



AIR ZONE INDUSTRIES, INC

Series: HDT / VDT-FC

ETL CERTIFIED

**Double Wall Casing Option
8 Standard Sizes**

600 to 8,800 CFM

Quality Construction

Quiet Operation

Indoor or Outdoor Design

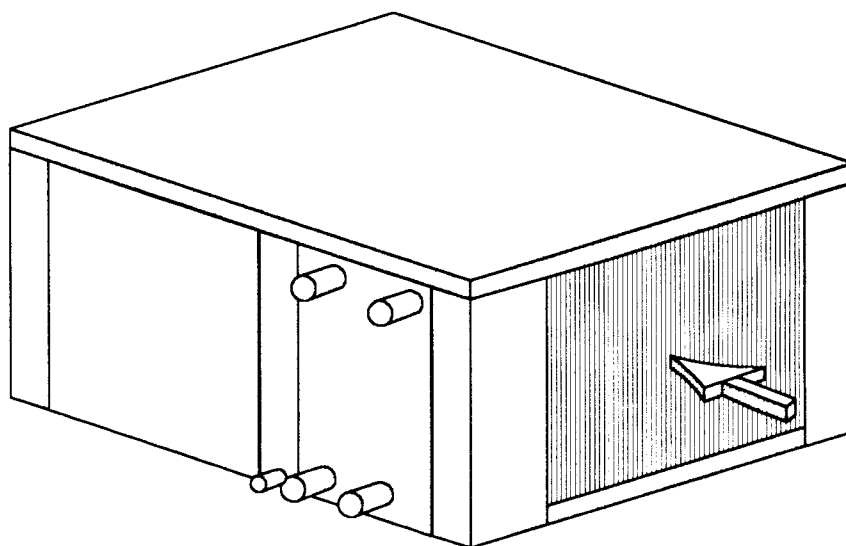
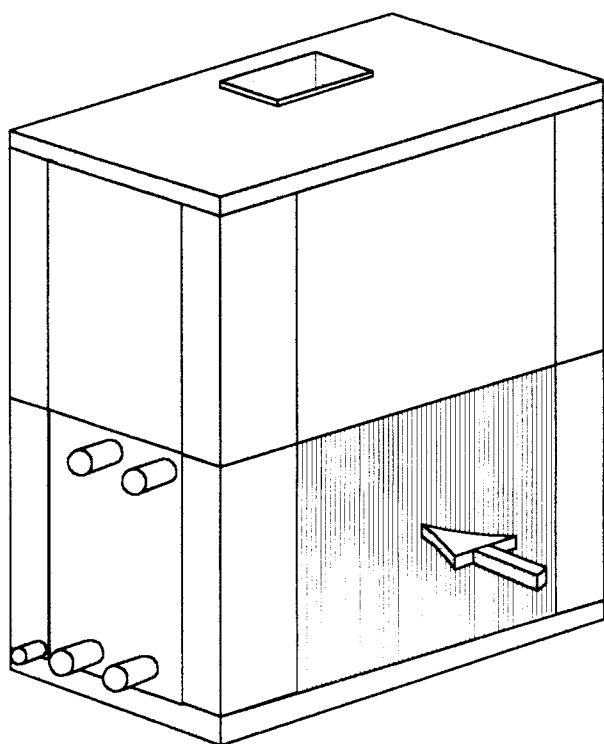
CW or DX Cooling with

Electric, Water or Steam Heat

Stainless Steel Drain Pan

Internal Isolation Optional

Valve & Piping Optional



Contents

ARI Capacity Rating	3
Physical Data	3
Filter Data	3
Component Pressure Loss	3
Details of Construction	4
Standard Specifications	5
Dimensional Data	6 & 7
AMCA Fan Performance Data	8 & 9
ARI Capacity Data	10 & 11

GUARANTEE

Air Zone Industries, Inc. warrants the products it manufactures to be of the finest quality materials and workmanship and to perform according to published ratings when properly installed and operated under normal conditions. AZI's obligation is limited to making good at its factory any part, parts or complete assemblies which shall, within one year of shipment to the original purchaser, be returned with transportation charges prepaid, and which shall, to AZI's satisfaction, be proven defective. Warranty will be honored only after products are paid for in full prior to their being returned for repair or replacement. Correction of such defect shall be by repair or replacement and shall constitute fulfillment of all AZI obligations to purchaser. AZI shall not be liable for loss, damage, or expenses directly or indirectly arising from the installation and/or use of its products or from any other cause.

AZI assumes no liability for expenses or repairs made outside its factory except by prior written consent. No liability of any kind shall attach to AZI until said products have been paid for in full. This warranty supersedes and is in lieu of all other warranties, expressed or implied and no person or representative is authorized to give any other warranties, nor to assume any other liability in connection with AZI products. Nowarranty is made by AZI on motors or accessories, since they are covered separately by the warranties of their respective manufacturers.

This catalog shows the general appearance of products and details of their design at the time of publication. AZI reserves the right to change design, material and/or construction at any time without notice.

ARI* CAPACITY RATINGS

MODEL	TONS (1)	CFM (2)	COOLING (3)	HEATING (4)	HP (5)	dBA (6)
02	2	800	29.10	33.40	1/2	57
03	3	1200	39.83	51.04	3/4	59
04	4	1600	56.18	69.57	1	60
06	5	2400	82.46	104.18	1 1/2	63
08	7.5	3200	111.32	135.14	2	64
10	10	4000	140.80	172.19	2	64
12	15	4800	171.08	205.96	3	66
16	20	6400	224.02	272.27	5	67

Notes:

* In accordance with ARI

1. Nominal tons of cooling capacity, based on standard air see notes 2 & 3 below.
2. Based on standard air at 70 degree f, 0' elevation & 0.075 air density in accordance AMCA.
3. Standard 4 row coil with 80/67 EAT and 45-55 CW and standard air, see note 2 above.
4. Standard 1 row coil with 55 EAT and 180-160 HW and standard air, see note 2 above.
5. Operating at 1.75" WG, TSP with standard air, see note 2 above.
6. DBA 10' from unit with open return and ducted outlet based on FC fan and standard air, see 2 above.

