



PROJECT SUCCESS OBM ICE ARENA

DEHUMIDIFICATION SYSTEM



FOCESS

ENGINEERING PROCESS

FACTS:

- INDOOR ICE ARENA
- 2 ENCLOSED ICE RINKS
- R-22 REPLACEMENT WITH AMMONIA
- DEHUMIDIFICATION SYSTEM REPLACEMENT
- DEMOLITION & INSTALLATION REQUIRED

OBJECTIVES:

- REPLACE CENTRAL DEHUMIDIFICATION UNIT WITH 2-NEW UNITS (1 PER RINK)
- IMPROVE AIR QUALITY FOR SKATERS AND SPECTATORS IN EACH RINK
- ELIMINATE CONDENSATION INSIDE EACH ICE RINK
- ELIMINATE FOGGY CONDITIONS
- ELIMINATE CONDENSATION ON DASHER BOARDS FOR IMPROVED SPECTATOR VISIBILITY
- IMPROVE ENERGY EFFICIENCY
- ELIMINATE NEED FOR AIR-CONDITIONING UNIT

CHALLENGES:

- DEMOLITION OF OLD UNIT
- DEMOLITION OF OLD PLUMBING & DUCTWORK
- TUNNEL ENCLOSURE TO LOCKER ROOMS
- TUNNEL ENCLOSURE BETWEEN RINKS



STARTUP & SERVICE

- SYSTEM INSTALLATION & STARTUP
- SITE ACCEPTANCE TESTING
- ONGOING SERVICE AND PREVENTATIVE MAINTENANCE

ENGINEERED SOLUTION



- PACKAGED DEHUMIDIFICATION UNIT
- MODEL #DH148
- ADVANCED SILICA-GEL DESICCANT DEHUMIDIFICATION
- DIRECT-FIRED NATURAL GAS REACTIVATION SYSTEM
- SUPPLY AIR: CFM @ ESP = 7,500 @ 2.0 W.C.
- REACTIVATION AIR: CFM @ ESP = 2,025 @ 0.0 W.C.
- HEAT SOURCE: DIRECT FIRED NATURAL GAS

ADDITIONAL PROJECT FEATURES:

DEMOLITION & REMOVAL OF OLD EQUIPMENT
PLUMBING OF GAS LINES
AIR HANDLING DUCTWORK
ELECTRICAL WIRING

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