Design Checklist for Traditional Pools*

Having a checklist comes in handy when designing complex jobs. Seresco is pleased to provide this dehumidification design checklist for your convenience.

KEY DESIGN CONCERNS FOR TRADITIONAL POOLS*:

 Operating conditions in writing from end user (pool water temperature, room air temperature). 	6. Condensation and Vapor Migration○ Vapor barrier on the warm side of the dew point
2. System supply CFM delivers 4-6 air changes per hour.The room volume dictates the supply CFM.Supply air gets to the 'breathing zone'	temperature in all walls, ceiling and floors All exterior windows, doors and skylights are fully blanketed with supply air (3-5 cfm per sq ft)
Return duct location compliments supply duct	7. Energy & LEEDs Considerations
 No short circuiting 	○ Energy Standard 90.1 – pool water heating option
 3. Outdoor air CFM per Standard 62 Baseline: 0.48 CFM/ft² of water and wet deck for regular pool Add 7.5 CFM per spectator (swimmers are not considered spectators and are covered in the 	 Heat recovery between the minimum OA and minimum EA Condensate reclaim System refrigerant charge reduction – Protocol Design
baseline OA CFM)	8. Swim Meet Mode
4. Exhaust Air Room is at slight negative pressure (0.05 to 0.15inches of water column) 110% the outdoor air CFM is generally recommended Source capture contaminants:	 Number of spectators and competitors expected? Spectator areas 6-8 air changes supply air to spectator seating areas Micro climate via separate air handler for larger spectator areas
Evacuator system onsite?	9. Service and Maintenance
 Exhaust air drawn from above the whirlpool or any other warm or highly active water area 	 Internet monitoring Unit is accessible
5. Load Calculation	 Unit has adequate service clearance
 Latent load (pools, OA and spectators) Sensible cooling load has been calculated for the space design temperature Heating load has been calculated for the space design temperature and includes OA 	

LOAD CALCULATION DETAILS

POOL DESIGN DATA							
	POOL #1	POOL #2	POOL #3	POOL #4	POOL #5		
Type of Pool (Lap, Spa)							
Surface Area (ft²)							
Water Temperature (°F)							
Room Design Temp:	# of Spectators:		Room Volume (ft³):				



^{*} Please contact factory for Waterparks and pools heavy with water features. Design standards have been established for 'traditional' bodies of water and do not adequately address the special needs of these facilities.