



## FINANCE OFFICE

7 North Dixie Highway · Lake Worth, Florida 33460 · Phone: 561-586-1674

Addendum No. 1  
RFP 15-102

### PUBLIC SAFETY COMPLEX CHILLER REPLACEMENT

Each recipient of this Addendum No. 1 to the Request for Proposal (RFP) who responds to the RFP acknowledges all of the provisions set forth in the RFP and agrees to be bound by the terms thereof. This addendum shall modify, clarify, change or add information and clarification and become part of the above referenced RFP.

#### CLARIFICATION:

- Electrical** - What is the breaker size feeding chiller?  
*A: 300 AMP SQUARE D*
- Electrical** - What size are the fuses inside the disconnect, if disconnect is fused?  
*A: FUSES ARE 240V. FED WITH 300 MCM WIRE.*
- Pumps** - Are pump specifications available from old prints or old paperwork for existing pump? (Need horsepower of motor, GPM and head feet of pump or at least the run load amps of pump motor)  
Structural  
*A: 2 HP 3 PHASE MOTOR, 208/230V. GPM AND HEAD INFORMATION COULD NOT BE OBTAINED.*
- Structural** - Is information available on size and depth of existing concrete piers supporting chiller? (Foot print of new chiller will most likely not match existing) INFORMATION will be needed for wind-load calculations, and structural drawings.  
*A: EXISTING CHILLER IS SITTING ON A 7'X14' CONCRETE SLAB (4" THICK). THE CHILLER IS THEN MOUNTED TO 12" TALL X 18" LONG I-BEAMS AT EACH CORNER. THE I-BEAM CAN BE REUSED IF APPROVED BY BUILDING DEPARTMENT AND MEETS FOOTPRINT OF THE NEW CHILLER.*
- Is there currently a water make up station and air management components installed? And will they be reused?  
*A: YES THIS DOES EXIST AND IT WILL BE REUSED.*
- Can scope of services be changed to include option of new chiller having factory installed pumps (2).  
*A: THE CITY WOULD PREFER 2 PUMPS MOUNTED OUTSIDE THE CHILLER UNIT.*
- For items that don't have a part # (Exhibit G, page 32 of 39, "Belt SERP Grooved" but no specific item or part #. How does the city want us to address those?  
*A: SEE ATTACHED TRANE SPEC SHEET*

**Exhibit A Items:**

8. **Item 4** – Replacement of electrical conduits. During the site visit it was noted that the existing electrical safety switch must be replaced. The blades were not seating correctly, the bottom is badly rusted, and bottom penetrations are not sealed. Note this box contains a GFCI outlet for servicing the chiller as well.
- a) Will the City’s electrical staff be replacing the outdoor disconnect switch during the chiller change-out, or will the scope of work be updated to include this device and the GFCI?

*A: CITY WILL REPLACE DISCONNECT BOX WITH BREAKER PANEL SO THIS IS NOT INCLUDED IN PROJECT SCOPE. CITY WILL PROVIDE THIS POINT OF SERVICE AND CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK FROM THE NEW BREAKER PANEL TO PUMPS.*

9. **Item 7** – Replacement of the water-flow proving switch.
- Will a switch internal to the chiller’s microprocessor controls (item 8 below) be adequate, or will a secondary flow switch be required to meet this requirement? Secondary emergency shut-down contacts can be used as an additional level of safety if desired.

*A: A SECONDARY FLOW SWITCH WILL BE PREFERRED AND REQUIRED.*



10. **Item 8** – Complete all necessary Piping connections.

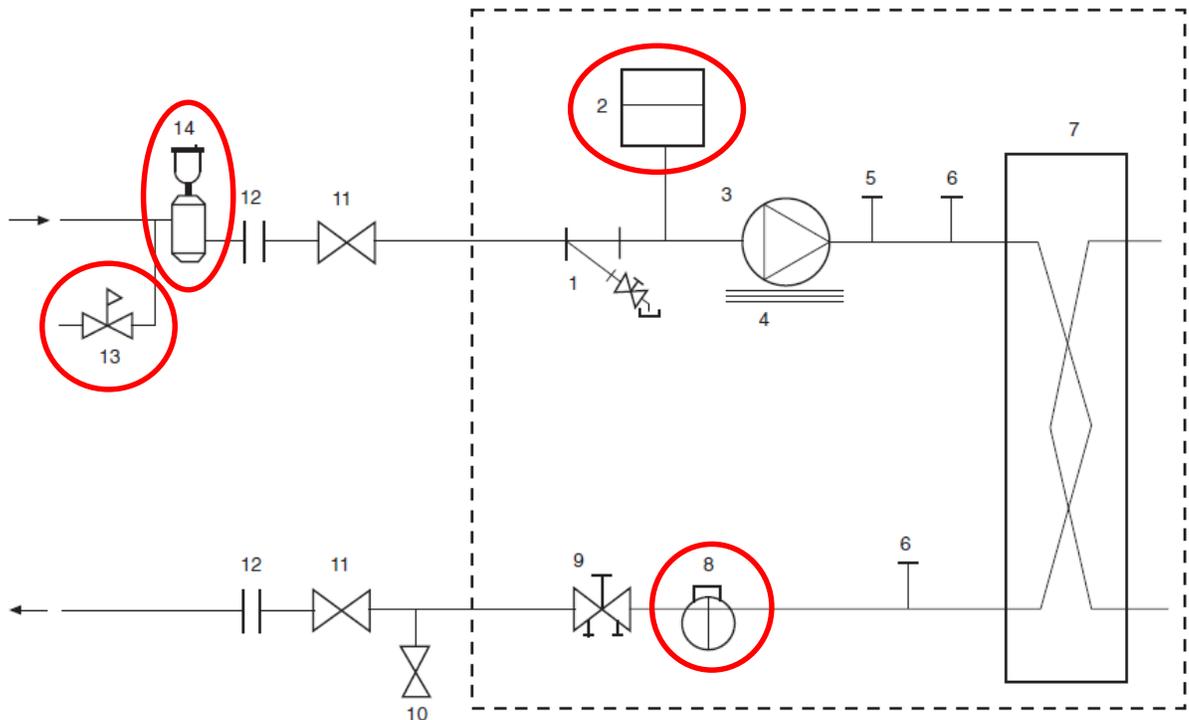
We were not shown the fill-station/pressure reducing and back-flow prevention devices which are necessary for both function and cross contamination protection of the city water supply (item 13 on diagram below).

