

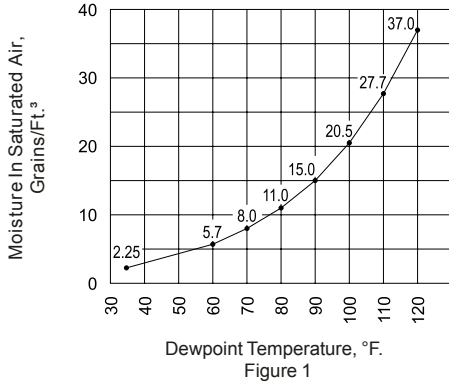
# Plant Water Load Calculations

**INLET OPERATING CONDITIONS**

Inlet Flow Rate \_\_\_\_\_ SCFM (14.7 psid @ 70°F)  
 Inlet Pressure \_\_\_\_\_ PSIG  
 Inlet Temperature \_\_\_\_\_ °F

Customer Name \_\_\_\_\_  
 Inquiry Reference \_\_\_\_\_  
 PPC Quote Reference \_\_\_\_\_

$$\text{Gal. H}_2\text{O/day} = \text{SCFM} \times \frac{14.7}{P + 14.7} \times \frac{T + 460}{460 + 70} \times \frac{\text{Gr.}}{\text{Ft.}^3} \times \frac{1}{7000 \text{ gr/\#}} \times 60 \text{ min/hr} \times 24 \text{ hrs/day} \times \frac{1}{8.4 \text{ \#/ gal.}}$$



120	5.3	4.7	4.2	3.8	3.4	3.2	2.9	2.7
110	5.2	4.6	4.1	3.7	3.4	3.1	2.9	2.7
100	5.1	4.5	4.0	3.6	3.3	3.1	2.8	2.6
90	5.0	4.4	3.9	3.5	3.3	3.0	2.8	2.6
80	4.9	4.3	3.9	3.5	3.2	2.9	2.7	2.5
70	4.8	4.3	3.8	3.4	3.1	2.9	2.7	2.5
60	4.7	4.2	3.8	3.4	3.1	2.8	2.6	2.4
	60	70	80	90	100	110	120	130

Gr./Ft.<sup>3</sup> @ -40F = .04

SAMPLE:  $\frac{\text{SCFM} \times \text{Figure 1} \times \text{Figure 2}}{1000} = \text{Gal./Day}$

Gal./day Downstream of Aftercooler: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gal./day  
 1000

Gal./day Downstream of Deliquescent: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gal./day  
 1000

Gal./day Downstream of Refrigerant: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gal./day  
 1000

Gal./day Downstream of Desiccant: \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gal./day  
 1000

OPERATING CONDITIONS	SCFM _____	Pressure _____	Temp. _____
DRYER TYPE	DEW POINT		H <sub>2</sub> O REMAINING
AFTERCOOLER			
DELIQUESCENT			
REFRIGERANT			
DESICCANT			