



TAHVIAH

AIR HANDLING UNITS

SINGLE ZONE MULTIZONE



- COMFORT
- ECONOMY
- COMPACT

- FOR :
- COOLING
 - HEATING
 - HUMIDIFYING
 - DEHUMIDIFYING
 - AIR CLEANING

In:
Hospitals, Schools, Theaters and Apartment Buildings

HEATING RATINGS CORRECTION FACTORS

TABLE 4

ENTERING HOT WATER TEMP		220	210	200	190	180	170	160	150	140	130	120
ENTERING AIR BULB	0	1.95	1.86	1.76	1.66	1.56	1.46	1.36	1.27	1.17	1.08	0.98
	10	1.86	1.76	1.66	1.57	1.47	1.36	1.27	1.17	1.08	0.98	0.90
	20	1.77	1.66	1.57	1.47	1.36	1.28	1.17	1.08	0.98	0.90	0.80
	30	1.66	1.58	1.48	1.38	1.28	1.17	1.08	0.98	0.90	0.80	0.70
	40	1.58	1.49	1.38	1.28	1.17	1.08	0.98	0.90	0.80	0.70	0.60
	50	1.49	1.38	1.28	1.20	1.09	0.99	0.90	0.80	0.70	0.60	0.51
	60	1.38	1.28	1.20	1.10	1.00	0.91	0.81	0.70	0.60	0.51	0.41
	70	1.28	1.21	1.10	0.98	0.91	0.82	0.71	0.61	0.51	0.41	0.32
80	1.22	1.11	0.98	0.92	0.82	0.72	0.61	0.51	0.41	0.32	0.24	
<p>FACE VELOCITY FACTOR : TO DETERMINE HEATING RATINGS AT VARIOUS COIL FACE VELOCITY , FOR EACH 50 F.P.M.</p> <p>VARIATION , ADD OR DEDUCT 5%</p>												

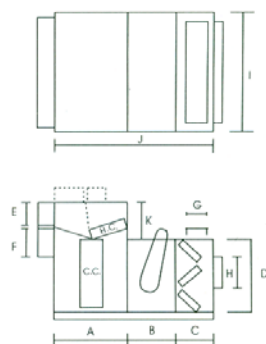
COOLING RATINGS CORRECTION FACTORS

TABLE 5

FACE VELOCITY F.P.M.	ROW	ENTERING AIR WET BULB DEG . F										ENTERING CHILLED WATER FACTOR : ONE DEGREE F. DE- CRESE IN ENTERING CHILLED WATER TEMPERATURE , WILL INCREASE COOLING RATINGS 4% AND VICE WERSA
		65	66	67	68	69	70	71	72	73	74	
400	3	0.87	0.92	0.98	1.03	1.09	1.12	1.20	1.29	1.36	1.42	
	4	0.82	0.84	0.94	0.99	1.08	1.12	1.20	1.28	1.36	1.40	
	6	0.79	0.78	0.84	0.95	1.09	1.12	1.19	1.20	1.35	1.32	
	8	0.78	0.83	0.86	0.93	1.09	1.11	1.19	1.16	1.34	1.30	
450	3	0.90	0.96	0.98	1.00	1.12	1.20	1.35	1.47	1.45	1.48	
	4	0.88	0.93	0.97	1.06	1.12	1.18	1.34	1.49	1.45	1.46	
	6	0.86	0.91	0.97	1.03	1.11	1.16	1.34	1.51	1.44	1.42	
	8	0.86	0.91	0.97	1.03	1.12	1.14	1.35	1.52	1.43	1.38	
500	3	0.87	1.00	1.06	1.14	1.20	1.27	1.39	1.41	1.46	1.51	
	4	0.92	0.99	1.03	1.12	1.20	1.25	1.39	1.40	1.45	1.50	
	6	0.92	0.98	1.03	1.12	1.19	1.24	1.37	1.39	1.45	1.50	
	8	0.92	0.99	1.03	1.12	1.19	1.23	1.36	1.37	1.44	1.49	
550	3	0.98	0.99	1.00	1.18	1.24	1.33	1.40	1.47	1.54	1.60	
	4	0.98	0.99	1.00	1.18	1.24	1.33	1.40	1.46	1.53	1.60	
	6	0.98	0.98	1.00	1.17	1.23	1.32	1.39	1.46	1.53	1.59	
	8	0.98	0.97	1.00	1.16	1.22	1.31	1.38	1.45	1.52	1.58	
600	3	1.05	1.10	1.20	1.35	1.38	1.40	1.48	1.52	1.56	16.00	
	4	1.08	1.10	1.20	1.34	1.37	1.40	1.47	1.51	1.56	1.59	
	6	1.07	1.10	1.19	1.34	1.36	1.39	1.47	1.49	1.54	1.57	
	8	1.06	1.09	1.18	1.33	1.35	1.37	1.46	1.48	1.53	1.56	

