	59.3	56.9	54.9	19.1	12.5	57.1	54.9	53.0	13.1	10.2	56.3	54.3	53.5	
		600	26.2	15.7	61.0	58.2	55.9	21.3	14.1	58.5	55.9	53.9	14.5	11.5	57.4	55.0	54.0	
		700	27.4	16.9	62.9	59.7	56.4	22.8	15.3	59.9	56.9	54.5	15.1	12.4	58.7	55.9	54.3	
48°F	2.4	1.76	500	17.0	11.6	63.8	61.4	62.2	13.5	10.4	61.0	58.8	59.3	10.6	9.2	58.1	56.1	56.8
			600	17.9	12.8	65.5	62.7	62.9	14.7	11.6	62.2	59.6	60.3	11.3	10.3	59.3	56.9	57.4
			700	19.1	14.0	66.7	63.5	63.9	15.1	12.5	63.6	60.6	60.6	12.1	11.3	60.2	57.4	58.1
	3.6	3.95	500	19.7	12.5	62.0	59.6	58.9	15.7	11.2	59.5	57.3	56.7	11.9	9.8	57.1	55.1	54.6
			600	21.1	13.9	63.8	61.0	59.7	17.1	12.5	60.9	58.3	57.5	13.2	11.0	58.2	55.8	55.3
			700	22.6	15.2	65.1	61.9	60.6	17.9	13.5	62.3	59.3	57.9	14.1	12.1	59.2	56.4	55.8
4.8	7.02	500	21.1	13.0	61.1	58.7	56.8	17.1	11.7	58.5	56.3	55.1	13.1	10.2	56.3	54.3	53.5	
		600	23.4	14.6	62.6	59.8	57.8	18.5	13.0	60.1	57.5	55.7	14.5	11.5	57.4	55.0	54.0	
		700	25.2	16.0	64.0	60.8	58.5	20.1	14.3	62.1	58.2	56.4	15.1	12.4	58.7	55.9	54.3	
55°F	2.4	1.76	500	12.0	9.9	66.9	64.5	65.0	8.9	8.7	64.0	61.8	62.4	6.9	6.9	62.3	58.6	60.8
			600	13.1	11.2	67.9	65.1	65.9	9.6	9.6	65.3	62.3	63.0	7.7	7.7	63.2	59.0	61.4
			700	12.6	12.2	69.0	65.8	66.3	10.4	10.4	66.4	62.7	63.7	8.3				

CHILLED WATER COOLING CAPACITIES – WHD-08

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	3.6	2.64	700	29.4	18.1	61.3	58.8	58.3	24.8	16.6	58.2	55.9	55.8	20.5	15.0	55.3	53.1	53.4
			800	31.1	19.5	62.6	59.8	59.3	26.4	18.1	59.3	56.7	56.7	21.1	16.0	56.6	54.2	53.7
			900	31.9	20.6	64.0	60.9	59.7	27.0	18.9	60.7	57.8	57.0	22.2	17.3	57.4	54.8	54.3
	4.8	4.69	700	32.5	19.2	59.8	57.3	55.5	26.9	17.5	57.1	54.8	53.2	22.0	15.6	54.5	52.3	51.2
			800	35.0	20.9	61.0	58.2	56.6	28.8	18.9	58.3	55.7	54.0	23.5	17.0	55.5	53.1	51.8
			900	35.9	22.0	62.6	59.5	57.0	30.4	20.2	59.4	56.5	54.7	25.0	18.3	56.3	53.7	52.4
6.0	6.76	700	34.7	20.1	58.7	56.2	53.6	29.0	18.3	56.0	53.7	51.7	24.0	16.5	53.4	51.2	50.0	
		800	37.4	21.8	60.0	57.2	54.5	31.5	20.0	57.1	54.5	52.5	25.0	17.6	54.8	52.4	50.3	
		900	39.8	23.4	61.1	58.0	55.3	33.4	21.4	58.2	55.3	53.1	26.7	19.0	55.6	53.0	50.9	
45°F	3.6	2.64	700	27.1	17.2	62.4	59.9	60.1	21.9	15.6	59.6	57.3	57.2	17.8	14.0	56.7	54.5	54.9
			800	28.0	18.4	63.9	61.1	60.6	23.2	16.8	60.7	58.1	57.9	18.3	14.9	57.9	55.5	55.2
			900	29.4	19.7	64.9	61.8	61.3	24.6	18.1	61.6	58.7	58.7	19.3	16.1	58.6	56.0	55.7
	4.8	4.69	700	29.3	18.1	61.3	58.8	57.2	24.3	16.4	58.5	56.2	55.1	19.2	14.5	56.3	53.8	53.0
			800	31.4	19.6	62.5	59.7	58.1	26.2	18.0	59.4	56.8	55.9	20.3	15.7	57.0	54.6	53.5
			900	33.2	21.0	63.6	60.5	58.8	26.8	18.8	60.8	57.9	56.2	21.6	17.0	57.7	55.1	54.0
6.0	6.76	700	32.1	19.1	60.0	57.5	55.7	26.0	17.1	57.6	55.3	53.7	20.8	15.1	55.2	53.0	51.9	
		800	34.6	20.8	61.2	58.4	56.5	27.9	18.6	58.7	56.1	54.3	21.6	16.2	56.4	54.0	52.2	
		900	35.7	21.9	62.7	59.6	56.9	29.6	19.9	59.7	56.8	54.9	23.2	17.7	57.0	54.4	52.7	
48°F	3.6	2.64	700	24.1	16.2	63.8	61.3	61.4	19.1	14.5	61.0	58.7	58.6	15.2	12.9	58.1	55.9	56.4
			800	25.6	17.6	64.8	62.0	62.2	20.3	15.8	61.9	59.3	59.3	15.5	13.9	59.1	56.7	56.6
			900	26.3	18.6	66.0	62.9	62.6	21.5	17.0	62.7	59.8	59.9	16.3	14.9	59.8	57.2	57.1
	4.8	4.69	700	26.7	17.1	62.6	60.1	59.1	21.2	15.3	60.0	57.7	56.8	16.3	13.4	57.5	53.3	54.8
			800	27.9	18.4	63.9	61.1	59.6	22.6	16.6	61.0	58.4	57.4	17.5	14.6	58.2	55.8	55.3
			900	29.5	19.7	64.9	61.8	60.3	23.4	17.7	62.0	59.1	57.8	18.3	15.7	59.0	56.4	55.6
6.0	6.76	700	28.4	17.7	61.8	59.3	57.5	22.6	15.8	59.3	57.0	55.5	17.7	13.9	56.8	54.6	53.9	
		800	30.7	19.4	62.8	60.0	58.2	24.3	17.2	60.3	57.7	56.1	18.4	15.0	57.8	55.4	54.1	
		900	32.6	20.8	63.8	60.7	58.9	25.9	18.5	61.1	58.2	56.6	19.6	16.2	58.5	55.9	54.5	
55°F	3.6	2.64	700	17.7	14.0	66.6	64.1	64.8	12.1	12.1	64.1	61.9	61.7	9.6	9.6	62.4	58.6	60.3
			800	18.2	15.2	67.6	64.8	65.1	13.1	13.1	65.0	62.2	62.3	10.4	10.4	63.1	58.9	60.8
			900	19.2	16.4	68.3	65.2	65.7	13.8	13.8	65.9	62.5	62.7	11.1	11.1	63.7	59.1	61.2
	4.8	4.69	700	19.1	14.5	66.0	63.5	63.0	14.0	12.7	63.4	61.1	60.8	10.0	10.0	61.9	58.5	59.2
			800	20.2	15.8	66.9	64.1	63.4	15.1	14.0	64.0	61.4	61.3	11.0	11.0	62.4	58.6	59.6
			900	21.6	17.1	67.6	64.5	64.0	16.1	15.1	64.6	61.7	61.7	11.8	11.8	63.0	58.9	59.9
6.0	6.76	700	20.8	15.1	65.2	62.7	61.9	14.7	12.9	63.1	60.8	59.9	10.2	10.2	61.2	58.4	58.4	
		800	22.5	16.6	66.0	63.2	62.5	16.7	14.6	63.4	60.8	60.6	11.2	11.2	62.2	58.6	58.7	
		900	23.2	17.7	67.0	63.9	62.7	17.1	15.4	64.3	61.4	60.7	12.1	12.1	62.7	58.7	59.0	

