
		SINGLE ICE RINK EQUIPMENT BUDGET		BUDGET Rink Size: 200' x 85' x 28' Date: 5/19/2023
A	REFRIGERATION/MECHANICAL OPTIONS			PRICE
1	(1)-200 HP WATER-COOLED HIGH EFFICIENCY CHILLER COMPLETE WITH 2 SCREW COMPRESSORS, FLOODED EVAPORATOR, DUAL REFRIGERANT CIRCUITS, ELECTRONIC EXPANSION VALVES, & MICROPROCESSOR CONTROL PANEL			
2	INDUSTRIAL COOLING TOWER, COMPLETE WITH GALVANIZED STEEL TOWER STAND, VFD CONTROLLED TOWER FAN, AND CONTROL MODULE			
3	CONDENSER WATER MECHANICAL SYSTEM: COMPLETE WITH CIRCULATION PUMP, PIPING, VALVES, PRESSURE GAUGES, CONNECTING PIPING, HEAT TRACE, PIPE INSULATION, AND PVC JACKETING			
4	VARIABLE FLOW RATE PUMP STATION: COMPLETE WITH (2) GLYCOL PUMPS, ELECTRICAL PANEL, STARTERS, HAND/OFF/AUTO SWITCHES, WYE STRAINER, EXPANSION TANK, AND VALVES			
5	SECONDARY REFRIGERANT FIELD MATERIALS INCLUDING ALL CONNECTING PIPING BETWEEN CHILLER AND PUMPSKID, GAUGES, THERMOMETERS, PIPE HANGERS, INSULATION, AND PVC JACKETING			
6	SUBSOIL MECHANICAL: PUMP, HEAT EXCHANGER, CONNECTING PIPING, PRESSURES GAUGES, AND CONTROLS			
7	SNOW MELTING PIT GRID: 2" SCH 40 STEEL PIPING COMPLETE WITH MOUNTING APPARATUS			
8	SNOW MELTING PIT HEAT EXCHANGER, CONNECTING PIPING, AND CIRCULATION PUMP			
9	ETHYLENE GLYCOL SECONDARY FLUID CHARGE			
	MECHANICAL TOTALS			\$ 531,589
B	200' x 85' x 28' RINK FLOOR			PRICE
1	FROST SHIELD SUB SOIL HEATING SYSTEM: 2" SDR 11 HEADERS, 1" SDR 11 TUBING SPACED 18"C/C. ALL CONNECTIONS MADE USING FUSION WELDING TECHNOLOGY			
2	PLACEMENT AND LEVELING OF FINES OVER SUB-SOIL HEATING SYSTEM			
3	3 EPS RIGID RINK FLOOR INSULATION AND VAPOR BARRIERS			
4	100' RUN OF 6" SDR 11 TRANSMISSION MAINS COMPLETE WITH URETHANE INSULATION AND PVC JACKETING			
5	FUSION ICE 4 OC RINK PIPING SYSTEM COMPLETE WITH 6wRR" DIAMETER HEADER, TUBING, AND ALL INSTALLATION HARDWARE			
6	5" THICK CONCRETE RIINK SLAB: SUPPLY, PLACEMENT, FINISH, TESTING, AND CURING			
7	CONCRETE RINK FLOOR MATERIALS: #4 REBAR SPACED EVERY 12" LENGTH X WIDTH, 6X6 WIRE MESH, WIRE TIES, EXPANSION JOINT, AND SEALANT			
	RINK FLOOR TOTALS			\$ 582,557
C	DASHERBOARDS			PRICE
1	TITAN SERIES STEEL DASHERBOARDS COMPLETE WITH 1/2 POLY WHITE FACING, 1/2 POLY COLOR KICKPLATE, 3/4 POLY COLOR CAPRAIL			
2	6' x 5/8" TEMPERED GLASS AT RINK ENDS, 6' x 1/2" TEMPERED GLASS ON BLEACHER SIDE, 6' x 1/2" TEMPERED GLASS ON PLAYERS BOX SIDE. GLASS ON RINK ENDS IS SUPPORTED BY 2 PIECE ALUMINUM HOOK MOUNTING SYSTEM GLASS ON RIDE SIDES IS SUPPORTED BY 2 PIECE ALUMINUM HOOK MOUNTING SYSTEM			
3	10 TOTAL ACCESS GATES AND (0) 5' HINGED EQUIPMENT DOORS			
4	78' OF PLAYERS, PENALTY AND SCOREKEEPERS BOXES COMPLETE WITH 36' OF DIVIDER PANELS, 78' OF ELEVATED PLAYERS BOXES INCLUDING RUBBER MATTING, POLY PLAYERS BENCHES WITH STEEL PEDESTALS AND STANDARD SCORERS TABLE			
5	INCLUDES CAST IN PLACE DASHER ANCHORS			
6	BLACK NYLON ABOVE GLASS NETTING SYSTEM. INCLUDES NETTING AT RINK ENDS AND SPECTATOR SIDE. COMPLETE SYSTEM WITH ALL MOUNTING HARDWARE AND CONDUIT			
	DASHERBOARD TOTALS			\$ 270,862
D	DEHUMIDIFICATION			PRICE
1	5,800 CFM DESICCANT DEHUMIDIFICAITON SYSTEMS WITH CTR DAMPER TO ALLOW FOR 100% OUTSIDE TREATED AIR TO MEET ASHRAE 62 GUIDELINES FOR FRESH AIR			
2	SINGLE INDOOR AIR QUALITY (IAQ) SYSTEM			
	DEHUMIDIFICATION TOTALS			\$ 109,572
