STRIDE Academy Building Company

REQUEST FOR PROPOSAL
FOR
HVAC RTU REPLACEMENT SERVICES

Public Charter School HVAC Renovation

For the Project titled:
STRIDE Academy Upper School HVAC RENOVATIONS

Address:
3701 33rd St. South
St. Cloud, MN 56301

SUBMITTAL DUE DATE
November 11, 2026
(5:00 PM CDT)

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SECTION I – KEY INFORMATION ABOUT RFP

ABOUT STRIDE ACADEMY. STRIDE Academy is a Kindergarten – 8th grade public charter school in St. Cloud, MN serving approximately 800 students from predominately low-income communities. STRIDE Academy is currently in its twenty-second year of operation and is authorized by Pillsbury United Communities.

In 2016, STRIDE Academy formed an affiliated building company and purchased and improved its lower school property at 3241 Oakham Lane St. Cloud, Minnesota, serving grades K-4. In August of 2026, STRIDE Academy Building Company acquired its upper school property at 3701 33rd St. South St. Cloud, Minnesota, serving grades 5-8.

The 2026 financing provides funding for summer 2027 renovations of the upper school property, including 2,274 square feet of administrative office improvements, bathroom renovations, nursing room improvements, gymnasium access upgrades, parking lot resurfacing, and HVAC upgrades. STRIDE Academy Building Company has financed this project using tax exempt bonds.

This RFP is focused on Roof Top Unit (RTU) replacements at the STRIDE Academy Upper School campus located at 3701 33rd St. Cloud, Minnesota 56301 (the "Project").

Currently there are fifty-four (54) Roof Top Units (RTUs): two (2) are air handlers, forty-six (46) RTUs are 10-ton or under with the inability to control CO2 and humidity due to missing or short-cycled which caused damage to the current Trane heating and cooling systems. The remaining six (6) RTUs are 17.5-ton with humidity controls.

In the fall of 2026 STRIDE Academy Building Company has scheduled upgrades to the building automation system, replacement of RTU controls, and implementation of CO2 and humidity-based demand-controlled ventilation across both lower school and upper school sites, allowing both systems to be accessed and managed through a single web-based platform.

To improve reliability and longer equipment lifespan, the project scope identified in this RFP seeks four outcomes:

1) Further Professional Engineer evaluation of the Upper School HVAC design for long-term operational performance and efficiency
2) Development of a capital replacement schedule for the fifty-four (54) Roof Top Units (RTUs) at the STRIDE Academy Upper School building
3) Annual Preventative Maintenance Proposal for the STRIDE Academy Upper School building
4) Implementation of priority RTU replacements in the summer of 2027 within STRIDE Academy Building Company's budget. The current estimated budget for RTU replacements in the summer of 2027 is $300,000.

Please visit www.strideacademy.org to learn more about STRIDE Academy

(1) **SCOPE OF SERVICES.** TenSquare, LLC ("TenSquare") has been retained by STRIDE Academy Building Company to issue this Request for Proposal (RFP) for construction management services for the HVAC improvements of the STRIDE Academy Upper School campus.

It is anticipated that full building plan sets will need to be submitted to MN Department of Labor & industry for plan review by February 5, 2027 to meet a targeted June 7, 2027 start of RTU replacements. The Project must be completed by August 27, 2027.

The following exhibits are attached for additional information on the Project:

- Attachment A – Historic 2015 As-Built and MEP Plan Sets
  - Historic 2015 As-Built and MEP Drawings
- Attachment B – Yale Mechanical (12/15/2025) HVAC System Report & Investigation
- Attachment C – JB Vang and Cities 1 (1/12/2026) HVAC and RTU Assessment

(2) **RFP CONTACT.** The RFP Contact, identified below, is the sole point of contact regarding the RFP from the date of issuance until selection of the General Contractor.

STRIDE Academy Building Company
C/O Nathan Schwieters, Director of Operations
STRIDE Academy
at 3701 33rd S
St. Cloud, MN 56301
(320) 230-5340
nschwieters@strideacademy.org

With Electronic Copy to:
Sean Elder
TenSquare, LLC
sean@thetensquaregroup.org
(612) 251-3139

(3) **SUBMISSION DEADLINES AND PROCUREMENT TIMETABLE.** The following dates are set forth for informational and planning purposes; however, STRIDE Academy Building Company reserves the right to change the dates.

- Issue RFP for HVAC Services — October 14, 2026
- Site Visit (Optional) — October 28, 2026
- Deadline for Submitting Questions — November 4, 2026

- RFP Submission Deadline — November 11, 2026 (5:00 PM EST)
- Presentations and Interviews — November 18, 2026
- HVAC Award: — November 20, 2026

(4) **NUMBER OF COPIES.** Submit one (1) signed original, five (5) copies and one (1) electronic copy on a compact disk (CD) or solid-state memory stick of the Proposal in a sealed envelope or container.

(5) **SUBMIT PROPOSALS TO:**
TenSquare, LLC
Attention: Sean Elder
1400 Van Buren St. NE #200
Minneapolis, MN 55413
sean@thetensquaregroup.org

(6) **RIGHT TO CANCEL.** STRIDE Academy Building Company reserves the right to cancel this procurement process whenever the best interest of STRIDE Academy Building Company is served. STRIDE Academy and STRIDE Academy Building Company shall not be liable for costs incurred by proposers associated with this procurement process.

(7) **CONFIDENTIALITY.** This RFP and all accompanying materials contain confidential information and are to be treated as such by the Proposer. Proposer acknowledges that this RFP, including without limitation any addendum or correction to this RFP, or oral information about the RFP, are STRIDE Academy Building Company's proprietary and confidential information. In no event may STRIDE Academy Building Company's proprietary and confidential information be disseminated, copied or made available in any form to anyone other than Proposer's authorized employees (on a "Need To Know" basis) and subcontractors unless express written permission is granted by STRIDE Academy Association. Reproduction, distribution, or disclosure outside Proposer's company is prohibited without STRIDE Academy Building Company's prior written consent.

Further, all questions related to this RFP are to be requested of TenSquare, via email. Proposers are to refrain from contacting city agencies or other individuals, agencies, organizations for anything related to this project. Failure to follow these rules will result in disqualification.

SECTION II – DESCRIPTION OF THE PROJECT

PROJECT ("PROJECT").
This RFP is focused on Roof Top Unit (RTU) replacements at the STRIDE Academy Upper School campus located at 3701 33rd St. Cloud, Minnesota 56301 (the "Project").

Currently there are fifty-four (54) Roof Top Units (RTUs): two (2) are air handlers, forty-six (46) RTUs are 10-ton or under with the inability to control CO2 and humidity due to missing or short-cycled which caused damage to the current Trane heating and cooling systems. The remaining six (6) RTUs are 17.5-ton with humidity controls.

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To improve reliability and longer equipment lifespan, the project scope identified in this RFP seeks three outcomes:

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3) Annual Preventative Maintenance Proposal for the STRIDE Academy Upper School building
4) Implementation of priority RTU replacements in the summer of 2027 within STRIDE Academy Building Company's budget. The current estimated budget for RTU replacements in the summer of 2027 is $300,000.

(1) **PRELIMINARY SCHEDULE FOR COMPLETION FOR THE PROJECT.** Site Work is expected to commence by June 7, 2026 with substantial completion ready for occupancy by August 27, 2027.

(2) **PROPOSED BUDGET FOR THE PROJECT.** The Mechanical Engineer will be selected pursuant to this RFP and the contract will consist of a lump sum Guaranteed Maximum Price (GMP). The total construction cost budget for the Scope of Work is estimated to be less than $300,000.

(3) **AGREEMENT FOR DESIGN-BUILD SERVICES.** Following the HVAC Award, STRIDE Academy Building Company anticipates the Mechanical Engineer will enter into Agreements for Design-Build Services ("Design-Build Agreement"). The Agreement will provide for the delivery of design and HVAC replacement services to complete the Project and shall permit the assignment of the Agreement to STRIDE Academy Building Company and its lenders, as needed.

(4) **SCOPE OF WORK**. Submission by the HVAC Contractor should fully understand the scope of the work as presented herein. The HVAC Contractor will be responsible for directing and coordinating all required consultants to achieve a fully functioning, complete building in accordance with the approved plans, specifications and schedule.

(5) **CONTRACT REQUIREMENTS.** The successful HVAC Contractor will be required to comply with the following major phases upon award of a contract:

1. Cost Estimating
3. Construction Documents and Guaranteed Maximum Price (GMP)
4. Construction Administration
5. Project Closeout

STRIDE Academy Building Company believes that all major construction components for a complete design of this new structure will be required, including but not limited to:

1. Mechanical systems
2. Building envelope
3. Utilities Systems
4. Life Safety
5. Hazardous material
6. Conveying Systems
7. Interior finishes
8. Fixtures and furniture
9. Site Improvements
10. Exterior hardscapes and softscapes

(6) **CONTRACT GUARANTEED MAXIMUM COST PROPOSAL.** It is anticipated that the HVAC Contractor will agree to a Guaranteed Maximum Price ("GMP") to be included in the Design-Build Agreement.

(7) **INSURANCE REQUIREMENTS.** The HVAC Contractor insurance requirements shall be in accordance to Exhibit D, attached hereto.

(8) **GRANT AND WAGE SCALE REQUIREMENTS.** There are no specific Wage Scale requirements for this project.

STRIDE Academy must not contract with vendors who are suspended or debarred by the state of Minnesota or the federal government. Review the Suspended and Debarred Vendors, Minnesota Office of State Procurement at https://mn.gov/admin/osp/government/suspended-debarred/ for more information.

SECTION III – FORM OF PROPOSAL

(1) **RFP PROCESS.**

a. For purposes of this RFP, HVAC Contractor is referred to as Proposer. STRIDE Academy Building Company anticipates the HVAC Contractor will enter into Agreements for Design-Build Services ("Design-Build Agreement") with STRIDE Academy Building Company following the selection of a General Contractor.

b. As part of the Proposal, Proposers are required to submit their past performance history and qualifications for consideration by STRIDE Academy Association. Attached hereto as Attachment A, Attachment B, and Attachment C provide Historic 2015 As-Built and MEP plan sets and Past HVAC System evaluation reports. STRIDE Academy Association will evaluate the Proposals using the criteria established herein.

(2) **SUBMITTAL REQUIREMENTS.** The following components or items must be incorporated into the proposal.

a. **COVER LETTER/EXECUTIVE SUMMARY.**
1. Statement of interest in the Project;
2. Identification of the point of contact for this RFP process with telephone number and email address;
3. Name, address, telephone, email and website for the firm;
4. Signature of a duly authorized principal

b. **FIRM PROFILE WITH THE FOLLOWING ELEMENTS.**
1. Firm age;
2. History;
3. Firm Size (staffing by discipline) currently
4. Current firm workload projected over the next 12 months

c. **FEE PROPOSAL.** Following the format of Exhibit E and Exhibit F of this RFP
1. Electronic Copy of Estimated Budget

d. **EVIDENCE OF PROPOSER'S PAST PERFORMANCE AS HVAC CONTRACTOR.**
Description of up to five (5) projects that best illustrate the Proposer's relevant experience. For each project, please provide all the following information in a consistent format:
- Project name, client name, phone number, email address, location;
- Gross square feet of new construction;
- Gross square feet of renovation;
- General program elements;

- Bidder personnel involved;
- Bidder personnel's portion of work and time period (if part of a larger team);
- Targeted and actual delivery date;
- Construction budget, bid amount, final cost, and general description of the major change orders;
- Descriptions, pictures, and/or floor plans;
- Relevance to the Project such as renovation challenges, lessons learned with educational facilities, effective value for modest construction costs, or institutions starting an additional campus.

e. **EVIDENCE OF PAST PERFORMANCE AND CAPACITY OF PROPOSER'S CONSULTANTS: OTHER MEP ENGINEERS, STRUCTURAL ENGINEERS, ENVIRONMENTAL CONSULTANTS, OTHER.**

1. Provide description of key consultants and subcontractors who will be providing design services. Include: company name/address; proposed project role; and staff available for assignment to the Project.

f. **PROJECT APPROACH AND METHODOLOGY.** Proposer must include a description of Proposer's approach to the Project, including:

1. **PRE-CONSTRUCTION**. Include a description of how the Contractor would expect to interact with the Owner related to: Cost estimating, cost control and change management; value engineering analysis; Scheduling Compliance and Control including examples of schedule monitoring techniques; Obtaining building permits and all other regulatory approvals; Regulatory environmental and permitting management.

2. **CONSTRUCTION**. Proposed schedule and budget/cost control approach.

g. **EVIDENCE OF QUALIFICATIONS OF KEY STAFF COMMITTED TO PROJECT.**

Identify all of Proposer's Key Staff (including Key Staff furnished by consultants and subcontractors) and indicate whether they are committed full-time or part-time for the duration of the Project. Provide resumes for all Key Staff. Include Project Managers, Quality Control Manager, Environmental Design Engineer, Construction Project Managers, Environmental Construction Project Manager, and Construction Superintendent.

h. **EVIDENCE OF FINANCIAL CAPABILITY.**

Furnish financial statements, such as balance sheets and/or profit and loss statements, for the last three (3) years demonstrating that the Proposer has the financial viability and

ability to perform the Services. In the event the Proposer does not have an audited financial statement, the Proposer may submit a review or compilation prepared by an outside accountant. STRIDE Academy, however, reserves the right to request additional information. The Proposer shall also submit a written disclosure advising of any pending litigation against the Proposer that may have a material effect on the Proposer's ability to perform.

i. **CLIENT REFERENCES.** References shall be for representative projects provided as part of this submittal.

j. **WAGE SCALE REQUIREMENTS.** There are no wage scale requirements for this project.

k. **LEGAL ACTIONS.** Complete Exhibit B – Legal Actions form included in this RFP.

l. **DISCLOSURE AFFIDAVIT.** Complete the Exhibit C –Disclosure Affidavit form included in this RFP.

m. **BONDING CAPACITY.** Furnish a letter confirming bonding capacity in an amount in excess of $1 Million for the Project.

(3) **EVALUATION CRITERIA.** STRIDE Academy Association will review and evaluate the proposals in accordance with the following criteria.

a. Experience and past performance with other Minnesota charter school facilities projects (40%)

b. Experience with design-build projects (20%)

c. General conditions, fees, and estimate of overall project costs based on specifications to date (20%)

d. Capacity to complete HVAC renovations during required time frame without incurring overtime (20%)

EXHIBIT A – SAFETY QUESTIONAIRE

STRIDE Academy Association is committed to construction safety on its projects. To that end, STRIDE Academy Association has developed a safety questionnaire to aid in selection of a General Contractor with good safety records. As a part of the General Contractor submittal process Proposers must answer the questions below.

(1) Does your organization have a safety program? Yes ☐ No ☐

If yes, provide the following information:

- Month and Year first implemented;
- Method of review of program;
- Whether regular work site safety meetings are held and how frequently; and
- Copy of table of contents of safety/loss control manual.

(2) Have any OSHA or other citations been issued to your organization during the period of the last three (3) years for workplace safety law violation? Yes ☐ No ☐

If yes, provide detailed information for each occurrence regarding:

- The nature of the violation for which your organization was cited;
- Summary of your position of the matter; and
- Official resolution of violation

(3) Provide your organization's OSHA reportable incident rate: _____. If this is greater than 3.0, please attach your OSHA Form 300A Summaries for the last three (3) years and a written explanation to the qualification questionnaire (attach as necessary).

(4) Provide a copy of your organization's NCCI current experience modification (EMR) rating worksheet. If the rating is greater than 1.0 please attach the NCCI rating information for the last 3 years and a written explanation to the qualification questionnaire. As a follow up, you may be asked to provide your written safety plan.