CHILLED WATER COOLING CAPACITIES – WHD-10

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	4.8	2.85	900	39.3	23.6	60.9	58.2	58.4	32.5	21.4	58.2	55.7	56.5	26.7	19.3	55.3	53.0	53.1
			1000	40.3	24.9	62.2	59.4	58.8	34.1	22.9	59.0	56.4	56.2	28.1	20.7	56.0	53.6	53.7
			1100	42.0	26.1	63.2	60.1	59.5	35.4	24.1	59.9	57.0	56.8	28.5	21.6	57.0	54.5	53.9
	6.0	4.46	900	42.1	24.6	59.9	57.2	56.0	35.4	22.6	57.0	54.5	53.8	28.2	20.0	54.6	52.3	51.4
			1000	44.2	26.3	60.9	58.1	56.7	36.6	23.9	58.1	55.5	54.2	29.8	21.5	55.3	52.9	51.9
			1100	46.0	27.6	62.0	58.9	57.3	38.1	25.1	59.1	56.2	54.7	31.4	22.8	56.0	53.4	52.5
7.2	6.42	900	44.2	25.4	59.1	56.4	54.3	36.8	23.2	56.4	53.9	52.2	30.3	20.9	53.7	51.4	50.4	
		1000	46.6	27.3	60.0	57.2	54.9	39.1	24.9	57.2	54.6	52.9	31.1	22.0	54.8	52.4	50.6	
		1100	48.8	28.7	61.1	58.0	55.6	41.1	26.3	58.1	55.2	53.4	32.8	23.4	55.5	52.9	51.1	
45°F	4.8	2.85	900	35.4	22.2	62.4	59.7	59.8	29.4	20.2	59.4	56.9	57.3	23.1	17.9	56.8	54.5	54.6
			1000	32.7	23.8	60.4	60.4	60.5	30.1	21.5	60.3	57.7	57.5	24.3	19.2	57.4	55.0	55.1
			1100	37.8	24.7	63.3	61.3	60.8	31.7	22.7	61.1	58.2	58.2	24.8	20.1	58.2	55.6	55.3
	6.0	4.46	900	38.8	23.4	60.5	58.4	57.9	31.3	21.0	58.6	56.1	55.4	24.7	18.5	56.1	53.8	53.2
			1000	39.7	24.6	61.3	59.6	58.2	33.1	22.6	59.3	56.7	56.0	25.7	19.8	56.8	54.4	53.6
			1100	41.6	26.0	62.3	60.2	58.9	34.6	23.7	60.2	57.3	56.5	27.1	21.1	57.4	54.8	54.0
7.2	6.42	900	40.5	24.0	63.7	57.8	56.3	32.9	21.6	58.0	55.5	54.1	26.2	19.1	55.5	53.2	52.3	
		1000	42.9	25.8	64.4	58.5	56.9	34.6	23.1	58.8	56.2	54.6	27.0	20.3	56.4	54.0	52.5	
		1100	45.0	27.2	65.3	59.2	57.5	36.2	24.3	59.7	56.8	55.1	28.5	21.6	57.0	54.4	52.9	
48°F	4.8	2.85	900	31.6	20.9	62.8	61.0	61.2	25.9	18.9	60.7	58.2	58.8	19.9	16.6	58.1	55.8	56.3
			1000	33.2	22.5	63.7	60.9	61.8	26.3	20.1	61.6	59.0	59.0	20.8	17.9	58.6	56.2	56.7
			1100	34.6	23.6	64.6	61.5	62.4	27.7	21.2	62.3	59.4	59.5	21.0	18.7	59.4	56.8	56.8
	6.0	4.46	900	34.3	21.8	62.1	59.4	59.4	27.5	19.5	60.1	57.6	57.2	20.9	17.1	57.6	55.3	55.0
			1000	35.5	23.2	62.9	60.1	59.8	28.7	20.9	60.8	58.2	57.6	22.1	18.3	58.2	55.8	55.4
			1100	37.0	24.5	63.8	60.7	60.3	30.3	22.2	61.5	58.6	58.1	22.9	19.4	58.8	56.2	55.6
7.2	6.42	900	36.1	22.5	66.6	63.9	58.0	29.4	20.2	59.4	56.9	56.2	22.6	17.7	57.0	54.7	54.3	
		1000	37.9	24.1	67.2	64.4	58.5	30.3	21.5	60.3	57.7	56.4	22.8	18.6	57.9	55.5	54.3	
		1100	39.9	25.4	68.0	64.9	59.1	31.7	22.7	61.1	58.2	56.8	24.1	19.9	58.4	55.8	54.7	
55°F	4.8	2.85	900	23.2	18.1	66.1	63.9	64.7	27.0	15.8	63.9	61.4	62.1	12.4	12.4	62.4	58.6	60.2
			1000	24.3	19.4	67.2	64.4	65.1	18.1	17.1	64.3	61.7	62.5	13.2	13.2	62.9	58.8	

Horizontal Fan Coils

Horizontal -
DX Cooling Capacities

XHD UNITS DIRECT EXPANSION COOLING CAPACITIES

SUCT TEMP	CFM	85°F DB/71°F WB ENT AIR				80°F DB/67°F WB ENT AIR				75°F DB/63°F WB ENT AIR			
		TOTAL MBH	SENS MBH	LVG AIR °F		TOTAL MBH	SENS MBH	LVG AIR °F		TOTAL MBH	SENS MBH	LVG AIR °F	
				DB	WB			DB	WB			DB	WB
MODEL XHD-04													
40°F	300	18.2	10.2	53.9	52.1	15.1	9.2	51.9	50.2	12.1	8.0	50.4	48.8
	400	22.1	12.6	56.2	54.1	18.4	11.4	53.9	51.9	14.7	10.0	52.0	50.2
	500	24.9	14.4	58.6	56.1	20.7	13.1	56.0	53.7	16.6	11.6	53.8	51.6
45°F	300	15.6	9.1	57.1	55.3	12.6	8.1	55.2	53.5	9.6	7.0	53.6	52.0
	400	19.0	11.3	59.0	56.9	15.2	10.1	56.9	54.9	11.8	8.8	54.8	53.0
	500	21.2	13.0	61.1	58.6	17.1	11.7	58.6	56.3	13.3	10.2	56.3	54.1
50°F	300	12.8	8.1	60.3	58.5	10.0	7.1	58.3	56.6	7.2	6.0	56.6	55.0
	400	15.6	10.1	61.8	59.7	12.2	8.9	59.6	57.6	8.9	7.6	57.5	55.7
	500	17.6	11.7	63.5	61.0	13.6	10.4	61.0	58.7	9.9	8.9	58.7	56.5
MODEL XHD-06													
40°F	500	25.3	14.6	58.3	55.8	21.1	13.2	55.7	53.4	16.8	11.7	53.6	51.4
	600	27.6	16.2	60.2	57.4	23.0	14.8	57.4	54.8	18.5	13.1	54.9	52.5
	700	30.0	17.8	61.7	58.5	24.9	16.2	58.8	55.8	20.1	14.4	56.1	53.3
45°F	500	21.7	13.2	60.8	58.3	17.5	11.8	58.3	56.0	13.5	10.3	56.1	53.9
	600	23.7	14.8	62.4	59.6	19.1	13.3	59.7	57.1	14.8	11.6	57.2	54.8
	700	25.7	16.3	63.7	60.5	20.7	14.6	60.7	57.9	15.9	12.7	58.3	55.5
50°F	500	17.9	11.8	63.3	60.8	13.9	10.5	60.8	58.5	10.1	8.9	58.6	56.4
	600	19.5	13.7	64.6	61.8	15.2	11.8	61.9	59.3	11.0	10.2	59.4	57.0
	700	21.2	14.7	65.7	62.5	16.5	13.0	62.9	59.9	11.9	11.2	60.3	57.5
MODEL XHD-08													
40°F	700	34.0	19.7	59.2	56.5	28.2	17.9	56.6	54.1	22.6	15.9	54.2	51.9
	800	36.3	21.4	60.5	57.6	30.2	19.4	57.7	55.0	24.2	17.3	55.2	52.7
	900	28.5	22.9	61.7	58.5	32.3	20.9	58.7	55.7	25.8	18.5	56.1	53.3
45°F	700	29.1	17.9	61.6	58.9	23.5	16.0	59.0	56.5	18.0	14.0	56.7	54.4
	800	31.3	19.5	62.6	59.7	25.2	17.5	59.0	57.2	19.5	15.3	57.4	54.9
	900	33.3	21.0	63.6	60.4	26.6	18.7	60.9	57.9	20.7	16.5	58.2	55.4
50°F	700	23.9	16.0	64.0	61.3	18.6	14.2	61.4	58.9	13.5	12.2	59.0	56.7
	800	25.8	17.6	64.8	61.9	20.1	15.6	62.1	59.4	14.5	13.4	59.6	57.1
	900	27.3	18.9	65.7	62.5	21.2	16.8	62.9	59.9	15.3	14.4	60.3	57.5
MODEL XHD-10													
40°F	900	43.7	25.3	59.2	56.5	36.5	23.1	56.5	54.0	29.1	20.4	54.2	51.9
	1000	46.3	27.0	60.2	57.3	38.3	24.5	57.5	54.8	30.8	21.8	55.0	52.5
	1100	48.3	28.5	61.2	58.1	40.3	26.0	58.3	55.4	32.1	23.1	55.7	53.1
45°F	900	37.4	23.0	61.6	58.9	30.2	20.6	59.0	56.5	23.4	18.1	56.6	54.3
	1000	39.4	24.5	62.5	59.6	31.9	22.0	59.8	57.1	24.6	19.3	57.3	54.8
	1100	41.7	26.1	63.2	60.1	33.5	23.4	60.5	57.6	25.9	20.6	57.8	55.2
50°F	900	31.0	20.7	63.9	61.2	23.9	18.2	61.4	58.9	17.3	15.7	59.0	56.7
	1000	32.6	22.1	64.7	61.8	25.4	19.6	62.0	59.3	18.4	16.9	59.5	57.0
	1100	34.1	23.5	65.4	62.3	26.5	20.9	62.6	59.7	17.3	15.7	59.0	56.7

