

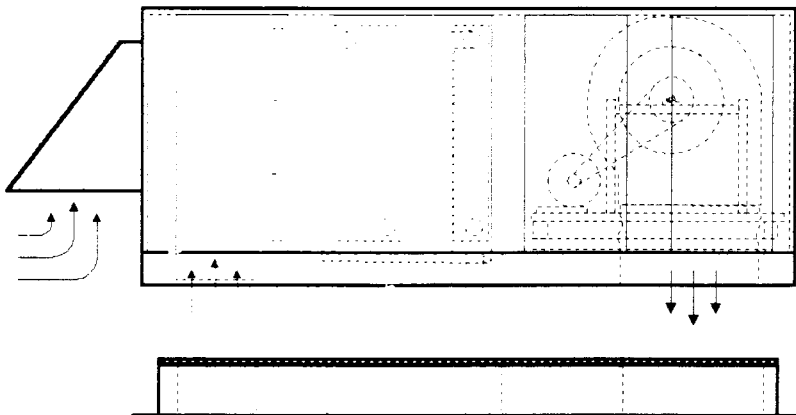
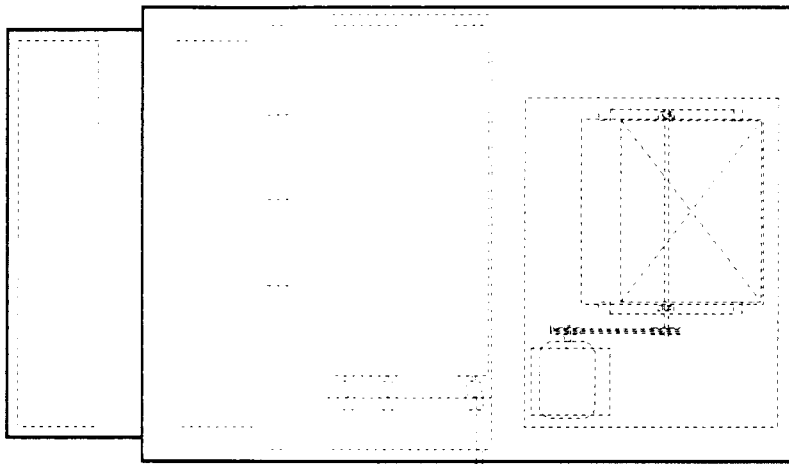


Air Zone Industries, Inc.

Series: HDT-RT ROOF TOP AIR UNITS

ETL CERTIFIED

**Optional Double Wall
14 Standard Sizes
1000 to 38,000 CFM
Rugged Construction
Quiet Operation
CW or DX Application
Internal Pipe Chase
Bottom Supply/Return**



Contents

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ARI* CAPACITY RATINGS

MODEL	TONS (1)	CFM (2)	COOLING (3)	HEATING (4)	HP (5)	SOUND (6)
03	4.67	1,755	56.00	70.90	1 1/2	62
06	8.55	3,344	102.56	131.12	3	73
08	11.17	4,411	134.09	171.79	3	73
10	14.75	5,616	176.98	224.70	5	70
12	17.94	6,683	215.30	272.05	5	69
14	20.12	7,750	241.45	319.61	5	73
17	24.90	9,356	298.85	364.61	7 1/2	69
22	32.60	12,067	391.17	509.07	7 1/2	71
27	40.75	15,087	489.05	636.42	10	71
33	48.91	18,106	586.90	763.75	10	72
38	57.05	21,120	684.62	890.94	15	74
44	65.20	24,134	782.34	1,018.14	15	75
52	77.57	28,655	930.84	1,204.78	20	75
63	93.89	34,700	1,126.72	1,459.61	25	79

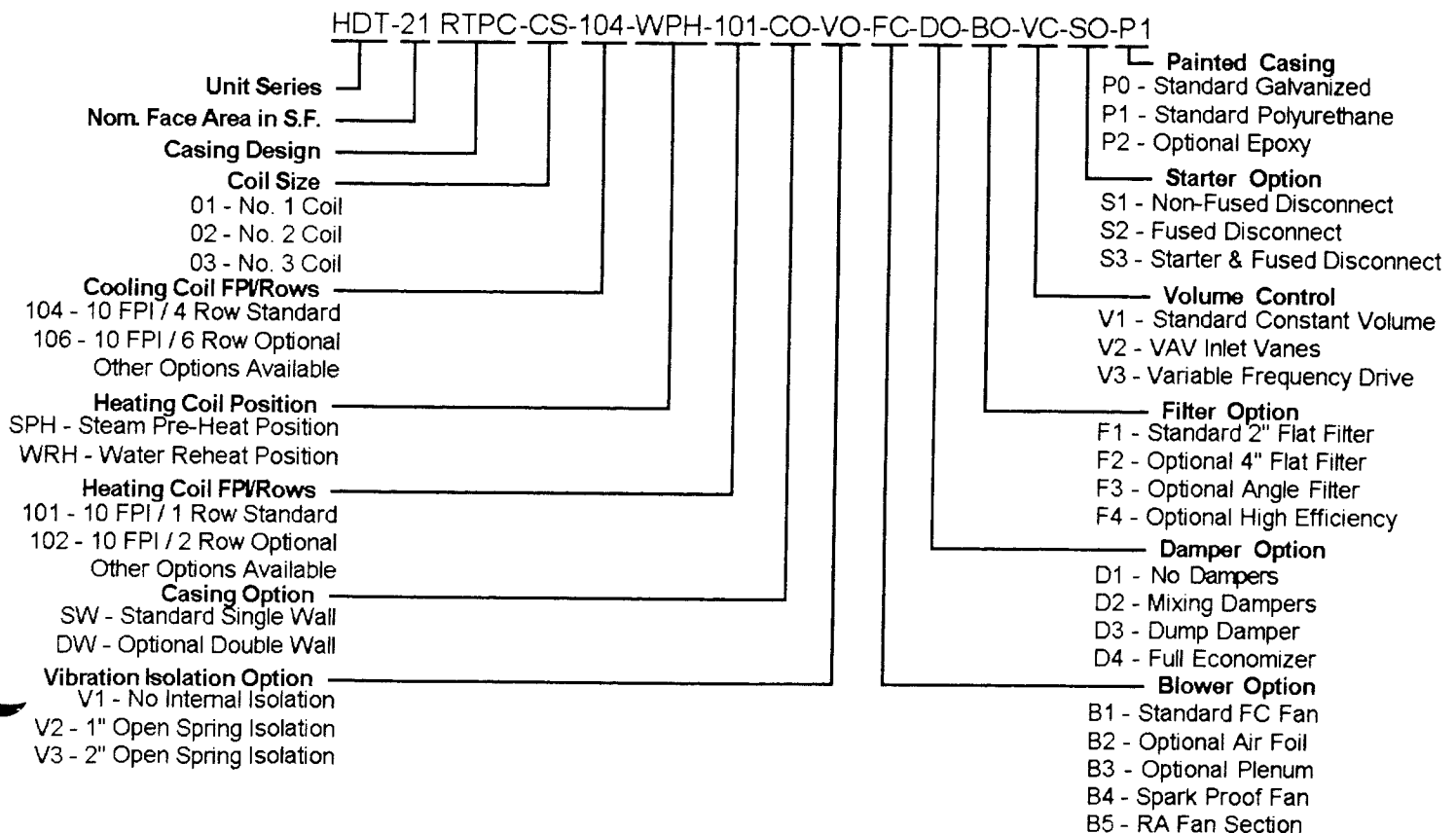
Notes:

1. Tons of cooling capacity is equal to BTU/Hr/12,000 BTU/Hr and 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 2.0" 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

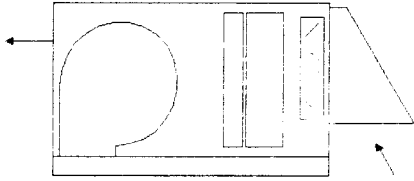
6, 8 or 10 Row CW or DX Coils and various fin series provide cooling capacities to meet any requirements.
 2,3 or 4 Row HW or Steam Coils and various fin series provide heating capacities to meet any requirements.
 A maximum of 10 rows of cooling and heating coils may be installed allowing even greater cooling capacity.
 Airfoil and plenum blowers are optional when required.

MODEL NUMBER NOMENCLATURE

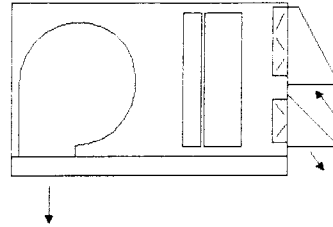


ARRANGEMENT Options

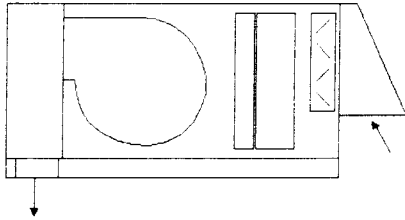
ARR. 1



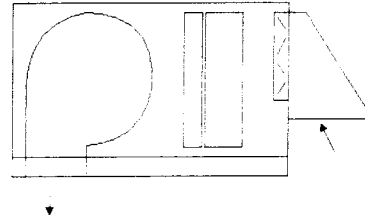
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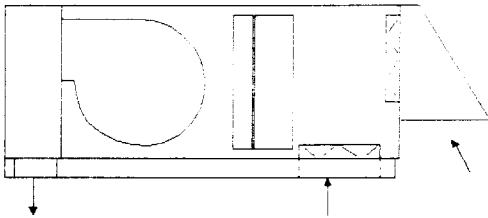
ARR. 2



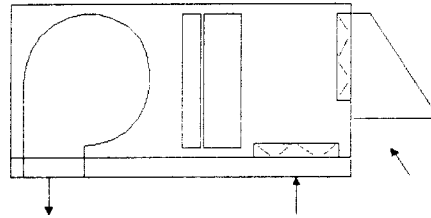
ARR. 5



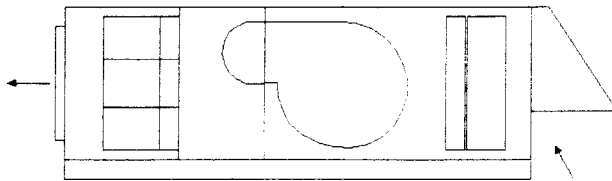
ARR. 3



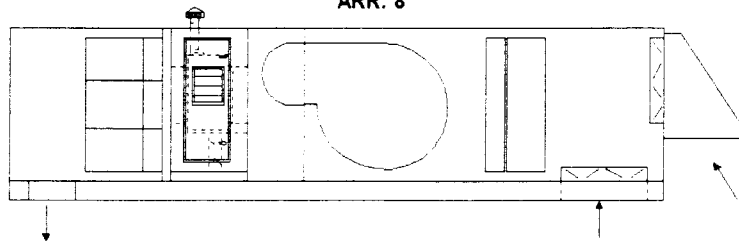
ARR. 6



ARR. 7



ARR. 8



PHYSICAL DATA
Series: HDT-RTPC

UNIT MODEL	03	06	08	10	12	14	17	
COIL SIZE	No. 1 Sq. Ft.	3.19	6.08	8.02	10.21	12.15	14.09	17.01
	FH x FL	20.0 x 23.0	25.0 x 35.0	35.0 x 33.0	35.0 x 42.0	35.0 x 50.0	35.0 x 58.0	35.0 x 70.0
	No. 2 Sq. Ft.	2.80	4.86	6.88	8.75	10.42	12.08	14.58
	FH x FL	17.5 x 23.0	20.0 x 35.0	30.0 x 33.0	30.0 x 42.0	30.0 x 50.0	30.0 x 58.0	30.0 x 70.0
	No. 3 Sq. Ft.	2.40	4.25	5.73	7.29	8.68	10.07	12.15
	FH x FL	15.0 x 23.0	17.5 x 35.0	25.0 x 33.0	25.0 x 42.0	25.0 x 50.0	25.0 x 58.0	25.0 x 70.0

FAN SIZE	Fan A	10"	10"	12"	15"	18"	18"	20"
	Fan B	9"	9"	10"	12"	15"	15"	18"
	Fan C	12"	12"	12"	12"	15"	15"	18"
	Fan D	12"	12"	15"	15"	18"	20"	22"

NOM. CFM	350 FPM	1117	2128	2807	3574	4253	4932	5954
	400 FPM	1276	2432	3208	4084	4860	5636	6804
	450 FPM	1436	2736	3609	4595	5468	6341	7655
	500 FPM	1595	3040	4010	5105	6075	7045	8505
	550 FPM	1755	3344	4411	5616	6683	7750	9356
	600 FPM	1914	3648	4812	6126	7290	8454	10206

FLAT FILTER QUANTITY / SIZE	Sq. Ft.	6.94	9.72	12.50	15.00	17.50	20.00	22.50
		2-20 x 25 x 2	1-16 x 25 x 2	2-16 x 25 x 2	3-16 x 20 x 2	1-16 x 20 x 2	4016 x 20 x 2	2-16 x 20 x 2
			2-20 x 25 x 2	2-20 x 25 x 2	3-20 x 20 x 2	2-16 x 25 x 2	4-20 x 20 x 2	2-16 x 25 x 2
						1-20 x 20 x 2		2-20 x 20 x 2
					2-20 x 25 x 2		2-20 x 25 x 2	

ANGLE FILTER QUANTITY / SIZE	Sq. Ft.	13.89	19.44	29.17	31.25	35.42	41.67	45.83
		4-20 x 25 x 2	2-16 x 25 x 2	3-16 x 25 x 2	9-20 x 25 x 2	9-16 x 25 x 2	12-20 x 25 x 2	9-16 x 25 x 2
		4-20 x 25 x 2	6-20 x 25 x 2		3-20 x 25 x 2		6-20 x 25 x 2	