TWO FAN MULTIZONE UNIT

UNIT	A	B	C	D	E	F	G	H	I	J	K	Iso-lator	No . Of zone
2T-1-M	110	65	75	85	25	35	50	50	180	240	45	6	6
2T-2-M	110	75	94	95	25	35	50	50	220	279	45	6	10
2T-3-M	120	85	94	95	30	40	60	60	265	299	45	6	10
2T-4-M	125	94	94	115	30	40	60	60	290	313	50	8	10
2T-5-M	140	100	120	135	35	45	80	80	290	360	55	8	10
2T-6-M	165	110	150	165	40	55	100	100	310	425	60	8	10
2T-7-M	190	120	150	195	55	70	120	120	322	460	75	12	14
2T-8-M	220	130	150	220	75	90	120	120	350	500	75	12	14



F. HUMIDIFIERS

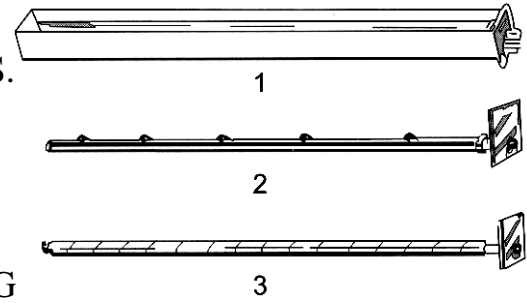
TAHVIEH HAMOON HUMIDIFIERS ARE FABRICATED IN THREE TYPES TO MEET ALL HUMIDITY REQUIREMENTS.

STEAM VAPOR PAN TYPE CONSISTS OF A PAN IN WHICH A FLOAT VALVE MAINTAINS A CONSTANT WATER LEVEL. THE WATER IS HEATED AND EVAPORATES INTO THE AIR STREAM.

WATER SPRAY IS A SERIES OF INDIVIDUAL SELF-CLEANING BRASS NOZZLES WHICH EJECTS A SPRAY OF WATER INTO THE AIR STREAM.

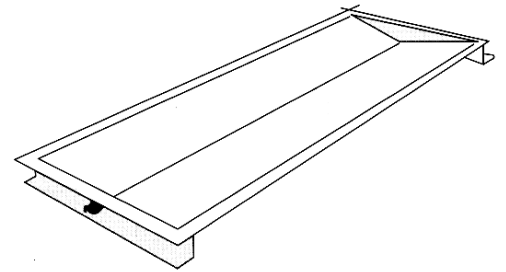
THIS HUMIDIFIER IS EQUIPPED WITH FILTER.

STEAM GRID TYPE INTRODUCES THE CORRECT AMOUNT OF STEAM INTO THE HEATED AIR STREAM.



G. ACCESSORIES

1. ZONE DAMPER IS DESIGNED TO CONTROL TEMPERATURE OF CONDITIONED SPACE.
2. DRIP PAN – WIDE SLIP DRIP PAN, EQUIPPED WITH DRAIN CONNECTION. IS MADE OF HEAVY GAGE GALVANIZED STEEL.
THIS PAN IS SUPPLIED FOR ALL COOLING COILS.
3. ACCESS DOOR – AIR TIGHT ACCESS DOORS ARE FURNISHED IN ALL TAHVIEH AIR HANDLING UNITS TO ALLOW EASY INSPECTION OF INTERNAL PARTS.
4. VIBRATION ISOLATOR – RUBBER – IN – SHEAR OF SPRING TYPE VIBRATION ISOLATOR IS OPTIONALLY SUPPLIED FOR ALL UNITS.