**WHD UNITS ONLY
HEATING CAPACITIES - (2) PIPE SYSTEM
UTILIZE STANDARD (4) ROW COIL FOR HEATING**

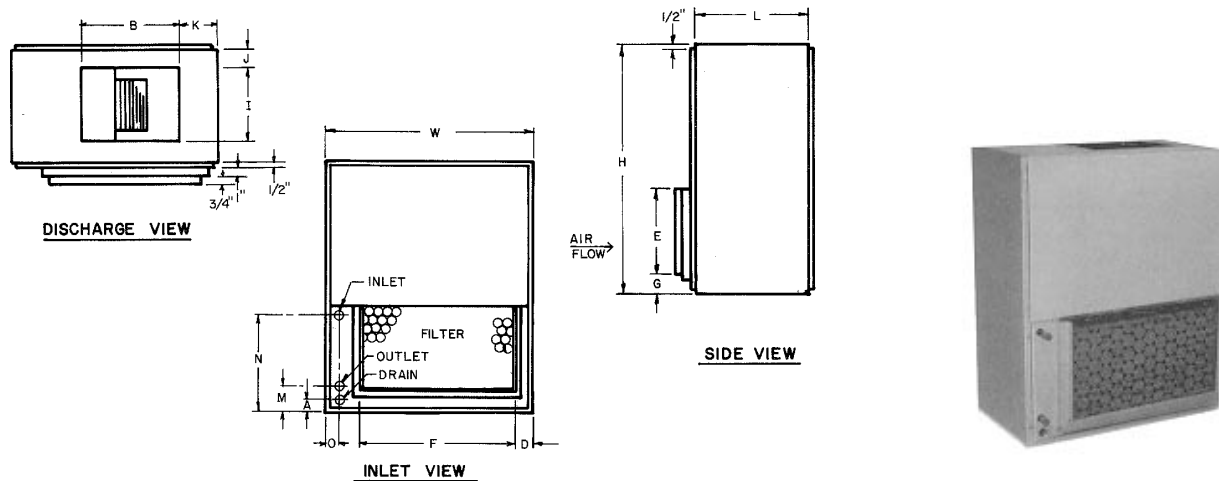
																		USE CORRECTION FACTORS																	
120°F ENTERING WATER TEMPERATURE																		150°F ENTERING WATER TEMPERATURE									180°F ENTERING WATER TEMPERATURE								
GPM	PD FT	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F							
WHD-04		300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM									
1.2	0.96	15	101.9	97.2	16	096.7	093.3	18	092.8	090.2	21	123.0	115.7	24	115.3	109.8	27	109.4	105.2	28	144.1	134.2	32	133.6	126.5	36	125.9	120.2							
2.4	3.83	15	105.9	107.5	18	101.5	104.9	21	098.5	102.5	23	129.4	131.1	27	122.6	127.2	32	118.0	123.7	30	152.0	154.9	36	143.5	149.7	42	137.2	144.9							
3.6	8.63	16	107.7	111.3	19	103.3	109.5	22	100.4	107.8	23	131.6	137.0	28	125.4	134.2	33	120.9	131.6	31	156.0	162.6	38	147.2	158.9	44	140.9	155.5							
WHD-06		500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM									
2.4	1.76	21	098.0	102.7	23	095.2	100.8	25	092.8	99.2	31	116.9	124.2	35	112.9	121.2	37	109.1	118.7	41	136.1	145.4	46	130.5	141.6	50	125.5	138.3							
3.6	3.95	22	100.0	107.9	25	097.6	106.3	27	095.4	105.0	33	120.4	131.7	37	116.6	129.4	42	113.1	127.5	44	140.4	155.7	49	135.4	152.6	54	131.0	149.9							
4.8	7.02	27	101.5	110.9	25	099.0	109.4	28	096.4	108.4	23	122.0	135.9	38	118.4	134.1	42	115.0	132.5	45	142.9	161.2	51	138.1	158.7	56	131.1	156.7							
WHD-08		700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM									
3.6	2.64	29	097.9	103.9	31	096.0	102.6	33	094.0	101.4	43	116.9	125.9	47	114.0	123.8	50	111.3	122.1	58	136.0	147.8	63	131.8	145.2	67	128.3	142.8							
4.8	4.69	30	099.6	107.4	33	097.6	106.3	35	096.0	105.3	45	119.4	131.1	49	115.5	129.5	53	114.0	127.9	60	139.2	154.8	66	135.3	152.6	71	132.0	150.6							
6.0	6.76	31	100.4	109.7	34	098.5	108.8	36	096.8	108.0	46	120.8	134.5	51	118.0	133.1	54	115.6	131.8	62	141.0	159.4	67	137.4	157.5	72	133.8	155.9							
WHD-10		900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM									
4.8	2.85	37	098.0	104.5	40	096.6	103.4	42	095.1	102.5	56	117.2	126.6	60	114.9	125.1	63	112.9	123.6	75	136.4	148.8	80	133.0	146.8	84	110.3	144.9							
6.0	4.46	38	099.0	107.2	41	097.6	106.3	43	096.2	105.5	58	118.8	130.8	61	116.4	129.5	65	114.5	128.2	77	138.5	154.3	82	135.2	152.7	87	132.6	151.0							
7.2	6.42	39	100.0	109.1	42	098.3	108.4	44	097.0	107.7	59	120.0	133.6	63	117.9	132.5	67	115.6	131.5	78	139.9	158.2	84	137.0	156.7	89	134.0	155.4							

1. Entering air temperature – 60°
2. Units are not recommended for heating applications where leaving air temperature exceeds 140°F
3. Do not utilize the heating capacity chart for DX units. You must utilize a separate heating coil with DX (4 Pipe System). Turn to Heating Capacities on page 12 – (4) Pipe.

HOT WATER HEATING CORRECTION FACTORS

ENTERING AIR TEMP (F)	ENTERING WATER TEMP (F)								
	100	110	120	130	140	150	160	170	180
50	.419	.500	.579	.665	.742	.838	.917	1.000	1.090
55	.376	.460	.544	.629	.708	.791	.873	.963	1.048
60	.335	.419	.500	.579	.665	.742	.838	.917	1.000
65	.290	.376	.460	.544	.629	.708	.791	.873	.963
70	.251	.335	.419	.500	.579	.665	.742	.838	.917
75	.205	.290	.376	.460	.544	.629	.708	.791	.873
80	.167	.251	.335	.419	.500	.579	.665	.742	.838

When correction factors are used for various entering air and entering water temperatures, multiply the correction factor times the 180° E.W.T. capacity. The correction factors may be used with all USA Coil & Air published 180° E.W.T. heating capacities. This table can be used to correct capacities for 2 Row Hot Water Coils on page 12 – (4) Pipe System.