a) Is a functional fill station and pressure reducing/back flow prevention station present?

*A: YES THIS IS STILL FUNCTIONAL AND WILL REMAIN.*

b) Is an expansion tank present in the current piping design? (Item 2 below, shown within the chiller as part of the on-board pumping option).

*A: YES AND THIS WILL BE REUSED.*



LEGEND

- |   |                                   |
|---|-----------------------------------|
| 1 — Strainer/Blow-Down Valve              | 8 — Flow Switch                   |
| 2 — Expansion Tank (sizes 010 - 060 only) | 9 — Balance Valve/Drain Plug      |
| 3 — Pump                                  | 10 — Pressure Relief              |
| 4 — Electric Heater                       | 11 — Isolation Valves             |
| 5 — Air Vent Connection Port              | 12 — Flex Connections             |
| 6 — Pressure/Temperature Access Port      | 13 — Pressure Reducing/Fill Valve |
| 7 — Heat Exchanger                        | 14 — Air Separator and Vent       |
|   | --- Factory Supplied              |

11. **Item 16-H** – This statement indicates there is no chemical feeder. The chilled water system must be treated to protect your piping and heat-exchangers. Not having a pot feeder does not make it impossible to treat, it can be “dosed” during the refill process. Should chemical treatment be included in the Scope of Service? (Possibly pre-treatment because we will likely be draining the building to change the isolation valves).

*A: YES CHEMICAL TREATMENT AT TIME OF RE-FILLING WILL BE REQUIRED FOR THIS PROJECT.*

12. **Item 16B** – include a second spare pump – Is the second pump that is to be provided simply a spare identical pump in a box, or is it to be mounted, piped and powered as part of a Primary-Spare pumping system?

*A: THE SPARE PUMP IS TO BE MOUNTED, PIPED AND POWERED INCLUDING THE ISOLATION VALVES. THE EXISTING ON-SITE PUMP IS TO BE REMOVED AND RETURNED TO THE CITY.*

13. **Item 16G** - mentions “strainers” and “pumps” in plural, so this needs to be clarified. We did not look inside the current chiller, so I am unsure if there is appropriate electrical gear present to be powering the existing non-integral pump. The concern here is that there is not a separate electrical circuit for this pump, and just tapping it off the chiller’s electrical circuit will be an issue for any electrical inspector. There are multiple solutions, but we need some direction on the base bid scope

*A: THE CITY WILL PROVIDE AS PART OF THE PROJECT A NEW BREAKER PANEL (REPLACING EXISTING DISCONNECT PANEL). THE CONTRACTOR WILL HAVE TO PIPE CONDUIT AND RUN WIRING / NECESSARY ELECTRICAL (STARTERS) TO PUMP LOCATIONS.*



14. Chiller unit specifications:

**Tag Data - Air-Cooled Scroll (Qty: 1)**

Item	Tag(s)	Qty	Description	Model Number
A1	CGAM-1	1	Air-Cooled Chiller, Scroll Compressors	CGAM040A2

**Product Data - Air-Cooled Scroll**

**Item: A1 Qty: 1 Tag(s): CGAM-1**

Air-Cooled Scroll Packaged Chiller

Startup Included - Manufacturer must start equipment for warranty to be honored

40 nominal tons

208 volt 3 phases 60 hertz

High efficiency/performance

Full factory refrigerant charge (HFC-410A)

Refrigerant isolation valves (discharge valve)

Factory installed flow switch

Phase reversal protection

Standard factory ¾" thick insulation

Lanced aluminum fins

Across the line starter/direct on line

Single point power connection

Terminal block

Elastomeric isolation pads

Factory installed water strainer

Factory dipped and baked condenser coil corrosion protection coating

5 year compressor parts warranty

1<sup>st</sup> year parts and labor warranty – whole unit

1<sup>st</sup> year factory service maintenance incl. quarterly inspections w/ coil cleaning and year-end annual inspection