E	GENERAL CONDITIONS AND ICE PAINTING			PRICE
1	EQUIPMENT UNLOADING/INVENTORY			
2	SHOOT FLOOR FOR ELEVATIONS			
3	CLEANUP (DUMPSTERS BY OTHERS)			
4	WHITE ICE PAINT - BASE COAT AND INCLUDES ICE MAKING FOR FIRST SKATEABLE ICE SHEET			
5	COLORED - PAINT FOR ICE MARKINGS AND GOAL CREASES			
6	TRAINING			
	GENERAL CONDITION TOTALS			\$ 41,200
TOTAL PRICE: SECTIONS A, B, C, D, & E				\$ 1,535,780
F	OPTIONS			PRICE
1	HEAT RECLAMATION SYSTEM: DISCHARGE GAS DESUPERHEATERS AND LIQUID TO LIQUID PLATE AND FRAME HEAT EXCHANGERS			\$ 40,000
2	ADD TO CONVERT REFRIGERATION PLANT FROM A FREON BASED SYSTEM TO AMMONIA BASED (ADD TO BASE)			\$ 400,000
3	DEDUCT TO CONVERT REFRIGERATION PLANT TO A FULLY SELF-CONTAINED AIR COOLED SYSTEM (SUBTRACT FROM BASE)			\$ (104,958)
4	DEDUCT TO CONVERT CONCRETE BASED FLOORS TO SAND BASED FLOORS (SUBTRACT FROM BASE)			\$ (180,000)
5	3/8" WHITE DASHER BACKING AROUND ENTIRE RINK (ADD PER RINK)			\$ 28,000
6	NEW PROPANE ICE RESURFACER BUDGET			\$ 130,000
7	PRE-OWNED PROPANE ICE RESURFACER BUDGET			\$ 60,000
8	GAS POWERED ICE EDGER			\$ 4,200
9	PAIR OF HOCKET GOAL FRAMES INCLUDING NETTING AND FENDERS			\$ 1,400
10	RENTAL SKATES			\$85/PAIR
11	TRIPLE STATION SKATE SHARPENER			\$ 35,000
12	RECYCLED RUBBER FLOORING - INCLUDES ADHESIVE AND INSTALLATION			\$9/FT2
13	DUAL VULCANIZED RUBBER FLOORING - INCLUDES ADHESIVE AND INSTALLATION			\$25/FT3
Notes: Unless noted, all materials are quoted labor and materials with the installation performed by Everything Ice (EI) in accordance with the EI Specification Booklet provided and EI standard terms & conditions. Material only options are unloaded and installed by others under the optional supervision by EI at a prescribed per diem rate plus travel and living expenses. The installation charges are tabulated on a 7 day work week working up to 10 hours per day. Restricted work hours could result in added costs. Installation shall provide a finished ice rink with arena personnel trained in its operation. All domestic (lower 48) projects include shipping to the job site F.O.B. Factory. All quotes are good for 30 days and subject to change without notice beyond this period. Prices do not include costs for shipping, permits, fees, any applicable sales/use taxes, or provision for prevailing wages unless expressly stipulated. Standard payment terms apply: 50% at agreement, 45% prior to shipping, and 5% prior to ice making. If, during the performance of the contract, the price of material, labor or transportation costs significantly increases, through no fault of the contractor, the price shall be equitably adjusted by an amount reasonably necessary to cover any such significant price increases. As used herein, a significant price increase shall mean any increase in price exceeding 2% experienced by contractor from the date of the contract signing. Such price increases shall be documented through quotes, invoices, or receipts. Where the delivery of material, labor or transportation is delayed, through no fault of the contractor, as a result of the shortage or unavailability of goods, materialmen or reasonable means of transportation, contractor shall not be liable for any additional costs or damages associated with such delay(s).				