UNIT MODEL	22	27	33	38	44	52	63	
COIL SIZE	No. 1 Sq. Ft.	21.94	27.43	32.92	38.40	43.88	52.10	63.09
	FH x FL	40.0 x 79.0	50.0 x 79.0	60.0 x 79.0	70.0 x 79.0	80.0 x 79.0	95.0 x 79.0	115.0 x 79.0
	No. 2 Sq. Ft.	19.20	24.69	30.17	32.92	38.40	46.63	54.86
	FH x FL	35.0 x 79.0	45.0 x 79	55.0 x 79.0	60.0 x 79.0	70.0 x 79.0	85.0 x 79.0	100.0 x 79.0
	No. 3 Sq. Ft.	16.46	21.94	24.69	30.17	32.92	38.40	46.63
	FH x FL	30.0 x 79.0	40.0 x 79.0	45.0 x 79.0	55.0 x 79.0	60.0 x 79.0	70.0 x 79	85.0 x 79.0

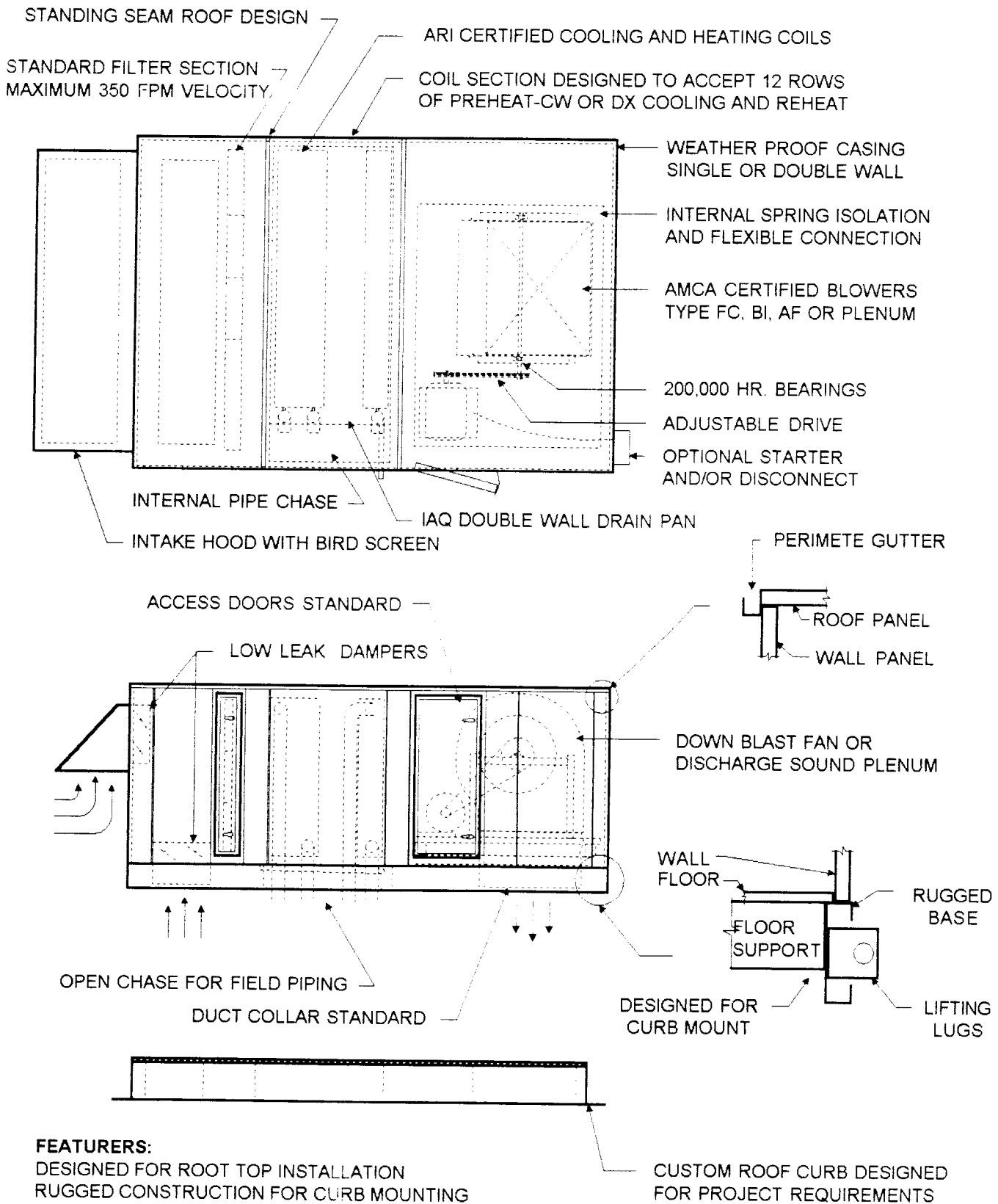
FAN SIZE	Fan A	22"	22"	25"	27"	30"	30"	36"
	Fan B	20"	20"	22"	25"	27"	27"	33"
	Fan C	20"	20"	22"	25"	27"	27"	33"
	Fan D	24"	27"	30"	33"	37"	40"	45"

NOM. CFM	350 FPM	7679	9600	11522	13440	15358	18235	22082
	400 FPM	8776	10972	13168	15360	17552	20840	25236
	450 FPM	9873	12344	14814	17280	19746	23445	28391
	500 FPM	10970	13715	16460	19200	21940	26050	31545
	550 FPM	12067	15087	18106	21120	24134	28655	34700
	600 FPM	13164	16458	19752	23040	26328	31260	37854

FLAT FILTER QUANTITY / SIZE	Sq. Ft.	27.77	41.67	52.08	62.50	69.44	74.31	74.31
		8-20 x 25 x 2	10-16 x 25 x 2	15-20 x 25 x 2	10-16 x 25 x 2	20-20 x 25 x 2	10-16 x 25 x 2	10-16 x 25 x 2
			5-20 x 25 x 2		10-20 x 25 x 2		15-20 x 25 x 2	15-20 x 25 x 2

ANGLE FILTER QUANTITY / SIZE	Sq. Ft.	69.44	86.80	104.17	104.17	121.53	138.89	138.89
		20-20 x 25 x 2	25-20 x 25 x 2	30-20 x 25 x 2	30-20 x 25 x 2	35-20 x 25 x 2	40-20 x 25 x 2	40-20 x 25 x 2

Features and Benefits

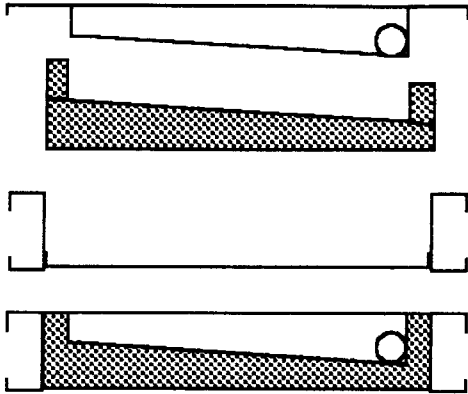


FEATURES:

- DESIGNED FOR ROOF TOP INSTALLATION
- RUGGED CONSTRUCTION FOR CURB MOUNTING
- LOW, MEDIUM OR HIGH PRESSURE CONSTRUCTION
- BOTTOM SUPPLY AND RETURN
- INTERNAL PIPE CHASE STANDARD
- ECONOMIZER AND RETURN FAN OPTIONS
- VAV OPTIONS INCLUDING VF DRIVE OR IGV