(5) Provide a current Emergency Response Plan (ERP) indicating how Proposer would communicate with STRIDE Academy and with Proposer's Key Personnel, marshal the manpower, equipment and supplies to ensure timely response to emergency related incidents. Limit your ERPs to one (1) single-spaced single page, with a minimum of 1-inch margins and minimum 11-point type.

EXHIBIT B – LEGAL ACTIONS

Please provide the information below. If the answer to any of the questions is "Yes", provide a brief description or explanation on a separate sheet.

	QUESTION	YES	NO
1	Has the firm or venture been issued a notice of default on any contract awarded in the last three years?		
2	Does the firm or venture have any judgments, claims (liquidated damages, or other), arbitration proceedings or suits pending or outstanding against the firm or venture or its officers? If yes, include the dollar amount of claims or judgments and the contract value of the contract on which the claim was filed. Attach explanation.		
3	Within the past three (3) years, has the firm or venture been a party to any lawsuits or arbitration proceedings with regard to any contracts?		
4	Within the last three (3) years, has any officer or principal of the firm or venture ever been an officer or principal of another organization that failed to complete any contract as a result of termination, litigation, arbitration or similar matter?		
5	Has any key person with the firm or venture or its predecessor ever been convicted of or charged with any state or federal crime (excluding traffic violations), including but not limited to, embezzlement, theft, forgery, bribery, falsification or destruction of records, receipt of stolen property, criminal anti-trust violations, bid rigging or bid-rotating?		
6	Has the firm or venture ever been temporarily or permanently debarred from a contract awarded by any federal, state, or local agency?		
7	Within the last three years, has the firm or venture been assessed penalties for any statutory or administrative violations, including MBE, WBE and EEO?		
8	Has the firm or venture ever failed to complete any work awarded to it?		

EXHIBIT C – DISCLOSURE AFFIDAVIT

PROPOSER INFORMATION	
NAME OF ENTITY	
CONTACT PERSON	
ADDRESS	
CITY, STATE, AND ZIP CODE	
TELEPHONE NUMBER	
FAX NUMBER	
E-MAIL ADDRESS	

(1) **DISCLOSURE OF OWNERSHIP INTERESTS**

Proposer shall provide the following information. If the question is not applicable, answer "NA". If the answer is none, please answer "none".

Respondent is a:
A. Corporation
B. Joint Venture
C. LLC or Other

Please complete the applicable corresponding section below.

A. CORPORATIONS

State of Incorporation: _____

Authorized to do business in the State of Minnesota: ☐ Yes ☐ No

Names of all officers of corporation (complete or attach list): Names: Titles:

_____ _____
_____ _____
_____ _____
_____ _____

Names of all directors of corporation (complete or attach list):

_____
_____
_____

Is the corporation owned partially or completely by one or more other corporations?

If “yes” provide the above information, as applicable, for each such corporation.

Indicate here or attach a list names and addresses of all shareholders owning shares equal to or in excess of seven and one-half percent (7.5%) of the proportionate ownership of the corporation and indicate the percentage interest of each.

Names of Shareholders	Percent Interest Owned
_____	_____%
_____	_____%
_____	_____%
_____	_____%

B. JOINT VENTURES

If Proposer is a Joint Venture, name each venture partner and the percentage of each therein. Where venture party is Corporation or LLC or Other also provide information required above for Corporations or below for LLCs or Other.

Names of Venture partners	Percent Interest Owned
_____	_____%
_____	_____%
_____	_____%
_____	_____%

C. LLCs and Other Commercial Organizations

If Proposer is a LLC or Other Commercial or Legal Entity, name each entity and each person with an ownership or other beneficial interest in the entity. Describe the interest of each party including any percentage ownership of each. Where any disclosed party is Corporation also provide information required above for Corporations.

Names	Interest Described and Percent Owned
_____	_____%
_____	_____%
_____	_____%
_____	_____

EXHIBIT D – INSURANCE REQUIREMENTS

The General Contractor must provide and maintain at General Contractor's own expense, the minimum insurance coverage and requirements specified below, insuring all operations related to the Contract. Unless otherwise noted below, the insurance must remain in effect from: the date of the notice to proceed until Substantial Completion of the project, during completion of Punch List, as well as any time General Contractor or its subcontractors return to perform additional work regarding warranties or for any other purpose, unless otherwise noted below or agreed by STRIDE Academy. General Contractor and all subcontractors of every tier will specifically name STRIDE Academy and others as may be required by STRIDE Academy as Additional Insured.

INSURANCE TO BE PROVIDED

1) Workers' Compensation and Employers Liability (Primary and Umbrella)

Workers' Compensation Insurance as prescribed by applicable law covering all employees who are to provide a service under this Contract and Employers Liability coverage with limits of not less than $1,000,000 each accident, illness or disease. Coverage will include a Waiver of Subrogation.

2) Commercial General Liability (Primary and Umbrella)

Commercial General Liability Insurance or equivalent with limits of not less than $1,000,000 per occurrence, and $2,000,000 in the aggregate for bodily injury, personal injury, and property damage liability. Coverage must include the following: All premises and operations, products/completed operations to be maintained for minimum of two (2) years following project completion, explosion, collapse, underground hazards, defense and contractual liability. General Contractor and all subcontractors of every tier will specifically name STRIDE Academy and others as may be required by STRIDE Academy as Additional Insured using ISO CG2010 0413 and CG2037 0413. Additional Insured status will be on a primary, non-contributory basis for any liability arising directly or indirectly from the work, including the two year completed operations periods. Coverage will include a Waiver of Subrogation as required below.

Contractors must provide copies of this endorsement with the certificate of insurance required below. Contractors must ensure that subcontractors maintain this endorsement on their policies.

Subcontractors performing work for General Contractor must maintain limits of not less than $1,000,000 per occurrence and $2,000,000 in the aggregate with the same terms herein.

3) Automobile Liability (Primary and Umbrella)

When any motor vehicles (owned, non-owned and hired) are used in connection with work to be performed, the General Contractor must provide Automobile Liability Insurance, with limits of not less than $1,000,000 per occurrence and $2,000,000 in the aggregate for bodily injury and property damage. STRIDE Academy and others as may be required by STRIDE Academy are to be named as Additional Insured on a primary, non- contributory basis.

Subcontractors performing work for General Contractor must maintain limits of no less than $1,000,000 per occurrence and $2,000,000 in the aggregate with the same terms herein.

4) Contractors Pollution Liability

Contractors Pollution coverage is required with limits of not less than $1,000,000 per occurrence and $2,000,000 in the aggregate for any portion of the services, which may entail, exposure to any pollutants, whether in the course of sampling, remedial work or any other activity under this contract. The General Contractor pollution liability policy will provide coverage for sums that the insured become legally obligated to pay as loss as a result of claims for bodily injury, property damage and/or clean-up costs caused by any pollution incident arising out of the Work including remediation operations, transportation of pollutants, owned and non-owned disposal sites and any and all other activities of General Contractor and its subcontractors. Pollution incidents will include, but not be limited to, the discharge, dispersal, release or escape of any solid, liquid, gaseous or thermal irritant or contaminant, including but not limited smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, medical waste, waste materials, lead, asbestos, silica, hydrocarbons and microbial matter, including fungi, bacterial or viral matter which reproduces through release of spores or the splitting of cells or other means, including but not limited to, mold, mildew and viruses, whether or not such microbial matter is living.

The policy will be maintained for a period of three years after final completion and include completed operations coverage. The policy will include STRIDE Academy and others as may be required by STRIDE Academy, as Additional Insured. These entities must be specifically named and endorsed on the policy. Additional Insured coverage must be on a primary and non-contributory basis for on-going and completed operations. Coverage will include a waiver of subrogation as required below.

Subcontractors performing work for General Contractor must maintain limits of not less than $1,000,000 per occurrence and $2,000,000 in the aggregate with the same terms herein.

5) Professional Liability

When General Contractor performs work in connection with the Agreement, Professional Liability Insurance must be maintained with limits of not less than $1,000,000 covering acts, errors, or omissions. The policy will include coverage for wrongful acts, including but not limited to errors, acts or omissions, in the rendering or failure to render professional services resulting in a pollution incident. When policies are renewed or replaced, the policy retroactive date must coincide with, or precede the, start of work on the Agreement. Coverage must be maintained for two years after substantial completion. A claims-made policy, which is not renewed or replaced, must have an extended reporting period of two (2) years.

Subcontractors performing professional work for General Contractor must maintain limits of not less than $1,000,000 per occurrence and $2,000,000 in the aggregate with the same terms herein.

6) Builders Risk

General Contractor must provide All Risk Builders Risk Insurance or Installation Floater on a replacement cost basis including but not limited to all labor, materials, supplies, equipment, machinery and fixtures that are or will be permanent part of the facility. Coverage must be on an All Risk or Cause of Loss, Special Form basis including, but not limited to, the following: right to partial or complete occupancy, collapse; water damage including overflow, leakage, sewer backup, or seepage; resulting damage from faulty or defective workmanship or materials; resulting damage from error or omission in design, plans or specifications; debris removal; Ordinance and Law and include damage to, false work, fences, temporary structures and equipment stored off site or in transit. The policy will allow for partial or complete occupancy and include damage to existing property at the site with a sublimit of $1,000,000.

STRIDE Academy will be Named Insured on the policy. Coverage must be for the full completed value of the work and must remain in place until at least Substantial Completion and may only be cancelled with the written permission of STRIDE Academy, even if the Project has been put to its intended use.

The General Contractor is responsible for all loss or damage to personal property including but not limited to materials, equipment, tools, scaffolding and supplies owned, rented, or used by General Contractor.

7) ADDITIONAL REQUIREMENTS

General Contractor must furnish STRIDE Academy original Certificates of Insurance, or such similar evidence, to be in force on the date of this Contract, and Renewal Certificates of Insurance, or such similar evidence, if any insurance policy has an expiration or renewal date occurring during the term of this Contract. Copies of any endorsements or policy language providing Additional Insured or Named Insured status to the entities required above must accompany the Certificate of Insurance upon submission. The General Contractor must submit evidence of insurance to STRIDE Academy prior to Contract award. The receipt of any certificate does not constitute agreement by STRIDE Academy that the insurance requirements in the Contract have been fully met or that the insurance policies indicated on the certificate are in compliance with all Contract requirements. The failure of STRIDE Academy to obtain certificates or other insurance evidence from General Contractor is not a waiver by the STRIDE Academy of any requirements for the General Contractor to obtain and maintain the specified insurance. The General Contractor will advise all insurers of the Contract provisions regarding insurance. Non-conforming insurance does not relieve General Contractor of the obligation to provide insurance as specified in this contract. Non- fulfillment of the insurance conditions may constitute a breach of the Contract, and STRIDE Academy retains the right to stop work until proper evidence of insurance is provided, or the Contract may be terminated.

The insurance must provide for 30 days prior written notice to be given to STRIDE Academy in the event coverage is substantially changed, canceled, or non-renewed. STRIDE Academy reserves the right to obtain copies of insurance policies and records. Any deductibles or self-insured retentions on referenced insurance must be borne by General Contractor. All self-insurance, retentions and/or deductibles must conform to these requirements.

The General Contractor waives and agrees to cause all their insurers to waive their rights of subrogation against STRIDE Academy, their respective Board members, employees, elected officials, officers, or representatives.

The insurance coverage and limits furnished by General Contractor in no way limit the General Contractor's liabilities and responsibilities specified within the Contract or by law.

Any insurance or self-insurance programs maintained by STRIDE Academy will not contribute with insurance provided by the General Contractor under the Contract.

The required insurance to be carried is not limited by any limitations expressed in the indemnification language in this Contract or any limitation placed on the indemnity in this Contract given as a matter of law.

If General Contractor is a joint venture or limited liability company, the insurance policies must name the joint venture or limited liability company as a Named Insured.

The General Contractor must require all subcontractors to provide the insurance required herein, or General Contractor may provide the insurance for subcontractors. All subcontractors are subject to the same insurance requirements of General Contractor unless otherwise specified in this Contract.

If General Contractor or subcontractor desires additional coverage, the party desiring the additional coverage is responsible for the acquisition and cost. General Contractor must submit the following at the time of award:

1. Standard ACORD form Certificate of Insurance issued to STRIDE Academy as Certificate Holder including:
    a. All required entities as Additional Insured
    b. Evidence of waivers of subrogation
    c. Evidence of primary and non-contributory status

EXHIBIT E
The Bidder's Fee Proposal
is as follows:

A. The HVAC Contractor's Preconstruction Phase Fee is: $_____and the bidder acknowledges that the Preconstruction Fee_____(will or will not) be waived upon award of the GMP.

B. The HVAC Contractor's Fee for construction phase services is__% of the Cost of Work.

C. The method of adjustment of the HVAC Contractor's Fee for changes in the Work is_% on changes in the Work beyond the first $_____.

D. The limitations, if any, on a Subcontractor's overhead and profit for increases in the cost of its portion of the Work are_%.

E. If the actual Cost of the Work (excluding Allowances, of which 100% of the un-used value shall be credit to the Owner) plus the HVAC Contractor's Fee, is less than the Guaranteed Maximum Price ("Savings"), then_____% of all such Savings will be kept by the Owner and_____% of such savings will be paid to the HVAC Contractor as part of its Final Payment.

F. The total estimated cost of the HVAC Contractor's general conditions $_____

This budget is set forth under the assumption that the construction duration is_____weeks. The estimated daily total general conditions is $_____per day.

EXHIBIT F

ESTIMATED BUDGET BASED ON DRAWINGS AND SPECIFICATIONS TO DATE:

Division 1 General Conditions	_____
Division 2 Sitework/Landscape	_____
Division 3 Concrete	_____
Division 4 Masonry	_____
Division 5 Metals	_____
Division 6 Wood and Plastics	_____
Division 7 Thermal & Moisture	_____
Division 8 Doors and Windows	_____
Division 9 Finishes	_____
Division 10 Specialties	_____
Division 11 Equipment	_____
Division 12 Furnishings	_____
Division 13 Special Construction	_____
Division 14 Conveying Systems	_____
Division 15 Mechanical	_____
Division 16 Electrical	_____
Subtotal	_____
Building Permit	_____
Bonding	_____
Insurance	_____
Construction Contingency	_____
OH & Profit	_____
Estimated Total	_____

Attachment B

Yale Mechanical
Building Efficiency and Sustainability
A Service Logic Company

December 15, 2025

Stride Academy Charter School
3241 Oakham Lane
St. Cloud, MN 56301

Subject: Findings from the inspection of 54 Roof Top Units.
Site: 3701 33rd Street, St. Cloud, MN 56301

This report is to summarize the findings that were discovered by Yale Mechanical from the investigation of the HVAC system at the Stride Academy Campus located at 3701 33rd St S. St. Cloud MN 56301.

Stride Academy is an 80,000 (roughly) square foot charter school. The building currently has 54 Trane base-model rooftop units (RTUs). Several significant operational and control deficiencies were identified. The existing standard RTUs use natural gas heating, DX cooling, and economizers for minimum outside air. Most units currently serve one or two zones through simple ductwork configurations, and the installed thermostats offer only basic heat/cool and fan on/off functionality.

Evaluation and Concerns:

Roof Top Unit Aftermarket Humidity Controls:

1) Existing aftermarket humidistats were discovered in the return-air ductwork upon starting to work the account. These devices are intended to reduce humidity during cooling season, causing the units to initiate heating while cooling at the same time. This will cause the unit to cycle constantly on heating, because the heating and cooling capacities are not equal. This constant cycling will cause premature failure of components in the roof top unit. See below for further explanation.