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SCOPE CLARIFICATIONS (X= EXCLUDED, INCL.=INCLUDED, N.A.=NON APPLICABLE, ALT.=ALTERNATE)		
GENERAL CONDITIONS		
X	Permits	
X	Stamped drawings	
X	Sales taxes	
X	Shipping	
X	Site preparation, soil/civil engineer services as needed	
X	Soil stabilization as stipulated by soil engineer	
X	Site drainage and dewatering	
X	Debris/trash removal/dumpster	
X	Cost of generator if required for small tools	
X	Cost of electric through construction	
X	Ventilation and/or utility design for ice resurfacer room	
X	Adequate lighting, protection from water run off, snow removal	
INCL	Provide training session to arena personnel and service contractor	
X	Proper rough grade elevation as specified in project drawings +/- 1"	
X	Rink perimeter concrete in place prior to rink floor construction. +/-1/8" over 10'	
REFRIGERATION/MECHANICAL SYSTEMS		
INCL	Unloading/Rigging and Placement of Chiller	
INCL	Unloading/Rigging and Placement of Condenser/Cooling Tower	
INCL	Water cooled chiller	
ALT	Air cooled chiller	
INCL	Evaporative Condenser/Cooling tower	
X	Chemical water treatment	
INCL	Ethylene glycol	
INCL	PumpStat variable flow pumpskid	
X	Concrete slab for cooling tower/evaporative condenser	
X	Main 3ph electrical supply to chiller including all conduit, power wiring and fused disconnects	
X	1" water supply line for cooling tower/evaporative condenser/sump tank	
INCL	Structural stand for cooling tower/evaporative condenser	
X	Heat trace materials (Wire, Control, Insulation) and electrical supply for condenser water piping	
INCL	Snow melting pit grid, heat exchanger, pump and glycol (pit by others)	
ALT	Heat reclaim system: desuperheaters, plate and frame heat exchangers, controls	
X	Heat reclaim supporting equipment: Holding tanks, boiler, interconnecting piping and pumps	
INCL	System pressure testing, start up and commissioning	
HVAC & DEHUMIDIFICATION SYSTEMS		
INCL	Desiccant Dehumidifier	
INCL	Unloading/Rigging and placement of Dehumidifier	
X	Roof curbs/Concrete slab for dehumidifier	
X	Duct sock for desiccant type dehumidifier	
X	Duct work for desiccant type dehumidifier	
INCL	Indoor air quality sensor package	
X	Cutting, coring and patching of wall or floor penetrations	
RINK FLOOR SYSTEMS		
INCL	System pressure testing, start up and commissioning	
X	Excavation of spoils from transmission line trench	
X	Backfilling of material and capping of transmission line trench	
X	Supply of limestone shavings or compactable sand for lower grading	
INCL	Frost shield header and tubing	
INCL	Frost shield mechanical: heat exchanger and pump	
INCL	Expanded insulation and vapor barriers	
INCL	Fusion Ice rink piping system (HDPE headers and u bends)	
INCL	Floor sensor	
INCL	Rink pipe chairs	
INCL	Wire mesh, rebar, wire ties & expansion joint	
INCL	5" thick concrete rink slab	
INCL	Place and finish of concrete rink slab	
INCL	Pumping of concrete for rink slab	
INCL	Testing of concrete during pour	
DASHERBOARDS		
INCL	Steel framed hockey dashers	
ALT	3/8" HDPE poly backer panels	
INCL	Above glass netting - rink ends	
INCL	Above glass netting - rink sides	
INCL	Tempered glass shielding	
INCL	Players boxes	
INCL	Penalty boxes	
INCL	Scorekeepers box	
INCL	Glass shielding around entire players, penalty and scorekeepers boxes	
INCL	Benches in players, penalty and scorekeepers boxes	
INCL	Rubber matting in players, penalty and scorekeepers boxes	
X	Coaches walkway in players boxes	
INCL	Wooden subfloor for players, penalty and scorekeepers boxes	
INCL	Water bottle shelf in players boxes	
INCL	Aluminum 2 piece uprights with gaskets	
INCL	Table in scorekeepers box	
ACCESSORIES		
INCL	White ice paint	
INCL	Line kit for hockey markings	
INCL	Painting and installation of ice markings	
X	Additional ice making over paint/ice markings	
X	Center ice logo	
X	Ice making hoses	
ALT	Ice resurfacer	
X	Hot water system for ice resurfacer	
ALT	Hockey goals	
INCL	Marsh pegs	
ALT	Ice edger	
ALT	Arena rubber flooring	
ALT	Rental skates	