DIRECT DRIVE VERTICAL FAN/COILS

WVD & XVD SERIES SPECIFICATIONS

MODEL	UNIT			RETURN DUCT INLET				BLOWER OPEN OUTLET				STUBOUT LOCATIONS			
	W	H	L	D	E	F	G	B	I	J	K	A	M	N	O
XVD & WVD-04	24	25	13	2	6.5	18	2.625	10.5	7	3	4.5	1.5	2.875	7.5	1.5
XVD & WVD-06	24	29	13	2	10	18	2.5	10.5	8.5	3	4.5	1.25	3	12.75	1.5
XVD & WVD-08	24	33	13	2	14.25	18	2.75	10.5	8.5	3	4.5	1.5	3	16.00	1.5
XVD & WVD-10	24	34.75	14	2	14.25	23	2.75	11.75	8.5	2.75	5.5	1.5	3	16.00	1.5

WVD SERIES SPECIFICATIONS (WATER COIL)

MODEL	FACE AREA SQ. FT.	ROWS - TUBE	NOMINAL RATING IN TONS	DD MOTOR HP 3 SPEED	VOLTS	PHASE	BLOWER DD	THROWAWAY FILTERS 7/8" THICK (ACTUAL SIZE)	MANIFOLD CONNECTIONS	UNIT SHIPPING WEIGHT
WVD-04	1.00	4 - 3/8	1	1/10	115	1	9-4	8 X 19.25	5/8" O.D. SWT	67
WVD-06	1.50	4 - 3/8	1.5	1/8	115	1	9-6	11.5 X 19.25	5/8" O.D. SWT	75
WVD-08	2.00	4 - 3/8	2	1/4	115	1	9-6	15.5 X 19.5	5/8" O.D. SWT	84
WVD-10	2.56	4 - 3/8	2.5	1/3	115	1	10-6	15.5 X 24	5/8" O.D. SWT	103

Rating based on nominal CFM, 80/67 Ent. Air, 45° suction. Tonnage is approximate.

See page 15 and 16 for specific performance.

XVD SERIES SPECIFICATIONS (DX COIL)

MODEL	FACE AREA SQ. FT.	ROWS - TUBE	NOMINAL RATING IN TONS	DD MOTOR HP 3 SPEED	VOLTS	PHASE	BLOWER DD	THROWAWAY FILTERS 7/8" THICK (ACTUAL SIZE)	FREON CONNECT.		UNIT SHIPPING WEIGHT
									LQ. LINE O.D. SWT	SUCTION O.D. SWT	
XVD-04	1.00	4 - 3/8	1	1/10	115	1	9-4	8 X 19.25	3/8	5/8	67
XVD-06	1.50	4 - 3/8	1.5	1/8	115	1	9-6	11.5 X 19.25	3/8	5/8	75
XVD-08	2.00	4 - 3/8	2	1/4	115	1	9-6	15.5 X 19.5	3/8	5/8	84
XVD-10	2.56	4 - 3/8	2.5	1/3	115	1	10-6	15.5 X 24	3/8	5/8	103

Rating based on nominal CFM, 80/67 Ent. Air, 45° suction. Tonnage is approximate.

See page 17 for specific performance.

Vertical Fan Coils

Horizontal - Water & DX
CFM vs. External Static Pressure

WVD & XVD (WATER & DX COILS) – NO HEATING SECTION

CFM VS. EXTERNAL STATIC

MODEL NUMBER	SPEED SETTINGS	EXTERNAL STATIC PRESSURE				
		.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
XVD & WVD-04	HIGH	515	485	455	415	370
	MEDIUM	405	385	355	320	275
	LOW	280	265	245	225	190
XVD & WVD-06	HIGH	755	725	690	650	605
	MEDIUM	585	570	550	530	495
	LOW	490	480	470	460	430
XVD & WVD-08	HIGH	950	900	830	760	710
	MEDIUM	865	815	760	710	665
	LOW	700	685	665	640	600
XVD & WVD-10	HIGH	1270	1215	1170	1120	1070
	MEDIUM	1100	1060	1030	1010	970
	LOW	930	905	890	880	860

WVD & XVD (WATER & DX COILS) – ADD HEATING COIL SECTION

CFM VS. EXTERNAL STATIC

MODEL NUMBER	SPEED SETTINGS	EXTERNAL STATIC PRESSURE				
		.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
XVD & WVD-04 W/2 ROW HEATING COIL	HIGH	495	465	430	390	345
	MEDIUM	395	370	340	305	265
	LOW	275	260	240	220	185
XVD & WVD-06 W/2 ROW HEATING COIL	HIGH	720	690	650	610	560
	MEDIUM	570	555	535	510	470
	LOW	485	475	465	450	395
XVD & WVD-08 W/2 ROW HEATING COIL	HIGH	850	790	745	705	650
	MEDIUM	790	745	705	660	610
	LOW	685	665	640	605	560
XVD & WVD-10 W/2 ROW HEATING COIL	HIGH	1180	1135	1090	1035	985
	MEDIUM	1045	1020	1000	950	905
	LOW	905	890	880	860	830

CHILLED WATER COOLING CAPACITIES – WVD-04

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	1.2	.072	300	11.6	7.4	62.3	59.9	61.3	9.6	6.9	59.3	57.1	58.0	7.9	6.1	56.2	54.2	55.2
			400	12.3	8.6	65.3	62.4	62.5	10.4	7.9	61.8	59.1	59.3	8.6	7.2	58.5	56.0	56.3
			500	13.1	9.7	67.2	61.8	61.8	10.9	8.9	61.6	60.5	60.2	9.0	8.1	60.1	57.2	57.0
	2.4	2.86	300	15.0	8.7	58.4	56.0	54.5	12.5	7.9	55.8	51.6	52.4	10.0	7.0	53.6	51.6	50.3
			400	17.2	10.3	61.4	58.5	56.3	14.2	9.3	58.6	55.9	51.8	11.7	8.5	55.6	51.1	51.8
			500	18.4	11.5	63.9	60.5	57.3	15.6	10.6	60.5	57.4	55.0	12.5	9.5	57.6	54.7	52.4
	3.6	6.45	300	16.7	9.4	56.4	54.0	51.3	13.7	8.4	54.3	52.1	49.6	11.2	7.5	52.0	50.0	48.2
			400	19.1	11.0	59.7	56.8	52.6	16.1	10.1	56.8	54.1	50.9	11.3	9.1	54.1	51.6	49.4
			500	21.3	12.5	62.0	58.6	51.9	18.0	11.6	56.8	55.7	52.0	14.4	10.2	56.2	53.3	50.0
45°F	1.2	.072	300	10.4	7.0	61.6	61.2	62.3	8.7	6.4	60.3	58.1	59.5	6.9	5.8	57.4	55.4	56.5
			400	11.2	8.2	66.2	63.3	61.7	9.2	7.5	62.8	60.1	60.3	7.4	6.6	59.5	57.0	57.3
			500	11.8	9.3	68.0	64.6	64.7	9.6	8.5	64.4	61.3	61.0	7.8	7.7	60.9	58.0	58.0
	2.4	2.86	300	13.7	8.2	59.9	57.5	56.4	11.1	7.4	57.5	55.3	54.3	8.7	6.5	55.2	53.2	52.3
			400	15.5	9.7	62.8	59.9	57.9	12.9	8.9	59.7	57.0	55.8	10.1	7.8	57.1	54.6	51.4
			500	16.6	10.9	65.0	61.6	58.8	13.8	10.0	61.7	58.6	56.5	10.9	8.8	58.8	55.9	54.1
	3.6	6.45	300	15.0	8.7	58.4	56.0	53.3	12.3	7.8	56.1	53.9	51.8	9.6	6.8	54.1	52.1	50.3
			400	17.6	10.5	61.0	58.1	54.8	14.3	9.4	58.5	55.8	52.9	11.4	8.3	55.9	53.4	51.3
			500	19.2	11.7	63.4	60.0	55.7	15.9	10.7	60.3	57.2	53.8	12.5	9.5	57.6	54.7	51.9
48°F	1.2	.072	300	9.3	6.6	64.7	62.3	63.5	7.6	6.0	61.6	59.4	60.7	5.8	5.3	58.7	56.7	57.7
			400	10.0	7.8	67.1	64.2	64.7	8.3	7.2	63.5	60.8	61.8	6.4	6.3	60.4	57.9	58.9
			500	10.6	8.9	68.7	65.3	65.7	8.7	8.2	65.0	61.9	62.5	7.1	7.1	62.0	58.5	59.8
	2.4	2.86	300	12.3	7.7	61.5	59.1	58.3	9.8	6.8	59.1	56.9	58.2	7.6	6.0	56.6	54.6	54.3
			400	13.8	9.1	64.1	61.2	59.5	11.3	8.2	61.1	58.4	57.4	8.6	7.2	58.5	56.0	55.2
			500	15.1	10.4	66.0	62.6	60.6	12.1	9.4	62.8	59.7	58.1	9.2	8.2	59.9	57.0	55.7
	3.6	6.45	300	13.6	8.1	60.1	57.7	55.6	10.8	7.2	57.9	55.7	54.0	8.1	6.2	56.0	54.0	52.5
			400	15.7	9.8	62.6	59.7	56.7	12.8	8.8	59.8	57.1	55.1	9.7	7.6	57.5	55.0	53.4
			500	17.5	11.2	64.5	61.1	57.7	14.0	10.0	61.6	58.5	55.8	10.6	8.7	59.0	56.1	53.9
55°F	1.2	.072	300	6.9	5.8	67.2	64.8	66.5	5.1	5.1	64.4	62.0	61.5	4.1	4.1	62.5	58.7	61.8
			400	7.4	7.0	69.0	66.1	67.3	5.9	5.9	66.5	62.7	64.8	4.7	4.7	64.2	59.3	62.8
			500	7.9	7.9	70.5	66.8	68.2	6.6	6.6	67.9	63.2	66.0	5.3	5.3	65.3	59.7	63.8
	2.4	2.86	300	9.0	6.5	65.0	62.6	62.5	6.7	5.7	62.5	60.3	60.6	4.5	4.5	61.2	58.2	58.8
			400	10.1	7.8	67.0	64.1	63.4	7.4	6.8	64.3	61.6	61.2	5.4	5.4	62.6	58.7	59.5
			500	10.8	8.9	68.6	65.2	64.0	8.0	7.9	65.4	62.3	61.7	6.1	6.1	63.8	59.2	60.1
	3.6	6.45	300	9.8	6.8	64.2	61.8	60.4	7.2	5.9	62.0	59.8	59.0	4.6	4.6	60.9	58.1	57.6
			400	11.4	8.3	66.0	63.1	61.3	8.5	7.2	63.4	60.7	59.7	5.6	5.6	62.2	58.6	58.1
			500	12.5	9.5	67.6	64.2	61.9	9.2	8.3	64.7	61.6	60.1	6.5	6.5	63.1	58.9	58.6