   Negative Impacts of Existing Humidity Controls:

   i) Damage to Heating Components: When the humidity climbs it would turn cooling on in full. It would heat the air instead to satisfy the space. The repeated and rapid switching between cooling and heating cycles overheated and cracked multiple heat exchangers.
   ii) Excessive Short-Cycling: Simultaneous humidification control and temperature control caused frequent short cycles in both heating and cooling modes. This will cause premature life failures of the compressors for cooling in the unit as well. Short cycling is widely known as the primary cause of reduced equipment life.
   iii) Increased Energy Costs: By installing controls such as this and using the heating and cooling to full operation on a call for humidity reduction will cause abnormal and extremely high energy bills. The unnecessary addition of heat to the building during cooling season forced the DX cooling systems to operate longer and harder, significantly increasing electricity consumption.

Setpoints and Operation:

1) Non-Functional Economizers: Many economizer dampers were found disabled and in the closed position, preventing the required outside air ventilation. As a result, indoor CO_2 levels were measured at over 1000 ppm, compared to a normal baseline of approximately 400 ppm.
2) Poor Temperature Stability: The ongoing conflicts between cooling, heating, and humidity control created rapid temperature swings, resulting in uncomfortable conditions for occupants.

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Yale Mechanical North
1301 10th Street North
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(320) 255-0641

Recommended Solution Procedure:

1) Evaluate Design of HVAC system.
   - Have a professional engineer look over the design of the units to make sure no roof top units are grossly oversized for the application.
2) Replace Aged Rooftop Units
   - Remove the existing RTUs and replace them with new Roof Top Units equipped with active dehumidification technology. These units will:
     - Properly manage humidity without requiring simultaneous heating and cooling of different fuels.
     - Provide increased operational efficiency
     - Offer improved reliability and longer equipment lifespan

3) Implement an Advanced Building Controls System
   - Install a modern building automation system (BAS):
   - Optimize dehumidification modes
   - Manage ventilation through properly functioning economizers.
   - Demand control ventilation of CO2. Ensure the proper air quality in the building.
   - Coordinate temperature and humidity control to eliminate short cycling.
   - Trend Services and Setpoints to ensure systems are properly working.
   - Incorporate safeties to alert the proper personnel about faults in the system.
   - Occupied and Unoccupied modes. To help with temperatures and needs of spaces when they need to be controlled.

Conclusion:

Overall, there's a lot of options for making a better system and building environment for all here. Based on these findings we would encourage you to make this building a better environment as soon as possible for the students as these units are creating an unhealthy environment.

1) Better Air Quality - CO2 management will create a safe and energetic environment.
2) Better Temperature Control - Less temperature swings creating a climate in the building that goes unnoticed.
3) Energy Consumption - Use less energy due to not running your cooling so hard along with the heating.
4) Longer Equipment Life - By not running the equipment for so long it will give you more cycles to use the equipment over time.

Sincerely,

Rick Peyton

Rick Peyton
Project Manager
rpeyton@yalemech.com
320-293-6245

Attachment C

STRIDE ACADEMY

HVAC RTU ASSESSMENT

JB Vang Management, LLC worked with a Cities1 to provide HVAC assessment at the Stride Academy facility is located at 3701 33rd St. S, St. Cloud, MN 56301. The building is served by 53 Trane RTUs and is managed by a Schneider Electric building automation controls system.

The scope of our service is to assess the existing conditions of the 53 RTUs. This assessment is limited to the heat exchanger, compressor, economizer damper and CO levels when appropriate. The assessment will identify unit operations, deferred maintenance, area of repairs and unit replacements.

The 53 RTUs were installed in 2016 during the building construction. Some of the units served single zones while others served multiple zones. All the units are controlled by the Schneider Electric thermostat located in the service zone. All the units are 10 years old, but with regularly scheduled periodic maintenance, it would still meet the heating and cooling needs of the facility.

RTU ASSESSMENT

All the RTUs were operating at the time of the assessment. The majority of the RTUs are working properly with good functioning compressors, heat exchangers, and working economizer damper actuators. Below is a list of all the units that needed maintenance, repairs or replacement. If a unit is not called out, then there are no immediate maintenance needs.

RTU#1 has a small, cracked heat exchanger but still operating at the safe level. It will need a heat exchanger replacement soon.

RTU#3 has a bad induce motor. The motor is still running but sounds like the motor is going out soon. It should be replaced before the motor goes bad.

RTU#23 has a refrigerant leak somewhere in the system. One of the compressors is empty and will need the leak repaired and/or potentially replace the compressor. The cost to troubleshoot the leak and replace the compressor could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressor and troubleshoot the leak. Everything else is working fine currently.

RTU#32 has a refrigerant leak somewhere in the system. Compressor one is empty and will need leak troubleshooting and potential compressor replacement. The economizer is not actuating. The cost to troubleshoot the leak, replace the compressor and economizer damper could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressor. Everything else is working fine currently.

RTU#33 has a refrigerant leak somewhere in the system. Compressor one is empty and will need leak troubleshooting and potential compressor replacement. The cost to troubleshoot the leak and replace the compressor could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressor and troubleshoot the leak. Everything else is working fine currently.

RTU#34 has a bad compressor. The cooling system still has freon. It's recommended that the compressor be replaced. Everything else is working fine currently.

RTU#37 has a refrigerant leak somewhere in the system on both compressors. Compressor one is empty and will need leak troubleshooting and potential replacement. Compressor 2 is low. It will need to be troubleshoot for leak and potential compressor replacement. The cost to troubleshoot the leak and replace the two compressors could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressors and troubleshoot the leak. Everything else is working fine currently.

RTU#41 has a bad control board. The unit is in heating mode and would not switch over to cooling mode. The cooling could not be tested. The control will need to be replaced.

RTU#42 has a bad economizer control. The damper actuator where not working. The economizer board will need to be replaced to allow the damper to open.

RTU#45 has a refrigerant leak somewhere in the system. Compressor 2 is low and will need leak troubleshooting and potential compressor replacement. The cost to troubleshoot the leak and if compressor replace is needed, it could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressor and troubleshoot the leak. Everything else is working fine currently.

RTU#46 has a refrigerant leak somewhere in the system. Compressor one is empty and will need a replacement along with leak troubleshooting. The cost to troubleshoot the leak and replace the compressor could cost more than half of the replacement unit. Due to the Age of the Unit, it's recommended that the unit be replaced instead of replacing the compressor and troubleshoot the leak. Everything else is working fine currently.

RTU#53 has a bad heat exchanger. The CO reading is above 2000ppm. It will need a new heat exchanger. The damper actuator is not working. It will need to troubleshoot the actuator and potentially replace it. Everything else is working fine currently.

Of the 53 RTU units, 12 identified units will need some deferred maintenance. Of the 12 identified units, 6 units should be replaced with new units. The remaining 6 should be operational with repairs.

Cities1, the HVAC vendor that performed the RTU assessment estimating that costs of the repair and replacement work outlined above are between $200,000 - $225,000 which would include labors, materials and cranes to remove and install the units on the roof.

CARBON MONOXIDE (CO) TESTING

The carbon monoxide (CO) test was taken at the units and inside the building where we are permitted by Stride Academy. There were classrooms that we were not permitted to test as it would disrupt instructional activities. In the permissible area, the test results were below the baseline of 400ppm throughout the building. However, RTU 53 tested above 2000ppm at the unit. The heat exchanger on this unit (RTU 53) is recommended to be replaced.

BUILDING AUTOMATION SYSTEM (BAS)

The Building Automation System (BAS) is original with the system. It was installed in 2016 during the building construction. All the RTU are tied to this BAS. Change and schedule could be made from the BAS system control. We observed a couple of thermostat controls have been changed to Reliable Controls and it appears to be working fine. The building automation system appears to be working as designed and intended with physical management occurring from the desktop computer in the server room.

Attached are the specific notes from the Cities1 inspection as it relates to the specific

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PACKAGE ROOFTOP HVAC REPORT

1

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4RHADEC000A0A

Date _____ Serial Number 1604109901

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting	✓
2. Check change over setting	
3. Check mod motor & damper operation	
4. Check for comp lockout	

Air Handling

1. Change filters	
2. Check evap coil condition	
3. Check belts/size	
4. Check fan motor/lube	
5. Check drain pan and trap	

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly	
2. Check burners operation	
3. Clean burners	
4. Visual inspection heat exchanger	✓
5. Check and record gas manifold press	____ inch
6. Check CO level in stack	____ %

Heat Exchanger Replacement

Note Recommendations/Remarks: Blown Heat exchanger. good combustion Refer levels good / compressor operating Normaly. Econ working properly

Owners Rep: Service Technician:

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2

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHA0HC00H0A

Date _____ Serial Number 1608116121

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting ✓
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat exchanger in good condition. Econ working properly Full of refrigerant, compressor working properly. Reading good combustion

Owners Rep: _____ Service Technician: _____

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3

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4R17A0HC000A0A

Date _____ Serial Number 1606110301

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting
3. Check mod motor & damper operation
4. Check for comp lockout

Air Handling

1. Change filters
2. Check evap coil condition
3. Check belts/size
4. Check fan motor/lube
5. Check drain pan and trap

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation

Heating Service Check

1. Check & clean pilot & igniter assembly
2. Check burners operation
3. Clean burners
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Inducer Motor Replacement

Note Recommendations/Remarks: Heat Exchanger in good condition, Noisy Inducer motor, Econ working Properly, good combustion, Full of Refer, good compressors

Owners Rep: Service Technician:

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4

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHAOHC

Date _____ Serial Number 160811052L

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting ✓
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat Exchanges in good condition. Econ operating Full of refrigerant. Compressors operating Properly

Owners Rep: Service Technician:

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5

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHACHC000A0A

Date _____ Serial Number 1608110401

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation ___

Economizer

1. Check mixed air setting ✓
2. Check change over setting ___
3. Check mod motor & damper operation ___
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks: Heat exchangers in good condition, Econ working properly Full of Refer, compressors working properly, Reading good combustion

Owners Rep: Service Technician:

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6

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4RHA0EC

Date _____ Serial Number 160410293L

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting
3. Check mod motor & damper operation
4. Check for comp lockout

Air Handling

1. Change filters
2. Check evap coil condition
3. Check belts/size
4. Check fan motor/lube
5. Check drain pan and trap

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly
2. Check burners operation
3. Clean burners
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat exchanger in good condition, No econ, Full of Refer
Compressors operating, good combustion

Owners Rep: Service Technician:

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7

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHA0HC000A0A

Date _____ Serial Number 1608110501

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting	✓
2. Check change over setting	___
3. Check mod motor & damper operation	___
4. Check for comp lockout	___

Air Handling

1. Change filters	___
2. Check evap coil condition	___
3. Check belts/size	___
4. Check fan motor/lube	___
5. Check drain pan and trap	___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly	___
2. Check burners operation	___
3. Clean burners	___
4. Visual inspection heat exchanger	✓
5. Check and record gas manifold press	___ inch
6. Check CO level in stack	___ %

Note Recommendations/Remarks: Compressors working properly, Econ working properly, Full of Refer, Heat exchanger in good condition, good combustion test

Owners Rep: _____ Service Technician: _____

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8

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4RHA02FG

Date _____ Serial Number 1604/09706

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure GOOD ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure ___ PSI
D. Super Heat ___ at Comp

2nd Stage:

A. Head Pressure ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure ___ PSI
D. Super Heat ___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ___
5. Check Contractor Condition ___
6. Check Connections At Comp. ___
7. Check Condenser Coil & Fan OP ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation ___

Economizer

1. Check mixed air setting ___
2. Check change over setting ___
3. Check mod motor & damper operation ✓
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number Y17c092F4RHA0HC000A0A

Date _____ Serial Number 1608128251

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting
3. Check mod motor & damper operation
4. Check for comp lockout

Air Handling

1. Change filters
2. Check evap coil condition
3. Check belts/size
4. Check fan motor/lube
5. Check drain pan and trap

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation

Heating Service Check

1. Check & clean pilot & igniter assembly
2. Check burners operation
3. Clean burners
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat exchanger in good condition, good combustion test Full of Refer, compressors working properly, Econ working properly

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHA0HC000A0A

Date _____ Serial Number 160811059L

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting ___
3. Check mod motor & damper operation ___
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks: Heat exchanger in good condition, Econ working properly, good combustion test, Full of Refer, good compressors

Owners Rep: _____ Service Technician: _____

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PACKAGE ROOFTOP HVAC RE

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC092F4RHA001

Date _____ Serial Number 1608110324

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure ____ PSI
B. Suction Pressure GOOD ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2nd Stage:

A. Head Pressure ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure GOOD ____ PSI
D. Super Heat ____ at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater GOOD
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer THANE

Location _____ Model Number YHC092F4RHA02FA

Date _____ Serial Number 6008110101

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure GOOD ___ PSI
D. Super Heat ___ at Comp

2nd Stage:

A. Head Pressure ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure GOOD ___ PSI
D. Super Heat ___ at Comp

2. Refrigerant Charge ___ OK ___ ADD ✓
3. Check Crankcase Heater ___
4. Tighten All Electrical Connections ___
5. Check Contractor Condition ___
6. Check Connections At Comp. ___
7. Check Condenser Coil & Fan OP ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation ___

Economizer

1. Check mixed air setting ___
2. Check change over setting ___
3. Check mod motor & damper operation ✓
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location _____
Date _____
Cities No. _____

Equip Manufacturer TRANE
Model Number XHC048F4RHAG2FA
Serial Number 1604109SOL
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure Good ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

~~**2nd Stage:**~~
~~A. Head Pressure ____ PSI~~
~~B. Suction Pressure ____ PSI~~
~~C. Oil Pressure ____ PSI~~
~~D. Super Heat ____ at Comp~~

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater Cold
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation Good
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger Good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: _____ Service Technician: _____

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4RHA0001

Date _____ Serial Number 1604102491C

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure GOOD ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure ___ PSI
D. Super Heat ___ at Comp

~~**2nd Stage:**~~

~~A. Head Pressure~~ ___ PSI
~~B. Suction Pressure~~ ___ PSI
~~C. Oil Pressure~~ ___ PSI
~~D. Super Heat~~ ___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater COLD
4. Tighten All Electrical Connections ___
5. Check Contractor Condition ___
6. Check Connections At Comp. ___
7. Check Condenser Coil & Fan OP ___

Economizer

1. Check mixed air setting ___
2. Check change over setting ___
3. Check mod motor & damper operation GOOD
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4HA0EC000A0A

Date _____ Serial Number 1604109301

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting ___
3. Check mod motor & damper operation ___
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks: Heat exchanger in good condition, Econ working properly. good combustion test, Full of Refer, Compressors working Properly

Owners Rep: _____ Service Technician: _____

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #16
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHADEC000A0A000
Serial Number 6044094DL
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater ____
4. Tighten All Electrical Connections ____
5. Check Contractor Condition ____
6. Check Connections At Comp. ____
7. Check Condenser Coil & Fan OP ____

Economizer

1. Check mixed air setting ____
2. Check change over setting ____
3. Check mod motor & damper operation ____
4. Check for comp lockout ____

Air Handling

1. Change filters ____
2. Check evap coil condition ____
3. Check belts/size ____
4. Check fan motor/lube ____
5. Check drain pan and trap ____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - .
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Check Thermostat Operation ____

ing Service Check

- heck & clean pilot & igniter assembly ____
- heck burners operation ____
3. ean burners ____
4. sual inspection heat exchanger ____
5. Check and record gas manifold press ____ inch
6. Check CO level in stack ____ %

All items are okay

Note Recommendations/Remarks:

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #17
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC092F4RHA0HC0000 A0A000
Serial Number 1.6081102QL
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

No concerns @ this time

Note Recommendations/Remarks:

Owners Rep: _____

Service Technician: Taylor Taddock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #18
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHADEC
Serial Number 1604108891
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Everything is Okay

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #19
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHADECO0000
Serial Number 16041022FL
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Everything is okay

Note Recommendations/Remarks:

Owners Rep:

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #20
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC092F4RHA0HC00000
Serial Number 6081104 2L
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____ PSI
B. Suction Pressure	____ PSI
C. Oil Pressure	____ PSI
D. Super Heat	____ at Comp

2nd Stage:

A. Head Pressure	____ PSI
B. Suction Pressure	____ PSI
C. Oil Pressure	____ PSI
D. Super Heat	____ at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Everything is okay

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer #21
Location
Date
Cities No.