CONSTRUCTION DETAILS

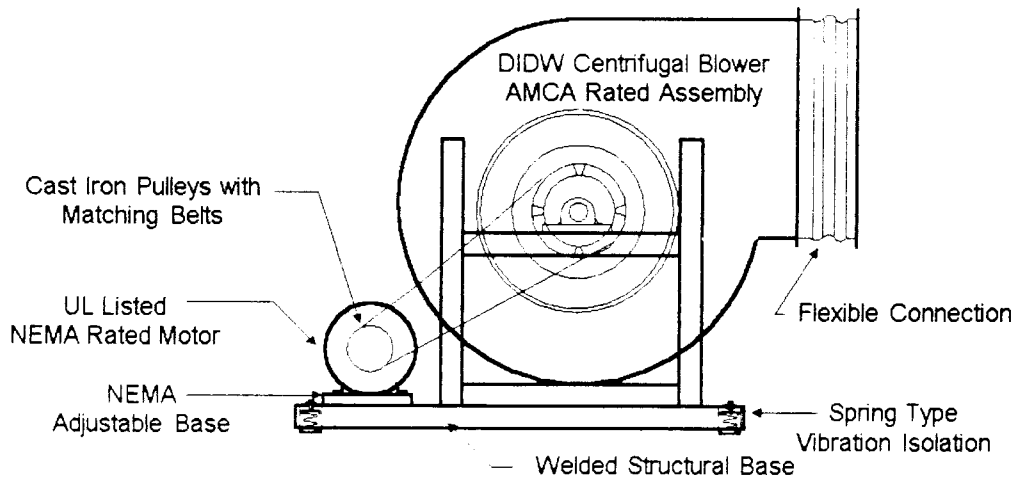
DRAIN PAN DETAILS



DRAIN PAN CONSTRUCTION

- INTERNAL MASTIC COATING OPTIONAL
- PAN LINER STANDARD GALVANIZED STEEL
OPTIONAL STAINLESS STEEL
- WELDED CONSTRUCTION
- INTERNAL SUPPORT 24" ON CENTER
- 1"- 1.5# ENCAPSULATED LINER
- FORMED STRUCTURAL BASE ENCLOSURE
- SOLID BOTTOM WELDED TO RUGGED FRAME
- DOUBLE SLOPE DESIGN MEETS IAQ STANDARDS

FAN ASSEMBLY DETAILS

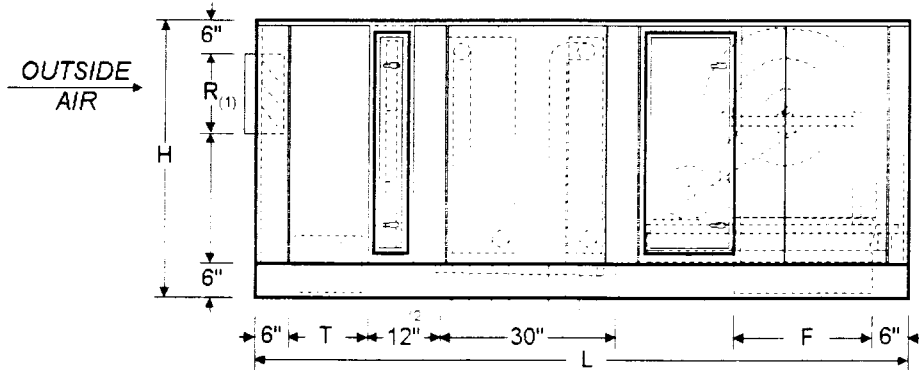
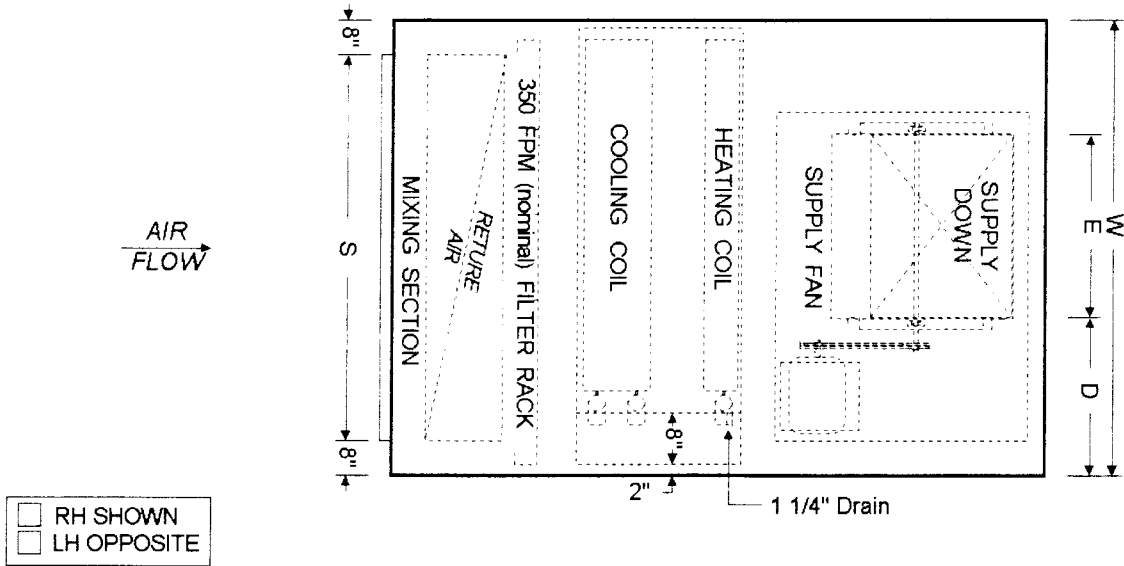


ACCESS DOORS



- FULL PERIMETER GASKET SEAL
- DOUBLE WALL CONSTRUCTION
- INTEGRAL PART OF CASING
- ACCESS TO FAN, MOTOR AND DRIVE
- LOCKING HANDLES FOR EASY SERVICE
- STAINLESS STEEL PIANO HINGE

Dimensional Data



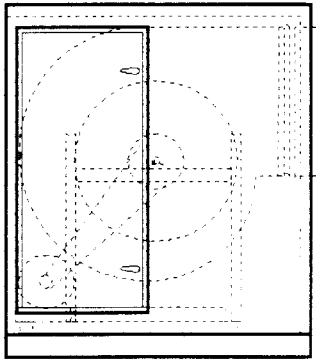
DIMENSIONS

MODEL	W	H	L	D	E	F	H	P	Q	R	S	T
03	46	32	91	20	14	14	12	24	30	12	30	12
06	58	37	97	30	14	14	12	24	30	12	42	12
08	58	47	102	30	14	14	12	24	30	12	42	14
10	65	47	107	32	16	16	12	24	30	12	49	16
12	73	47	107	34	19	19	12	24	30	12	57	16
14	81	47	107	42	19	19	12	24	30	12	65	16
17	93	47	110	45	26	26	12	24	30	12	77	16
22	102	52	112	49	29	29	14	24	30	14	86	18
27	102	62	127	49	29	29	14	24	32	14	86	24
33	102	72	140	39	32	32	14	24	36	14	86	28
38	102	82	158	36	36	36	16	24	40	16	86	32
44	102	92	167	30	40	40	18	24	46	18	86	38
52	102	107	176	30	40	40	22	24	52	22	86	44
63	102	107	228	29	45	45	26	24	62	26	86	54

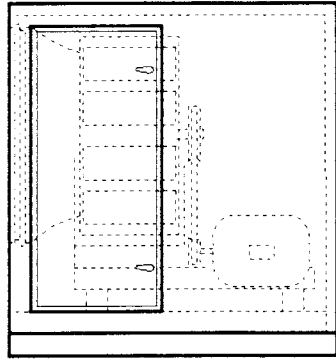
Notes:

- 1) Dimension R is increased to dimension T for 100% OA Economizer.
- 2) Increase to 24", if nominal 200 FPM angle filter section is used.

