



April 7, 2025

Quote #: 24-182-2

Todd Ferrario  
Weber Ice Sheet  
4390 Harrison Blvd  
Ogden, UT 84403

**Subject: New Chiller and Compressors Revision 2**

We are pleased to provide this proposal for replacing (2) Compressors and (1) Chiller. The new chiller will be similar to chiller #2. There are three different compressor options provided.

**Basis of Design:**

The existing system has (3) compressors capable of 211 TR at the conditions below. The base bid replaces the (2) Mycom compressors with the largest Frick compressor option. The total capacity with all three compressors running would be 307 TR, which is a 45% increase in capacity. A comparison of the compressors is provided below.

Compressor Comparison					
	Compressor	Capacity TR (ea)	Motor HP (ea)	Total Capacity TR	Increase (%)
Existing	Mycom	71.4	125	211	-
Base Bid	RXF-85	119.2	175	306.8	45.4%
Option 1	RXF-68	94.6	150	257.9	22.2%
Option 2	RXF-58	78.7	125	225.8	7.0%

**Major Equipment:**

- (2) Frick RXF-85 Compressor:
  - 119.2 TR / 170.5 BHP @ -3°F SST and 85°F SCT
  - 175 HP Motor with Solid State Starter
- (1) Chiller
  - 183 TR @ +10°F SST
  - 1,400 gpm 21% calcium chloride
  - 21.6°F to 18°F

Option 1: (2) Frick RXF-68 Compressor:

- 94.6 TR / 136.1 BHP @ -3°F SST and 85°F SCT
- 150 HP Motor with Solid State Starter

Option 2: (2) Frick RXF-58 Compressor:

- 78.7 TR / 114.8 BHP @ -3°F SST and 85°F SCT
- 125 HP Motor with Solid State Starters

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**Detailed Scope of Work:**

- Pump down system multiple times to install isolation valves in the following lines:
  - Compressor isolation valves
    - (2) 4" HSD, (2) 5" LTS, (2) 1-1/4" ES, (2) 2" TSS, (2) 2" TSR
  - Chiller isolation valves
    - (1) 1-1/2" HPL
- Remove chiller #1, compressor #1, and brine pumps
- Demo existing equipment pads and install new concrete pads
- Set new chiller, compressor and brine pumps (reuse existing brine pumps)
- Connect chiller and compressor to tie-in valves
- Startup compressor #1 and Remove compressor #2
- Demo existing equipment pad and install new concrete pad for second compressor
- Set new compressor in place and connect compressor to tie-in valves
- Insulation of piping and chiller, including pipe gel
- Pull vacuum on sections of the system and pressure test with reduced pressure
- Tag and label complete system
- Startup of equipment as it is available is included
- Conduct PHA, MOC and PSSR for the project
- Brine crossover piping will be installed so both rinks can run off either chiller
  - The brine piping for the Olympic chiller will be reinsulated in the compressor room
- Repair the existing ventilation system (replace motor and belts)
- Install a new ammonia detection system to meet code requirements
- Replace all existing relief valves (current valves are out of date and need to be replaced)
- Replace (1) Bell and Gossett pumps with a new pump and rebuild the (2) existing pumps
  - (1) Pump to be a spare
- Replace the underfloor pump with new pump
- Replace existing drift eliminators for condenser and install a new float
- Provide closeout documentation at the completion of the project for the complete system:
  - Energy Balance
  - Inventory calculation
  - Ventilation calculation
  - Relief System calculation
  - Updated P&IDs with block flow, valve schedule and equipment information



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**Project Costs:**

Major Equipment: .....	\$ 359,502.00
Material:.....	\$ 67,913.00
Freight: .....	\$ 31,750.00
Engineering, Project Management and PSM: .....	\$ 55,600.00
Construction and Service Labor: .....	\$ 208,675.00
Insulation: .....	\$ 82,500.00
Subcontractors (rentals and crane): .....	\$ 62,375.00
Ventilation.....	\$ 8,600.00
Ammonia Detection:.....	\$ 21,732.00
RV Replacement:.....	\$ 7,128.00
Brine Pumps and underfloor pump: .....	\$ 36,537.00
Condenser Drift Eliminators:.....	\$ 27,100.00
<b>Total: .....</b>	<b>\$ 969,412.00</b>

**Exclusions:**

- Building Permits & Fees
- Electrical - All power and controls wiring
- Seismic bracing and associated engineering
- Additional refrigerant not included
- Any additional labor or materials due to a pump-out delay caused by existing valves not providing sufficient isolation.

**Special Conditions:**

- This proposal will be executed when a signed copy is received indicating its acceptance, including the Terms & Conditions (included below).
- This proposal contains proprietary information that is not to be shared to compete with Louis A. Roser Company, except after payment to Louis A. Roser Company for said information.
- Payment Terms: 30% Down Payment of total job cost is required. Monthly progress billing thereafter is due Net 30 days from invoice date. A fee of 5% per month per invoice will be imposed on all late payments. Invoices not paid within 90 days will be referred to a collection agency. By signing this agreement, you hereby agree to these terms.
- This proposal is good for thirty (30) days.