INCREASED CAPACITY

6 or 8 Row CW or DX Coils and various fin series provide cooling capacities to meet any requirements.
 2,3 or 4 Row HW or Steam Coils and various fin series provide heating capacities to meet any requirements.
 A maximum of 8 rows of cooling and heating coils may be installed allowing even greater cooling capacity.

PHYSICAL DATA

MODEL	02	03	04	06	08	10	12	16
COIL Square Feet	2.08	3.02	4.06	5.97	8.06	10.07	12.08	16.11
SIZE Fin Height x Fin Width	15x20	15x29	15x39	20x43	20x58	25x58	30x58	40x58
FAN Standard Fan	9-4	9-7	9-7	9-9	10-10	12-12	15-11	15-15
SIZE Alternate Fan	9-7	9-9	9-9	10-10	12-12	15-15	15-15	18-18
300 FPM Coil Velocity	600	900	1200	1800	2400	3000	3600	4800
350 FPM Coil Velocity	700	1050	1400	2100	2800	3500	4200	5600
COIL 400 FPM Coil Velocity	800	1200	1600	2400	3200	4000	4800	6400
CFM 450 FPM Coil Velocity	900	1350	1800	2700	3600	4500	5400	7200
500 FPM Coil Velocity	1000	1500	2000	3000	4000	5000	6000	8000
550 FPM Coil Velocity	1100	1650	2200	3300	4400	5500	6600	8800

FILTER DATA

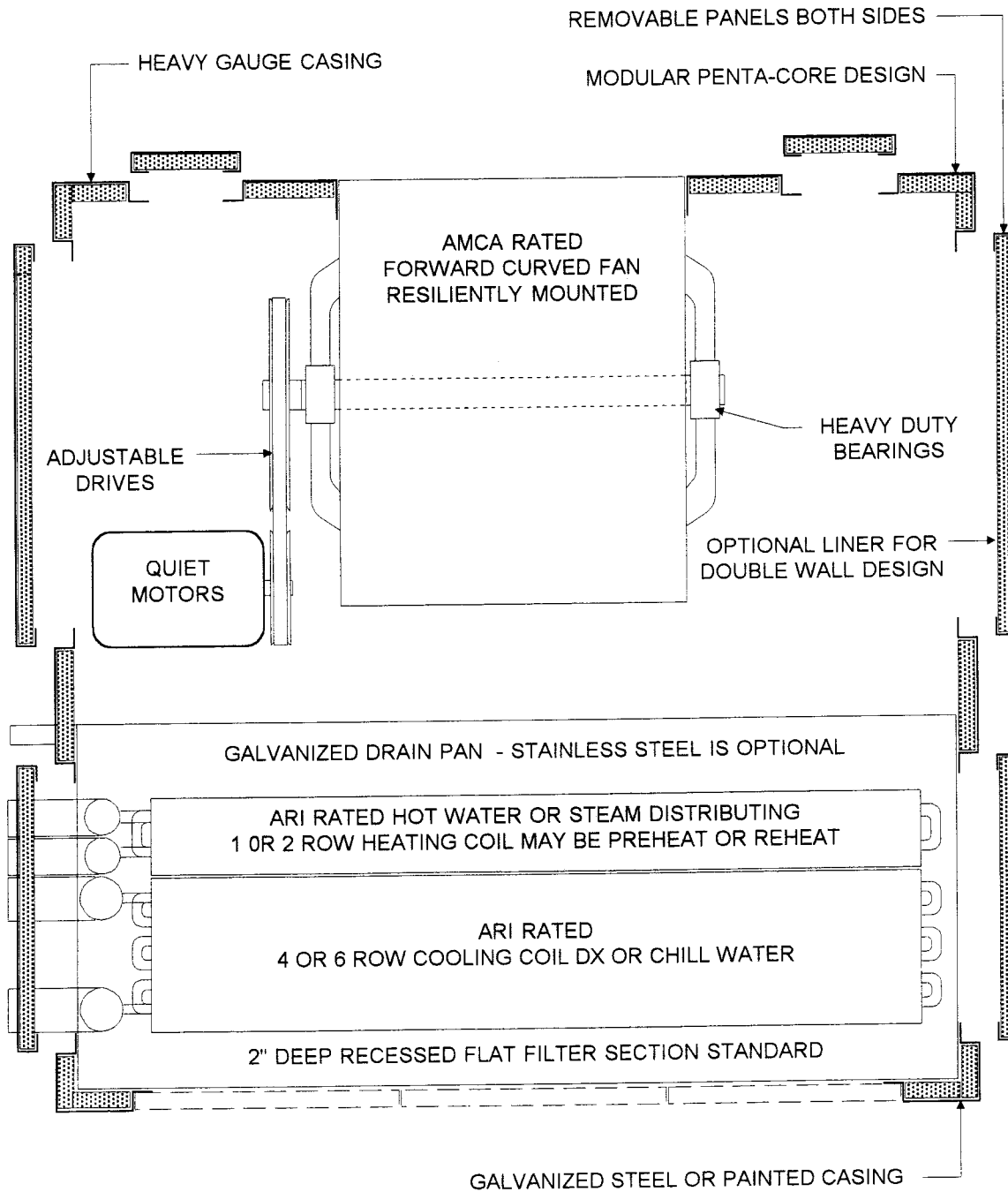
Gross Area

UNIT SIZE	02	03	04	06	08	10	12	14
Flat Filter - Area Sq. Ft.	2.78	3.56	5.00	6.94	8.33	8.88	11.11	17.78
Quantity and Size	1-16x25	2-16x16	1-16x20	2-20x25	3-20x20	4-16x20	4-16x25	8-16x20
			1-16x25					
Low Vel. Filter - Area Sq. Ft.	5.56	7.12	10.00	13.89	16.66	17.76	22.22	35.56
Quantity and Size	2-16x25	4-16x16	2-16x20	4-20x25	6-20x20	8-16x20	8-16x25	16-16x20
			2-16x25					

COMPONENT PRESSURE LOSS

COMPONENT DESCRIPTION	Face Velocity					
	300	350	400	450	500	550
Mixing Section	0.06	0.07	0.08	0.10	0.12	0.15
Face and By-Pass	0.07	0.08	0.09	0.12	0.14	0.16
Electric Heater	0.04	0.05	0.05	0.06	0.06	0.07
Disposable Filter	0.08	0.11	0.14	0.18	0.22	NR
30% Pleated Filter	0.12	0.16	0.20	0.25	0.32	NR

DETAILS OF CONSTRUCTION



Note: VDT-FC CONSTRUCTION IS SIMILAR EXCEPT VERTICAL ARRANGEMENT

SPECIFICATIONS

Series: **HDT / VDT-FC**

Unit Base is constructed of galvanized steel panels sized for the service intended reinforced and braced for rigidity to form a unitized assembly. The unit base is designed to serve as a solid structural support for all components and a sound absorption panel to provide quiet operation.