Equip Manufacturer Trane
Model Number YHC048F4RHADEC000000
Serial Number 16041027 1L
Job Number

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater ____
4. Tighten All Electrical Connections ____
5. Check Contractor Condition ____
6. Check Connections At Comp. ____
7. Check Condenser Coil & Fan OP ____

Economizer

1. Check mixed air setting ____
2. Check change over setting ____
3. Check mod motor & damper operation ____
4. Check for comp lockout ____

Air Handling

1. Change filters ____
2. Check evap coil condition ____
3. Check belts/size ____
4. Check fan motor/lube ____
5. Check drain pan and trap ____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Check Thermostat Operation ____

Heating Service Check

1. Check & clean pilot & igniter assembly ____
2. Check burners operation ____
3. Clean burners ____
4. Visual inspection heat exchanger ____
5. Check and record gas manifold press ____ inch
6. Check CO level in stack ____ %

charge is ok
Heat exchanger is okay
economizer is okay
Compressor is okay
CO is low

Note Recommendations/Remarks:

Owners Rep:

Service Technician: Tayler Tatlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #22
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC038E4RHA1PC000A0A000
Serial Number 16041-1000L
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

All items are okay

Note Recommendations/Remarks:

Owners Rep: _____

Service Technician: Taylor Tadlock

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(23)

10 ton

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer Trane

Location _____ Model Number YHC120F4RHAOHC

Date _____ Serial Number 16091028SL

Cities No. _____ Job Number _____

unit #2.

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

• 1 of 2 A/C circuits is empty, all else is working.

Note Recommendations/Remarks:

Owners Rep: Service Technician: Taylor Tadlock

Replacement Cost

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PACKAGE ROOFTOP HVAC REPORT

Customer _____

Location #24

Date _____

Cities No. _____

Equip Manufacturer Trane

Model Number 4YCC4024A1060AA

Serial Number 16023 5229H

Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2nd Stage:

A. Head Pressure ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater ____
4. Tighten All Electrical Connections ____
5. Check Contractor Condition ____
6. Check Connections At Comp. ____
7. Check Condenser Coil & Fan OP ____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Check Thermostat Operation ____

Economizer

1. Check mixed air setting ____
2. Check change over setting ____
3. Check mod motor & damper operation ____
4. Check for comp lockout ____

Air Handling

1. Change filters ____
2. Check evap coil condition ____
3. Check belts/size ____
4. Check fan motor/lube ____
5. Check drain pan and trap ____

Heating Service Check

1. Check & clean pilot & igniter assembly ____
2. Check burners operation ____
3. Clean burners ____
4. Visual inspection heat exchanger ____
5. Check and record gas manifold press ____ inch
6. Check CO level in stack ____ %

Taylor Tadlock

Note Recommendations/Remarks: Heat exchanger is okay charge is okay, ~~Disconnect makes tstat wire N/A so not sure of working condition.~~ Heat works, economizer works, compressor works

Owners Rep: _____ Service Technician: _____

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer Trane

Location #25 Model Number YHC048F4RHAOEC000000

Date _____ Serial Number 1604101831

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: All is okay

Owners Rep: _____ Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #26
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHA0EC000000
Serial Number 6041216IL
Job Number _____

Service Check - Compressor good

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____ good
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____ good
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: No concerns

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #27
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC092F4RHA0HC000AP
Serial Number 16081098ZL
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Heat exchanger good, economizer work, Refrigerant charge is fine, compressors work

Owners Rep:

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #28
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHADEC0000
Serial Number 1604108231
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger Good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Works Fine

Owners Rep: _____

Service Technician: Taylor

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #[illegible] 29
Date _____
Cities No. _____

Equip Manufacturer _____
Model Number YHC0924RHAOHC0000000000
Serial Number 1608110221
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Okay

Owners Rep:

Service Technician: Taylor

7.5 ton

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #40 2 30 or
Date 0 31
Cities No. _____

Equip Manufacturer _____
Model Number YHC092F4RHA0HC000A0A0000
Serial Number 1608109921
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	_____	_____	_____
Amps	L1	L2	L3
	_____	_____	_____
Megohms	L1	L2	L3
	_____	_____	_____

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat exchanger fine Economizer works, Ref charged, Compressors work, Heat works

Owners Rep:

Service Technician: Taylor Tadlock

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17.5 ton

PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #32
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHD210G4RHA04D0B0A1
Serial Number 16091.0460D
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Circuit 1 is empty
economizer does not actuate
everything else is okay

Note Recommendations/Remarks:

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

17.5 ton

Customer _____
Location #33
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHD210G4RHA014D0B0A1A0
Serial Number 160904700
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____ PSI
B. Suction Pressure	____ PSI
C. Oil Pressure	____ PSI
D. Super Heat	____ at Comp

2nd Stage:

A. Head Pressure	____ PSI
B. Suction Pressure	____ PSI
C. Oil Pressure	____ PSI
D. Super Heat	____ at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

circuit 1 is empty, all else okay

Note Recommendations/Remarks:

Owners Rep: _____ Service Technician: Taylor Tedlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHD210G4RHAGE2B

Date _____ Serial Number 1609104S0D

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2 Comp

2nd Stage:

A. Head Pressure		___ PSI VARYLOUD
B. Suction Pressure	BAD	___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater N/A
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

2nd Stage Compressor

Note Recommendations/Remarks:

Owners Rep: Service Technician:

COMP #2 (RIGHT SIDE) BAD OR WRONG PHASE

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #35
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHA0EC000A0
Serial Number 160410845L
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation ok
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger ok
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: Heat exchanger okay, charge okay, economizer okay, compressor works, heat works.

Owners Rep: _____ Service Technician: _____

Taylor Tadlock

#36

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location _____
Date _____
Cities No. _____

Equip Manufacturer TRANE
Model Number YHC092F4RHA02FG
Serial Number 1608110021
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2nd Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

7.5 ton #37

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location _____
Date _____
Cities No. _____

Equip Manufacturer TRANE
Model Number YHC092F4RHA02FA
Serial Number 1608109721
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	EMPTY	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2nd Stage:

A. Head Pressure	50	PSI
B. Suction Pressure	0	PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ___ OK ✓ ADD
3. Check Crankcase Heater BOTH WORK
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. ~~Check belts/size~~ _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

R410

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation ✓
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Refer Leak Replacement Cost

Note Recommendations/Remarks:

Owners Rep: Service Technician:

LEFT comp - ONE COMP EMPTY - NO REFRIG
OTHER COMP LOW

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHC092F4RHA0001

Date _____ Serial Number 6081282 7L

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2nd Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater GOOD
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting GOOD
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

UNIT TESTS GOOD

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location _____
Date _____
Cities No. _____

Equip Manufacturer TRANE
Model Number YHC092F4RHA02FA
Serial Number 1608110674
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	PSI
B. Suction Pressure		PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2nd Stage:

A. Head Pressure	GOOD	PSI
B. Suction Pressure		PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting GOOD
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters ✓
2. Check evap coil condition ✓
3. ~~Check belts/size~~ _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: GOOD

Owners Rep: _____ Service Technician: _____

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #40 7
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC048F4RHAOEB0000
Serial Number 1604102054
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: No concerns

Owners Rep: _____

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHH210G4RHA0AR3

Date _____ Serial Number 1609104570

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	NA	____ PSI
B. Suction Pressure		____ PSI
C. Oil Pressure		____ PSI
D. Super Heat		____ at Comp

2nd Stage:

A. Head Pressure	NA	____ PSI
B. Suction Pressure		____ PSI
C. Oil Pressure		____ PSI
D. Super Heat		____ at Comp

2. Refrigerant Charge ____ OK ____ ADD ✓
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation Good
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger Good
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Control Issue

Note Recommendations/Remarks:

Owners Rep: Service Technician:

UNIT WAS IN HEAT MODE UPON ARRIVAL
UNIT WILL NOT SWITCH MODES-

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #42
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHH210G4RHA0400B0A1A00
Serial Number 1609103985
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Heat exchanger N/A
System has a charge
Compressors work
Economizer did not actuate
Heat works

Note Recommendations/Remarks:

Owners Rep: _____ Service Technician: _____

§ Electrical Work & Econ Board

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #43
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHH210G4RHA0400B0A1A0000
Serial Number 160910467D
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2nd Stage:

A. Head Pressure ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater ____
4. Tighten All Electrical Connections ____
5. Check Contractor Condition ____
6. Check Connections At Comp. ____
7. Check Condenser Coil & Fan OP ____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	____	____	____
Amps	L1	L2	L3
	____	____	____
Megohms	L1	L2	L3
	____	____	____

Check Thermostat Operation ____

Economizer

1. Check mixed air setting ____
2. Check change over setting ____
3. Check mod motor & damper operation ____
4. Check for comp lockout ____

Air Handling

1. Change filters ____
2. Check evap coil condition ____
3. Check belts/size ____
4. Check fan motor/lube ____
5. Check drain pan and trap ____

Heating Service Check

1. Check & clean pilot & igniter assembly ____
2. Check burners operation ____
3. Clean burners ____
4. Visual inspection heat exchanger ____
5. Check and record gas manifold press ____ inch
6. Check CO level in stack ____ %

no heat, all else OK

Note Recommendations/Remarks:

Owners Rep:

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #44
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC060F4RHA0BC000A0
Serial Number 1604108301
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks: No Concerns

Owners Rep: _____

Service Technician: Taylor Taddock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number XHC060F4RHA02FA

Date _____ Serial Number 1611223SC

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure GOOD ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure ___ PSI
D. Super Heat ___ at Comp

2nd Stage:

A. Head Pressure ___ PSI
B. Suction Pressure ___ PSI
C. Oil Pressure ___ PSI
D. Super Heat ___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater LITTLE LOW ___
4. Tighten All Electrical Connections ___
5. Check Contractor Condition ___
6. Check Connections At Comp. ___
7. Check Condenser Coil & Fan OP ___

Economizer

1. Check mixed air setting ___
2. Check change over setting ___
3. Check mod motor & damper operation GOOD
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Low Refrigerant
unit Replacement ?

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #46
Date _____
Cities No. _____

Equip Manufacturer Trane
Model Number YHC120F4RHA0HC000A00
Serial Number 1609102821
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Replace Unit

- 1 of 2 circuits is empty of charge, heat exchanger good, Heat works, economizer works

Note Recommendations/Remarks:

Owners Rep:

Service Technician: Taylor Tadlock

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHC092F4RHA02FC

Date _____ Serial Number 1608110751

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2nd Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater GOOD
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: _____ Service Technician: _____

#48

CITIES 1
PLUMBING • HEATING • AIR CONDITIONING
787 HUBBARD AVENUE, ST. PAUL, MN 55104 • 651-274-6547 • CallCities1.com

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHC092F4RHA02FG

Date _____ Serial Number 1608110834

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat		___ at Comp

2nd Stage:

A. Head Pressure	GOOD	___ PSI
B. Suction Pressure		___ PSI
C. Oil Pressure		___ PSI
D. Super Heat	✓	___ at Comp

2. Refrigerant Charge ___ OK ___ ADD ✓
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting GOOD ___
2. Check change over setting ___
3. Check mod motor & damper operation ___
4. Check for comp lockout ___

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: _____ Service Technician: _____

#49

CITIES 1
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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHC092F4RHA0001

Date _____ Serial Number 1608128261

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	GOOD	PSI
B. Suction Pressure		PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2nd Stage:

A. Head Pressure	GOOD	PSI
B. Suction Pressure		PSI
C. Oil Pressure		PSI
D. Super Heat		at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater GOOD
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press _____ inch
6. Check CO level in stack _____ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

#50

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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer TRANE

Location _____ Model Number YHC092F4RHA0001

Date _____ Serial Number 1608128284

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure GOOD ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2nd Stage:

A. Head Pressure GOOD ____ PSI
B. Suction Pressure ____ PSI
C. Oil Pressure ____ PSI
D. Super Heat ____ at Comp

2. Refrigerant Charge ✓ OK ____ ADD
3. Check Crankcase Heater GOOD
4. Tighten All Electrical Connections ____
5. Check Contractor Condition ____
6. Check Connections At Comp. ____
7. Check Condenser Coil & Fan OP ____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
Amps	L1	L2	L3
Megohms	L1	L2	L3

Check Thermostat Operation ____

Economizer

1. Check mixed air setting ____
2. Check change over setting ____
3. Check mod motor & damper operation GOOD
4. Check for comp lockout ____

Air Handling

1. Change filters ____
2. Check evap coil condition ____
3. Check belts/size ____
4. Check fan motor/lube ____
5. Check drain pan and trap ____

Heating Service Check

1. Check & clean pilot & igniter assembly ____
2. Check burners operation ____
3. Clean burners ____
4. Visual inspection heat exchanger GOOD
5. Check and record gas manifold press ____ inch
6. Check CO level in stack ____ %

Note Recommendations/Remarks:

Owners Rep: Service Technician:

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51

PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC060F4RHAIRC000AOA

Date _____ Serial Number 161112491

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting ✓
2. Check change over setting ___
3. Check mod motor & damper operation ___
4. Check for comp lockout ___

Air Handling

1. Change filters ___
2. Check evap coil condition ___
3. Check belts/size ___
4. Check fan motor/lube ___
5. Check drain pan and trap ___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly ___
2. Check burners operation ___
3. Clean burners ___
4. Visual inspection heat exchanger ✓
5. Check and record gas manifold press ___ inch
6. Check CO level in stack ___ %

Note Recommendations/Remarks: Econ is working, Heat exchanger in good condition Good combustion test, Full of Refer, Compressor working properly

Owners Rep: _____ Service Technician: _____

52

CITIES 1
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PACKAGE ROOFTOP HVAC REPORT

Customer _____ Equip Manufacturer _____

Location _____ Model Number YHC048F4RHAOEC000A0X

Date _____ Serial Number 1604110881

Cities No. _____ Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2nd Stage:

A. Head Pressure	✓	PSI
B. Suction Pressure	✓	PSI
C. Oil Pressure	___	PSI
D. Super Heat	___	at Comp

2. Refrigerant Charge ✓ OK ___ ADD
3. Check Crankcase Heater ✓
4. Tighten All Electrical Connections ✓
5. Check Contractor Condition ✓
6. Check Connections At Comp. ✓
7. Check Condenser Coil & Fan OP ✓

Economizer

1. Check mixed air setting	✓
2. Check change over setting	___
3. Check mod motor & damper operation	___
4. Check for comp lockout	___

Air Handling

1. Change filters	___
2. Check evap coil condition	___
3. Check belts/size	___
4. Check fan motor/lube	___
5. Check drain pan and trap	___

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3
	___	___	___
Amps	L1	L2	L3
	___	___	___
Megohms	L1	L2	L3
	___	___	___

Check Thermostat Operation ___

Heating Service Check

1. Check & clean pilot & igniter assembly	___
2. Check burners operation	___
3. Clean burners	___
4. Visual inspection heat exchanger	✓
5. Check and record gas manifold press	___ inch
6. Check CO level in stack	___ %

Note Recommendations/Remarks: Heat exchanger in good condition, good combustion Full of Refer, Compressor working properly, Econ is working

Owners Rep: Service Technician:

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PACKAGE ROOFTOP HVAC REPORT

Customer _____
Location #52/53
Date _____
Cities No. _____

Equip Manufacturer _____
Model Number YHC048F4RHA0EC000A0A
Serial Number 1604108674
Job Number _____

Service Check - Compressor

1. Install Gauges and Check

1st Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2nd Stage:

A. Head Pressure	____	PSI
B. Suction Pressure	____	PSI
C. Oil Pressure	____	PSI
D. Super Heat	____	at Comp

2. Refrigerant Charge ____ OK ____ ADD
3. Check Crankcase Heater _____
4. Tighten All Electrical Connections _____
5. Check Contractor Condition _____
6. Check Connections At Comp. _____
7. Check Condenser Coil & Fan OP _____

Electrical Compressor

Voltage:

1st Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Voltage:

2nd Stage	L1 - L2	L2 - L3	L1 - L3

Amps	L1	L2	L3

Megohms	L1	L2	L3

Check Thermostat Operation _____

Economizer

1. Check mixed air setting _____
2. Check change over setting _____
3. Check mod motor & damper operation _____
4. Check for comp lockout _____

Air Handling

1. Change filters _____
2. Check evap coil condition _____
3. Check belts/size _____
4. Check fan motor/lube _____
5. Check drain pan and trap _____

Heating Service Check

1. Check & clean pilot & igniter assembly _____
2. Check burners operation _____
3. Clean burners _____
4. Visual inspection heat exchanger _____
5. Check and record gas manifold press _____ inch
6. Check CO level in stack 2000 ppm _____ %

Heat Exchanger

Shut Gas off to unit due to 2,000 ppm of CO. Compressor works, charge is fine, economizer does not work.