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**Purchase Order/Contract Number:** \_\_\_\_\_  
(If required and/or available)

**Sign:** \_\_\_\_\_ **Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

***Customer signature and date of acceptance***

*(Signing affirms that you agree with this document and all references within it.)*

**Print Name:** \_\_\_\_\_ **Print Title:** \_\_\_\_\_  
*Please print the name and title of the person who signed the signature of acceptance.*

We appreciate the opportunity to offer this proposal and hope you find it favorable. Feel free to contact us at any time if you have any questions or comments concerning this proposal, or any of your refrigeration needs. Thank you.

Best regards,  
Adam Thomas, P.E.  
[athomas@laroser.com](mailto:athomas@laroser.com)  
385-524-8005  
L.A. Roser Company





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## GENERAL

## Terms & Conditions

1. All sales are expressly limited to these Terms and Conditions, and the rights of the parties shall be governed exclusively by the terms and conditions hereof.
2. Seller agrees to arrange for shipment of goods to Buyer from the Port of Delivery and to notify Buyer of the shipment date; however, freight and costs of loading are for the account of the Buyer.
3. The risk of loss of goods sold under this Agreement shall pass to Buyer as soon as the goods are loaded into transportation equipment at the shipping point.
4. Title to the goods shall pass to Buyer when he obtains physical possession of them.
5. The shipping date and delivery specified are subject to any priorities and allocations necessitated by governmental orders or regulations and the time and manner of delivery is subject to any delay on the part of Buyer in supplying necessary data, or any changes therein at Buyer's insistence, and to delays caused by fires, floods, strikes, lockouts, riots, war, breakdowns, priorities or Embargo's, accidents, civil or military authority, shortage of labor, delays in suppliers of material, difficulty in obtaining raw materials, in any other cause beyond Seller's reasonable control. Delay of delivery for any of the aforementioned causes shall proportionately extend the time of delivery hereunder. Seller shall be compensated for any and all extra costs and expenses occasioned by delays attributable to Buyer. Every effort will be made to fill orders within the time stated, but under no circumstances will Seller be responsible for or Buyer entitled to consequential damages arising out of or owing to any delays in delivery whatsoever.
6. Buyer shall pay Seller the amount of any excise, sales, privilege, use, or other taxes, local, State, or Federal which arises from the sale or delivery of the products covered by this order, or in lieu thereof, Buyer shall provide Seller with a tax exemption certificate acceptable to taxing authorities.
7. The price indicated in the Agreement covering Seller manufactured materials is firm for a period of thirty (30) days from the date of this Agreement. **With respect to those items not of Seller's manufacture, upon which firm prices have not been obtained, Seller will pass on the same escalation provision as are made a part of Seller's purchase order.**
8. The order placed as a result of this contract cannot be canceled or altered, nor can deferred deliveries of goods completed or in process or extended beyond the original specified delivery dates, except with the Seller's express written consent upon terms which will indemnify Seller against loss.
9. Goods returned without written permission of Seller will not be accepted for credit and will be returned to Buyer, F.O.B. Seller's warehouse. Expenses incurred to Buyer in repairing or replacing any defective product will not be allowed except by written permission of Seller.
10. Specialty items that are not regularly stocked are not returnable and non-refundable.
11. Returned products must include all packaging material and will be subject to a restocking fee of 20%.
12. Payment and terms are Net 30 days. A service charge at the rate of 1% per month (12% per annum), or the maximum rate allowed by law, whichever is less, will be charged for all past due amounts.
13. Payments not received from Buyer within 90 days for parts and services will have their account with all unpaid invoices turned over to a third party collection agent. Buyer is fully responsible to pay 35% collection costs and any associated attorney fees together with costs of court.
14. **Payments not received for equipment and/or parts installed or services performed at Buyer's facility will be subject to contractor's lien as permitted under local, State, and/or Federal regulations.**

## WORKING ON-SITE

1. The Louis A. Roser Company excludes all PSM / RMP plan development and / or modification, including Management of Change (MOC) and Standard Operating Procedures (SOP), unless otherwise stated in the Scope above. Any facility specific paperwork or forms required as a result of this work are the sole responsibility of the Buyer.
2. The Louis A. Roser Company can assist you with your facility Plan requirements after a Change Order has been issued for this additional work.
3. Safety in the work we perform is our highest priority. If any pump-outs of equipment, and / or tie-ins to the system piping are included in the Scope of this project, the Buyer is required to provide a representative trained in the refrigeration system, and familiar with the facilities safety and evacuation procedures, including ventilation, leak detection, and alarm systems, to be on site observing the work being performed.
4. **The Louis A. Roser Company PPE safety equipment requirements will supersede the Buyer's facility requirements. Our experienced and trained employees must have unhindered vision and freedom of movement for egress when opening any part of the refrigeration system to atmosphere.**

## DELIVERY

1. Seller will make every reasonable effort to meet shipping dates promised and to maintain production schedules consistently therewith. HOWEVER SELLER IS NOT LIABLE FOR CLAIMS OF DAMAGES DUE TO FAILURE FOR ANY REASON TO MEET SUCH SCHEDULED SHIPPING DATES AND SUCH FAILURE TO MEET SCHEDULED SHIPPING DATES SHALL NOT BE SUFFICIENT CAUSE FOR CANCELLATION WITHOUT PAYMENT OF A RESTOCKING FEE.
2. Once an order has been scheduled for delivery and prior to shipment, Buyer may delay delivery of any accepted order, provided that the Buyer shall pay a rescheduling fee equal to ten percent (10%) of the Purchase Price of the rescheduled products.



