



City of Meriden, Connecticut

Purchasing Department

Invitation to Bid

For

Installation of a Waste Oil Heater and Paddle Fans

Meriden, CT

B021-04

Bids Due: October 15, 2020 @ 11:00 a.m.

Purchasing Department

142 East Main Street, Room 210

Meriden, CT 06450

(203) 630-4115

LEGAL NOTICE

INVITATION TO BID

The City of Meriden is accepting sealed bids for:

B021-04 WASTE OIL BOILER AND PADDLE FANS CITY GARAGE

The City of Meriden is seeking bids from qualified vendors for the complete installation of a Clean Energy or Energy Logic 330-350 BTU waste oil heater in accordance with manufacturing instructions and comply with Federal, State, or Local codes.

Bid will include estimated ROI estimated savings on existing 38,400 square foot garage. Existing facility is heated by natural gas heating units. Central Garage collects a 1000 gallons of waste oil yearly, plus \$350.00 yearly charge to remove oil.

Bids shall be submitted on forms and in the manner specified. Forms and specifications may be obtained from the Purchasing Department, on the City of Meriden website (www.meridenct.gov/business/bids-rfps/), and on the State of Connecticut Department of Administrative Services website (www.biznet.ct.gov). Bids will be accepted at the Purchasing Department, 142 East Main Street, Room 210, Meriden, Connecticut 06450 until **11:00 AM, local, Eastern Standard Time on October 15, 2020** at which time they will be publicly opened and read. Any bid received after the time and date specified shall not be considered.

The right is reserved to reject any or all bids, in whole or in part, to award any item, group of items, or total bid, and to waive informality or technical defects, if it is deemed to be in the best interest of the City of Meriden. No bidder may withdraw its bid within sixty (60) days of the date of the bid opening.

The City of Meriden is an Affirmative Action/Equal Opportunity Employer. Disadvantaged, minority, small, and women business enterprises are encouraged to respond.

Adam B. Tulin
Purchasing Officer
City of Meriden, CT 06450-8022
Dated: September 15, 2020

CITY OF MERIDEN, CONNECTICUT

B021-04 WASTE OIL BOILER

INFORMATION TO BIDDERS

1. BIDDING PROCEDURES

Sealed Bids shall be submitted on the forms designated by the attached proposal bid forms. Bids will be received by the City of Meriden's Purchasing Department, Room 210, City Hall, 142 East Main Street, Meriden, Connecticut, 06450-8022 until 11:00 AM on October 15, 2020 and thereafter immediately read in public (the "bid opening").

2. BIDS

Bids are to be submitted on the attached proposal forms. Please submit two copies of the proposal forms and Bidder's Qualification Statement. One shall be an original and one can be a copy. Please submit an additional copy of the bid on flash drive with your bid package.

BID WILL BE AUTOMATICALLY REJECTED FOR ANYONE SUBMITTING A SURETY OTHER THAN THOSE SPECIFIED.

- a. Bids must be made out and signed in the corporate, or other, name of Bidder, and must be fully and properly executed by an authorized person.
- b. The sealed envelope must denote the Bidder's name and address in the upper left hand corner and the words "**BID DOCUMENT - B021-04 WASTE OIL BOILER AND PADDLE FANS to be opened at 11:00 AM.**" in the lower left hand corner.
- c. Bids received later than the time and date specified will not be considered.
- d. Amendments to or withdrawal of bids received later than the date and time set forth in the bid opening will not be considered.
- e. All prices must be in ink or typewritten. In the event of a bidder's mathematical error in tabulating any bid prices, *the written unit prices shall govern.*

3. BIDDER QUALIFICATIONS

Bidders will be required to fill out, and include as part of its bid, any attached Bidder's Qualification Statement.

In determining the qualifications of a bidder, the City of Meriden will consider the bidder's record of performance in any prior contracts for construction work. The City of Meriden expressly reserves the right to reject a bid if the bidder's historical performance, in the sole opinion of the City of Meriden, has been unsatisfactory in any manner or if the bidder has habitually and without just cause neglected the payment of bills or has otherwise disregarded its obligations to subcontractors, suppliers, or employees.

4. EXAMINATION OF BIDDING DOCUMENTS

Bidders are to examine all documents and visit the site in order to make a thorough examination of the conditions so that the bidder may familiarize itself with all of the existing requirements, conditions, and difficulties that will affect the execution of the work in order to determine the amount of work necessary to carry out the true intent of the specifications and work shown on the drawings.

The City of Meriden and its agents do not have any responsibility for the accuracy, completeness, or sufficiency of any bid document obtained from any other source other than from the City of Meriden. Obtaining documents from any other source(s) may result in obtaining incomplete and inaccurate information. Obtaining documents from any other source may also result in failure to receive any addenda, corrections, or other revisions to the documents that may be issued.

No request shall be honored if such request is made less than seven (7) calendar days prior to the date fixed for the opening of bids. Any and all such interpretations, and any supplementary instructions, will be in the form of a written addenda to the specifications which, if issued, will be made available on the City of Meriden website (www.meridenct.gov) unless it is to change the date fixed for the opening of bids, not later than three (3) days prior to the date fixed for the opening of bids. Bidders are encouraged to check the website regularly for addenda. Failure of any bidder to receive any such addenda shall not relieve any bidder from any obligations under its bid as submitted.

Any questions about the bid document must be submitted in writing via email to meridenpurchasing@meridenct.gov. Any other format of question will not be answered.