Note Recommendations/Remarks:

Owners Rep:

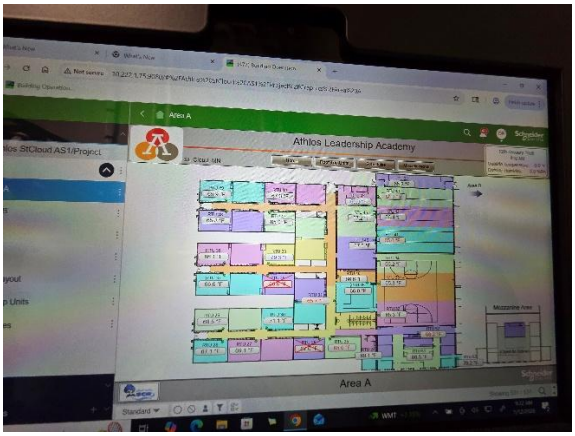
Service Technician: Taylor Tedlock

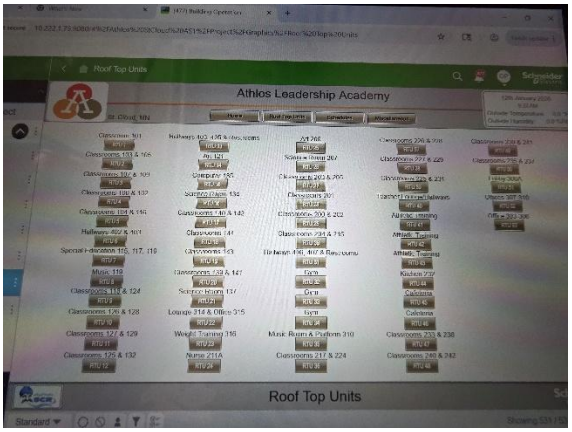
Building Automation System

Schneider Electric



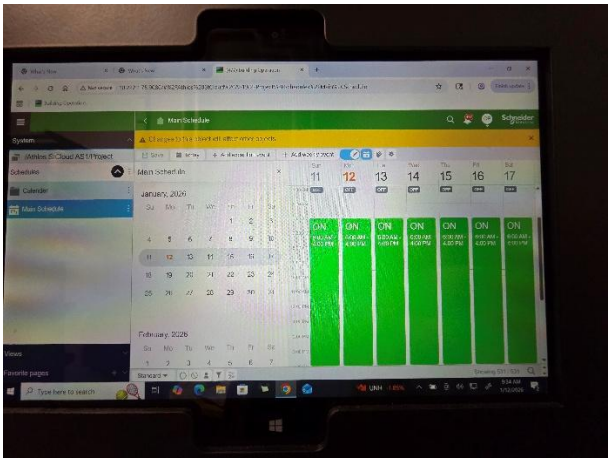


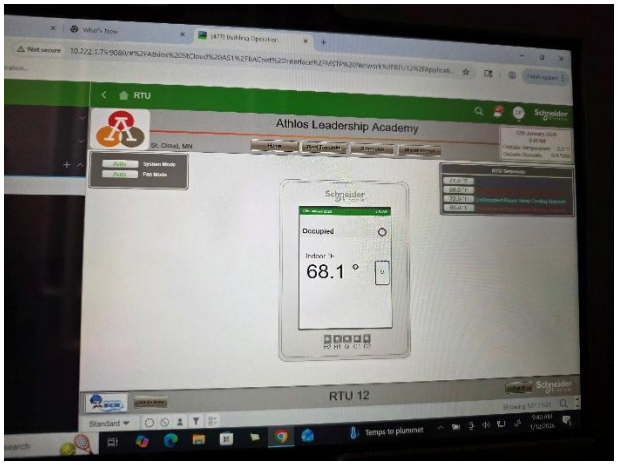






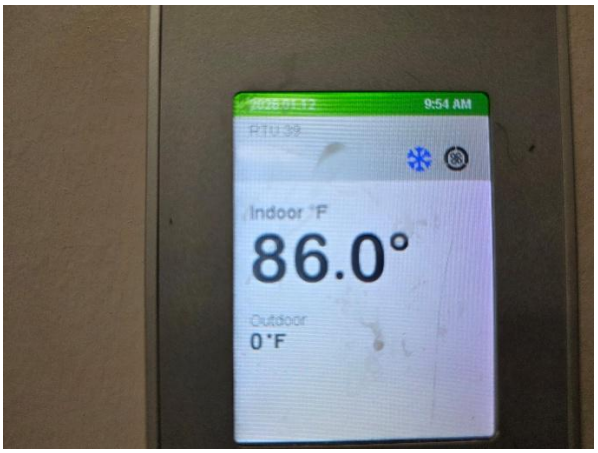






Control Panels and Schedules

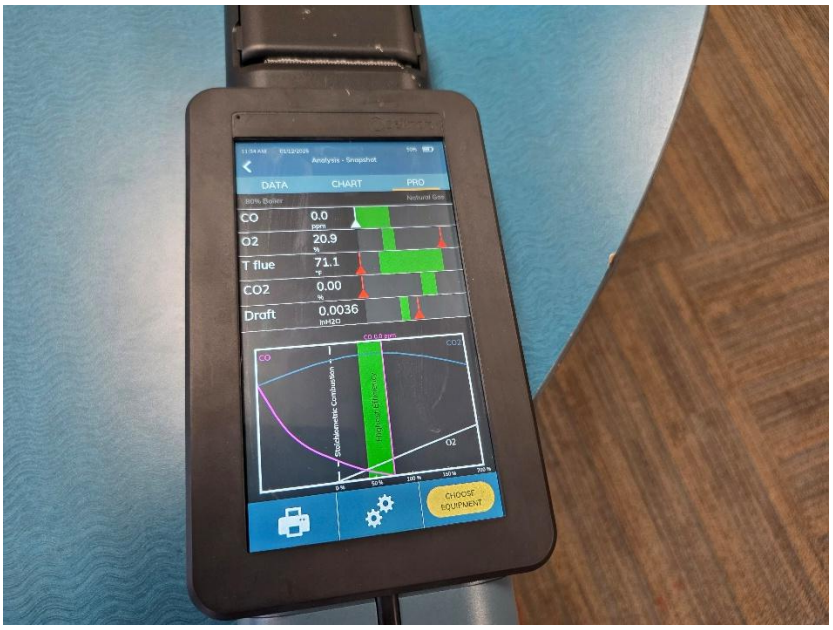






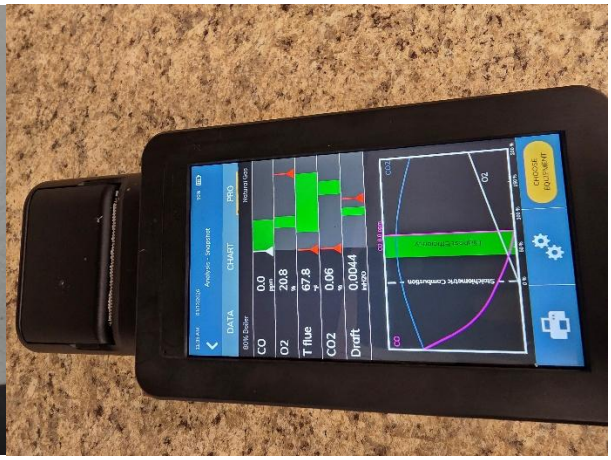
RTU 39 and inside Room 225





Inside Room 227

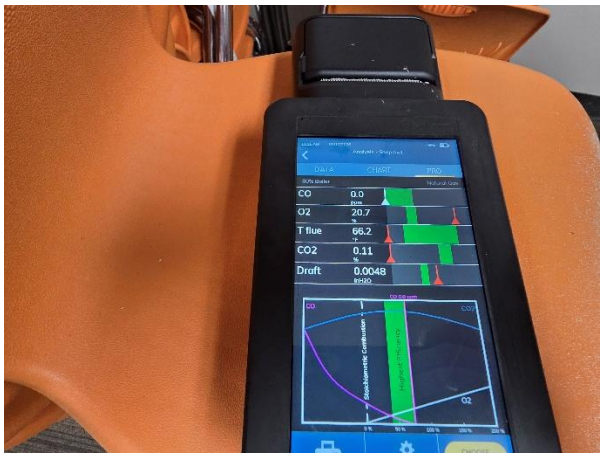

RTU AC-38
Indoor °F
67.0°
Outdoor
0 °F


DATA
CHART
PRO
CO
0.0
O2
20.8
T flue
67.8
CO2
0.06
Draft
0.0044
Stoichiometric Combustion


