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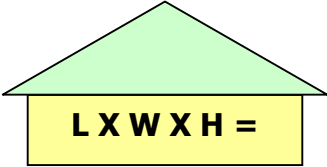
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Dehumidification Formula

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. L x W x H (10 x 20 x 8 = 1600 ft³)</p> |  | | | | |
| <p>STEP 2 Determine which class (rates) of evaporation 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 All Gap Power Dehumidifiers are the LGR refrigerant type</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 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 Illustration is Class 3</p> | <p>LGR Refrigerant: 1600 cft ÷ 50 = 32 AHAM Pints needed minimum to start the job (i.e. one LGR Evolution (DEH17) at 70 Pint capacity would be plenty) (Use fans to circulate air and push moisture into air so dehumidifier can remove it)</p> | | | | |

| Dehumidifiers Water Removal Ratings | | |
|-------------------------------------|----------------------------------|-----|
| Dehumidifier | AHAM Rating (80°/60%RH/24 hours) | CFM |
| LGR Evolution | 70 PT (8.75 gal)/Day (33 L) | 160 |
| LGR 7000 | 130 PT (16.25 gal) /Day (61L) | 325 |

Credit for chart: www.countryrestoration.com (Battle Ground, WA) 360-546-3259