

## MAXIMUM MOISTURE CONTENT OF OUTDOOR AIR BY LOCALITY

STATE and CITY	PINTS PER 1000	STATE and CITY	PINTS PER 1000	STATE and CITY	PINTS PER 1000	STATE and CITY	PINTS PER 1000
ALABAMA		INDIANA		NEBRASKA		SOUTH CAROLINA	
Birmingham	1.23	Indianapolis	1.20	Lincoln	1.09	Charleston	1.36
Mobile	1.40	IOWA		Omaha	1.20	TENNESSEE	
ARIZONA		Des Moines	1.23	NEW JERSEY		Memphis	1.32
Phoenix	1.16	KANSAS		Atlantic City	1.28	Nashville	1.28
Tucson	.99	Wichita	1.16	NEW YORK		TEXAS	
ARKANSAS		KENTUCKY		New York City	1.20	Dallas	1.23
Little Rock	1.36	Louisville	1.23	Rochester	1.13	Houston	1.32
CALIFORNIA		LOUISIANA		NORTH CAROLINA		San Antonio	1.32
Los Angeles	.96	New Orleans	1.40	Raleigh	1.28	VIRGINIA	
San Diego	.99	MARYLAND		Richmond	1.28	WASHINGTON	
San Francisco	.79	Baltimore	1.28	Seattle	.75	WASHINGTON D.C.	
CONNECTICUT		MASSACHUSETTS		Cincinnati	1.23		
Hartford	1.20	Boston	1.16	Cleveland	1.13		
FLORIDA		MICHIGAN		Columbus	1.16		
Miami	1.32	Detroit	1.13	OKLAHOMA			
GEORGIA		MINNESOTA		Tulsa	1.23		
Atlanta	1.20	St. Paul	1.16	OREGON			
Savannah	1.36	MISSOURI		Portland	.84		
ILLINOIS		Kansas City	1.20	PENNSYLVANIA			
Chicago	1.16	St. Louis	1.23	Philadelphia	1.23		
Moilne	1.23			Pittsburgh	1.05		

### AMOUNTS OF MOISTURE CONTAINED IN AIR

AIR TEMP. DEG. F.	ACTUAL RELATIVE HUMIDITY OF AIR IN %						
	90	80	70	60	50	40	30
PINTS OF WATER CONTAINED IN 1,000 CU. FT. OF AIR							
100	2.56	2.28	2.00	1.71	1.43	1.14	.86
95	2.22	1.98	1.73	1.48	1.23	.99	.74
90	1.92	1.71	1.49	.128	1.07	.85	.64
85	1.65	1.47	1.29	1.10	.92	.74	.55
80	1.42	1.28	1.10	.95	.79	.63	.47
75	1.21	1.08	.95	.81	.68	.54	.41
70	1.03	.92	.80	.69	.57	.46	—
65	.88	.78	.68	.59	.49	—	—
60	.75	.68	.58	.50	.41	—	—

### INFILTRATION FACTORS

BUILDING TYPE	INFILTRATION FACTORS	
	Minimum	Maximum
Normal Factory Building	½	1½
Normal Commercial Building	½	1½
Good Frame Construction	1	2
Poor Frame Construction	1½	3
Corrugated Iron Construction	1½	3

Use "Minimum" if building has few or no windows, etc.  
Use an intermediate factor if the building has an average number of tight windows.  
Use "Maximum" if building has many windows.

### MOISTURE FROM PEOPLE

TYPE OF ACTIVITY	MOISTURE PER PERSON
Seated at rest	0.15 pints/hour
Office Work	0.25 pints/hour
Light Factory Work	0.5 pints/hour
Moderate Heavy Factory Work	0.7 pints/hour
Heavy Factory Work	1.0 pints/hour

This table assumes 70°-80°F. indoor Temperatures. For 90° increase values by 10%; for 100° increase values by 25%.

### MOISTURE FROM OPEN WATER TANKS

WATER TEMPERATURE DEGREES F.	WATER EVAPORATED - PINTS PER HOUR PER SQ. FT. OF WATER SURFACE
70	0.02 Pints
80	0.05 Pints
100	0.13 Pints
120	0.27 Pints
140	0.50 Pints
160	0.83 Pints
180	1.37 Pints

This table assumes relative Still Room Air at 80°F. Temperature and 50%Relative Humidity.

### CNI ELIMINATOR DEHUMIDIFIER SELECTION

ROOM AIR TEMP. °F	WATER REMOVAL IN PINTS PER HOUR AT DESIRED RELATIVE HUMIDITY %						
	100	90	80	70	60	50	40
105	*	12.1	11.8	10.5	9.0	7.2	5.6
100	12.3	11.9	11.3	9.8	9.3	6.9	5.2
95	12.0	11.5	10.9	9.5	8.6	6.5	4.8
90	11.6	11.0	10.4	9.1	7.6	6.0	4.2
85	11.4	10.5	9.6	8.4	6.9	5.4	3.5
80	10.7	9.8	8.7	7.6	6.3	4.8	2.9
75	9.9	8.9	7.9	6.7	5.5	4.1	2.5
70	9.1	8.2	7.0	5.6	4.2	2.7	1.3
65	8.2	7.3	6.2	4.5	3.0	1.8	0.8
60	7.2	6.2	4.9	3.4	2.0	1.2	*
55	6.3	5.2	3.8	2.1	1.2	*	*
50	5.2	4.0	2.8	1.3	*	*	*

NOTE: Reduce tabular ratings by 1/7th when operating on 50-cycle current. Net sensible heat gain to space is approx. 3500 BTUH.

\* Equipment will not operate at these conditions.