**Performance Data - Air-Cooled Scroll**

Tags	CGAM-1
Capacity (tons)	37.90
Unit power input (kW)	45.70
Single point power MCA (A)	197.30
Single point power MOP (A)	225.00
Number of compressors ( )	4
Number of circuits ( )	2

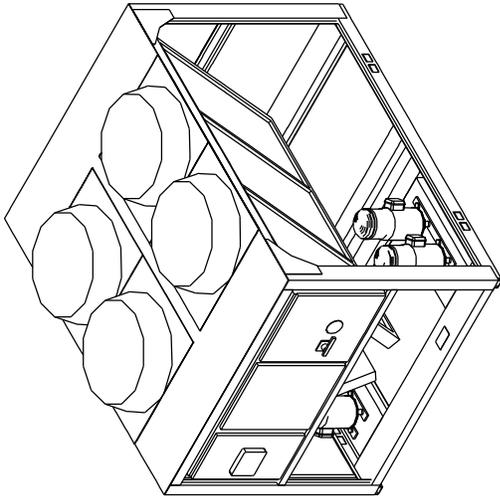
**Unit Dimensions - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**

INLET/OUTLET WATER  
 CONNECTION SIZE

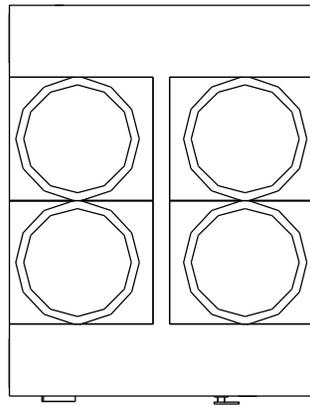
3" (80mm)

BRAZE PLATE  
 WATER VOLUME/STORAGE

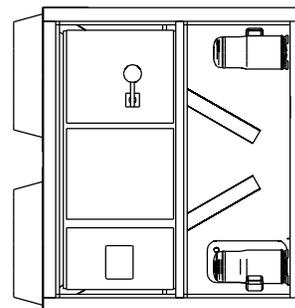
2.4 GAL (9.1 LITERS)