Unit Casing is constructed of properly sized single wall panels (*double wall is optional*) fabricated of galvanized steel (minimum 18 gauge) reinforced and supported with galvanized steel angles and channels to form a rugged modular assembly. Full service access panels are provided on both sides for easy service. The casing is insulated with 1" - 1 1/2" inner density, in full accordance with NFPA 90A and UL 181 and is secured in place with a suitable UL listed adhesive.

Drain Pan is constructed of galvanized steel (*stainless steel is optional*) adequately reinforced and continuously welded. All welds are cleaned and protected with a zinc rich paint.

Coils are constructed of copper tubes on staggered centers with all joints brazed. Secondary fin material consist of aluminum fins for maximum efficiency and structural strength. All fins have full drawn collars to provide a continuous surface over the entire tube for maximum heat transfer. All tubes are mechanically expanded into the fins to provide a continuous primary surface and maximum heat transfer. Coils are tested with 315 pounds air pressure under warm water and suitable for operation at 250 psig working pressure. Casings are galvanized steel (*stainless steel is optional*) with internal supports on all coils exceeding 48" fin length. Coils are rated in accordance with ARI Standard 410 Certification program.

Fans are standard DIDW Forward Curved, selected for the service intended. All fans are rated according to AMCA. All fan motors are factory assemblies are resiliently mounted, internally. All fans are statically and dynamically balanced with a solid type, high carbon steel shaft designed with the operating speed below the first critical speed. Bearings are self aligning type and selected for long life.

Motors are standard EPACT open drip proof type. Motors may be 115/230/1/60 PSC or 208-230/460/3/60. The service factor is 1.5, rated for continuous duty, NEMA Design B with oversized bearings. The fan motor is mounted on an adjustable base for easy service and the complete fan assembly is resiliently mounted for quiet operation.

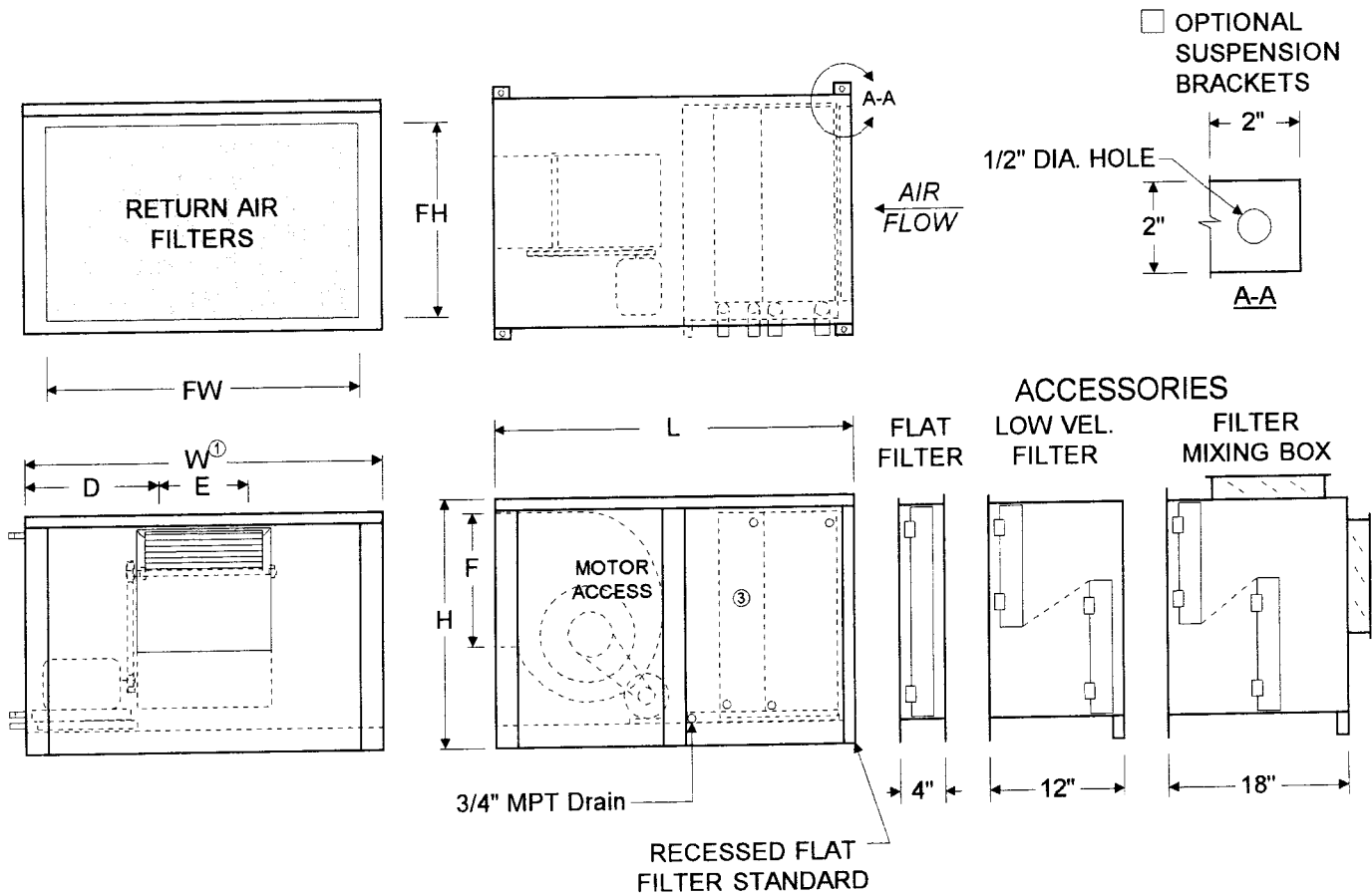
Drives are selected for not less than 125% of design horsepower and preset in the mid range position. The motor pulley is standard with a variable pitch design. All pulleys are cast iron and matched for long belt life.