CHILLED WATER COOLING CAPACITIES – WVD-06

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	2.4	1.80	500	20.6	12.8	61.6	59.1	59.2	17.5	11.8	58.3	56.0	56.6	13.9	10.4	55.9	53.7	53.6
			600	22.2	14.2	63.3	60.4	60.5	18.4	12.9	60.3	57.6	57.3	15.1	11.7	57.1	54.6	54.6
			700	23.0	15.3	65.0	61.6	61.2	19.3	14.0	61.6	58.6	58.1	15.6	12.6	58.5	55.7	55.0
	3.6	4.04	500	24.0	14.1	59.2	56.7	55.3	20.0	12.8	56.5	54.2	53.1	16.1	11.3	54.2	52.0	50.9
			600	26.2	15.6	61.1	58.2	56.6	21.5	14.1	58.5	55.8	53.9	17.7	12.6	55.5	51.0	51.8
			700	27.3	16.8	63.0	59.8	57.2	23.0	15.4	59.8	56.8	54.8	18.5	13.7	57.0	54.2	52.1
	4.8	7.19	500	28.2	14.9	57.7	55.2	52.9	21.4	13.4	55.5	53.2	50.9	17.7	12.0	53.0	50.8	49.4
			600	28.2	16.4	60.0	57.1	53.8	23.8	15.0	57.1	54.4	51.9	19.1	13.3	54.7	52.2	50.0
			700	30.5	17.9	61.5	58.3	54.7	24.9	16.2	58.8	55.8	52.4	20.4	14.5	56.0	53.2	50.5
45°F	2.4	1.80	500	18.9	12.2	62.7	60.2	60.9	15.4	11.0	59.8	57.5	57.8	12.4	9.8	57.0	54.8	55.1
			600	20.0	13.4	64.5	61.6	61.7	16.7	12.3	61.2	58.5	58.9	13.1	10.9	58.1	55.8	55.9
			700	20.5	14.4	66.1	62.9	62.1	17.2	13.3	62.6	59.6	59.1	14.0	12.0	59.3	56.5	56.7
	3.6	4.04	500	22.0	13.3	60.6	58.1	57.2	17.9	11.9	58.1	55.8	54.9	14.4	10.6	55.5	53.3	53.0
			600	23.5	14.6	62.6	59.7	58.1	19.6	13.3	59.6	56.9	55.9	15.4	11.8	57.0	54.5	53.6
			700	25.1	16.0	64.0	60.8	58.9	20.4	14.4	61.1	58.1	56.3	16.5	13.0	58.0	55.2	54.2
	4.8	7.19	500	23.6	13.9	59.5	57.0	54.8	19.1	12.4	57.2	54.9	53.0	15.2	11.0	54.9	52.7	51.3
			600	26.0	15.6	61.2	58.3	55.8	21.1	13.9	58.7	56.0	53.8	17.0	12.4	56.0	53.5	52.1
			700	27.4	16.9	62.9	59.7	56.4	22.6	15.3	60.0	57.0	54.4	17.7	13.4	57.4	54.6	52.4
48°F	2.4	1.80	500	18.9	11.4	64.0	61.5	62.1	13.5	10.3	61.1	58.8	59.3	10.6	9.1	58.3	56.1	56.8
			600	17.8	12.6	65.7	62.8	62.8	14.5	11.5	62.4	59.7	60.1	11.1	10.1	59.5	57.0	57.3
			700	18.9	13.9	66.8	63.6	63.8	15.0	12.5	63.6	60.6	60.5	12.0	11.2	60.3	57.5	58.0
	3.6	4.04	500	19.5	12.4	62.3	59.8	58.8	15.6	11.1	59.7	57.4	56.7	12.3	9.8	57.0	54.8	54.8
			600	21.0	13.7	64.0	61.1	59.7	17.1	12.4	61.0	58.3	57.5	13.0	10.8	58.4	55.9	55.2
			700	22.5	15.1	65.2	62.0	60.5	17.8	13.5	62.3	59.3	57.9	14.1	12.1	59.2	56.4	55.8
	4.8	7.19	500	21.0	12.9	61.3	58.8	56.8	17.1	11.7	58.6	56.3	55.1	12.9	10.0	56.6	54.4	53.4
			600	21.1	14.5	62.8	59.9	57.6	18.5	12.9	60.2	57.5	55.7	14.4	11.4	57.6	55.1	54.0
			700	25.1	16.0	64.0	60.8	58.5	19.7	14.2	61.6	58.4	56.2	15.0	12.4	58.6	56.0	54.3
55°F	2.4	1.80	500	12.0	9.9	67.0	64.5	65.0	8.9	8.7	64.1	61.8	62.4	6.9	6.9	62.3	58.8	60.8
			600	13.0	11.1	68.0	65.1	65.8	9.5	9.5	65.5	62.4	62.9	7.7	7.7	63.2	59.0	61.6
			700	13.4	12.1	69.1	65.9	66.2	10.3	10.3	66.5	62.7	61.6	8.3	8.3	64.1	59.0	61.9