TAHVIEH HAMOON OFFERS AIR HANDING UNITS, BOTH SINGLE – ZONE (T-S) AND MULTIZONE (T-M), MODELS FOR RESIDENTIAL, COMMERCIAL AND INDUSTRIAL APPLICATIONS.

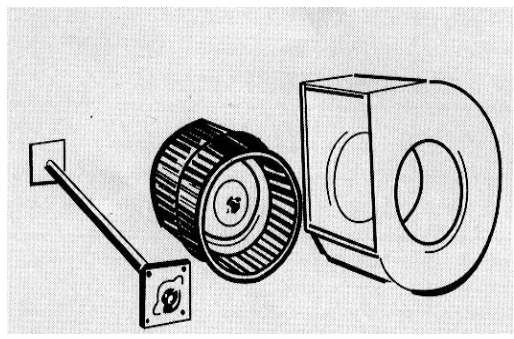
THE UNITS ARE DESIGNED AND CONSTRUCTED USING MODERN TECHNIQUES AND ARE OFFERED AT MINIMUM COST WITH ON TIME DELIVERY. THE CASINGS OF ALL UNITS ARE FABRICATED OF HEAVY GAUGE GALVANIZED STEEL SHEETS WITH ONE INCH INSULATION TO MINIMIZE HEAT TRANSFER AND NOISE LEVEL. THE NOISE LEVEL IS IN FACT, SO LOW, AS TO GIVE QUIET AND COMFOROTABLE AIR TO SUCH PLACES AS CONFERNCE HALLS, THETERS, SCHOOLS, HOSPITALS, AND RESIDENTIAL BUILDINGS.

TAHVIEH HAMOON SINGLE AND MULTIZONE AIR HANDING UNITS ARE MANUFACTURED OVER A WIDE CAPACITY RANGE, 3000 THRU 42000 C F M WITH A FULL LINE OF ACCESSORIES. APPLICATIONS INCLUDE HEATING, COOLING HUMIDIFYING DEHUMIDIFYNG AND AIR CLEANING. CUSTOM BUILT UNITS, IN NONSTANDARD SIZED AND FOR SPECIAL APPLICATIONS CAN ALSO BE SUPPLIED. TAHVIEH HAMOON UNITS CAN BE ADAPTED TO EXISTING SUPPLY, RETURN. AND FRESH AIR DUCT CONNECTIONS. FOR FURTHER INFORMATION PLEASE CONTACT THE **TAHVIEH HAMOON** FACTORY WHERE OUR ENGINEERS WOULD BE GLAD TO ASSIST YOU WITH ANY INQUIRIES YOU MAY HAVE



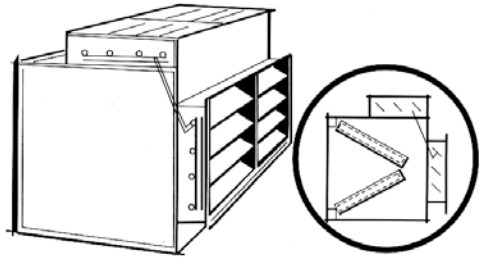
A . FAN SECTION

TAHVIEH HAMOON COMPACT FAN HOUSING IS CONSTRUCTED OF GALVANIZED STEEL. FAN WHEELS ARE STATICALLY AND DYNAMICALLY BALANCED, TO GIVE A SMOOTH AND QUIED OPERATION. FAN SHAFTS GIVE A STEADY, TRUE RUN SUPPORT TO THE FAN WHEEL WHITH MINIMUM VIBRATION AND NOISE LEVEL. **TAHVIEH HAMOON** FANS ARE DOUBLE WIDTH, DOUBLE INLET AND FULLY HOUSED CENTRIFUGAL BLOWERS.



B . MIXING BOX

TAHVIEH HAMOON MIXING BOXES ARE FURNISHED WITH OR WITHOUT DAMPER FRAME AND LINKAGE.PLASTIC BUSHINGS ARE PROVIDED FOR ALL BLADES TO ACCRUE LOW TOROUUE FOR DAMPER APPLICATION. FOR SPACE SAVING, COMBINED MAXING BOX AND FILTER IS FABRICATED FOR ALL UNITS. MIXING BOXES ARE AVAILABLE FOR ALL **TAHVIEH HAMOON** AIR HANDING UNITS.



