



UNIVERSITY OF MAINE AT FARMINGTON



Owner: University of Maine at Farmington

Scope of Work: HVAC Renovations/Commissioning

Location: Farmington, Maine

A failed mechanical refrigeration air handler designed to deliver 8,000 CFM was removed at the UMF pool. The replacement unit is now providing airflow of 12,000 CFM to improve the ventilation effectiveness within the space. An alternative approach was selected using a non-refrigerated, passive heat pipe, heat exchanger ventilation only unit to significantly reduce operating costs, with small penalties in hours of operation where the indoor air temperatures will be above the normal set-point of 86°F.

A significant factor in making this system feasible is the desired elevated indoor air temperature of 86°F for the facility. The actual number of hours the outside air will be above the pool room conditions is extremely low, so that the unit can be installed without a sensible air conditioning unit.

Turner Building Science & Design also acted as commissioning agent for the new mechanical systems.