Vertical Fan Coils

Vertical - Water Cooling Capacities

CHILLED WATER COOLING CAPACITIES – WVD-08

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	3.6	1.61	700	28.7	17.7	61.8	59.1	57.9	24.2	16.3	58.7	56.2	55.4	20.0	14.7	56.7	53.4	53.1
			800	30.4	19.2	63.0	60.1	58.9	25.1	17.4	60.0	57.3	55.9	20.6	15.8	56.9	54.4	53.4
			900	31.8	20.4	64.2	61.0	59.7	26.3	18.5	61.1	58.1	56.6	21.8	16.9	57.8	55.0	54.1
	4.8	2.86	700	32.4	19.1	60.0	57.3	55.5	26.6	17.2	57.5	55.0	53.1	21.9	15.5	54.7	52.4	51.1
			800	34.4	20.6	61.4	58.5	56.3	28.4	18.7	58.6	55.9	53.8	23.4	16.9	55.6	53.1	51.8
			900	35.3	21.7	62.9	59.7	56.7	29.9	19.9	59.7	56.7	54.5	24.6	18.1	56.6	53.8	52.3
6.0	4.48	700	34.4	19.8	59.0	56.3	53.5	28.8	18.1	56.3	53.8	51.6	23.6	16.3	53.7	51.4	49.9	
		800	36.5	21.4	60.5	57.6	54.2	30.7	19.6	57.5	54.8	52.2	24.8	17.4	55.0	52.5	50.3	
		900	38.6	22.9	61.7	58.5	54.9	32.6	21.0	58.6	55.6	52.9	26.2	18.6	56.0	53.2	50.7	
45°F	3.6	1.61	700	26.4	16.9	62.9	60.2	59.7	21.5	15.3	60.0	57.5	56.9	17.5	13.7	57.0	54.7	54.7
			800	27.5	18.1	64.2	61.2	60.3	22.9	16.6	61.0	58.3	57.7	17.9	14.6	58.2	55.7	54.9
			900	28.7	19.3	65.3	61.9	60.9	23.3	17.5	62.2	59.2	57.9	18.8	15.7	59.0	56.2	55.4
	4.8	2.86	700	29.0	17.8	61.7	59.0	57.1	24.1	16.3	58.7	56.2	55.0	19.0	14.3	56.2	53.9	52.9
			800	31.0	19.4	62.8	59.9	57.9	25.8	17.7	59.7	57.0	55.8	20.3	15.6	57.1	54.6	53.5
			900	32.5	20.7	63.9	60.7	58.5	26.5	18.6	61.0	58.0	56.0	21.4	16.7	58.0	55.2	53.9
6.0	4.48	700	31.7	18.8	60.4	57.7	55.6	25.6	16.8	58.0	55.5	53.5	20.5	14.9	55.4	53.1	51.8	
		800	33.6	20.3	61.7	58.8	56.2	27.5	18.3	59.0	56.3	54.2	21.2	16.0	56.6	54.1	52.1	
		900	34.8	21.5	63.1	59.9	56.6	29.0	19.6	60.0	57.0	54.7	22.8	17.3	57.4	54.6	52.6	
48°F	3.6	1.61	700	23.7	15.9	64.1	61.4	61.2	18.9	14.3	61.3	58.8	58.5	14.8	12.7	58.4	56.1	56.2
			800	24.4	17.1	65.4	62.5	61.6	19.9	15.5	62.2	59.6	59.1	15.2	13.7	59.3	56.8	56.4
			900	25.5	18.2	66.4	63.2	62.2	21.0	16.7	63.0	60.0	59.7	16.1	14.7	60.0	57.2	56.9
	4.8	2.86	700	26.5	16.9	62.9	60.2	59.0	21.2	15.1	60.2	57.7	56.8	16.2	13.2	57.7	55.4	54.8
			800	27.7	18.2	64.1	61.2	59.5	22.7	16.6	61.0	58.3	57.5	17.1	14.4	58.5	56.0	55.1
			900	29.3	19.5	65.1	61.9	60.2	23.2	17.5	62.2	59.2	57.7	18.3	15.5	59.2	56.4	55.6
6.0	4.48	700	28.2	17.5	62.1	59.4	57.4	22.1	15.5	59.7	57.2	55.4	17.5	13.7	57.0	54.7	53.8	
		800	30.0	19.0	63.2	60.3	58.0	23.8	16.9	60.6	57.9	55.9	18.3	14.8	58.0	55.5	54.1	
		900	31.8	20.4	64.2	61.0	58.6	25.4	18.2	61.4	58.4	56.5	19.2	15.9	58.8	56.0	54.4	
55°F	3.6	1.61	700	17.3	13.8	66.9	64.2	64.6	12.0	12.0	64.3	62.0	61.7	9.5	9.5	62.5	58.7	60.3
			800	17.7	14.9	67.9	65.0	64.8	13.0	13.0	65.1	62.3	62.2	10.3	10.3	63.2	58.9	60.7
			900	18.7	16.1	68.6	65.4	65.4	13.7	13.7	66.0	62.6	62.6	11.0	11.0	63.8	59.1	61.1
	4.8	2.86	700	19.6	14.5	66.0	63.3	63.2	13.9	12.5	63.6	61.1	60.8	9.9	9.9	62.0	58.5	59.1
			800	20.2	15.7	67.0	64.1	63.4	15.0	13.8	64.2	61.5	61.3	10.8	10.8	62.6	58.7	59.5
			900	21.3	16.9	67.8	64.6	63.9	15.8	14.8	64.9	61.9	61.6	11.6	11.6	63.2	58.9	59.8
6.0	4.48	700	20.5	14.8	65.6	62.9	61.8	15.3	12.9	63.0	60.5	60.1	10.1	10.1	61.8	58.4	58.4	
		800	22.1	16.3	66.3	63.4	62.4	15.6	14.0	63.9	61.2	60.2	11.2	11.2	62.2	58.6	58.7	
		900	22.8	17.4	67.3	64.1	62.6	16.9	15.2	64.5	61.5	60.6	11.9	11.9	62.9	58.8	59.0	

CHILLED WATER COOLING CAPACITIES – WVD-10

ENT WATER	GPM	P.D. FT.	CFM	85°F DB/71°F WB ENT AIR					80°F DB/67°F WB ENT AIR					75°F DB/63°F WB ENT AIR				
				TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F	TOTAL MBH	SENS MBH	LVG AIR °F		LWT °F
						DB	WB				DB	WB				DB	WB	
42°F	4.8	1.38	900	37.0	22.8	61.8	59.1	57.4	31.3	21.0	58.6	56.1	55.0	25.8	19.0	55.6	53.3	52.8
			1000	38.8	24.3	62.7	59.9	58.2	32.9	22.5	59.4	56.8	55.7	26.3	20.1	56.6	54.2	53.0
			1100	40.3	25.5	63.7	60.6	58.8	33.4	23.3	60.6	57.7	55.9	27.6	21.2	57.3	54.7	53.5
	6.0	2.15	900	40.3	23.9	60.6	57.9	55.4	33.1	21.7	57.9	55.4	53.0	27.4	19.6	55.0	52.7	51.1
			1000	41.2	25.2	61.9	59.1	55.7	34.9	23.2	58.7	56.1	53.6	28.6	20.9	55.8	53.4	51.5
			1100	43.0	26.6	62.8	59.7	56.3	36.5	24.5	59.6	56.7	54.2	29.3	21.9	56.7	54.1	51.8
7.2	3.10	900	43.0	25.0	59.5	56.8	53.9	36.1	22.9	56.7	54.2	52.0	28.9	20.3	54.3	52.0	50.0	
		1000	45.3	26.7	60.5	57.7	54.6	38.1	24.5	57.5	54.9	52.6	30.4	21.7	55.1	52.7	50.4	
		1100	47.2	28.1	61.6	58.5	55.1	38.8	25.4	58.8	55.9	52.8	32.0	23.0	55.8	53.2	50.9	
45°F	4.8	1.38	900	34.1	21.8	62.8	60.1	59.2	27.8	19.6	60.0	57.5	56.6	22.6	17.6	57.0	54.7	54.4
			1000	35.0	23.0	63.9	61.1	59.6	29.0	21.0	60.7	58.1	57.1	22.8	18.6	57.9	55.5	54.5
			1100	36.4	24.2	64.8	61.7	60.2	30.4	22.2	61.5	58.6	57.7	23.8	19.8	58.5	55.9	54.9
	6.0	2.15	900	36.4	22.6	62.0	59.3	57.1	30.2	20.6	59.0	56.5	55.1	23.7	18.1	56.5	54.2	52.9
			1000	37.9	24.1	62.9	60.1	57.6	30.9	21.7	60.1	57.5	55.3	25.0	19.5	57.1	54.7	53.3
			1100	39.6	25.3	63.9	60.8	58.2	32.2	22.9	60.9	58.0	55.7	25.9	20.6	57.8	55.2	53.6
7.2	3.10	900	39.5	23.6	60.9	58.2	56.0	31.9	21.2	58.4	55.9	53.9	25.7	18.9	55.7	53.4	52.1	
		1000	40.8	25.1	62.0	59.2	56.3	33.9	22.9	59.0	56.4	54.4	26.2	19.9	56.7	54.3	52.3	
		1100	42.6	26.4	63.0	59.9	56.8	35.3	24.0	60.0	57.1	54.8	27.8	21.3	57.2	54.6	52.7	
48°F	4.8	1.38	900	30.5	20.5	64.1	61.4	60.7	24.3	18.3	61.3	58.8	58.1	19.2	16.4	58.3	56.0	56.0
			1000	31.0	21.7	65.1	62.3	60.9	25.3	19.6	62.0	59.4	58.5	19.3	17.3	59.1	56.7	56.0
			1100	32.4	22.9	65.9	62.8	61.5	26.5	20.7	62.7	59.8	59.0	20.1	18.3	59.7	57.1	56.4
	6.0	2.15	900	32.4	21.1	63.5	60.8	58.8	26.4	19.1	60.5	58.0	56.8	20.1	16.7	58.0	55.7	54.7
			1000	34.1	22.7	64.2	61.4	59.4	26.9	20.3	61.4	58.8	57.0	21.1	18.0	58.5	56.1	55.0
			1100	35.5	24.0	65.0	61.9	59.8	28.3	21.5	62.1	59.2	57.4	22.3	19.2	59.0	56.4	55.4
7.2	3.10	900	35.2	22.2	62.4	59.7	57.8	27.8	19.6	60.0	57.5	55.7	21.9	17.5	57.2	54.9	54.1	
		1000	37.2	23.8	63.2	60.4	58.3	29.3	21.1	60.6	58.0	56.1	22.6	18.5	58.0	55.6	54.3	
		1100	37.9	24.8	64.3	61.2	58.5	31.0	22.4	61.3	58.4	56.6	23.7	19.8	58.5	55.9	54.6	
55°F	4.8	1.38	900	22.4	17.8	66.9	64.2	64.3	16.6	15.6	64.1	61.6	61.9	12.3	12.3	62.5	58.7	60.1
			1000	22.6	18.9	67.7	64.9	64.4	16.9	16.7	64.7	62.1	62.0	13.1	13.1	63.0	58.9	60