Exterior Finish is standard mill galvanized. All galvanized steel is G 90 with a minimum 1.25 ounces of zing per square foot on both sides and conform to ASTM A525, coating class, lock forming quality. All welds are cleaned and protected with a minimum 4 mils zing rich paint, (*Painting is optional*).

Options:

- | | | | | |
|-----------------|--|--|---|---|
| Construction | <input type="checkbox"/> Solid Inner Liner | <input type="checkbox"/> Perforated Inner Liner | <input type="checkbox"/> Roof Top Curb Mount Design | |
| Filter Section | <input type="checkbox"/> Flat Filter Section | <input type="checkbox"/> Low Velocity Filter Section | <input type="checkbox"/> Comb. Filter/Mixing | |
| Filter Media | <input type="checkbox"/> Disposable Filters | <input type="checkbox"/> 30% Pleated Filters | <input type="checkbox"/> Permanent Frame TA Pad | |
| Mixing Boxes | <input type="checkbox"/> No Dampers | <input type="checkbox"/> Standard dampers | <input type="checkbox"/> Low Leak Dampers | |
| Coil Options | <input type="checkbox"/> Cu. Tube/Cu. Fin | <input type="checkbox"/> Cu. Tube/Cu. Fin | <input type="checkbox"/> Epoxy Coating | <input type="checkbox"/> Anti-Microbial Coating |
| Coil Casing | <input type="checkbox"/> Standard Galvanized Steel | <input type="checkbox"/> Optional Stainless Steel | <input type="checkbox"/> Anti-Microbial | |
| Drain Pan | <input type="checkbox"/> Standard Galvanized Steel | <input type="checkbox"/> Optional Stainless Steel | <input type="checkbox"/> Anti-Microbial | |
| Discharge | <input type="checkbox"/> THD (Standard) | <input type="checkbox"/> BHD | <input type="checkbox"/> UBF | <input type="checkbox"/> UBR |
| Options | <input type="checkbox"/> Large Coil Section | <input type="checkbox"/> Face & By-Pass | <input type="checkbox"/> Discharge Section | <input type="checkbox"/> Intake Section |
| | <input type="checkbox"/> Electric Heater | <input type="checkbox"/> Discharge Diffuser | <input type="checkbox"/> Intake Grille | <input type="checkbox"/> Intake Louver |
| Installation | <input type="checkbox"/> Suspension Brackets | <input type="checkbox"/> Outdoor Installation | <input type="checkbox"/> Roof Curb | <input type="checkbox"/> Intake Hood |
| Exterior Finish | <input type="checkbox"/> Standard Galvanized | <input type="checkbox"/> Polyurethane Gray | <input type="checkbox"/> Gray Epoxy | <input type="checkbox"/> Special Color |