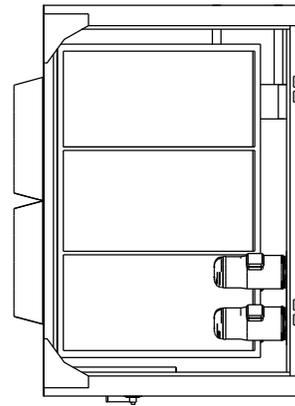
ISOMETRIC VIEW



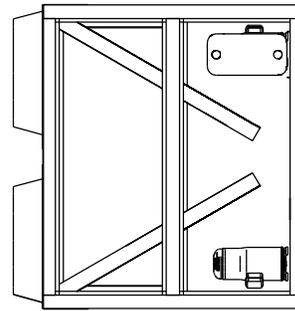
TOP VIEW



FRONT VIEW

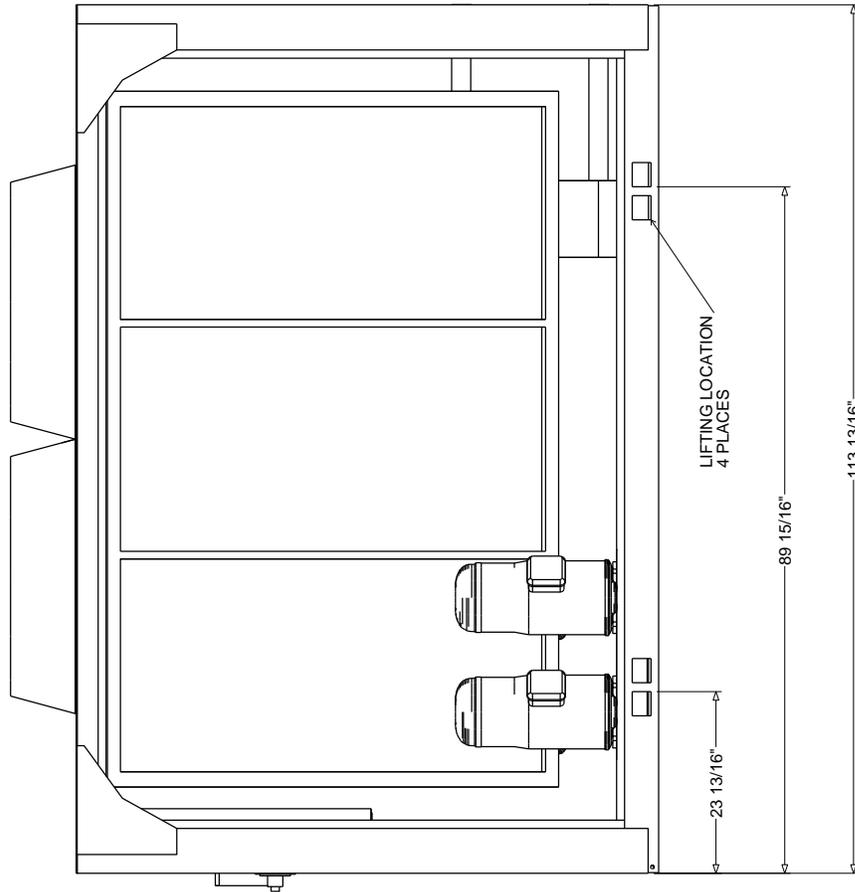


RIGHT SIDE VIEW



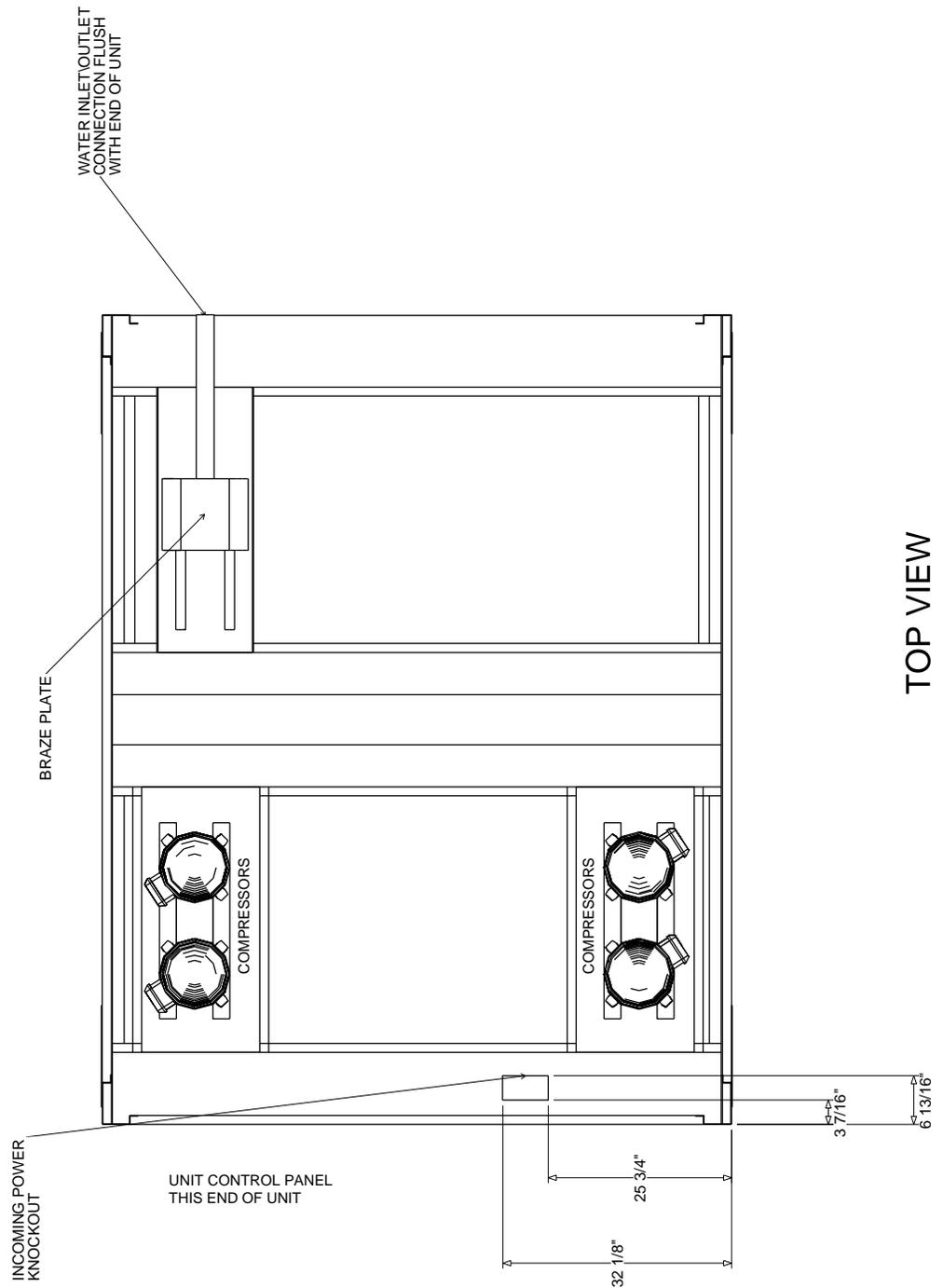
BACK VIEW

**Unit Dimensions - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**



