

Bulletin # 3

Pool Heat for Space Heating

Heating the space with the pool is counterproductive for humidity control and energy efficiency. A hot pool creates an evaporation rate of the water which is accelerated and can almost double. The humidity levels are dramatically raised in the pool room, and the dehumidification system will either continually run to try and keep up with the added load and fall short of meeting the desired humidity and temperature desired. Over the long term, this excessive humidity and moisture can create mold, mildew, glass and frames dripping, damage to drywall and other surface areas; as well as cause corrosion and rust within the structure and to the dehumidification system.

A primary heat source is provided with each DXair system we build. This can be an inline natural gas or propane duct furnace, a hot water coil (if you have a high temperature boiler), a steam coil, electric heat, or geothermal. These heat sources are built into the supply duct coming off your dehumidifier that moves air to the pool room. The primary heat source is always required with your packaged heat recovery dehumidification system to maintain design temperatures and conditions, comfort levels, and to ensure warm air is circulated through your air delivery system to keep glass and other surfaces dry and free of condensation.

Do not purchase free standing furnaces or other heat sources for your room until you have discussed your requirements with us as you may not be able to use them with this system due to non-compatibility with these installations.

Note: where Physical Therapy, Rehab, Swimming & Diving Schools and other elderly facilities may use warmer water (water warmer than air temperature) – this is taken into consideration and each system is sized according to their unique requirements. A pool cover is always recommended for all indoor pools when feasible to do so.

The Perfect Balance of Water and Air

DXair Dehumidifiers are designed exclusively for use in all indoor swimming pool applications: from lap pools, schools, large hotel/resort indoor swimming pools, where humidity needs to be controlled with dehumidification to prevent deterioration of the pool enclosure.

For more information, contact DXair.
www.dxair.com 800/514-7051