HDT-FC DIMENSIONAL DATA



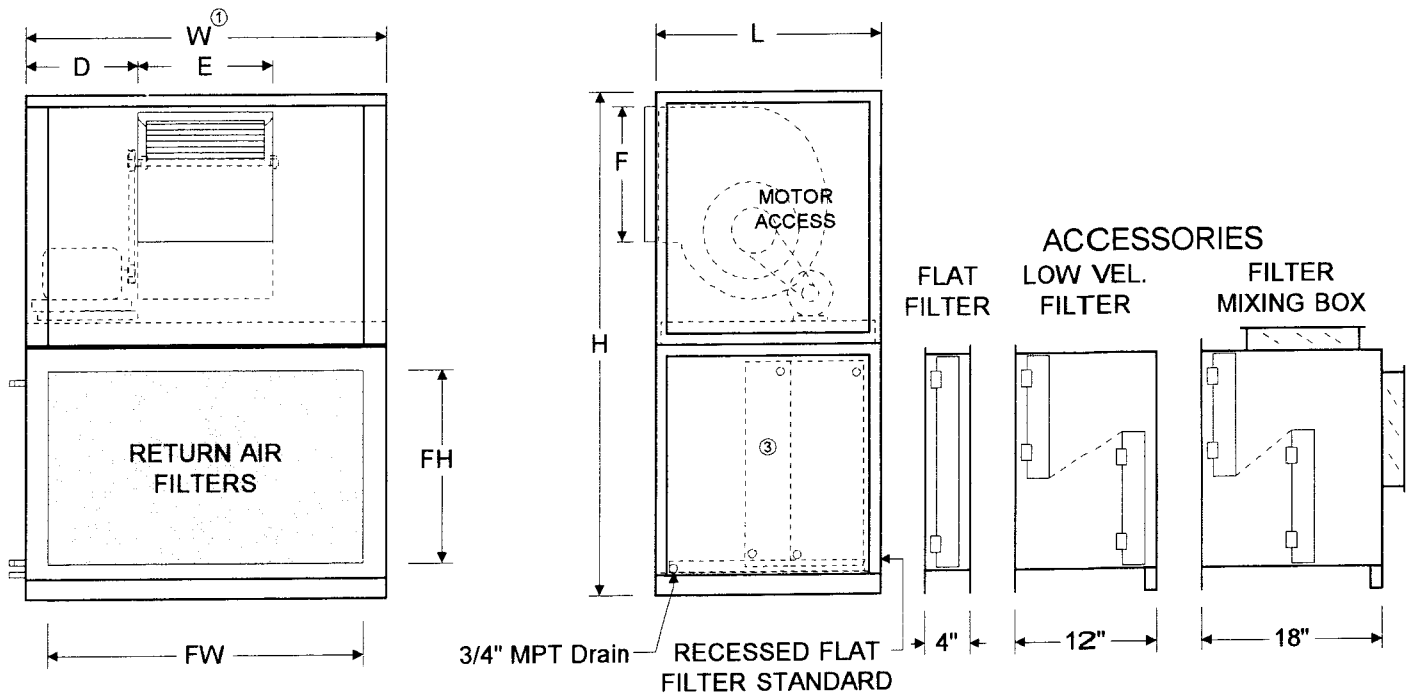
DIMENSIONS

MODEL	H	W	L	D	E	F	FL	FW
HDT-FC-02	19	31	39	12	9 1/4	10 1/4	15	20
HDT-FC-03	19	40	39	17	11 7/8	10 1/4	15	29
HDT-FC-04	19	50	39	24	11 7/8	10 1/4	15	39
HDT-FC-06	24	54	46	27	13 1/8	11 3/8	20	43
HDT-FC-08	24	69	46	27	15 5/8	13 1/2	20	58
HDT-FC-10	30	69	46	27	18 5/8	15 7/8	25	58
HDT-FC-12	35	69	58	27	18 5/8	15 7/8	30	58
HDT-FC-16	45	69	58	27	21 7/8	18 7/8	40	58

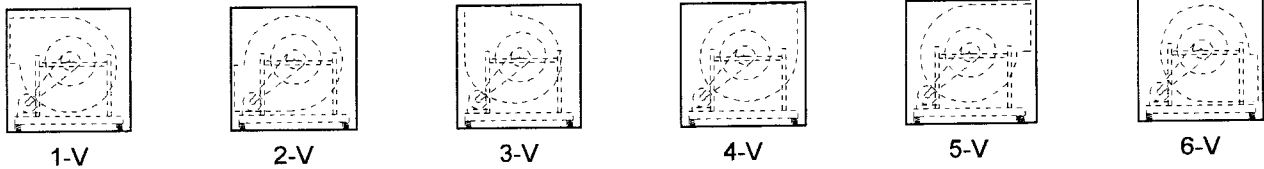
Notes:

1. Width may increase 12" for valve package with extended pan.
2. Height will increase 5" maximum when internal spring isolation is purchased.
3. Optional large coil section may be specified for preheat, cooling and reheat, increase length 6".
4. Heating coil may be reheat position as shown or optional pre-heat position.
5. Optional suspension brackets.
6. Optional face & by-pass, increase length 12".
7. Optional Return Air Grille, increase length 4".
8. Optional Discharge plenum with diffuser, increase length 8".

VDT-FC DIMENSIONAL DATA



ARRANGEMENT



DIMENSIONS

MODEL	H	W	L	D	E	F	FL	FW
VDT-FC-02	42	31	19	12	9 1/4	10 1/4	15	20
VDT-FC-03	42	40	19	17	11 7/8	10 1/4	15	29
VDT-FC-04	42	50	19	24	11 7/8	10 1/4	15	39
VDT-FC-06	48	54	24	27	13 1/8	11 3/8	20	43
VDT-FC-08	52	69	24	27	15 5/8	13 1/2	20	58
VDT-FC-10	60	69	30	27	18 5/8	15 7/8	25	58
VDT-FC-12	66	69	35	27	18 5/8	15 7/8	30	58
VDT-FC-16	72	69	45	27	21 7/8	18 7/8	40	58

Notes:

1. Width may increase 12" for valve package with extended pan.
2. Height will increase 5" maximum when internal spring isolation is purchased.
3. Optional large coil section may be specified for preheat, cooling and reheat, increase length 6".
4. Heating coil may be reheat position as shown or optional pre-heat position.
5. Optional suspension brackets.
6. Optional face & by-pass, increase length 12".
7. Optional Return Air Grille, increase length 4".
8. Optional Discharge plenum with diffuser, increase length 8".

FAN PERFORMANCE DATA

9-4 FAN **Note: Use ball bearings on applications above 1000 RPM or ¾ HP motor. Maximum 2100 RPM or 3 HP.**

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
600		816 0.10	978 0.13	1125 0.17							
700		991 0.16	1130 0.21	1265 0.30							
800		1016 0.20	1144 0.25	1265 0.30	1379 0.35						
900			1167 0.30	1280 0.35	1388 0.41	1492 0.46	1592 0.52	1688 0.58			
1000				1303 0.41	1404 0.47	1503 0.53	1599 0.60	1691 0.66	1779 0.72	1865 0.79	
1100					1428 0.55	1521 0.61	1612 0.68	1699 0.74	1785 0.81	1870 0.89	1950 0.96
1200						1546 0.70	1632 0.77	1716 0.84	1798 0.91	1877 0.99	1957 1.07
1300							1657 0.88	1737 0.95	1815 1.03	1892 1.10	1966 1.18
1400								1765 1.07	1839 1.15	1912 1.23	1982 1.31

9-7 FAN **Note: Use ball bearings on applications above 1000 RPM or ¾ HP motor. Maximum 2100 RPM or 3 HP.**

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
900	797 0.15	940 0.20									
1000	793 0.17	945 0.24	1088 0.31								
1200	833 0.24	968 0.31	1096 0.39	1217 0.47	1332 0.56	1443 0.66	1539 0.81				
1400	883 0.33	1004 0.41	1117 0.48	1230 0.57	1336 0.67	1439 0.77	1538 0.84	1634 1.05			
1600			1198 0.63	1295 0.71	1388 0.79	1479 0.88	1568 0.97	1656 1.07	1741 1.16	1825 1.27	
1800				1342 0.89	1430 0.98	1514 1.07	1595 1.17	1676 1.27	1755 1.37	1833 1.48	1910 1.59
2000				1394 1.10	1477 1.20	1557 1.30	1634 1.41	1708 1.51	1782 1.62	1854 1.73	1925 1.84
2200					1530 1.46	1606 1.57	1679 1.68	1750 1.79	1819 1.91	1896 2.02	1953 2.14

9-9 FAN **Note: Use ball bearings on applications above 1000 RPM or ¾ HP motor. Maximum 2100 RPM or 3 HP.**