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#### WARRANTY

1. **Seller warrants the products herein described, so far as the same are of Seller's own manufacture, against defects of material and workmanship under normal use and service. This warranty does not cover wear and tear, corrosion, abuse, misuse, overloading, altered products, or materials not of Seller's manufacture. This warranty shall apply to the following types of sales and transaction and durations:**
  - a. Parts for a period of ninety (90) days from date of sale.
  - b. Refrigeration equipment, systems, and liquid freezers for a period of one (1) year from date of refrigeration start-up WITH THE CONDITION THAT A TRAINED AND QUALIFIED REFRIGERATION SYSTEM OPERATOR WITH THE APPROPRIATE CERTIFICATIONS OPERATES AND PERFORMS THE REQUIRED ROUTINE MAINTENANCES TO ENSURE THE REFRIGERATION SYSTEM OPERATES ACCORDING TO ALL ASSOCIATED PARAMETERS SUPPLIED BY THE EQUIPMENT MANUFACTURER'S, THE BUYER OR SELLER PROVIDED STANDARD OPERATING PROCEDURES, INDUSTRY RECOMMENDATIONS, AND GOVERNMENTAL (EPA, OSHA, AND OTHER GOVERNING BODIES) REQUIREMENTS.
2. **The obligation of Seller under this warranty shall be limited to repairing or replacing F.O.B., Seller's warehouse, or allowing credit at Seller's option, any part or parts which may prove to be thus defective, provided that Buyer gives Seller prompt notice of the defect or defects and inspection, if required by Seller, confirms the defect or defects. It is expressly agreed that this remedy or repair, replacement or credit, at Seller's option, is the exclusive remedy under this Agreement.**
3. On equipment furnished by Seller, but manufactured by others, Seller extends the same warranty as Seller receives from the manufacturer thereof.
4. This sale is made on the express understanding that there are not express warranties other than those contained in this Agreement. THE FOREGOING WARRANTY IS EXCLUSIVE, AND SELLER DISCLAIMS ALL OTHER EXPRESS, STATUTORY, AND IMPLIED WARRANTIES APPLICABLE TO THE PRODUCTS, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE.
5. IN NO EVENT SHALL ANY PURCHASER OR USER BE ENTITLED TO RECOVER UNDER THIS WARRANTY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, FOR INCONVENIENCE, RENTAL OR REPLACEMENT EQUIPMENT, LOSS OF PROFITS, OR OTHER COMMERCIAL LOSS. Buyer agrees that Seller shall not be liable to Buyer's business for any loss of income there from or from damage to goods, ware, merchandise or other property of Buyer, Buyer's employees, invitees or any other person, or in about the premises or elsewhere, and Buyer hereby assumes all risk of damaged property or injury to person arising from any cause and hereby waives all claims with respect thereof against Seller.
6. **The Occupational Safety and Health Act (OSHA) imposes certain requirement on an "employer" including many relating to the use of machinery and equipment. Since these requirements are directly related to the conditions under which and the manner in which the machinery or equipment is used, Seller makes no warranty, express or implied, of merchantability under, fitness under, compliance with, or liability under OSHA, its interpretations and/or regulations.**

#### CANCELLATION / LIQUIDATED DAMAGES

1. It is understood and expressly agreed that in the event of cancellation or refusal by the Buyer to accept the material or to proceed with the performance of the work herein contemplated, then the Seller shall be entitled to demand and receive from the Buyer, as liquidated damages and not as a penalty, twenty percent (20%) of the contract price, plus the cost of all material and work furnished or done by the Seller up to date of the cancellation or the Buyer's refusal to proceed with the work herein contemplated.

#### ENTIRE AGREEMENT

1. The writing is intended by the parties as a final expression of their agreement and is intended also as a complete and exclusive statement of the terms of this Agreement. No course of prior dealings between the parties and no usage of trade shall be relevant to supplement or explain any term used in the Agreement. Acceptance or acquiescence in the course of performance rendered under this Agreement shall not be relevant to determine the meaning of this Agreement, even though the accepting or acquiescing party has knowledge of the nature of the performance and opportunity for objection. Whenever a term defined by the Uniform Commercial Code is used in this Agreement that definition contained in the Code is to control.

#### PATENTS

1. Seller assumes no liability as to possible patent infringement by virtue of the use of a product in combination with other element or **structure, or the use of a product manufactured to Seller's specifications.**

#### MODIFICATIONS

1. This contract may be modified or rescinded only by a writing signed by both Seller and Buyer.

#### GOVERNING LAW

1. This Agreement shall be governed by the laws of the State of Utah.