XVD UNITS – DIRECT EXPANSION COOLING CAPACITIES

SUCTION TEMP	CFM	85°F DB/71°F WB ENT AIR				80°F DB/67°F WB ENT AIR				75°F DB/63°F WB ENT AIR			
		TOTAL MBH	SENS MBH	LVG AIR °F		TOTAL MBH	SENS MBH	LVG AIR °F		TOTAL MBH	SENS MBH	LVG AIR °F	
				DB	WB			DB	WB			DB	WB
MODEL XVD-04													
40°F	300	15.7	9.0	57.6	55.2	13.0	8.1	55.1	52.9	10.4	7.2	53.0	51.0
	400	13.3	10.7	60.4	57.5	15.2	9.8	57.6	54.9	12.2	8.7	55.1	52.6
	500	20.3	12.2	62.5	59.2	16.9	11.2	59.5	56.4	13.5	9.9	56.8	53.9
45°F	300	13.4	8.1	60.2	57.8	10.8	7.3	57.8	55.6	8.4	6.3	55.6	53.6
	400	15.6	9.8	62.6	59.7	12.6	8.8	59.9	57.2	9.7	7.7	57.4	54.9
	500	17.6	11.2	64.4	61.0	14.0	10.1	61.5	58.4	10.8	8.8	58.8	55.9
50°F	300	11.1	7.3	62.8	60.4	8.6	6.4	60.4	58.2	6.2	5.5	58.2	56.2
	400	12.9	8.8	64.8	61.9	10.0	7.8	62.1	59.4	7.3	6.7	59.6	57.1
	500	14.4	10.1	66.4	63.0	11.1	9.0	63.4	60.3	8.1	7.8	60.7	57.8
MODEL XVD-06													
40°F	500	24.9	14.4	58.6	56.1	20.7	13.1	56.0	53.7	16.6	11.6	53.8	51.6
	600	27.4	16.1	60.4	57.5	22.8	14.7	57.6	54.9	18.3	13.0	55.1	52.6
	700	29.7	17.7	61.8	58.6	24.7	16.1	58.9	55.9	19.9	14.3	56.2	53.4
45°F	500	21.2	13.0	61.1	58.6	17.1	11.7	58.6	56.3	13.3	10.2	56.3	54.1
	600	23.5	14.7	62.6	59.7	18.9	13.1	59.9	57.2	14.6	11.5	57.4	54.9
	700	25.5	16.2	63.8	60.6	20.5	14.5	61.0	58.0	15.9	12.7	58.3	55.5
50°F	500	17.6	11.7	63.5	61.0	13.6	10.4	61.0	58.7	9.9	8.9	58.7	56.5
	600	19.4	13.2	61.8	61.9	15.0	11.7	62.1	59.4	10.9	10.1	59.6	57.1
	700	21.0	14.7	65.8	62.6	16.3	13.0	63.0	60.0	11.9	11.2	60.3	57.5
MODEL XVD-08													
40°F	700	34.2	19.8	59.1	56.4	28.4	17.9	56.5	54.0	22.6	15.9	54.2	51.9
	800	36.5	21.5	60.4	57.5	30.5	19.5	57.6	54.9	24.4	17.4	55.1	52.6
	900	38.9	23.0	61.6	58.4	32.3	20.9	58.7	55.7	25.8	18.5	56.1	53.3
45°F	700	29.3	17.9	61.5	58.8	23.5	16.0	59.0	56.5	18.2	14.0	56.6	54.3
	800	31.3	19.5	62.6	59.7	25.5	17.5	59.9	57.2	19.5	15.3	57.4	54.9
	900	33.3	21.0	63.6	60.4	26.9	18.8	60.8	57.8	20.7	16.5	58.2	55.4
50°F	700	24.1	16.1	63.9	61.2	18.8	14.3	61.3	58.8	13.5	12.2	59.0	56.7
	800	25.8	17.6	64.8	61.9	20.1	15.6	62.1	59.4	14.5	13.4	59.6	57.1
	900	27.6	19.0	65.6	62.4	21.2	16.8	62.9	59.9	15.5	14.5	60.2	57.4
MODEL XVD-10													
40°F	900	43.7	25.3	59.2	56.5	36.2	23.0	56.6	54.1	29.1	20.4	54.2	51.9
	1000	46.3	27.1	60.1	57.3	38.6	24.7	57.3	54.7	30.8	21.9	54.9	52.5
	1100	48.7	28.7	61.1	58.0	40.6	26.1	58.2	55.3	32.4	23.3	55.6	53.0
45°F	900	37.4	23.0	61.6	58.9	30.2	20.6	59.0	56.5	23.1	18.0	57.7	54.4
	1000	39.7	24.7	62.3	59.5	31.9	22.1	59.7	57.1	24.6	19.4	57.2	54.8
	1100	41.7	26.1	63.2	60.1	33.5	23.4	60.5	57.6	25.9	20.6	57.8	55.2
50°F	900	30.7	20.6	64.0	61.3	23.9	18.2	61.4	58.9	17.3	15.7	59.0	56.7
	1000	32.6	22.2	64.6	61.8	25.4	19.7	61.9	59.3	18.4	17.0	59.4	57.0
	1100	34.5	23.6	62.3	62.2	26.5	20.9	62.6	59.7	19.3	18.1	59.9	57.3