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
1200	821 0.20	974 0.27	1116 0.34								
1400	851 0.26	996 0.34	1125 0.42	1248 0.50							
1600	887 0.33	1024 0.42	1148 0.51	1262 0.60	1371 0.70	1476 0.80					
1800		1056 0.52	1175 0.62	1285 0.72	1387 0.82	1486 0.93	1580 1.04	1674 1.16			
2000		1095 0.64	1206 0.73	1312 0.86	1411 0.97	1505 1.08	1595 1.20	1681 1.32	1766 1.44	1850 1.57	
2200			1242 0.90	1343 1.01	1439 1.14	1529 1.22	1616 1.38	1699 1.51	1779 1.64	1858 1.77	1936 1.91
2400				1377 1.19	1470 1.32	1557 1.46	1642 1.59	1722 1.73	1800 1.86	1878 2.00	1949 2.14
2600				1417 1.40	1509 1.85	1588 1.68	1670 1.82	1681 1.32	1766 1.44	1850 1.57	1858 1.77

10-10 FAN **Note: Use ball bearings on applications above 1000 RPM or ¾ HP motor. Maximum 2100 RPM or 3 HP.**

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
1600	724 0.27	851 0.35	972 0.44								
1800	751 0.34	868 0.43	980 0.52	1087 0.62	1184 0.72						
2000		892 0.52	995 0.62	1095 0.72	1192 0.83	1283 0.95					
2200		919 0.62	1017 0.73	1110 0.84	1200 0.96	1288 1.08	1373 1.20				
2400		949 0.74	1042 0.86	1130 0.97	1214 1.10	1298 1.22	1379 1.36	1458 1.49	1534 1.63		
2600			1070 1.00	1154 1.13	1234 1.26	1313 1.39	1389 1.52	1464 1.67	1539 1.81	1611 1.96	1680 2.11
2800			1100 1.16	1181 1.30	1258 1.44	1332 1.57	1405 1.75	1476 1.86	1547 2.01	1616 2.17	1684 2.33
3000				1210 1.49	1284 1.64	1356 1.78	1425 1.99	1493 2.08	1560 2.24	1627 2.40	1692 2.56
3200					1313 1.86	1382 2.01	1448 2.17	1513 2.33	1578 2.49	1641 2.65	1703 2.82
3400					1343 2.10	1410 2.27	1475 2.43	1537 2.60	1598 2.76	1659 2.94	

FAN PERFORMANCE DATA

12-12 FAN Note: Use ball bearings on applications above 1000 RPM or 1 HP motor. Maximum 1900 RPM or 3 HP.

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
2200	595 0.32	707 0.47	808 0.59	901 0.72							
2600	622 0.49	724 0.62	819 0.76	906 0.89	989 1.04	1066 1.18					
3000		748 0.80	836 0.95	919 1.11	997 1.27	1071 1.43	1142 1.59	1209 1.76	1275 1.93		
3400			860 1.19	937 1.36	1011 1.54	1082 1.72	1149 1.90	1214 2.08	1277 2.27	1338 2.76	1396 2.65
3800			889 1.48	961 1.67	1031 1.86	1098 2.05	1163 2.25	1225 2.45	1285 2.65	1343 2.86	1400 3.41
4200				990 2.02	1056 2.23	1119 2.44	1181 2.65	1240 1.87	1298 3.09	1354 3.31	1409 3.53
4400					1070 2.43	1131 2.65	1191 2.87	1250 3.10	1306 3.32	1361 3.56	1415 3.79
4600					1085 2.66	1144 2.88	1203 3.11	1260 3.34	1315 3.58	1369 3.82	1422 4.06

15-11 FAN Note: Use ball bearings on applications above 1000 RPM or 1 HP motor. Maximum 1600 RPM or 3 HP.

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
2500	486 0.39	578 0.51	662 0.64	738 0.77							
3000	508 0.68	592 0.68	670 0.83	743 0.98	810 1.14	874 1.29	932 1.45				
3500		613 0.90	686 1.07	753 1.24	818 1.42	879 1.59	936 1.77	991 1.96	1043 2.14	1093 2.33	
4000			706 1.37	770 1.55	830 1.75	888 1.94	943 2.15	997 2.35	1048 2.56	1097 2.76	1144 2.97
4500				791 1.93	848 2.14	903 2.36	955 2.58	1006 2.80	1050 2.98	1103 3.25	1149 3.49
5000					870 2.61	922 2.84	972 3.08	1020 3.32	1067 3.52	1113 3.81	1157 4.06
5500						944 3.40	992 3.66	1038 3.92	1083 4.19	1127 4.15	1170 4.72
6000							1016 4.33	1060 4.61	1103 4.89	1145 5.18	1185 5.46

15-15 FAN Note: Use ball bearings on applications above 1000 RPM or 1 HP motor. Maximum 1600 RPM or 3 HP.

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
3000	486 0.45	581 0.60	665 0.77								
3500	500 0.59	591 0.77	671 0.94	745 1.13	815 1.33						
4000	579 0.78	604 0.96	682 1.16	752 1.36	818 1.57	880 1.79	941 2.03				
4500		620 1.20	964 1.41	763 1.64	827 1.86	886 2.10	943 2.34	998 2.59	1052 2.85		
5000			709 1.71	776 1.95	838 2.20	951 2.71	1003 2.97	1003 2.97	1054 3.24	1103 3.52	1152 3.81
5500			727 2.07	790 2.32	850 2.59	907 2.86	961 3.13	1012 3.41	1061 3.70	1109 3.99	1170 4.72
6000				847 2.75	863 3.03	920 3.32	973 3.61	1023 3.91	1071 4.21	1118 4.52	1162 4.83

18-18 FAN Note: Use ball bearings on applications above 1000 RPM or 1 HP motor. Maximum 1200 RPM or 10 HP.