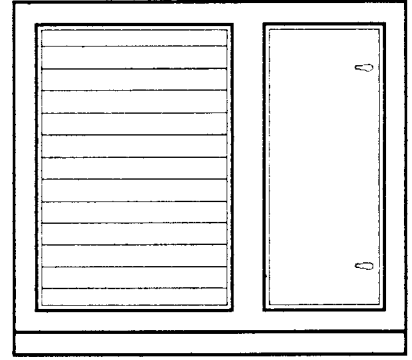
ACCESSORIES



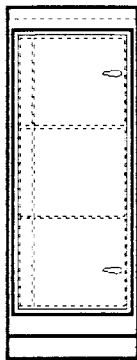
DIDW RETURN FAN



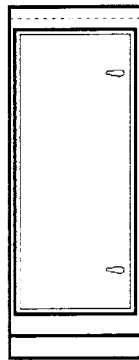
**PLENUM RETURN FAN
OR SUPPLY FAN SECTION**



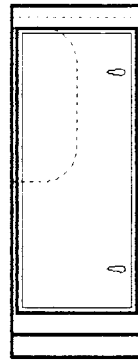
ECONOMIZER SECTION



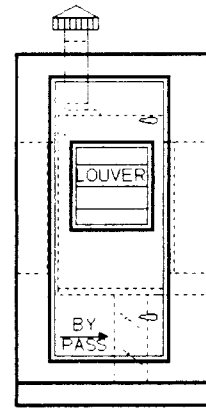
**HIGH
EFFICIENCY
FILTER**



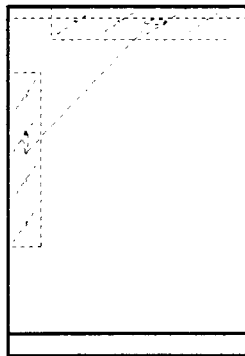
**ACCESS
SECTION**



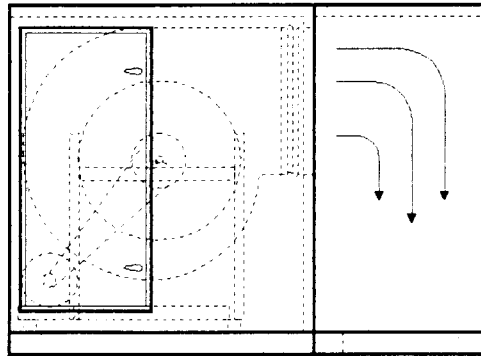
**DIFFUSER
SECTION**



**ATMOSPHERIC
GAS HEAT**



**TOP INTAKE
MIXING SECTION**



**SOUND ABSORBING
ACCOUSTICAL
DISCHARGE PLENUM**

SELECTION DATA

COIL PRESSURE DROP

(Inches WG)

VELOCITY ROWS / FPI	350 FPM		400 FPM		450 FPM		500 FPM		550 FPM		600 FPM		
	A	B	A	B	A	B	A	B	A	B	A	B	
1	8	0.05	0.08	0.07	0.10	0.08	0.12	0.10	0.15	0.11	0.17	0.13	0.20
	10	0.07	0.10	0.08	0.12	0.10	0.15	0.12	0.17	0.14	0.20	0.16	0.23
	12	0.08	0.11	0.09	0.14	0.11	0.17	0.14	0.20	0.16	0.23	0.18	0.26
	14	0.09	0.13	0.11	0.16	0.13	0.19	0.15	0.22	0.18	0.26	0.20	0.30
2	8	0.11	0.16	0.13	0.20	0.16	0.25	0.19	0.29	0.23	0.34	0.26	0.40
	10	0.13	0.19	0.16	0.24	0.20	0.29	0.23	0.35	0.27	0.40	0.31	0.47
	12	0.15	0.22	0.19	0.28	0.23	0.34	0.27	0.38	0.32	0.44	0.36	0.51
	14	0.18	0.25	0.22	0.31	0.26	0.36	0.31	0.43	0.36	0.49	0.41	0.57
3	8	0.16	0.25	0.20	0.31	0.24	0.37	0.29	0.44	0.34	0.52	0.40	0.57
	10	0.20	0.29	0.24	0.36	0.29	0.44	0.35	0.52	0.41	0.61	0.47	0.69
	12	0.23	0.34	0.28	0.42	0.34	0.50	0.41	0.59	0.47	0.69	0.51	0.76
	14	0.27	0.38	0.33	0.47	0.39	0.56	0.46	0.67	0.54	0.74	0.58	0.85
4	8	0.21	0.33	0.27	0.41	0.32	0.50	0.39	0.59	0.46	0.69	0.53	0.80
	10	0.26	0.39	0.32	0.48	0.39	0.58	0.47	0.69	0.54	0.81	0.63	0.93
	12	0.31	0.45	0.38	0.56	0.46	0.67	0.54	0.79	0.63	0.92	0.72	1.06
	14	0.35	0.51	0.44	0.63	0.52	0.75	0.62	0.89	0.71	1.03	0.82	1.18
5	8	0.27	0.41	0.33	0.51	0.41	0.62	0.48	0.74	0.57	0.86	0.66	0.99
	10	0.33	0.49	0.40	0.60	0.49	0.73	0.58	0.87	0.68	1.01	0.78	1.16
	12	0.38	0.56	0.47	0.69	0.57	0.84	0.68	0.99	0.79	1.15	0.90	1.32
	14	0.44	0.63	0.54	0.78	0.65	0.94	0.77	1.11	0.89	1.29	1.02	1.48
6	8	0.32	0.49	0.40	0.61	0.49	0.74	0.58	0.88	0.68	1.03	0.79	1.19
	10	0.39	0.58	0.49	0.72	0.59	0.88	0.70	1.04	0.82	1.21	0.94	1.40
	12	0.46	0.67	0.57	0.83	0.69	1.01	0.81	1.19	0.95	1.38	1.09	1.59
	14	0.53	0.76	0.65	0.94	0.78	1.13	0.92	1.33	1.07	1.55	1.23	1.77
8	8	0.43	0.65	0.53	0.82	0.65	0.99	0.78	1.18	0.91	1.38	1.05	1.59
	10	0.52	0.78	0.65	0.97	0.78	1.17	0.93	1.39	1.09	1.62	1.25	1.86
	12	0.61	0.90	0.76	1.11	0.92	1.34	1.08	1.58	1.26	1.84	1.45	2.12
	14	0.71	1.01	0.87	1.25	1.05	1.51	1.23	1.78	1.43	2.06	1.64	2.36
10	8	0.53	0.82	0.67	1.02	0.81	1.24	0.97	1.47	1.14	1.72	1.32	1.99
	10	0.65	0.97	0.81	1.21	0.98	1.46	1.16	1.73	1.36	2.02	1.57	2.33
	12	0.77	1.12	0.95	1.39	1.14	1.68	1.35	1.98	1.58	2.31	1.81	2.65
	14	0.88	1.27	1.09	1.56	1.31	1.88	1.54	2.22	1.79	2.58	2.05	2.95