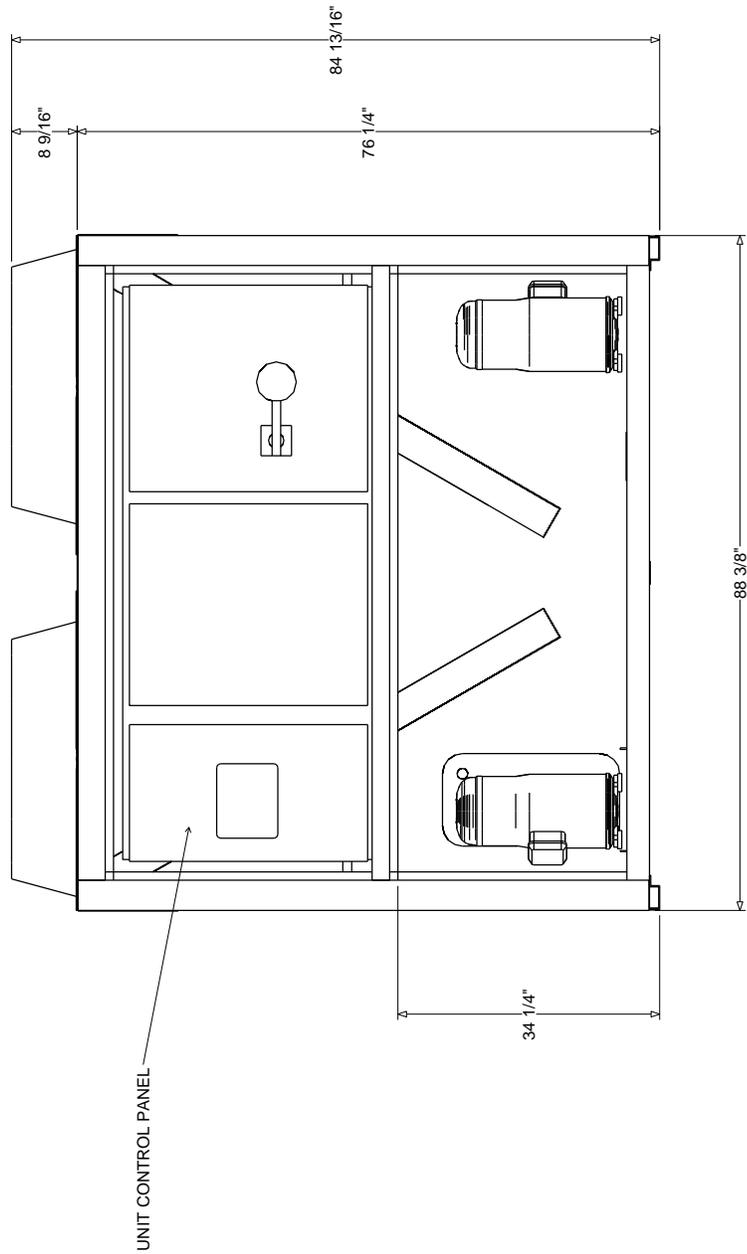
**RIGHT SIDE VIEW**

**Unit Dimensions - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**



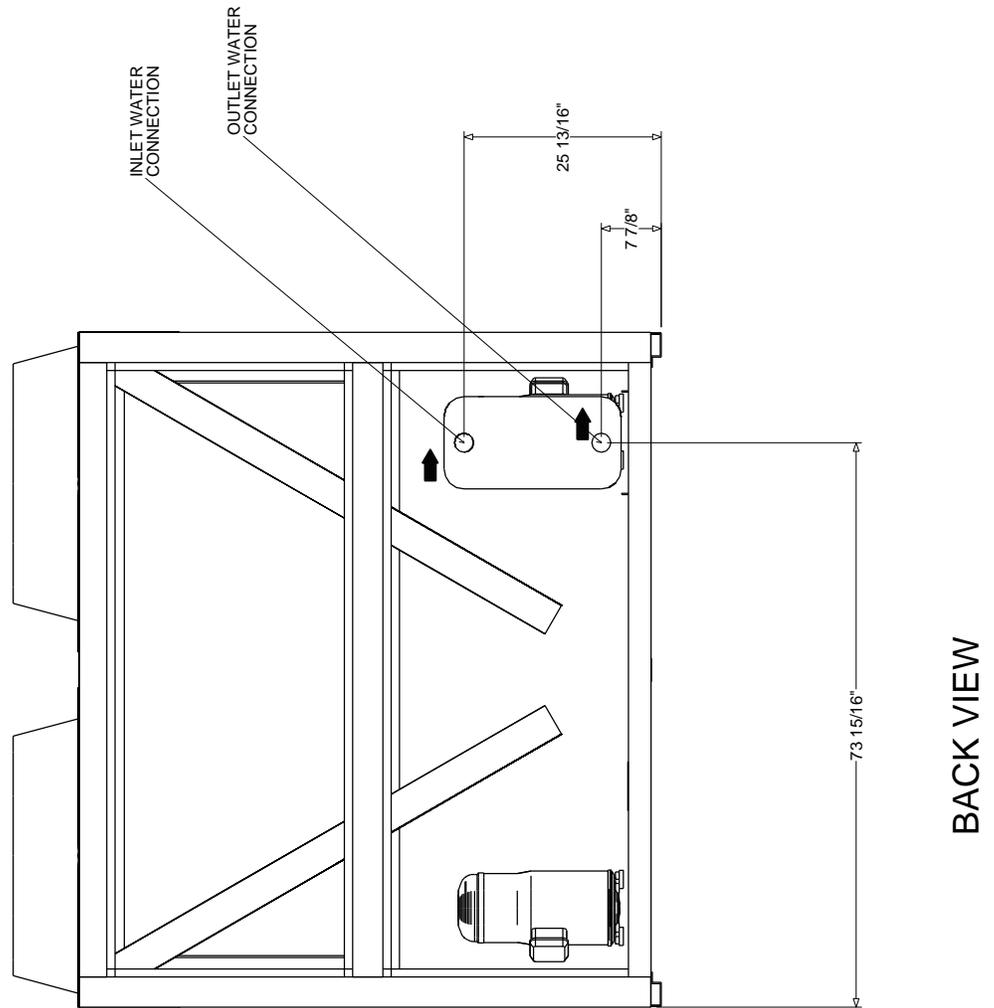
**TOP VIEW**  
 CONDENSER, CONTROL PANEL AND  
 VSD (WHEN ORDERED) REMOVED FOR CLARITY