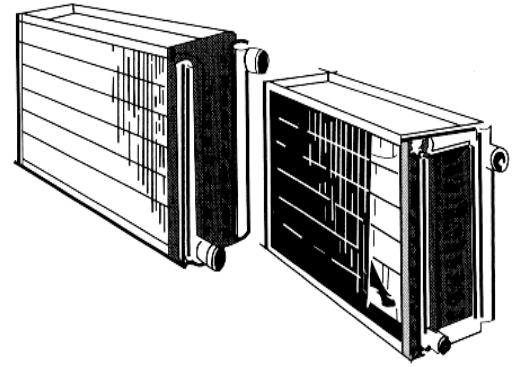
C. COILS

TAHVIEH HAMOON COILS ARE ENGINEERED AND CONSTRUCTED TO BE USED FOR HOT WATER, CHILLED WATER, STEAM, AND REFRIGERANT APPLICATIONS.

ALL STANDARD TAHVIEH HAMOON COILS ARE FABRICATED FROM 5/8" O.D SEAMLESS COPPER TUBING TO PROVIDE MAXIMUM HEAT TRANSFER EFFICIENCY WITHOUT EXCESSIVE AIR FRICTION.

THE COMBINATION OF COPPER TUBING AND MECHANICALLY BONDED ALUMINUM FINS PROVIDE HIGHEST HEAT TRANSFER RATE.

ALL COILS ARE TESTED AT 200 P.S.I TO INSURE RELIABLE PERFORMANCE AND LONG SERVICE LIFE . TUBING SIZE, CIRUTING, AND. CONNECTIONS ARE ENGINEERED TO MEET THE LOAD CONDITIONS OF EACH PARTICULAR COIL, PROVIDING THE HIGHEST EFFICIENCY AND HEAT TRANSFER WITH MINIMUM WATER PRESSURE DROP. ALL STANDARD UNITS ARE FURNISHED WITH SINGLE CIRCUIT COILS.

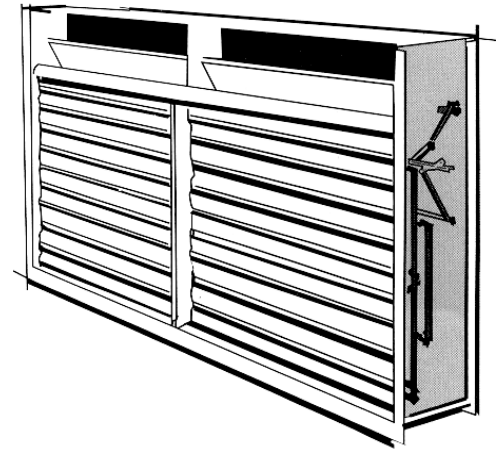


D . FACE AND BY – PASS DAMPER

TAHVIEH HAMOON FACE AND BY – PASS DAMPER SECTION PERMITS ACCURATE AIR MOUDULATION AND CLOSE TEMPERATUURE CONTROL.

BY – PASS SECTION IS SIZES FOR 100% AIR BY – PASS. FOR AUTOMATIC APPLICATIONS, TAHVIEH HAMOON FACE AND BY – PASS DAMPER CAN EASILY BE COUPLED TO ELECTRIC DAMPER MOTOR. FACE AND BY – PASS DAMPERS ARE AVAILABLE IN TWO EXTERNAL AND INTERNAL MODELS.

TAHVIEH HAMOON FACE AND BY - PASS DAMPERS ARE FABRICATED FOR ALL UNITS.