Notes:

- 1) Pressure drop data for 1 and 2 rows is based on ARI Certified Data at 60 EAT and 100 LAT water entering at 180 and leaving at 160. Pressure drop may be different with other conditions. For exact pressure drop use ARI Certified computer selection data.
- 2) Pressure drop data for 3-10 rows is based on ARI Certified Data at 80 67 EAT & 55/54 LAT water entering at 45 degree and leaving at 55 degree. Pressure drop may be different with other conditions. For exact pressure drop use ARI Certified computer selection data.
- 3) Type A coil is smooth fin design and Type B coil is high efficient ripple fin design.

SELECTION DATA

ACCESSORY PRESSURE DROP

(Inches WG)

VELOCITY	350 FPM	400 FPM	450 FPM	500 FPM	550 FPM	600 FPM
Mixing Box	0.02	0.03	0.04	0.05	0.06	0.07
Face By Pass	0.01	0.02	0.02	0.03	0.03	0.04
Diffuser	0.04	0.05	0.05	0.06	0.07	0.08
Louver	0.02	0.04	0.04	0.05	0.08	0.10
Eliminator	0.02	0.02	0.03	0.04	0.05	0.06
Electric Heat	0.04	0.05	0.05	0.06	0.07	0.07
Intake Hood	0.05	0.06	0.08	0.09	0.10	0.12
Discharge Sect.	0.03	0.03	0.04	0.05	0.06	0.07

DAMPER PRESSURE LOSS

(Inches WG)

Damper Velocity (fpm)	400	500	600	700	800	1000	1200	1400	1600
Inlet Dampers									
Mixing Dampers	0.02	0.03	0.04	0.06	0.07	0.11	0.14	0.18	0.25
Face & By Pass									

Note: Based on damper in full open position.

FILTER PRESSURE LOSS

(Inches WG)

Filter Face Velocity (fpm)	200	250	300	350	400	450	500	550	600
2" Disposable	0.04	0.06	0.08	0.11	0.14	0.18	0.22	---	---
2" Disposable Media	0.02	0.03	0.04	0.05	0.07	0.08	0.11	0.13	0.15
2" Perm. Washable	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.12
2" Pleated 40%	0.05	0.08	0.12	0.16	0.20	0.25	0.32	---	---
2" Pleated 55%	0.14	0.20	0.25	0.32	0.39	0.44	0.50	---	---
4" Pleated 40%	0.04	0.07	0.10	0.14	0.17	0.22	0.27	0.33	0.39
4" Pleated 55%	0.05	0.08	0.12	0.16	0.20	0.25	0.32	0.36	0.40
4" Pleated 65%	0.09	0.13	0.18	0.23	0.29	0.35	0.40	0.48	0.55
4" Pleated 85%	0.15	0.21	0.28	0.34	0.42	0.50	0.58	0.72	0.85
4" Pleated 95%	0.21	0.26	0.34	0.40	0.49	0.58	0.68	0.81	0.92

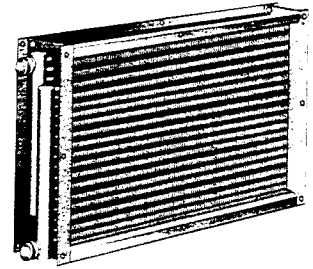
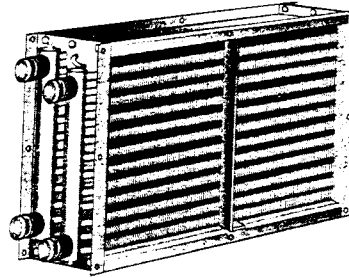
Notes:

- 1) Select equipment with a moderate filter allowance approx. midway between clean and dirty filter.
- 2) Disposable and permanent washable filters should be changed when static loss is 0.50" WG.
- 3) Pleated filters with 35 to 55% efficiency should be changed when static loss is 1.0" WG.
- 4) Pleated filters with 65 to 95% efficiency should be changed when static loss is 1.5" WG.

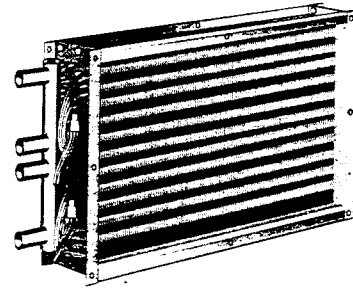
COIL DATA

SPECIFICATIONS

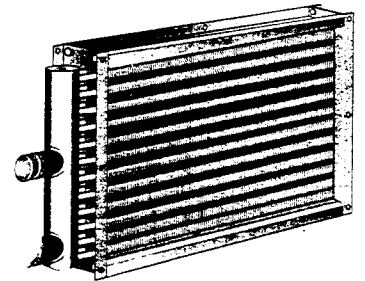
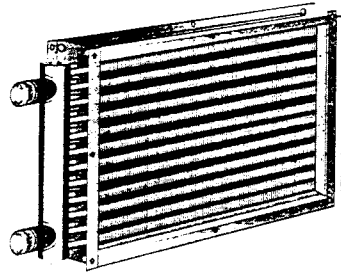
Coils are constructed of either 1/2" or 5/8" OD (1" OD steam coils optional), copper tubes on staggered centers with all joints brazed. Secondary fin material consist of rippled aluminum fins for maximum efficiency and structural strength. All fins have full drawn collars to provide a continuous surface 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 standard galvanized steel (stainless steel optional) with internal supports on all coils exceeding 45" fin length. Complete ARI Certified performance calculations are a part of each submittal.