228

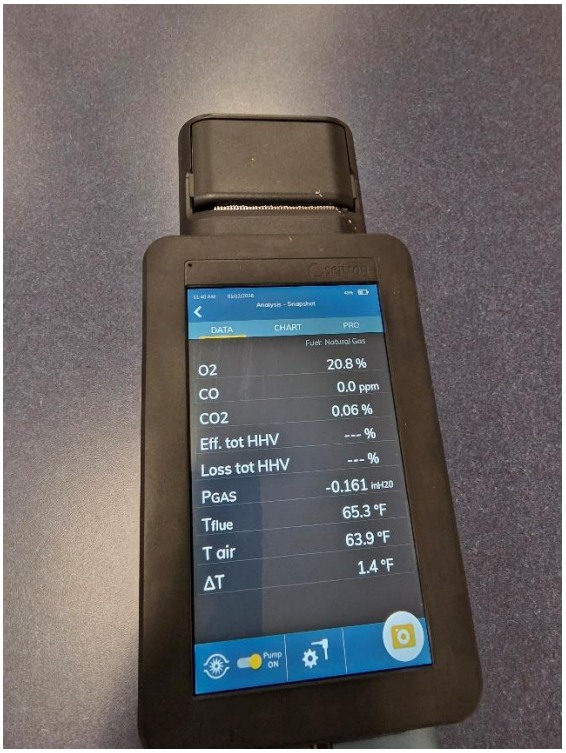
RTU38


Indoor °F
67.0°
Outdoor
0 °F


DATA
CHART
PRO
CO
0.0
O2
20.7
T flue
66.2
CO2
0.11
Draft
0.0048

RTU 37







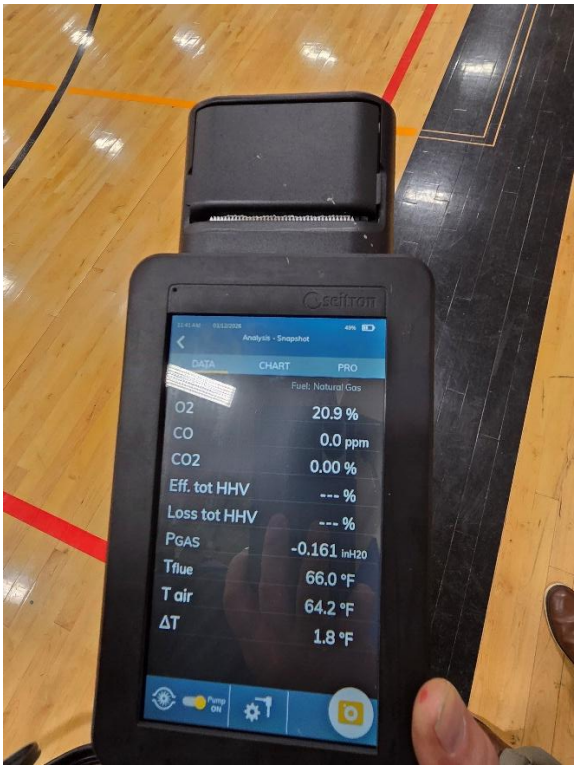
RTU 46 Room 224





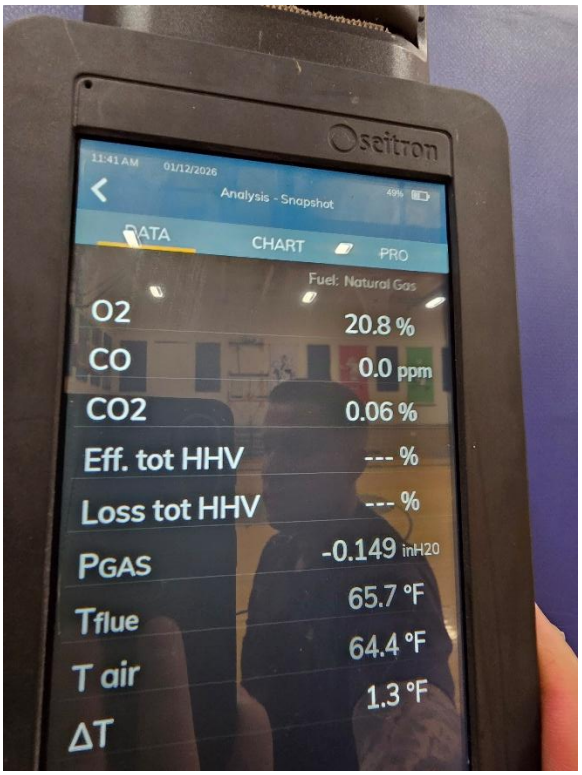
GYM RTU 34





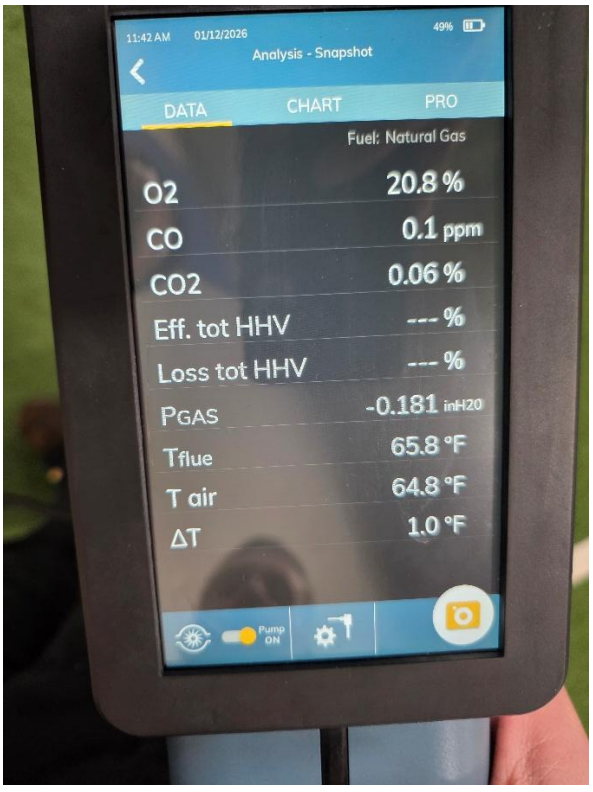
GYM RTU 33



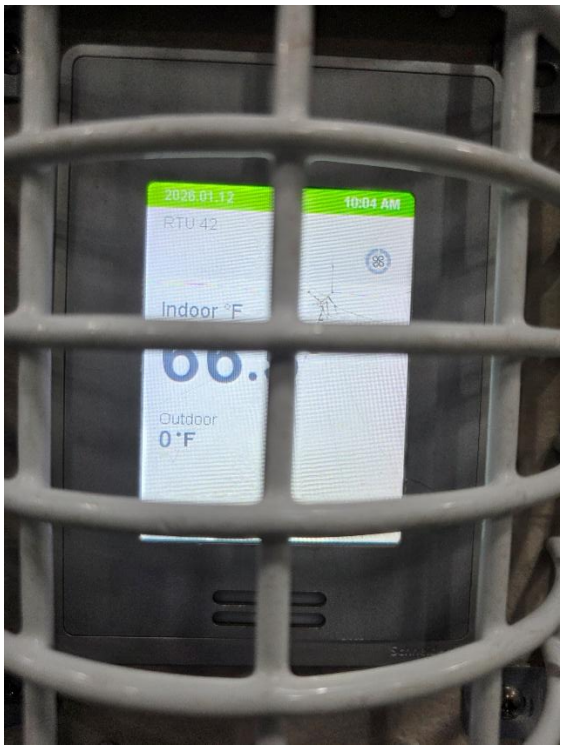


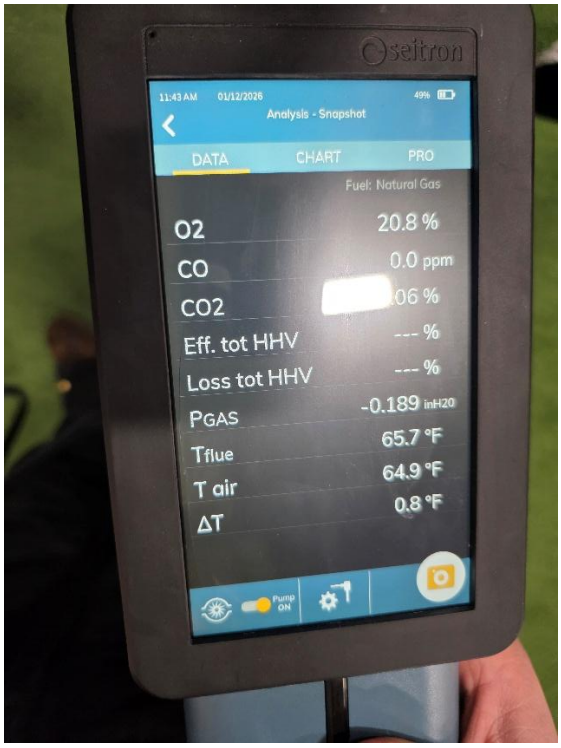
RTU 32 GYM





RTU 41 Field House





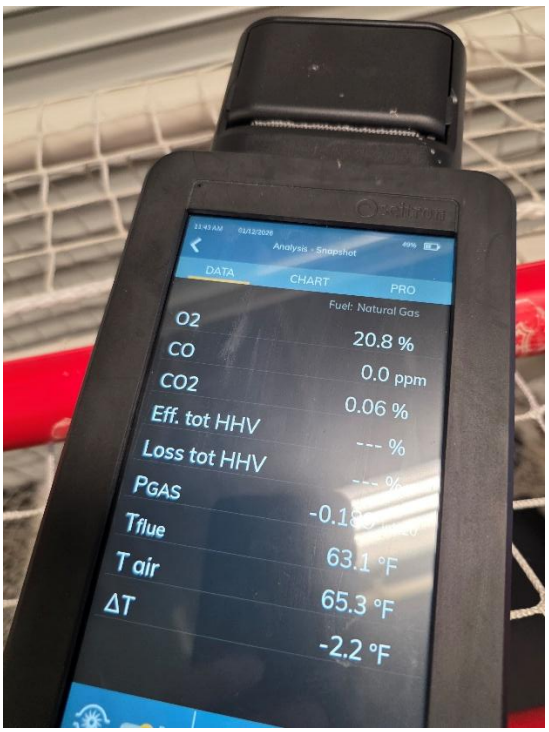
RTU 42 Field House



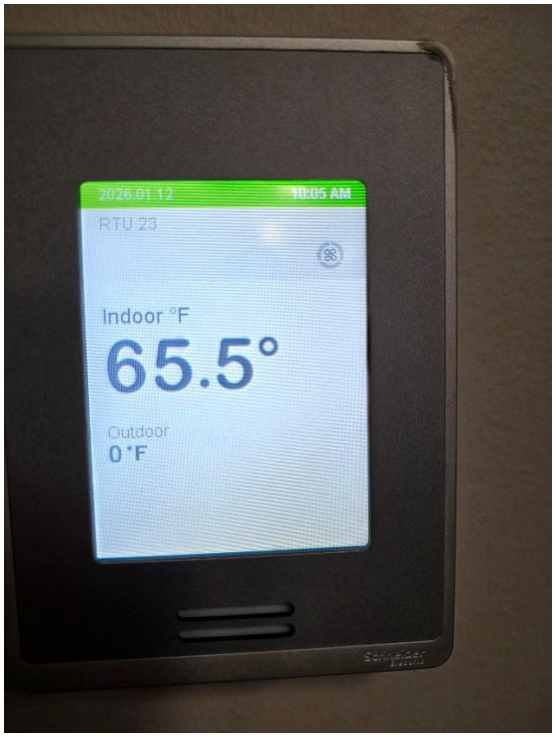


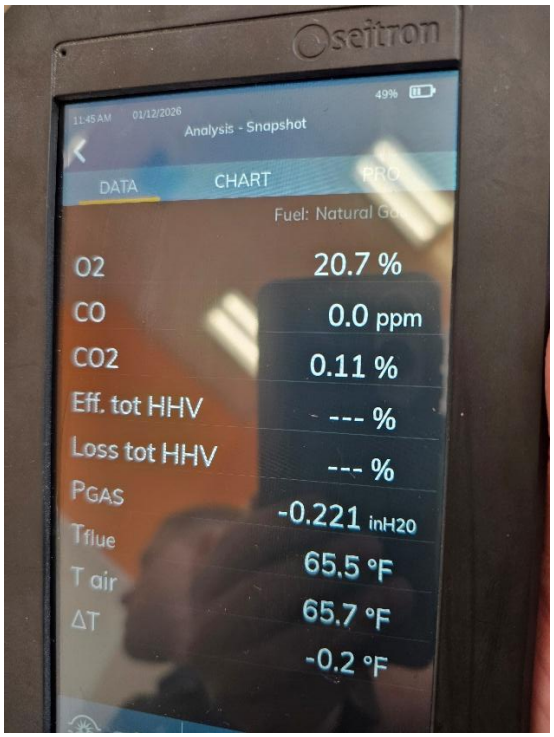
RTU 43 Filed House


2026.01.12
10:07 AM
RTU 51
Interior °F
68.5°
Exterior
0 °F


Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2
20.8 %
CO
0.0 ppm
CO2
0.06 %
Eff. tot HHV
--- %
Loss tot HHV
PGAS
Tflue
63.1 °F
T air
65.3 °F
ΔT
-2.2 °F

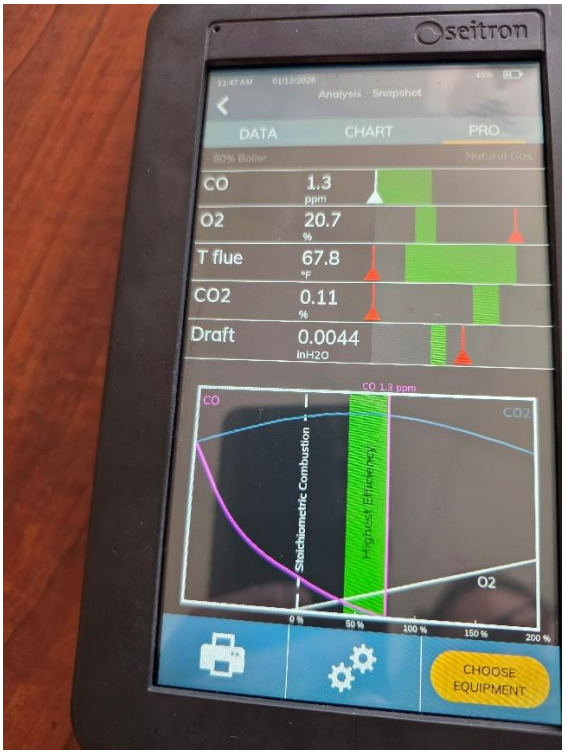
RTU 51


2026.01.12
10:05 AM
RTU 23
Indoor °F
65.5°
Outdoor
0 °F

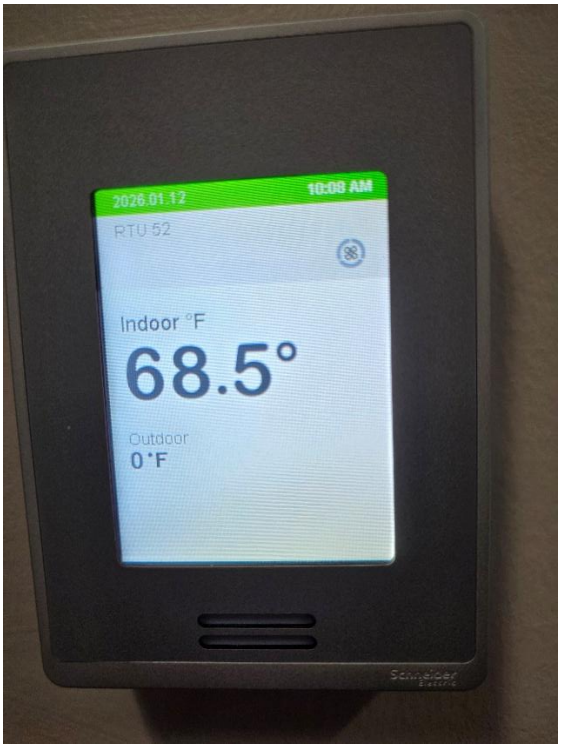

Analysis - Snapshot
DATA
CHART
O2
20.7 %
CO
0.0 ppm
CO2
0.11 %
Eff. tot HHV
--- %
Loss tot HHV
--- %
PGAS
-0.221 inH20
Tflue
65.5 °F
T air
65.7 °F
ΔT
-0.2 °F

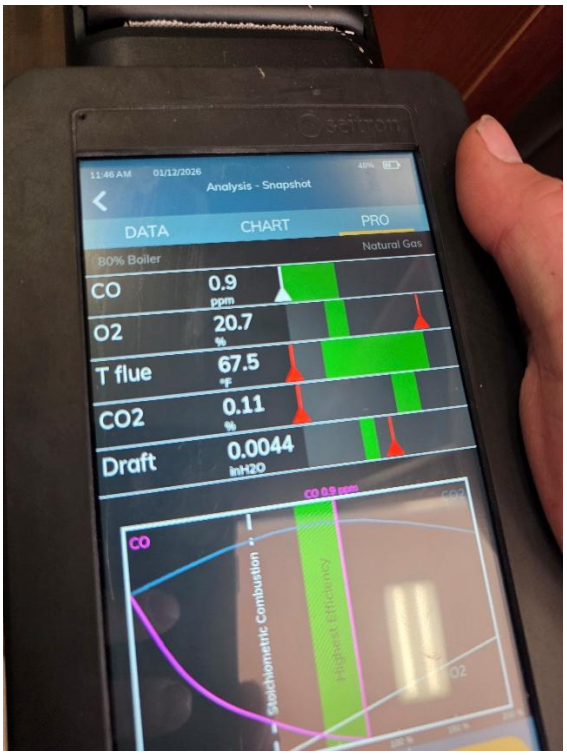
RTU 23



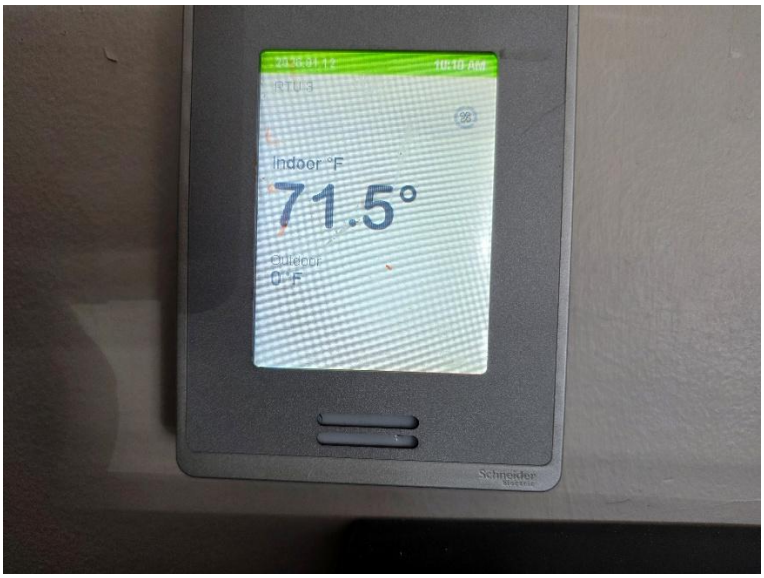


RTU 53 Office Area





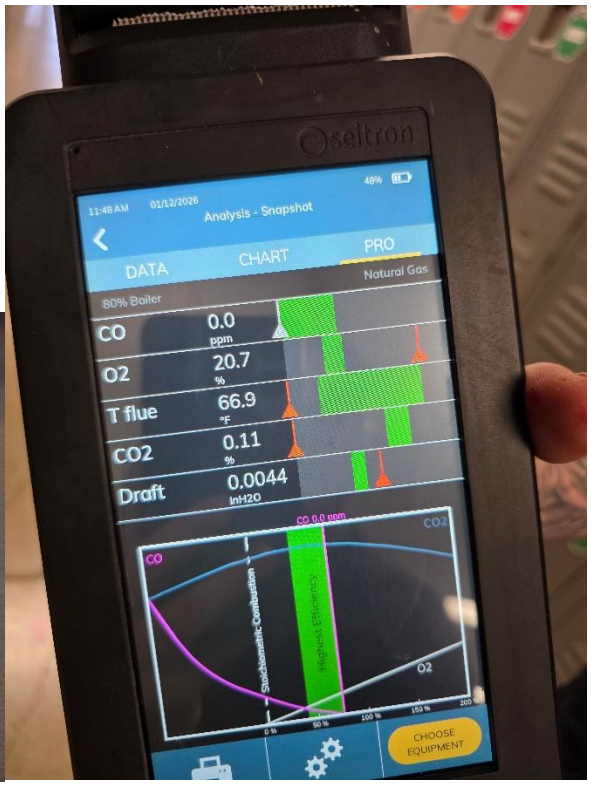
RTU 52


Indoor °F
71.5°
Outdoor
0 °F


11:48 AM
01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
80% Boiler
Natural Gas
CO
0.0
ppm
O2
20.7
%
T flue
67.1
°F
CO2
0.11
%
Draft
0.0040
inH2O
CO
CO2
O2
CHOOSE EQUIPMENT