**Unit Dimensions - Air-Cooled Scroll**  
Item: A1 Qty: 1 Tag(s): CGAM-1

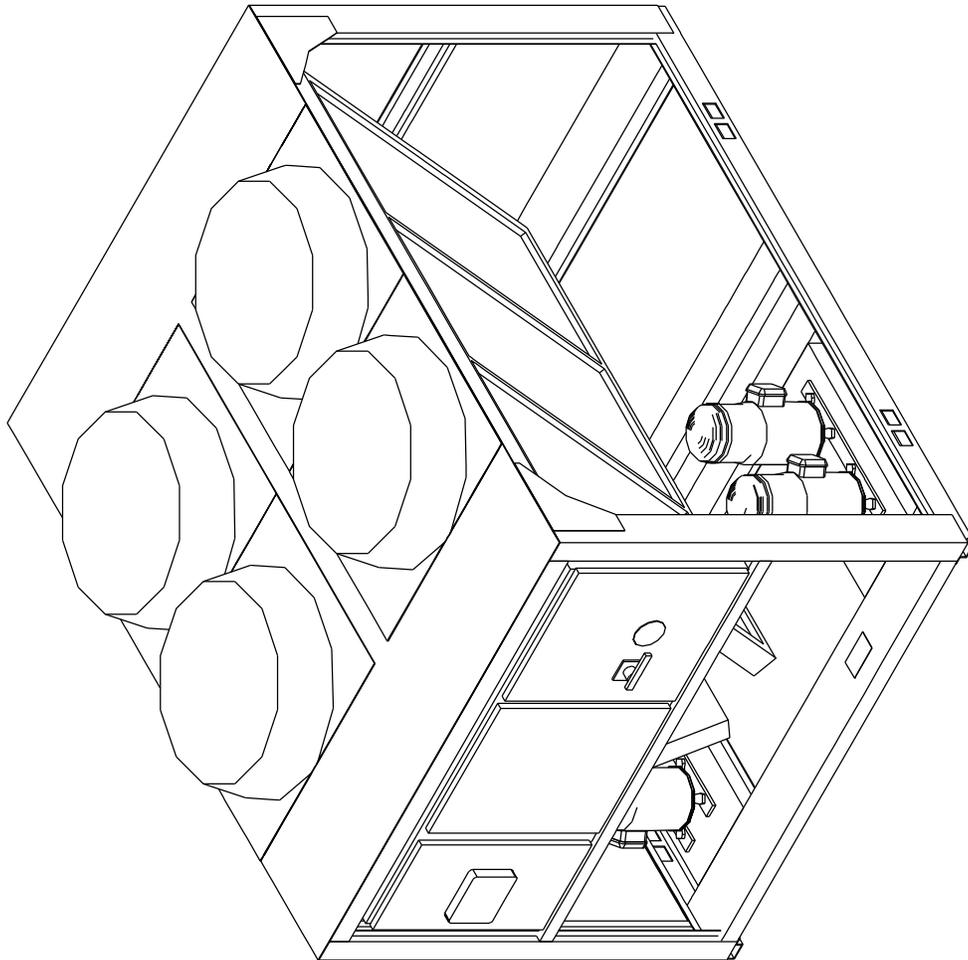


FRONT VIEW

**Unit Dimensions - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**



**Unit Dimensions - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**

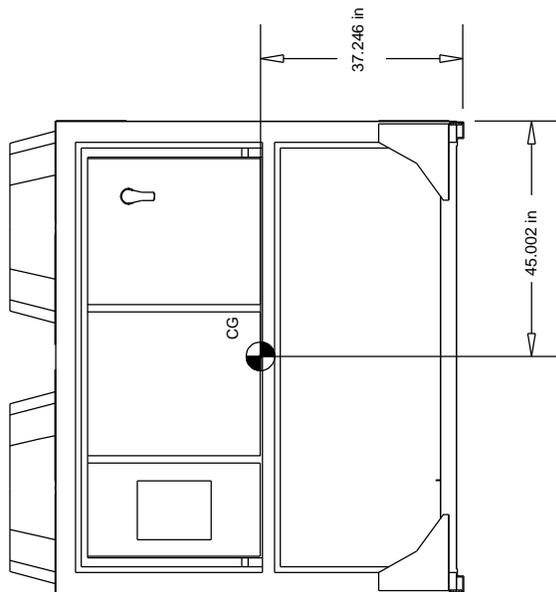


ISOMETRIC VIEW

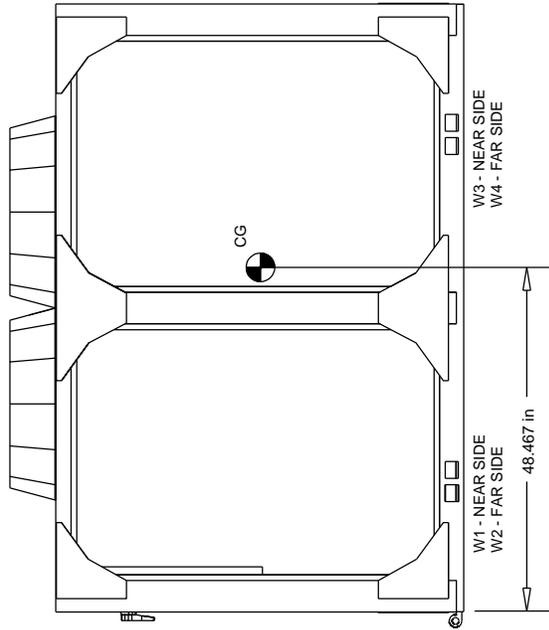
**Weight, Clearance & Rigging Diagram - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**