CHILL WATER - HOT WATER

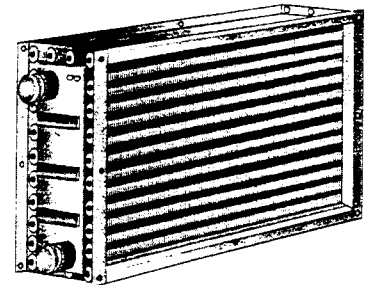
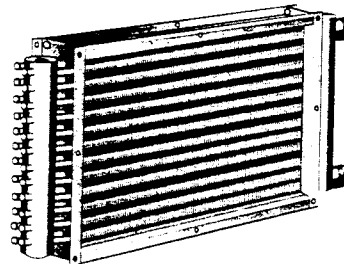


DIRECT EXPANSION

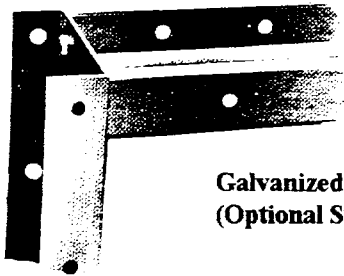


STANDARD STEAM

STEAM DISTRIBUTING

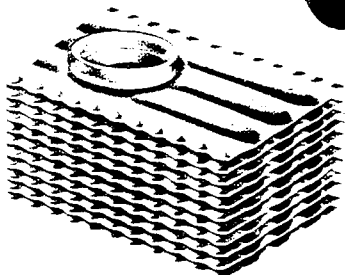
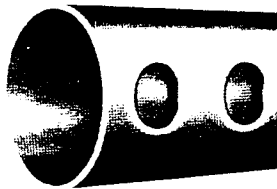


CLEANABLE



Galvanized Steel Casings
(Optional Stainless Steel)

Headers
Copper



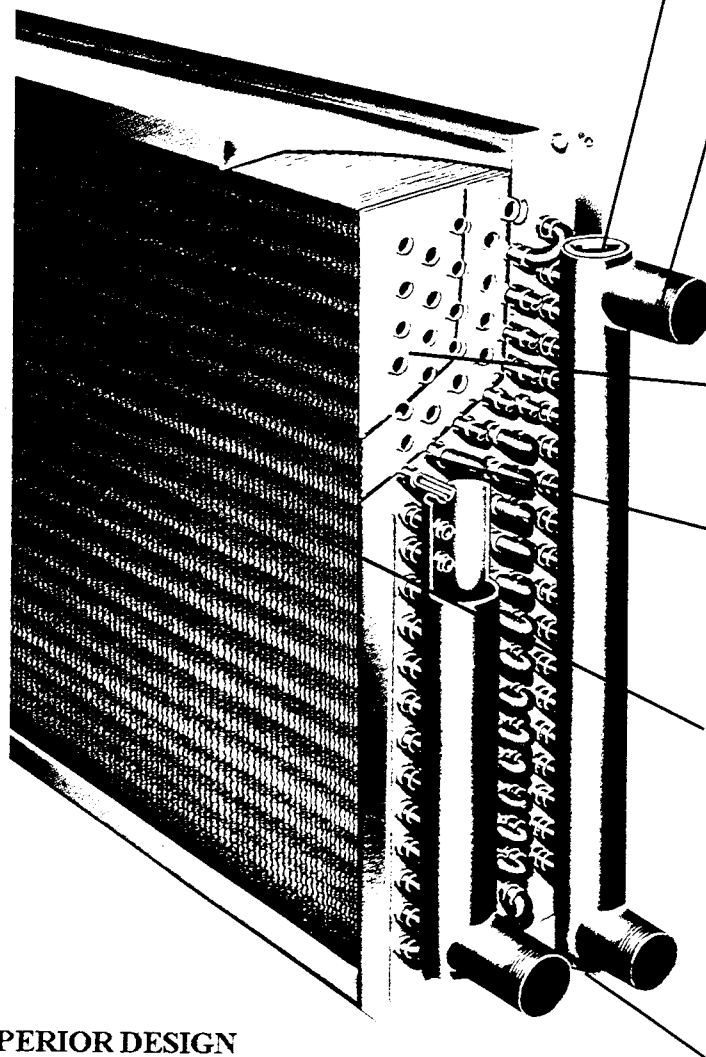
Full Drawn
Fin Collars

CONSTRUCTION FEATURERS

Coils are tested and rated in accordance with ARI Standard 410 and Certified in the ARI Certification program.

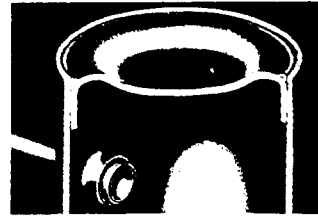
COIL DATA

QUALITY WORKMANSHIP

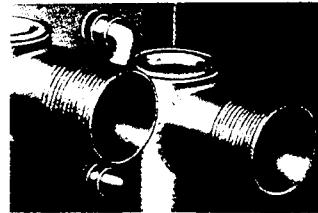


SUPERIOR DESIGN

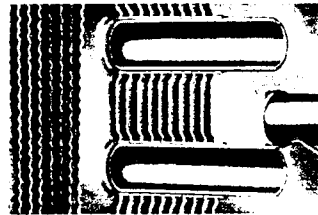
Precision die-formed end caps and intruded tube holes increase brazed joint strength for years of leak-free service.



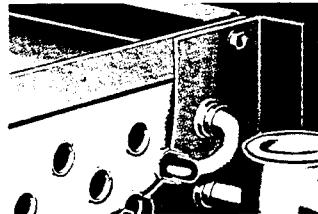
Heavy weight steel or brass threaded inlet and outlet connections for strength and durability.



Positive and controlled expansion of seamless copper or cupronickel tubing guarantees uniform heat transfer between the tube and fin.



"Made to fit" casings provide trouble-free installation. Extruded tube holes reduce coil failures where the tube contacts the casing.



Reduced operating costs, high performance or cleanability are met through a variety of fin surfaces.



Vents and drains standard on all fluid coils.



OPTIONS:

DX, Water or Steam	1/2" x 0.016 Copper tube with 0.0060 aluminum fins
DX, Water or Steam	5/8" x 0.020 Copper tube with 0.0075 aluminum fins.
Steam Distributing	1" x 0.023 Copper tube with 0.0095 aluminum fins

Optional tube thickness in 0.022 and 0.030 for 1/2" tube coils; 0.025, 0.035 or 0.049 for 5/8" tube coils with optional 0.095 aluminum fin material. All 1" OD steam distributing coils are offered only with 0.095 fin material. Special materials including cu-nickel tubes, copper fin, copper tube - copper fin solder coated and stainless steel.

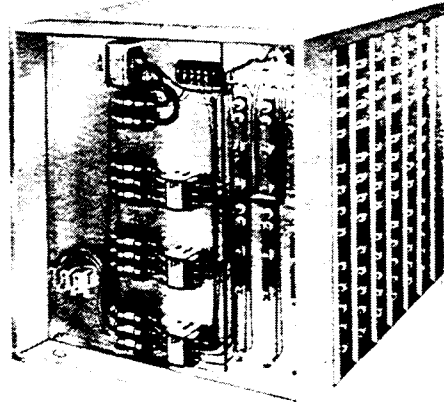
Coils are tested and rated in accordance with ARI Standard 410 and Certified in the ARI Certification program.

ACCESSORIES - ELECTRIC HEAT

Electric heaters are UL listed for duct installation. The UL label applies to the heater only, not the complete air handler.

Heaters are furnished as a separate section and are available with insulated or uninsulated casings. Controls such as contactors, fuses, etc., may be factory installed and wired in the heater section end panel provided the number of control steps is not excessive.

Remote control panels are also available.