RTU 3


Indoor °F
70.0°
Humidity
25%
Outdoor
0°F


seitron
11:48 AM
01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
Natural Gas
80% Boiler
CO
0.0
ppm
O2
20.7
%
T flue
66.9
°F
CO2
0.11
%
Draft
0.0044
inH2O
CO 0.0 ppm
CO
CO2
O2
Stoichiometric Combustion
Highest Efficiency
CHOOSE EQUIPMENT

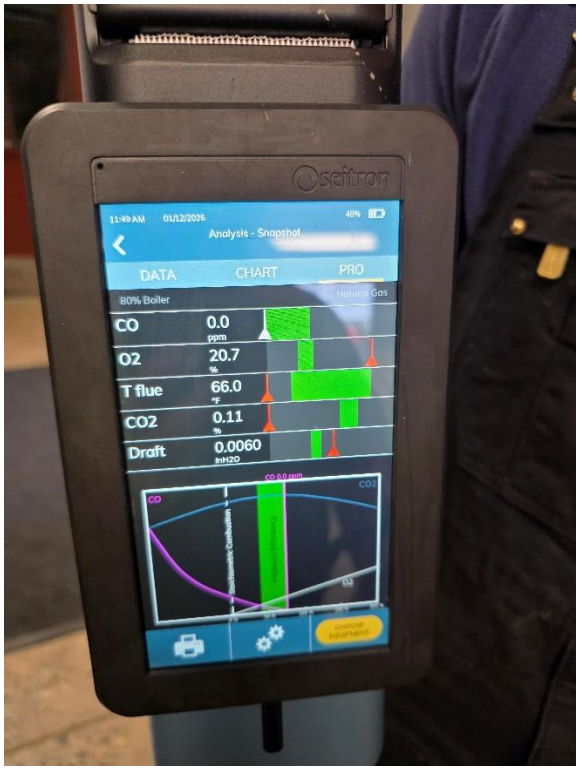
RTU 2


2026.01.12
10:10
RTU 6
Indoor °F
68.0°
Outdoor
0°F

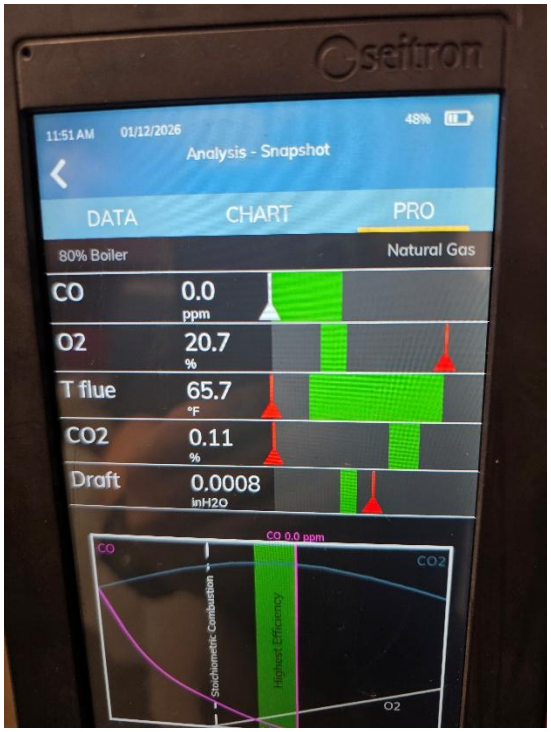

seitron
11:49 AM
01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
Natural Gas
80% Boiler
CO
0.0
ppm
O2
20.7
%
T flue
67.1
°F
CO2
0.11
%
Draft
0.0056
inH2O
CO 0.0 ppm
CO
CO2
O2
Stoichiometric Combustion
Highest Efficiency
CHOOSE EQUIPMENT

RTU 6


10:11 AM
RTU-4
68.9°F
Reliable

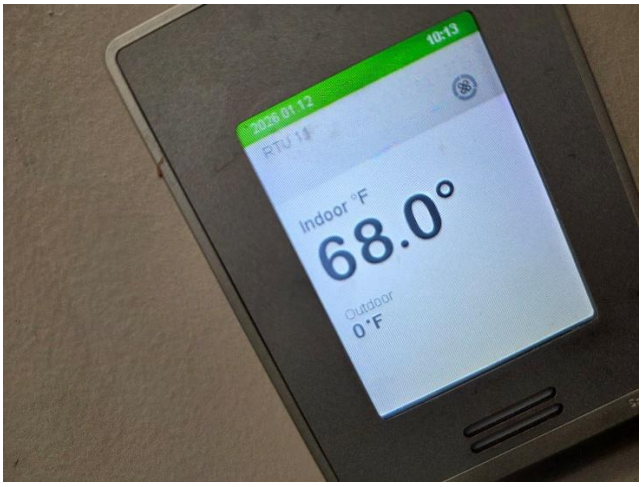

seitron
11:49 AM 01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
80% Boiler
Natural Gas
CO 0.0 ppm
O2 20.7 %
T flue 66.0 °F
CO2 0.11 %
Draft 0.0060 inH2O

RTU 4


seitron
11:51 AM 01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
80% Boiler
Natural Gas
CO 0.0 ppm
O2 20.7 %
T flue 65.7 °F
CO2 0.11 %
Draft 0.0008 inH2O
CO 0.0 ppm
CO
CO2
O2
Stoichiometric Combustion
Highest Efficiency

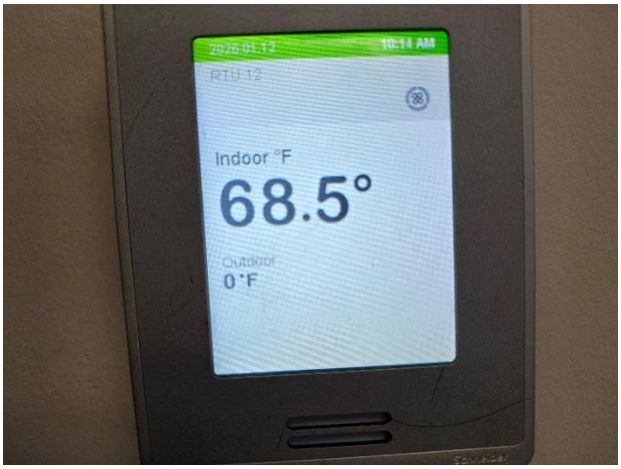

Indoor °F
69.0°
Outdoor
0 °F

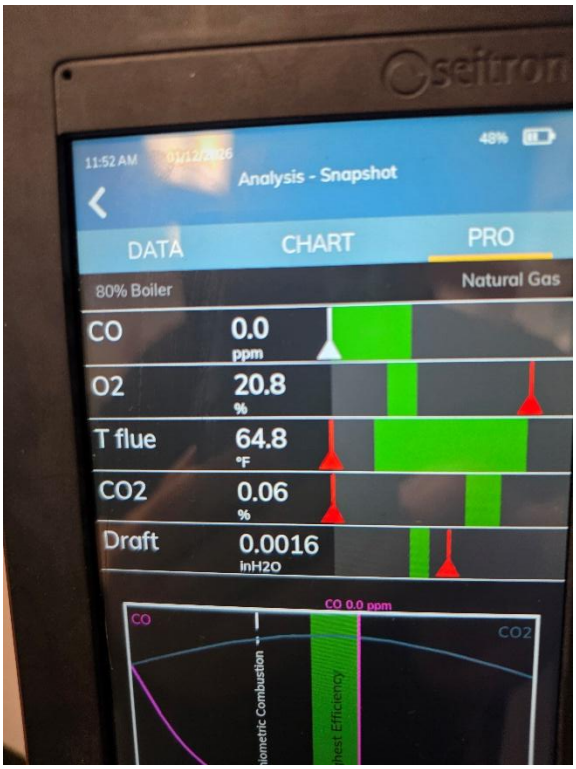
RTU 10


2026 01 12
10:13
RTU 11
Indoor °F
68.0°
Outdoor
0°F

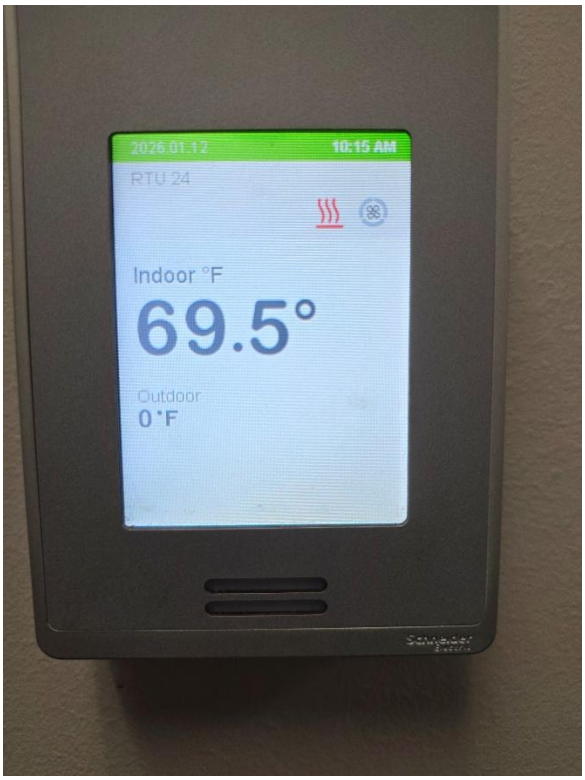

seitron
11:51 AM
01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
80% Boiler
Natural Gas
CO
0.0
ppm
O2
20.6
%
T flue
65.1
°F
CO2
0.17
%
Draft
0.0008
inH2O
CO 0.0 ppm
CO
CO2
O2

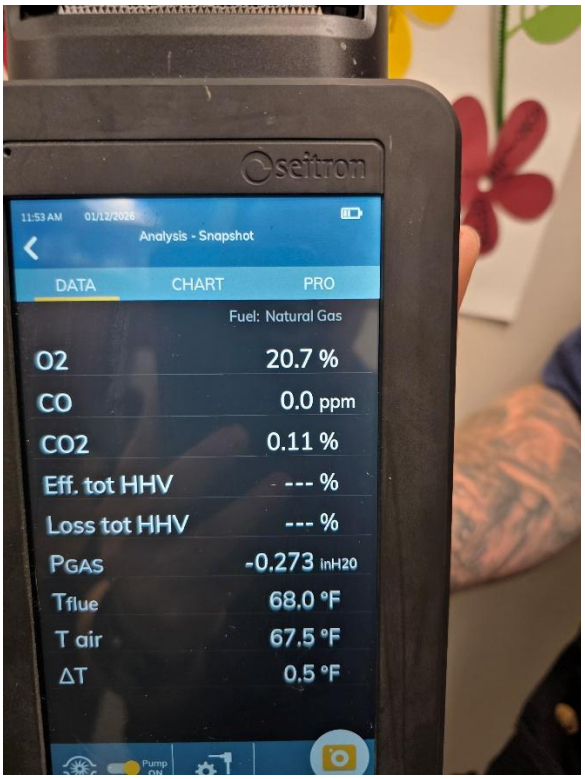
RTU 11


2026 01 12
10:14 AM
RTU 12
Indoor °F
68.5°
Outdoor
0°F


seitron
11:52 AM
48%
Analysis - Snapshot
DATA
CHART
PRO
80% Boiler
Natural Gas
CO
0.0
ppm
O2
20.8
%
T flue
64.8
°F
CO2
0.06
%
Draft
0.0016
inH2O
CO 0.0 ppm
CO
CO2

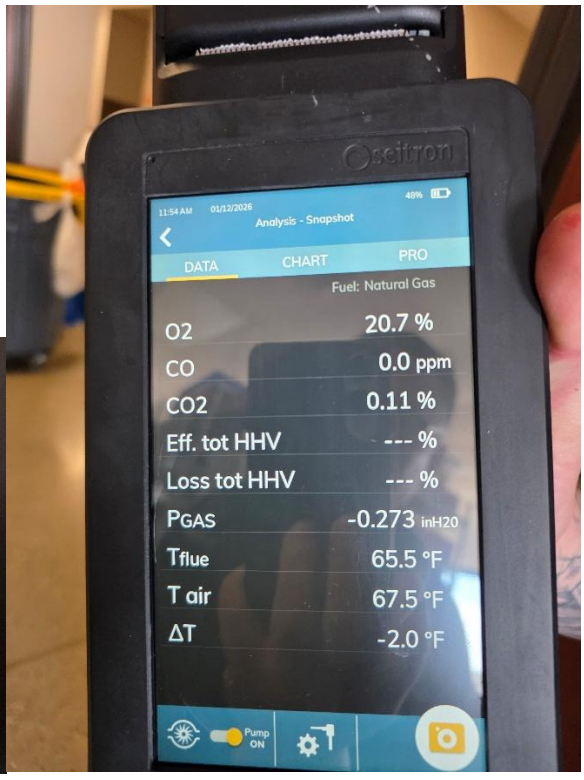
RTU 12


2026.01.12
10:15 AM
RTU 24
Indoor °F
69.5°
Outdoor
0 °F


seitron
11:53 AM 01/12/2026
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.7 %
CO 0.0 ppm
CO2 0.11 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0,273 inH20
Tflue 68.0 °F
T air 67.5 °F
ΔT 0.5 °F

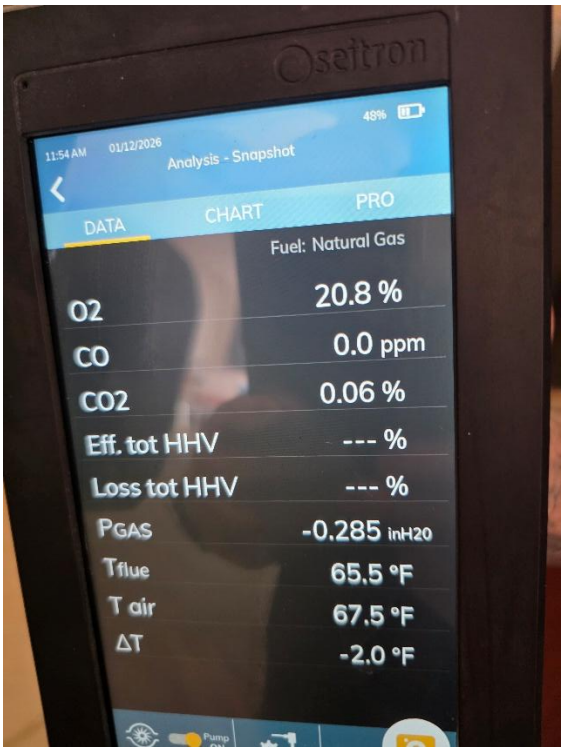
RTU24


10:15 AM
Indoor °F
69.5°
Outdoor
0 °F


seitron
11:54 AM 01/12/2026
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.7 %
CO 0.0 ppm
CO2 0.11 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0.273 inH20
Tflue 65.5 °F
T air 67.5 °F
ΔT -2.0 °F
Pump ON