FAN CFM	.50 RPM BHP	.75 RPM BHP	1.00 RPM BHP	1.25 RPM BHP	1.50 RPM BHP	1.75 RPM BHP	2.00 RPM BHP	2.25 RPM BHP	2.50 RPM BHP	2.75 RPM BHP	3.0 RPM BHP
5000	439 0.94	516 1.21	585 1.49	649 1.77	707 2.06	761 2.36					
5500	451 1.12	525 1.42	592 1.72	654 2.03	711 2.34	764 2.66	815 2.99	863 3.32			
6000		535 1.66	600 1.98	660 2.31	716 2.65	768 2.99	818 3.34	865 3.69	910 4.05		
6500			609 2.28	667 2.63	722 2.99	773 3.35	822 3.72	869 4.10	913 4.48	956 4.86	997 5.26
7000				676 2.98	729 3.36	780 3.75	827 4.14	873 4.54	917 4.94	959 5.34	1000 5.76
7500				686 3.36	738 3.77	787 4.18	834 4.60	878 5.01	921 5.44	963 5.87	1003 6.30
8000				697 3.79	747 4.22	795 4.65	841 5.09	885 5.53	927 5.98	968 6.43	1007 6.88
8500				708 4.25	757 4.70	804 5.16	849 5.62	892 6.09	934 5.65	974 7.03	1013 7.51
9000					768 5.23	814 5.72	858 6.20	900 6.69	941 7.19	980 7.68	1019 8.18

Notes:

1. Fan size 12-12 requires pillow block type bearings when applied with 5.
2. Fan size 15-11 and 15-15 require pillow block type bearings when applied to 5 and 7 ½ HP.
3. Fan size 18-18 requires pillow block bearings when applied to 7 ½ and 10 HP.

COOLING CAPACITIES

HDT / VDT-02FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
700	45	5.0	18.55	25.80	55.77	55.15	19.88	28.18	53.9	53.9	17.75	24.96	56.53	55.66
800	45	6.0	20.94	29.10	56.06	55.33	23.89	34.91	52.69	52.64	19.55	27.18	57.37	56.34
900	45	7.0	23.28	32.23	56.34	55.53	25.33	35.65	54.26	54.14	21.51	29.24	57.87	56.69

HDT / VDT-03FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
1050	45	7.0	28.04	39.32	55.58	54.94	30.36	43.34	53.56	53.52	27.57	39.53	55.69	54.97
1200	45	8.0	29.90	39.83	57.21	56.45	34.21	48.43	53.93	53.87	30.28	42.97	56.63	55.66
1350	45	9.0	33.02	43.68	57.63	56.75	37.95	53.36	54.30	54.17	33.19	45.92	57.23	56.34

HDT / VDT-04FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
1400	45	10	36.95	51.17	55.86	55.26	41.94	61.22	52.60	52.60	36.11	51.92	56.12	55.31
1600	45	11	41.11	56.18	56.50	55.78	46.82	67.60	53.24	53.16	39.88	55.93	56.92	56.00
1800	45	12	45.12	60.98	57.08	56.21	51.64	73.80	53.76	53.63	43.45	59.24	57.65	56.69

HDT / VDT-06FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
2100	45	14	54.89	75.77	56.10	55.43	62.89	90.57	52.83	52.83	53.85	75.60	56.26	55.66
2400	45	15	60.78	82.46	56.84	56.04	69.36	99.09	53.51	53.52	59.35	82.34	57.10	56.34
2700	45	17	67.28	90.61	57.21	56.33	77.09	109.46	53.89	53.80	65.82	88.57	57.61	56.69

HDT / VDT-08FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
2800	45	20	75.43	106.42	55.36	54.73	83.49	121.50	52.73	52.73	74.06	106.57	55.51	54.97
3200	45	22	81.70	111.32	56.65	55.89	93.20	134.22	53.37	53.28	81.41	116.27	56.44	55.31
3600	45	24	82.73	114.32	56.36	55.56	94.66	137.70	52.95	52.87	89.34	124.23	57.02	56.00

HDT / VDT-10FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
3500	45	26	95.18	135.25	55.13	54.50	99.99	141.19	53.88	53.87	92.57	133.21	55.51	57.97
4000	45	28	102.70	140.80	56.52	55.74	117.48	169.51	53.14	53.11	101.77	145.34	56.44	55.31
4500	45	30	112.48	151.98	57.14	56.25	129.06	184.04	53.77	53.67	111.68	155.28	57.02	56.00

HDT / VDT-12FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
4200	45	32	111.70	156.07	55.68	55.04	120.47	170.82	53.77	53.75	111.09	159.85	55.51	54.97
4800	45	35	124.27	171.08	56.32	55.59	141.80	205.87	52.98	52.92	122.12	174.41	56.44	55.31
5400	45	37	135.55	183.94	57.04	56.15	155.48	222.71	53.67	53.54	134.01	186.34	57.02	56.00

HDT / VDT-16FC			4 Row Chill Water				6 Row Chill Water				4 Row Direct Expansion			
SPECIFIC DATA			EAT 80/67				EAT 80/67				EAT 80/67 with 45 SST			
COIL	CW	FLOW	MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR		MBH	MBH	LEAVING AIR	
CFM	TEMP.	GPM	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB	SENS.	TOTAL	DB	WB
5600	45	40	147.53	210.07	55.02	54.41	154.73	218.96	53.80	53.79	148.11	213.14	55.51	54.79
6400	45	44	163.97	224.02	56.56	55.81	187.23	269.74	53.25	53.20	162.83	232.55	56.44	55.31
7200	45	48	179.97	243.17	57.14	56.25	206.49	297.47	53.77	53.67	178.69	248.45	57.02	56.00

- Note: 1 See Page 11 for Hot Water and Steam Distributing coil capacity.
 2. Contact the factory for a copy of the ARI extended rating program.