ACCESSORIES - ELECTRIC HEAT

The standard electric heater section construction includes:

1. Automatic thermal cutout
2. Heat limiters
3. Air flow switch

Typical options for the electric heater section are:

1. Fiberglass insulation in cabinet
2. At least one magnetic contactor per step of heating (two or three pole break)
3. Three phase fuse blocks and fuses
4. Transformer with primary fusing
5. Manual reset thermal cutout in control circuit

Maximum KW per contactor and per fuse block (at least one contactor is required per step of heating):

Component	Maximum KW			
	208 V	240 V	460 V	480 V
Low amps contactor	9.0	10.4	19.9	20.8
High amps contactor	17.3	19.3	38.2	39.9
Fuse block	17.3	19.9	38.2	39.9

Electric Heater Selection Example

- A. How many KW is needed to increase temperature of 17000 CFM by 27 °F for Air Handler Model Size 34?
17000 times 27 divided by 3000 is: 153 KW IS REQUIRED
- B. How many steps required at 10°F rise per step?
300 times 153 divided by 17000 is: 2.7 STEPS ROUNDS UP TO 3 STEPS
- C. How many steps required at 460 volts with low amps contactors?
153 divided by 19.9 is: 7.7 STEPS ROUNDS UP TO 8 STEPS
- D. How many steps required at 460 volts with high amps contactors?
153 divided by 38.2 is: 4.0 STEPS
- E. How many fuse blocks required?
153 divided by 38.2 is: 4.0 FUSE BLOCKS

°F. Order the 153 KW to get the 27 degree rise.
Throw out the 3 steps (figured at 10°F rise in part B), because it is smaller than the two values figured per contactor size (parts D & E). Decide whether you want high amps or low amps contactors, if you want low amps contactors, round the 7.7 to 8 and order 8 of the low amps contactors (you now have a possible 8 steps of control). If four steps of control are satisfactory, order the high amps contactors. In either case, the application requires four fuse blocks (part E).

SPECIFICATIONS

Series: HDT -RTPC

Unit Base is constructed of galvanized steel channels sized for the service intended reinforced and braced for rigidity with an all welded construction to form a unitized assembly. The unit base is designed for curb mounting and serves as structural support for a unit designed and built for roof top applications.

Unit Casing is constructed of properly sized single wall panels fabricated of galvanized steel (minimum 18 gauge) reinforced and supported with galvanized steel angles and channels to form a rugged assembly for all components. Full service access panels are provided in each section with a full size double wall access door in the fan section complete with stainless steel piano hinge and ventlock locking devices for easy service. The casing is insulated with 1"- 1 1/2" dual density sound absorbing thermal blanket, in full accordance with ASTM C 1071 ASTM G 21, ASTM G 22, NFPA 90A and UL 181. The internal liner is secured in place with a suitable UL listed adhesive.

Drain Pan is of the double pan design, constructed of galvanized steel adequately reinforced and continuously welded, sloped to the drain connection on either side in accordance with current IAQ standards. 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 standard 16 gauge galvanized steel with internal supports on all coils exceeding 48" fin length. Coils are rated in accordance with ARI Standard 410 and Certified under the ARI Certification program.

Fans are standard, Arrangement 3, DIDW Forward Curved, selected for the service intended. All fans, shaft and bearings are complete AMCA rated assemblies. All fans are rated according to AMCA. All fan motors are factory 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 pillow block type selected for an L 50 average life of 200,000 hours. Fans and motor are mounted on a common base with internal spring isolation and a flexible connection at the fan discharge.

Motors and Drives are EPACT high efficient, open drip proof type. All drives are selected for not less than 150% of design horsepower. The motor pulley is standard up to 10 HP with a variable pitch design and fixed pitch design on 15 HP and larger.

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.

Options:

- | | | | | | |
|-----------------|--|--|--|--|---------------------------------|
| Casing Design | <input type="checkbox"/> Standard Single Wall | <input type="checkbox"/> Double Wall Construction | | | |
| | <input type="checkbox"/> Casing Thickness ___ 1" ___ 2" ___ 4" | <input type="checkbox"/> Perforated Liner | | | |
| Intake Hood | <input type="checkbox"/> Hood with bird screen | <input type="checkbox"/> Hood with mist eliminator | | | |
| Mixing Boxes | <input type="checkbox"/> No Dampers | <input type="checkbox"/> Standard dampers | <input type="checkbox"/> Low Leak Dampers. | | |
| Filter Sections | <input type="checkbox"/> Flat Filter Section | <input type="checkbox"/> Intermediate Filter Section | <input type="checkbox"/> Angle Filter Section | | |
| | <input type="checkbox"/> Bag Filter Section | <input type="checkbox"/> Rigid Filter Section | <input type="checkbox"/> Absolute Filter Section | | |
| Filter Media | <input type="checkbox"/> Disposable Filters | <input type="checkbox"/> 30% Pleated Filters | <input type="checkbox"/> Permanent Frame TA Pad | | |
| | <input type="checkbox"/> 60-65% | <input type="checkbox"/> 80-85% | <input type="checkbox"/> 90-95% | <input type="checkbox"/> 99.97% | <input type="checkbox"/> 99.99% |
| Coil Casing | <input type="checkbox"/> Standard Galvanized Steel | <input type="checkbox"/> Optional Stainless Steel | | | |
| Drain Pan | <input type="checkbox"/> Standard Galvanized Steel | <input type="checkbox"/> Optional Stainless Steel | | | |
| Discharge | <input type="checkbox"/> Down discharge | <input type="checkbox"/> UBF | <input type="checkbox"/> UBR | <input type="checkbox"/> BHD | <input type="checkbox"/> THD |
| Extra Sections | <input type="checkbox"/> Access Section | <input type="checkbox"/> Humidifier Section | <input type="checkbox"/> Discharge Section | <input type="checkbox"/> Intake Section | |
| | <input type="checkbox"/> Diffuser Section | <input type="checkbox"/> Economizer Section | <input type="checkbox"/> Return Fan | <input type="checkbox"/> Exhaust Section | |
| Exterior Finish | <input type="checkbox"/> Standard Galvanized | <input type="checkbox"/> Optional Polyurethane Gray | <input type="checkbox"/> Optional Gray Epoxy | | |
| Roof Curb | <input type="checkbox"/> Factory supplied 12" high | <input type="checkbox"/> Supplied by others | <input type="checkbox"/> Special ___" high | | |

GUARANTEE

Air Zone Industries, Inc. (AZI) warrants the products It manufacturers 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 has a limited obligation to make good, at it's factory any part or complete assembly which may fail within one year of shipment to the original purchaser. Any defective part or assembly found to be defective must be returned with transportation prepaid within one year after shipment. If the returned part or assembly is found to be defective after inspection by an authorized factory service technician, to the satisfaction of AZI, the defective part or assembly will be repaired or replaced. Warranty will be honored only after products are paid for in full, prior to their being returned for repair or replacement. Correction of any part or assembly shall constitute fulfillment of all AZI obligations to purchaser. AZI shall not be liable for loss, damage or expense directly or indirectly arising from the installation and/or use of it's products or from any other cause.

AZI assumes no liability for expense or repairs made outside of it's 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 no other liability in connection with AZI products. No warranty 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 has a continuing policy of product improvement and reserves the right to change design, materials and or construction at any time without notice

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