VWD UNITS ONLY
HEATING CAPACITIES – (2) PIPE SYSTEM
UTILIZE (4) ROW COIL FOR HEATERS

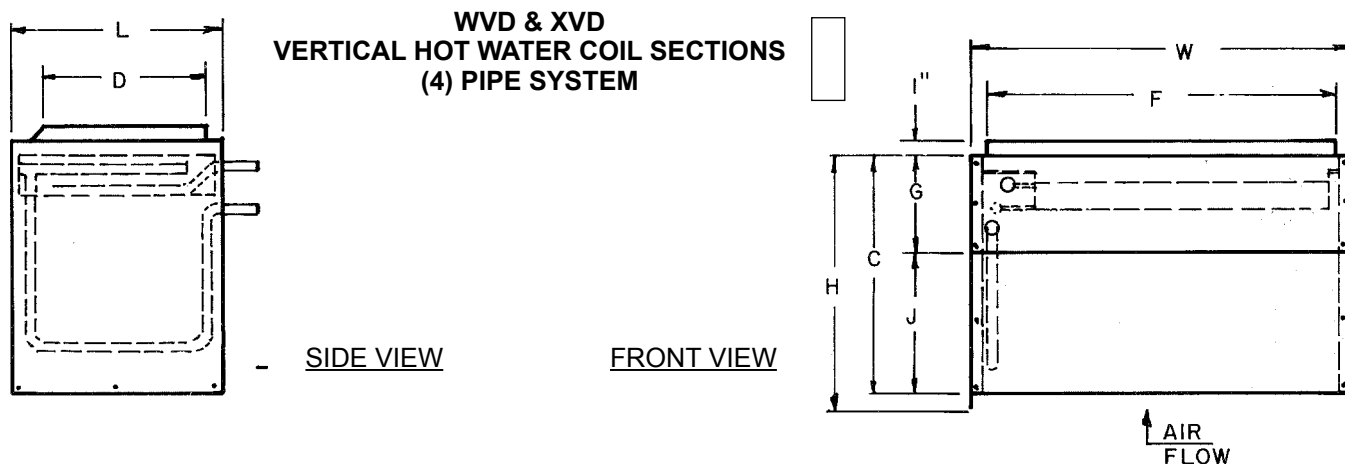
																		USE CORRECTION FACTORS																	
120°F ENTERING WATER TEMPERATURE																		150°F ENTERING WATER TEMPERATURE									180°F ENTERING WATER TEMPERATURE								
GPM	PD FT	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F							
VWD-04		300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM									
1.0	0.37	12	97.3	99.7	14	92.6	96.3	16	89.0	93.7	18	116.3	119.3	21	25	116.2	129.6	24	103.5	110.5	25	134.9	139.2	28	125.1	132.7	32	118.2	127.2						
2.0	1.48	14	101.3	108.7	16	97.2	106.5	19	93.9	104.6	20	121.8	133.2	25	28	111.0	126.8	28	111.0	126.8	27	142.9	157.4	33	135.0	152.0	37	128.1	149.1						
3.0	3.03	14	102.8	112.2	17	99.0	110.6	20	96.0	109.1	21	124.2	138.3	26	31	118.5	135.8	29	113.9	133.7	28	146.9	164.2	34	138.0	161.1	39	131.9	158.2						
VWD-06		500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM									
2.0	.60	21	98.0	102.7	23	95.2	100.8	25	92.5	99.3	31	116.9	124.2	35	112.8	121.8	37	108.8	119.0	41	136.0	145.5	46	130.2	141.7	50	125.0	138.7							
3.0	1.36	22	100.0	107.9	25	97.6	106.3	27	95.1	105.1	33	120.2	131.8	37	116.4	129.5	40	112.8	127.6	44	140.4	155.7	49	135.2	152.7	54	130.6	150.1							
4.0	4.63	22	101.1	110.7	25	98.7	109.5	28	96.2	108.5	34	121.7	136.0	38	118.0	134.2	42	114.7	132.6	45	142.6	161.2	51	137.5	158.9	56	132.7	156.9							
VWD-08		700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM									
3.0	1.67	29	97.7	104.0	31	95.7	102.7	33	93.8	101.6	43	116.6	126.0	47	113.7	124.0	50	110.8	122.3	58	135.5	148.0	62	131.2	145.2	67	127.8	143.1							
4.0	2.96	30	99.2	107.5	33	97.3	106.5	35	95.8	105.4	45	119.0	131.2	49	116.2	129.6	53	113.6	128.1	60	138.8	155.0	65	135.0	152.7	70	131.6	150.7							
5.0	4.63	31	100.2	109.8	33	98.3	108.9	36	96.6	108.0	46	120.3	134.7	50	117.7	133.2	54	115.0	132.0	62	140.7	159.5	67	136.9	157.6	72	133.2	156.1							
VWD-10		900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM									
4.0	1.12	37	97.8	104.5	39	96.1	103.6	41	94.4	102.8	56	116.7	126.8	59	114.1	125.4	62	111.8	124.1	74	135.7	149.0	79	132.3	147.2	83	129.0	145.5							
5.0	1.65	38	99.0	107.2	41	97.6	106.3	43	96.0	105.6	58	118.8	130.8	62	116.4	129.5	65	114.0	128.4	77	138.3	154.4	82	135.3	152.6	86	132.1	151.2							
6.0	2.28	39	99.8	109.2	42	98.2	108.4	44	96.9	107.7	59	119.7	133.7	63	117.7	132.5	66	115.3	131.6	78	139.7	158.3	84	136.9	156.7	88	133.6	155.5							

1. Entering air temperature 60°
2. Units are not recommended for heating applications where leaving air temperature exceeds 140°F
3. Do not utilize the heating capacity chart for DX units. You must utilize a separate heating coil with DX (4 Pipe System). Turn to 2-Row Heating Capacities on page 19.

HOT WATER HEATING CORRECTION FACTORS

ENTERING AIR TEMP (F)	ENTERING WATER TEMP (F)								
	100	110	120	130	140	150	160	170	180
50	.419	.500	.579	.665	.742	.838	.917	1.000	1.090
55	.376	.460	.544	.629	.708	.791	.873	.963	1.048
60	.335	.419	.500	.579	.665	.742	.838	.917	1.000
65	.290	.376	.460	.544	.629	.708	.791	.873	.963
70	.251	.335	.419	.500	.579	.665	.742	.838	.917
75	.205	.290	.376	.460	.544	.629	.708	.791	.873
80	.167	.251	.335	.419	.500	.579	.665	.742	.838

When correction factors are used for various entering air and entering water temperatures, multiply the correction factor times the 180° E.W.T. capacity. The correction factors may be used with all USA Coil & Air published 180° E.W.T. heating capacities. This table can be used to correct capacities for 2-Row Hot Water Coils – (4) Pipe System.



**ADD SECTION TO BASIC UNIT
HOT WATER SECTION CABINET DIMENSIONS**

MODEL	L	H	C	D	W	F	G	J
XVD & WVD-04	13 1/2	16	15	12 1/2	24	23	6	10
XVD & WVD-06	13 1/2	16	15	12 1/2	24	23	6	10
XVD & WVD-08	13 1/2	16	15	12 1/2	24	23	6	10
XVD & WVD-10	14 1/2	16	15	13 1/2	29 1/2	28 1/4	6	10

**XVD & WVD UNITS
TWO ROW COIL HEATING CAPACITIES**

		120°F ENTERING WATER TEMPERATURE									150°F ENTERING WATER TEMPERATURE									180°F ENTERING WATER TEMPERATURE								
GPM	PD FT	TOT MBH			LVG AIR °F			LVG WTR °F			TOT MBH			LVG AIR °F			LVG WTR °F			TOT MBH			LVG AIR °F			LVG WTR °F		
		TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG	TOT	LVG	LVG			
XVD-04 WVD-04		300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM			300 CFM			400 CFM			500CFM		
1.0	0.37	9	86.9	102.4	10	82.9	100.0	11	80.2	98.0	13	100.7	123.4	15	94.6	119.8	17	90.5	116.8	18	114.1	144.6	20	106.1	139.8	22	100.6	135.8
2.0	1.48	10	90.0	109.9	12	86.6	108.4	13	84.0	106.9	15	106.2	134.9	17	99.9	132.5	20	95.8	130.5	20	121.8	159.8	23	113.4	156.7	26	107.9	153.9
3.0	3.03	11	92.1	113.0	12	88.2	111.8	14	85.7	110.7	16	108.6	139.4	19	102.4	137.7	21	98.7	135.9	21	124.2	166.0	25	116.7	163.5	28	111.6	161.3
XVD-06 WVD-06		500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM		
2.0	.60	13	84.0	106.9	14	81.7	105.8	15	79.9	104.8	20	95.8	130.5	21	92.6	128.7	23	90.0	127.1	26	107.9	153.9	29	103.6	151.5	30	99.8	149.6
3.0	1.36	14	85.7	110.7	16	83.7	109.7	17	81.9	108.9	21	98.7	135.9	23	95.5	134.5	25	92.8	133.3	28	111.6	161.3	31	107.6	159.3	33	103.8	157.7
4.0	4.63	14	86.4	112.8	16	84.5	112.0	17	82.5	111.4	22	99.8	139.1	24	96.7	138.0	26	93.8	137.1	29	112.7	165.6	32	108.9	164.0	34	105.1	162.8
XVD-08 WVD-08		700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM		
3.0	1.67	17	81.9	108.9	18	80.3	108.2	19	79.1	107.5	25	92.8	133.5	27	90.5	132.3	28	88.6	131.3	33	103.8	157.7	35	100.6	156.4	38	98.2	155.0
4.0	2.96	17	82.5	111.4	18	81.0	110.8	19	79.8	110.3	26	93.8	137.1	28	91.7	136.2	29	89.9	135.3	34	105.1	162.8	37	102.1	161.6	39	99.8	160.5
5.0	4.63	18	82.8	113.0	19	81.6	112.5	20	80.4	112.0	26	94.3	139.5	28	92.6	138.6	30	90.7	138.0	35	106.8	165.9	38	103.1	165.0	40	100.7	164.0
XVD-10 WVD-10		900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM		
4.0	1.12	21	81.4	109.5	22	80.4	108.9	23	79.3	108.4	32	92.1	134.2	33	90.6	133.3	35	89.1	132.5	42	102.8	159.0	45	100.8	157.7	47	98.8	156.7
5.0	1.65	22	82.0	111.4	23	81.0	110.8	24	80.0	110.4	33	93.3	136.9	34	91.6	136.2	36	90.0	135.6	44	104.4	162.6	46	102.1	161.6	48	100.0	160.8
6.0	2.28	22	82.7	112.6	24	81.6	112.2	25	80.5	111.8	33	94.0	138.9	35	92.5	132.8	37	90.9	137.7	45	105.6	165.1	47	103.0	164.4	49	100.9	163.7

Capacities calculated and based on entering air temperature of 60 degrees.

Units not recommended for heating applications where leaving air exceeds 140 degrees.

Correction factors for conditions other than 60° external air and 180°F water can be found on page 18.