**UNIT CENTER OF GRAVITY**

LIFTING WEIGHTS				
W1	W2	W3	W4	SHIPPING WEIGHT
1113.7 lb	1133.1 lb	660.0 lb	671.4 lb	3666.3 lb



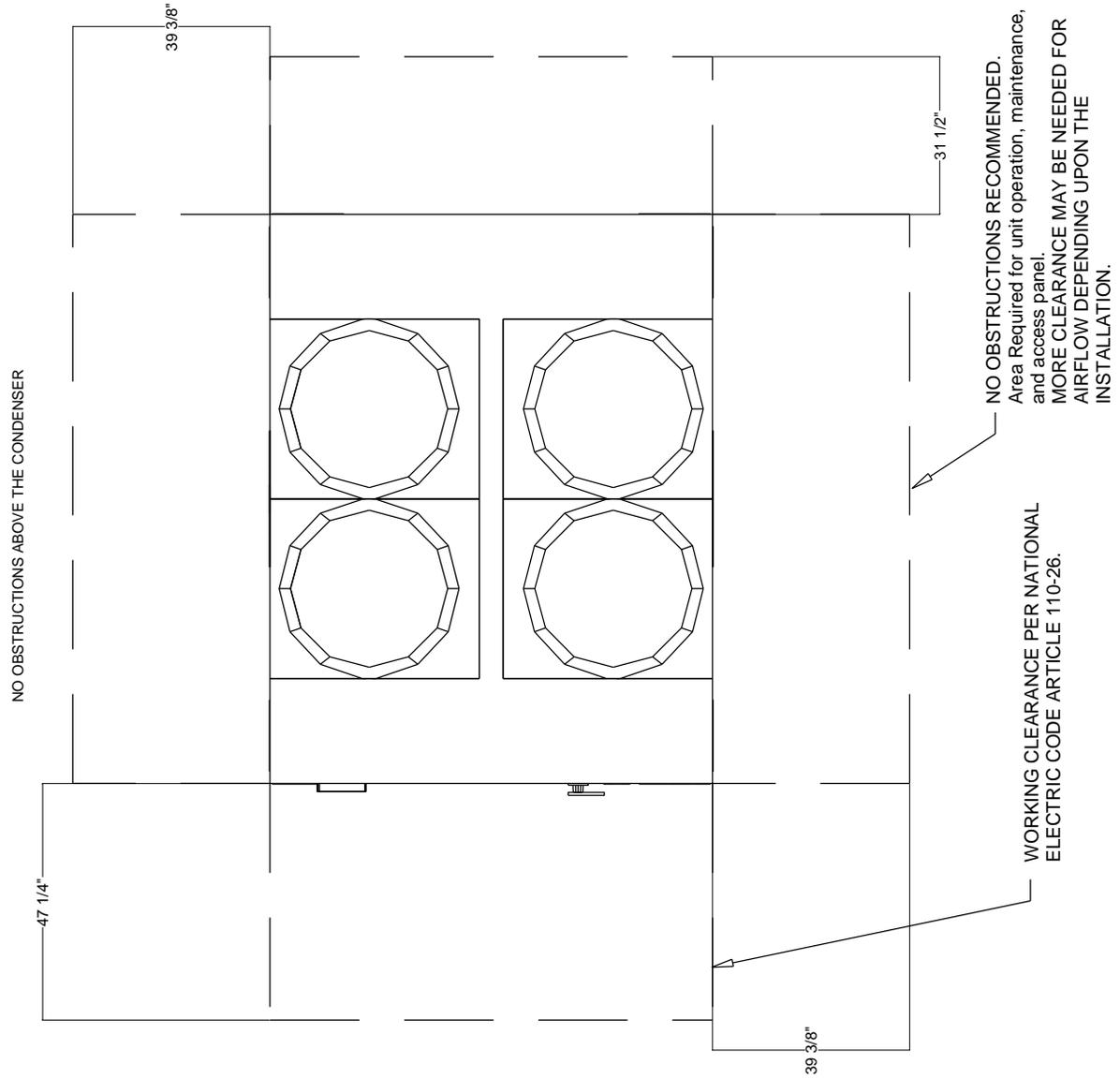
**FRONT VIEW**  
CONTROL PANEL END



**SIDE VIEW**

**Weight, Clearance & Rigging Diagram - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**

**UNIT CLEARANCE**



**TOP VIEW**

**Weight, Clearance & Rigging Diagram - Air-Cooled Scroll**  
**Item: A1 Qty: 1 Tag(s): CGAM-1**

**UNIT RIGGING**

LIFTING A UNIT WITH EQUAL LENGTH STRAPS WILL NOT PRODUCE A LEVEL UNIT DURING THE LIFT BECAUSE THE CG WILL NOT BE AT THE MIDPOINT BETWEEN THE BASE LIFTING HOLES. THE FOLLOWING ADJUSTMENTS MUST BE MADE TO PRODUCE A LEVEL LIFT:

- SINGLE SPREADER BAR LIFTING METHOD  
IF THE UNIT CG IS CLOSER TO THE CONTROL PANEL, THE STRAPS ON THE CONTROL PANEL SIDE OF THE SPREADER BAR MUST BE ADJUSTED TO BE SHORTER THAN THOSE ON THE OPPOSITE SIDE OF THE SPREADER BAR, ALLOWING THE SPREADER BAR TO MOVE TOWARD THE CONTROL PANEL AND OVER THE UNIT CG. SEVERAL ADJUSTMENTS OF THE STRAP LENGTH MAY BE REQUIRED TO PRODUCE A LEVEL UNIT DURING LIFT.

- H-TYPE SPREADER BAR LIFTING METHOD  
IF THE STRAPS FROM THE H BAR TO THE UNIT BASE ARE THE SAME LENGTH, THE CRANE LIFTING POINT ON THE CENTER WEB OF THE H BAR MUST BE ADJUSTED TO PRODUCE A LEVEL UNIT LIFT.

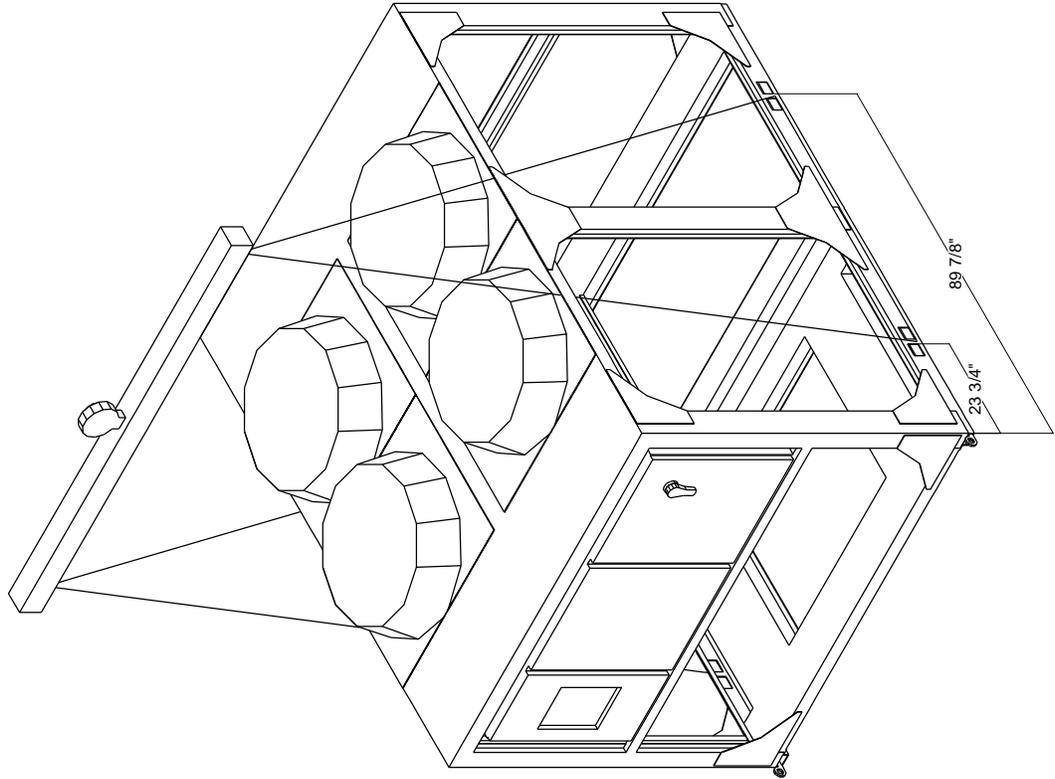


**WARNING**

**IMPROPER LIFTING AND MOVING!**

USE SPREADER BAR AS SHOWN IN DIAGRAM. REFER TO INSTALLATION MANUAL OR NAMEPLATE FOR UNIT WEIGHT. REFER TO INSTALLATION INSTRUCTIONS LOCATED INSIDE CONTROL PANEL FOR FURTHER RIGGING INFORMATION.

OTHER LIFTING ARRANGEMENTS COULD RESULT IN DEATH, SERIOUS INJURY OR EQUIPMENT DAMAGE.



**ISOMETRIC VIEW**

Proposers must acknowledge receipt of this Addendum No. 1 in the space provided below. This Addendum forms an integral part of the RFP documents and therefore must be executed and submitted with your proposal.

Issued By: City of Lake Worth  
Finance Office  
December 23, 2014

Signed By:   
Hirut Darge  
Purchasing Agent

**PROPOSER/Company**

Name: \_\_\_\_\_

Signed By: \_\_\_\_\_ Print Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_