

DXAIR INDOOR POOL DESIGN GUIDELINES

EVAPORATION RATES



Evaporation Rate Table Using the US Department of Energy Simulation Method

| Evaporation Rates in Lbs/Hr per Sq Ft of Pool Surface Area | | | | | | | | | | | | | | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Water Temp | 76° | 78° | 80° | 82° | 84° | 86° | 88° | 90° | 102° | 104° | | | | | | | | | | |
| Air Temp | Relative Humidity (RH) ■ is 50% RH ■ is 60% RH | | | | | | | | | | | | | | | | | | | |
| 72° | .0341 | .0288 | .3830 | .0330 | .0427 | .0374 | .0474 | .0421 | .0523 | .0470 | .0574 | .0521 | .0630 | .0577 | .0688 | .0635 | .1112 | .1059 | .1196 | .1143 |
| 74° | .0323 | .0266 | .0364 | .0307 | .0408 | .0352 | .0455 | .0399 | .0504 | .0448 | .0556 | .0499 | .0611 | .0555 | .0670 | .0613 | .1093 | .1036 | .1178 | .1121 |
| 76° | .0303 | .0242 | .0345 | .0284 | .0389 | .0328 | .0436 | .0375 | .0485 | .0424 | .0536 | .0476 | .0592 | .0531 | .0650 | .0590 | .1074 | .1013 | .1158 | .1097 |
| 78° | .0282 | .0218 | .0324 | .0259 | .0368 | .0303 | .0415 | .0350 | .0464 | .0399 | .0515 | .0451 | .0571 | .0506 | .0629 | .0565 | .1053 | .0988 | .1137 | .1072 |
| 80° | .0260 | .0191 | .0302 | .0233 | .0346 | .0277 | .0393 | .0324 | .0442 | .0373 | .0494 | .0424 | .0549 | .0480 | .0607 | .0538 | .1031 | .0962 | .1115 | .1046 |
| 82° | .0237 | .0163 | .0279 | .0205 | .0323 | .0249 | .0370 | .0296 | .0419 | .0345 | .0470 | .0396 | .0526 | .0452 | .0584 | .0510 | .1008 | .0934 | .1092 | .1018 |
| 84° | .0212 | .0134 | .0254 | .0175 | .0298 | .0219 | .0345 | .0266 | .0394 | .0315 | .0446 | .0367 | .0501 | .0422 | .0559 | .0481 | .0983 | .0904 | .1067 | .0989 |
| 86° | .0186 | .0102 | .0228 | .0144 | .0272 | .0188 | .0319 | .0235 | .0368 | .0284 | .0420 | .0336 | .0475 | .0391 | .0533 | .0449 | .0957 | .0873 | .1041 | .0957 |
| 88° | .0169 | .0069 | .0210 | .0111 | .0354 | .0155 | .0301 | .0202 | .0350 | .0251 | .0402 | .0302 | .0457 | .0358 | .0516 | .0416 | .0939 | .0840 | .1024 | .0924 |
| 90° | .0130 | .0034 | .0171 | .0076 | .0215 | .0120 | .0262 | .0167 | .0311 | .0216 | .0363 | .0268 | .0418 | .0323 | .0477 | .0381 | .0900 | .0805 | .0985 | .0889 |
| 92° | .0099 | .0002 | .0141 | .0039 | .0185 | .0083 | .0232 | .0130 | .0281 | .0179 | .0332 | .0231 | .0388 | .0286 | .0446 | .0345 | .0870 | .0768 | .0954 | .0852 |

All temperatures listed are in degrees Fahrenheit