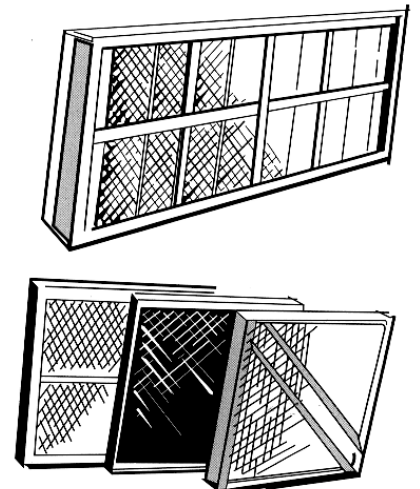


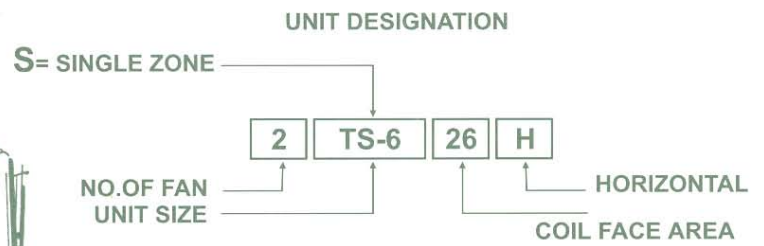
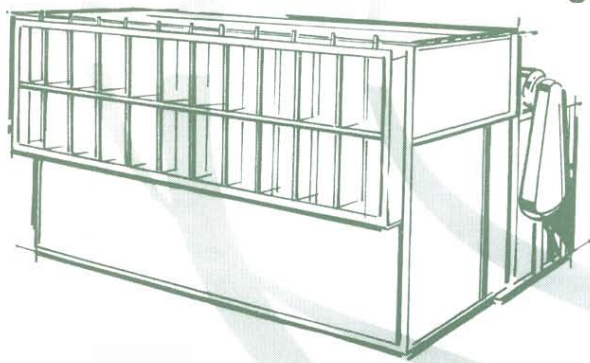
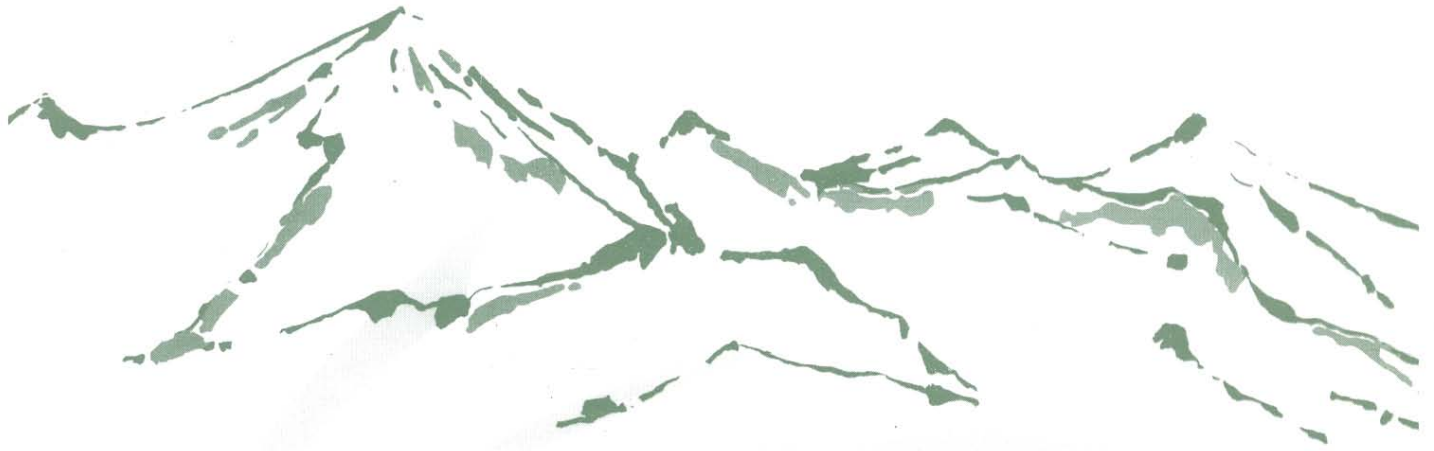
E . FILTER SECTION

TAHVIEH HAMOON FILTER SECTION ARE FABRICATED GALVANIZED STEEL , COMPACTLY DESIGNED FOR MAXIMUM FILTER AREA. ACCESS DOORS ON

BOTH ENDS SIMPLIFY SERVICING AND ALLOW FILTER REMOVAL FROM EITHER END. FILTER FRAMES ARE POSITIONED IN SLIDE CHANNELS.THROWAWAY MEDIA, LONG LASTING WASHABLE AND PLASTIC FILTER ELEMENTS ARE FABRICATED BY TAHVIEH HAMOON FACTORY.

FILTER SECTIONS ARE OPTIONALLY AVAILABLE FOR ALL UNITS.





IT BRINGS THE CLIMATE OF ALBORZ TO YOUR HOME