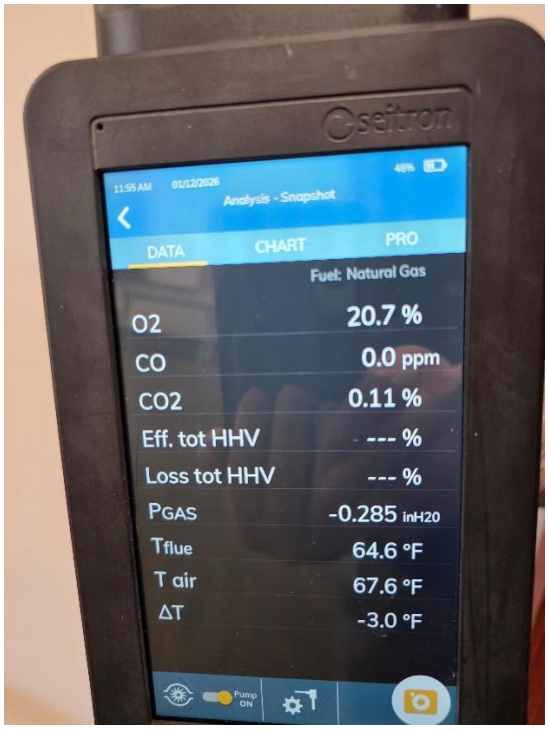
RTU 26


Indoor °F
68.0°
Outdoor
0 °F


Oseitron
11:54 AM 01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.8 %
CO 0.0 ppm
CO2 0.06 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0.285 inH20
Tflue 65.5 °F
T air 67.5 °F
ΔT -2.0 °F

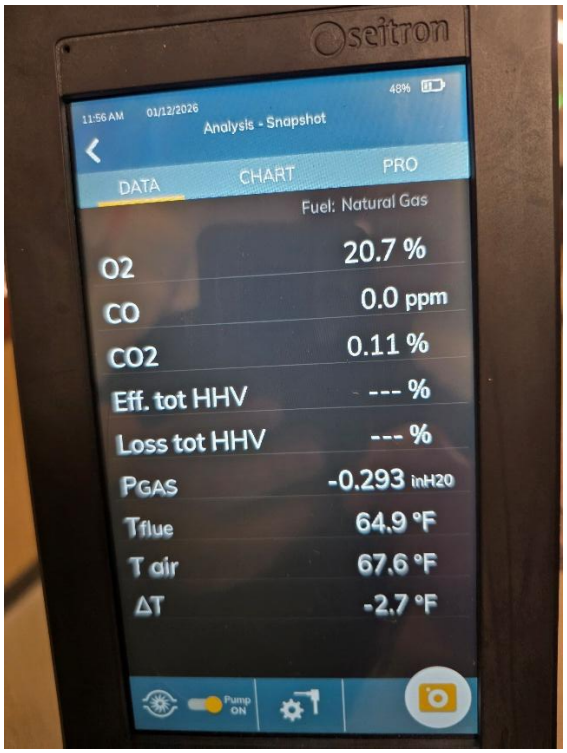
RTU 27


Indoor °F
68.0°
Outdoor
0 °F


Oseitron
11:55 AM 01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.7 %
CO 0.0 ppm
CO2 0.11 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0.285 inH20
Tflue 64.6 °F
T air 67.6 °F
ΔT -3.0 °F

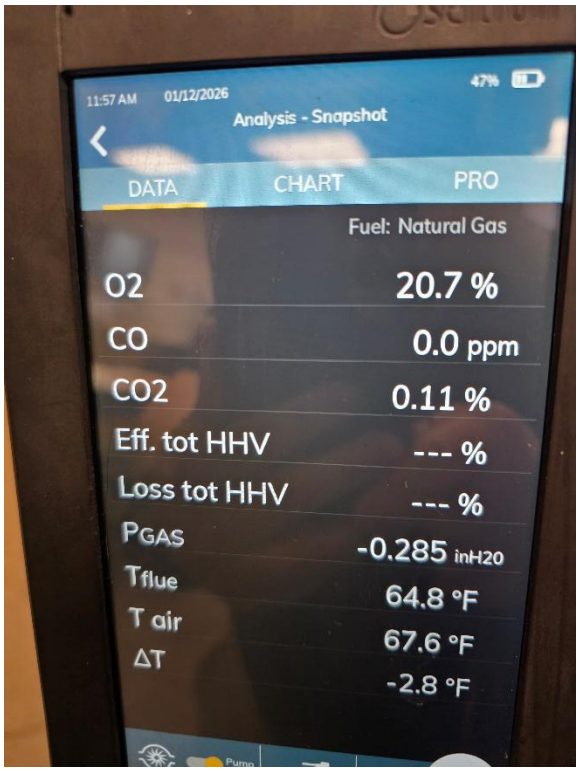
RTU 29


2026.01.12
10:17
RTU 31
Indoor °F
65.5°
Outdoor
0 °F


seitron
11:56 AM
01/12/2026
48%
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.7 %
CO 0.0 ppm
CO2 0.11 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0.293 inH20
Tflue 64.9 °F
T air 67.6 °F
ΔT -2.7 °F
Pump ON

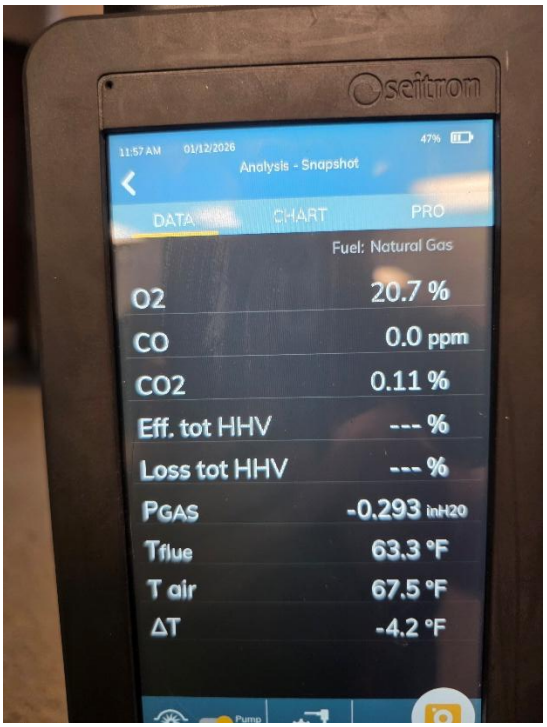
RTU 31


10:19 AM
RTU 50
Indoor °F
69.0°
Outdoor
0 °F


11:57 AM
01/12/2026
47%
Analysis - Snapshot
DATA
CHART
PRO
Fuel: Natural Gas
O2 20.7 %
CO 0.0 ppm
CO2 0.11 %
Eff. tot HHV --- %
Loss tot HHV --- %
PGAS -0.285 inH20
Tflue 64.8 °F
T air 67.6 °F
ΔT -2.8 °F

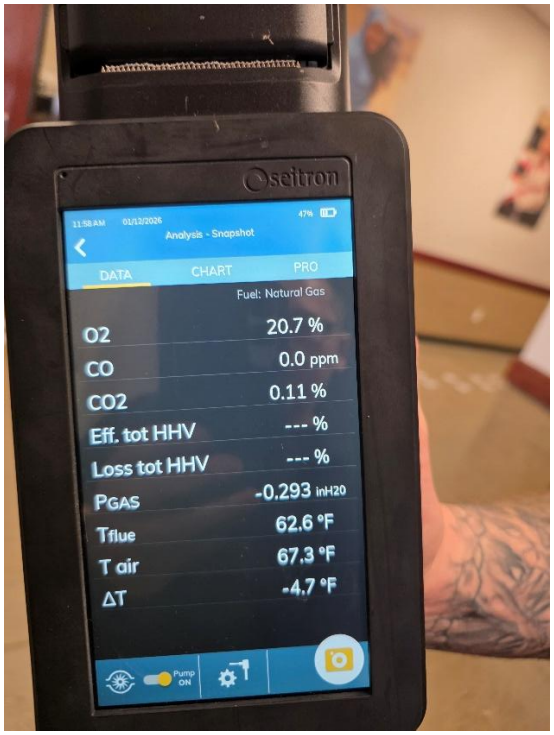
RTU 50





RTU 48





Hallway outside 235

RTU # 8

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	
Date	01/12/2026
Time	02:11 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	5.7 %
CO	2.1 ppm
CO2	8.51 %
Eff.tot HHV	84.3 %
Loss tot HHV	15.7 %
P gas	0.000 inH20
T flue	303.1 °F
T air	62.4 °F
ΔT	240.7 °F
Exc. air	38 %
O2 Reference	0 %
CO Air Free	2.9 ppm
Draft	0.0835 inH20

Notes

Oper.	ALAN
Model	ovo 1-P
Serial	100088921
Sign.	#11
Date	01/12/2026
Time	02:47 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	9.9 %
CO	14.3 ppm
CO2	6.16 %
Eff.tot HHV	82.4 %
Loss tot HHV	17.6 %
P gas	0.056 inH20
T flue	306.3 °F
T air	57.7 °F
ΔT	248.6 °F
Exc. air	90 %
O2 Reference	0 %
CO Air Free	27.2 ppm
Draft	0.1136 inH20

Notes

RTU #12

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	
Date	01/12/2026
Time	02:38 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	11.5 %
CO	21.3 ppm
CO2	5.26 %
Eff.tot HHV	81.9 %
Loss tot HHV	18.1 %
P gas	0.036 inH20
T flue	286.7 °F
T air	57.9 °F
ΔT	228.8 °F
Exc. air	122 %
O2 Reference	0 %
CO Air Free	47.3 ppm
Draft	0.1381 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	00008921
Sign.	

#13

Date	01/12/2026
Time	02:26 PM

Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %

O2	7.9 %
CO	11.1 ppm
CO2	7.28 %
Eff.tot HHV	83.3 %
Loss tot HHV	16.7 %
P gas	0.000 inH20
T flue	315.0 °F
T air	61.0 °F
ΔT	254 °F
Exc. air	61 %
O2 Reference	0 %
CO Air Free	17.8 ppm
Draft	0.0518 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#14
Date	01/12/2026
Time	02:52 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	7.1 %
CO	36.4 ppm
CO2	7.73 %
Eff.tot HHV	82.9 %
Loss tot HHV	17.1 %
P gas	0.020 inH20
T flue	341.4 °F
T air	60.4 °F
ΔT	281 °F
Exc. air	51 %
O2 Reference	0 %
CO Air Free	55.1 ppm
Draft	0.0992 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#34
Date	01/12/2026
Time	01:38 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	6.0 %
CO	0.0 ppm
CO2	8.34 %
Eff.tot HHV	83.1 %
Loss tot HHV	16.9 %
P gas	-0.084 inH20
T flue	350.4 °F
T air	59.7 °F
ΔT	290.7 °F
Exc. air	40 %
O2 Reference	0 %
CO Adjustee	0.0 ppm
Draft	0.1317 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#36
Date	01/12/2026
Time	10:18 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	10.4 %
CO	10.6 ppm
CO2	5.88 %
Eff.tot HHV	80.5 %
Loss tot HHV	19.5 %
P gas	-0.237 inH20
T flue	335.3 °F
T air	40.8 °F
ΔT	294.5 °F
Exc. air	99 %
O2 Reference	0 %
CO Air Free	21.1 ppm
Draft	0.2806 inH20

Notes

#37

Oper.	ALAN
Model	Novo 1-P
Serial	100688921
Sign.	
Date	01/ /'
Time	0
Fuel	Natu
Altitude	
R.H. air	%
O2	11
CO	15 5
CO2	5.5
Eff.tot HHV	81.2
Loss tot HHV	18
P gas	-0.056 inH
T flue	293.0 °F
T air	31.6 °F
ΔT	261.4 °F
Exc. air	111 %
O2 Reference	0 %
CO Air Free	32.7 ppm
Draft	0.6909 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#38
Date	01/12/2026
Time	10:09 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	11.5 %
CO	13.3 ppm
CO2	5.26 %
Eff.tot HHV	81.3 %
Loss tot HHV	18.7 %
P gas	-0.169 inH20
T flue	284.7 °F
T air	37.0 °F
ΔT	247.7 °F
Exc. air	122 %
O2 Reference	0 %
CO Air Free	29.6 ppm
Draft	0.3280 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#39
Date	01/12/2026
Time	09:52 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	11.1 %
CO	15.5 ppm
CO2	5.49 %
Eff.tot HHV	81.7 %
Loss tot HHV	18.3 %
P gas	-0.124 inH20
T flue	278.4 °F
T air	34.7 °F
ΔT	243.7 °F
Exc. air	113 %
O2 Reference	0 %
CO Air Free	33.1 ppm
Draft	0.3501 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#40
Date	01/12/2026
Time	11:12 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	7.9 %
CO	70.3 ppm
CO2	7.28 %
Eff.tot HHV	82.3 %
Loss tot HHV	17.7 %
P gas	-0.454 inH20
T flue	342.5 °F
T air	51.1 °F
ΔT	291.4 °F
Exc. air	61 %
O2 Reference	0 %
CO Air Free	113.0 ppm
Draft	0.1080 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial #41	100088921
Sign.	
Date	01/12/2026
Time	01:05 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	6.3 %
CO	0.0 ppm
CO2	8.17 %
Eff.tot HHV	81.2 %
Loss tot HHV	18.8 %
P gas	-0.028 inH20
T flue	420.3 °F
T air	56.1 °F
ΔT	364.2 °F
Exc. air	43 %
O2 Reference	0 %
CO Air Free	0.0 ppm
Draft	0.2039 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#42
Date	01/12/2026
Time	01:12 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	5.6 %
CO	0.0 ppm
CO2	8.57 %
Eff.tot HHV	81.4 %
Loss tot HHV	18.6 %
P gas	-0.028 inH20
T flue	423.0 °F
T air	56.8 °F
ΔT	366.2 °F
Exc. air	37 %
O2 Reference	0 %
CO Air Free	0.0 ppm
Draft	0.3637 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#45
Date	01/12/2026
Time	12:57 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	8.2 %
CO	5.8 ppm
CO2	7.11 %
Eff.tot HHV	82.4 %
Loss tot HHV	17.6 %
P gas	-0.048 inH20
T flue	335.5 °F
T air	58.6 °F
ΔT	276.9 °F
Exc. air	65 %
O2 Reference	0 %
CO Air Free	9.5 ppm
Draft	0.0763 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	
Date	01/12/2026
Time	12:46 PM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	10.7 %
CO	20.3 ppm
CO2	5.71 %
Eff.tot HHV	82.4 %
Loss tot HHV	17.6 %
P gas	0.000 inH20
T flue	288.5 °F
T air	55.0 °F
ΔT	233.5 °F
Exc. air	105 %
O2 Reference	0 %
CO Air Free	41.6 ppm
Draft	0.2746 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	
Date	01/12/2026
Time	10:35 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	10.7 %
CO	13.8 ppm
CO2	5.71 %
Eff.tot HHV	81.8 %
Loss tot HHV	18.2 %
P gas	-0.329 inH20
T flue	295.0 °F
T air	44.4 °F
ΔT	250.6 °F
Exc. air	105 %
O2 Reference	0 %
CO Air Free	28.3 ppm
Draft	0.2626 inH20

#48

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#49
Date	01/12/2026
Time	11:06 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	10.5 %
CO	12.1 ppm
CO2	5.82 %
Eff.tot HHV	84.2 %
Loss tot HHV	15.8 %
P gas	-0.422 inH20
T flue	230.9 °F
T air	49.3 °F
ΔT	181.6 °F
Exc. air	101 %
O2 Reference	0 %
CO Air Free	24.3 ppm
Draft	0.2465 inH20

Notes

Oper.	ALAN
Model	Novo 1-P
Serial	100088921
Sign.	#50
Date	01/12/2026
Time	10:45 AM
Fuel	Natural Gas
Altitude	0 ft
R.H. air	50 %
O2	10.3 %
CO	14.9 ppm
CO2	5.93 %
Eff.tot HHV	83.3 %
Loss tot HHV	16.7 %
P gas	-0.393 inH20
T flue	258.4 °F
T air	48.4 °F
ΔT	210 °F
Exc. air	97 %
O2 Reference	0 %
CO Air Free	29.4 ppm
Draft	0.1598 inH20

Notes