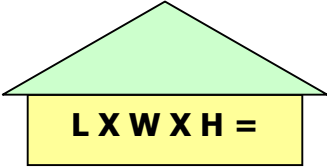


Dehumidification Formula

The following formula is for starting conditions only and should be modified as psychrometric conditions dictate.

<p>STEP 1 Determine the cubic footage (ft³) of the environment to be dried.</p> <p>$L \times W \times H$ (10 x 14 x 8 = 1120 ft³)</p>					
<p>STEP 2 Determine which class (rates) of evaporation</p> <p>Class: 1. No carpet & pad 2. With carpet & pad 3. Water from above; wet walls >24" high 4. Specialty/Bound water</p>	<p>CLASS</p>	<p>1 Slow</p>	<p>2 Fast</p>	<p>3 Fastest</p>	<p>4 Bound Water</p>
<p>STEP 3 Choose the dehumidifier(s) to be used</p> <p>If both conventional and LGR refrigerants are to be installed, use the calculation for conventional refrigerants</p>	<p>Conventional Refrigerant</p>	<p>100</p>	<p>40</p>	<p>30</p>	<p>N/A</p>
	<p>LGR Refrigerant</p>	<p>100</p>	<p>50</p>	<p>40</p>	<p>50</p>
	<p>Desiccant</p>	<p>1</p>	<p>2</p>	<p>3</p>	<p>2</p>
<p>STEP 4 Do the Math</p>	<p>Conventional and LGR: Step 1: (cft) ÷ Step 2: (class factor) = _____ AHAM Pints needed minimum Step 3: AHAM Pints needed ÷ Dehu AHAM Rating = # of Dehus needed</p> <p>Desiccant: Step 1: (cft) ÷ Step 2: (class factor) = (Total) ÷ 60 = _____ CFM needed Step 3: CFM needed ÷ Dehu CFM Rating = # of Dehus needed</p>				
<p>Example</p> <p>Illustration is Class 3</p>	<p>Conventional: 1120 cft ÷ 30 = 37 AHAM Pints needed minimum to start the job</p> <p>Desiccant: 1120 cft X 3 = 3360 ÷ 60 = 56 CFM needed minimum to start the job</p>				

Dehumidifiers Water Removal Ratings		
Dehumidifier	AHAM Rating (80°/60%RH/24 hours)	CFM
DrizAir 1200	64 PT/Day (30 L)	227
LGR Evolution	70 PT/Day (33 L)	160
LGR 2000	110 PT/Day (52 L)	360
Desiccant 150		110