HEATING CAPACITIES

HDT / VDT-02FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
700	180	2.0	0.33	24.64	92.46	0.05	0.37	39.79	112.41	0.10	49.70	47.80	122.70	0.07
800	180	4.0	1.20	30.02	94.61	0.06	0.28	46.82	113.97	0.12	53.66	51.61	119.24	0.08
900	180	6.0	2.54	33.72	94.65	0.07	0.57	53.86	115.18	0.15	57.32	55.13	116.25	0.10

HDT / VDT-03FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
1050	180	3.0	0.80	37.99	93.36	0.05	0.93	61.08	113.64	0.10	73.49	70.68	121.82	0.07
1200	180	6.0	2.86	45.70	95.12	0.06	0.67	72.15	115.44	0.13	79.31	76.28	118.37	0.09
1350	180	9.0	6.03	51.04	94.86	0.08	1.36	82.42	116.30	0.15	84.68	81.45	115.40	0.11

HDT / VDT-04FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
1400	180	4.0	1.54	52.00	94.25	0.05	0.38	78.93	111.99	0.10	98.34	94.58	122.04	0.07
1600	180	8.0	5.43	62.10	95.79	0.06	1.28	98.58	116.81	0.13	106.15	102.09	118.59	0.09
1800	180	12.0	2.41	66.76	94.20	0.08	2.60	112.17	117.46	0.16	113.35	109.01	115.61	0.11

HDT / VDT-06FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
2100	180	6.0	2.14	78.05	94.27	0.05	0.57	118.93	112.22	0.11	144.71	139.17	120.86	0.08
2400	180	12.0	7.54	92.95	95.71	0.07	1.92	148.05	116.88	0.13	156.08	150.11	117.43	0.10
2700	180	18.0	3.17	100.05	94.17	0.08	3.91	168.20	117.44	0.16	166.56	160.19	114.48	0.12

HDT / VDT-08FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
2800	180	9.0	5.05	108.47	95.72	0.05	1.34	167.58	115.19	0.10	193.89	186.48	121.16	0.07
3200	180	18.0	3.47	123.68	95.64	0.06	4.50	204.80	119.01	0.13	209.17	201.17	117.17	0.09
3600	180	27.0	7.44	137.67	95.26	0.08	9.16	231.05	119.18	0.15	223.25	214.72	114.77	0.11

HDT / VDT-10FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
3500	180	11.0	4.94	135.09	95.59	0.05	1.31	208.39	114.90	0.10	247.02	237.58	122.23	0.07
4000	180	22.0	3.32	154.18	95.54	0.06	4.65	255.21	118.83	0.13	266.67	256.47	118.88	0.09
4500	180	33.0	7.13	171.73	95.19	0.08	9.49	288.14	119.04	0.15	284.80	273.91	115.90	0.11

HDT / VDT-12FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
4200	180	14.0	5.57	163.65	95.93	0.05	1.63	253.44	115.64	0.10	293.97	282.73	121.82	0.07
4800	180	28.0	3.71	186.30	95.79	0.06	5.52	308.70	119.30	0.13	317.26	305.12	118.37	0.09
5400	180	42.0	7.97	207.17	95.38	0.08	1.80	336.51	117.46	0.15	338.74	325.78	115.40	0.11

HDT / VDT-16FC			1 Row Hot Water				2 Row Hot Water				1 Row Steam			
SPECIFIC DATA			EAT 60				EAT 60				EAT 60 / 5 PSIG			
COIL	HW	FLOW	WATER	MBH	LVG	AIR	WATER	MBH	LVG	AIR	LBS	MBH	LVG	AIR
CFM	TEMP	GPM	PD	TOTAL	DB	PD	PD	TOTAL	DB	PD	COND	TOTAL	DB	PD
5600	180	16.0	4.31	212.62	95.01	0.05	1.31	325.78	113.64	0.10	394.01	378.95	122.14	0.07
6400	180	32.0	2.78	243.76	95.12	0.06	4.43	402.71	118.02	0.13	425.31	409.04	118.69	0.09
7200	180	48.0	5.96	272.27	94.87	0.08	9.05	456.22	118.43	0.15	454.18	436.81	115.71	0.00

- Note: 1. Maximum recommended leaving air temperature is 130 degrees f.
 2. Steam coils are Non-Freeze, steam distributing type with 5/8" OD exterior tube and 3/8" inner distributing tube.

ADDITIONAL PRODUCTS MANUFACTURED

Sonatrol Sound Attenuators

Series: LP/MP/HP

Standard Sizes 12" x 6" to 48" x 48"
Custom Sizes Available
Straight Thru or Elbow Design
Duct or Wall Mounted

Slot Diffusers

Series: N-Slot

Available from 12" to 72"
Optional Height Available
Optional Down Blow Section
Optional Return section
Optional Inlet Sensors
Laboratory Tested & Certified
Lay In, Spline or Donn Ceiling
Internal or External Insulation

Series: A, BS, C, CS & D Slots

Available from 12" to 72"
One through 4 Slot Optional
Optional Height Available
Optional Down Blow Section
Optional return section
Lay In, Spline or Donn Ceiling
Internal or External Insulation

Light Troffer Diffusers

Series: DS and SS

Available in Dual or Single Side
Nominal Size 1 x 4 through 4 x 4
Custom Designed for Each Fixture
Low Profile - Low Leak Design
Complete Factory Assembly
Knock Down Optional
Internal or External Insulation

Custom Metal Products

Series: Design & Build

All Products Available as Custom
Replacement or Retrofit Terminals

Fan/Coil Units

Series: HDT / VDT-FC

Available 600 through 8,800 CFM
Horizontal or Vertical
Enclosed Cabinet Type
Belt or Direct Drive
Single or Double Wall

Compact Air Units

Series: HDT / VDT-PC

Available 600 through 60,000 CFM
Modular Design up to 6.0" TSP
FC, BI, AF or Plenum Fans
Indoor, Outdoor or Roof Top Design
Single or Double Wall

Commercial Air Units

Series: HDT / VDT

Available 600 through 60,000 CFM
Modular Design up to 8.0" TSP
FC, BI, AF, Plenum or Vane Axial Fans
Indoor, Outdoor or Roof Top Design
Single or Double Wall

Roof Top Air Units

Series: HDT-RT

Available 1,000 through 60,000 CFM
Modular Design up to 8.0" TSP
FC, BI, AF, Plenum or Vane Axial Fans
Roof Top Design
Bottom Supply & Return Standard
Internal Pipe Chase
Single or Double Wall

Custom Air Units

Series: RTAH

Available 1,000 through 200,000 CFM
Modular Design up to 12.0" TSP
FC, BI, AF, Plenum or Vane Axial Fans
Indoor, Outdoor or Roof Top Design
Single or Double Wall