5. BIDS TO REMAIN OPEN

No bidder may withdraw its bid within sixty (60) days of the date of the bid opening. Should there be reason why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the City of Meriden and the successful bidder.

6. AWARD OF CONTRACT

The Purchasing Officer reserves the right to make an award on the bid which, by the Purchasing Officer's judgment and recommendation from the Public Works Department following bid evaluations, best meets the specifications and is deemed to be in the best interest of the City of Meriden.

The contract will not be awarded to any corporation, firm, or individual which/who is in arrears to the City of Meriden by debt or contract, or who is in default as security or otherwise by any obligation to the City of Meriden.

The right is reserved to reject any or all bids, in whole or in part, to award any item, group of items, or total bid, and to waive informality or technical defects, if it is deemed to be in the best interest of the City of Meriden.

7. CITY OF MERIDEN, LOCAL PREFERENCE

In determining the lowest responsible bidder, the Purchasing Department shall also consider Local Preference.

This section shall not apply in those instances where the bid requested involves a cooperative purchasing arrangement between the City of Meriden and other municipalities or the State of Connecticut.

Bidders are specifically advised that the City of Meriden has adopted Section 3-14 of the Code of the City of Meriden which requires, but is not limited to, a local preference requiring, in part, that a "City-based business" shall mean a business with its principal place of business located within the boundaries of the City of Meriden. A business shall not be considered a "City-based business" unless evidence has been submitted, satisfactory to the Purchasing Department, with each bid (forms included in bidding documents) to establish that the bidder has a bona fide principal place of business, operates out of, or pays property taxes on personal property in the City of Meriden.

Any City-based business bidder which has submitted a bid not more than ten (10) percent higher than the low bid provided such City-based business bidder agrees to accept the award of the bid at the amount of the low bid. The acceptance shall be submitted in writing to the Purchasing Department no later than next business day following the opening of the bid. For example, a bid opened at 11:00 a.m. on a Monday must be accepted by the City-based bidder no later than 11:00 a.m. on Tuesday. If more than one City-based business bidder has submitted bids not more than ten (10) percent higher than the low bid and has agreed to accept the award of the bid at the amount of the low bid, the lowest responsible bidder shall be one of the City-based business bidders which has submitted the lowest bid.

Bidders claiming status under the local preference are hereby required to submit with its bid an additional form, titled "Request for Status as a Meriden Based Business."

8. EXTENSION OF AGREEMENT

Thirty (30) days prior to the expiration of the resulting contract, the parties may, by mutual agreement, extend the contract for up to three (3) years. Any extension must be in writing, executed by both parties.

9. TIME

Inasmuch as the contract concerns a public improvement, the provisions of the contract relating to the time of performance and completion of the work are of the essence of the contract. Accordingly, the successful bidder/contractor ("Contractor") shall begin work on

the day specified in paragraph 2.04 of the General Conditions and shall perform the work diligently so as to permit full use not later than the first day following the construction period established in the Contract. See paragraph 10 entitled "Liquidated Damages" of the Agreement between City of Meriden, as owner, and the Contractor.

10. SCHEDULE OF WORK

The Contractor shall schedule all work in a manner that will not disrupt City of Meriden operations. Once the work has begun, the Contractor shall work full-time until completion of the Contract.

11. TAXES

The City of Meriden is exempt under Connecticut General Statutes from the payment of the excise taxes imposed by the federal government and the Sales and Use Tax of the State of Connecticut; such taxes should not be included in the bid price. Upon request, exemption certificates will be furnished to the successful bidder.

12. FAIR EMPLOYMENT PRACTICES

The Contractor shall agree that neither it or its subcontractors, except in the case of a bona fide occupational qualification or need, to refuse to hire or employ or to bar or to discharge from employment any individual or to discriminate against such individual in compensation or in terms, conditions or privileges of employment because of the individual's race, color, religious creed, age, sex, gender identity or expression, marital status, national origin, ancestry, present or past history of mental disability, intellectual disability, learning disability, physical disability, including, but not limited to, blindness or status as a veteran. The aforementioned terms are obtained from Connecticut General Statutes Section 46a-60, *et seq.*, entitled "Discriminatory employment practices prohibited," as amended.

13. FORM OF AGREEMENT BETWEEN CITY OF MERIDEN AND CONTRACTOR

A Purchase Order will be the form of Agreement between City of Meriden and Contractor, wherein the basis of payment is a stipulated sum.

14. LOCAL SUBCONTRACTORS, SUPPLIERS, etc.

Local subcontractors, material suppliers, and labor in the City of Meriden should be considered and sought out insofar as it is practical in the performance of this project.

15. CITY OF MERIDEN CODE OF ETHICS

The City of Meriden has adopted a Code of Ethics located in Chapter 21 of the Code of the City of Meriden, sections 21-1 through 21-15, inclusive, which are expressly incorporated herein by reference. The terms of the Code of Ethics shall constitute a part of any contract or

agreement entered into by the City of Meriden as a result of this bid as if those terms were fully set forth in such contract or agreement.

Bidders are specifically advised that the Code of Ethics prohibits public officers and employees, as well as their immediate families and businesses, with which they are associated from participating in any transaction which is incompatible with the proper discharge of official duties or responsibilities. Bidders are also advised that the Code of Ethics contain provisions with respect to paid contractors and former employees and officials.

BIDDERS SHOULD NOTE THAT BIDS, CONTRACTS, AND AGREEMENTS ENTERED INTO OR AWARDED IN VIOLATION OF THE CODE OF ETHICS ARE VOIDABLE BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MERIDEN.

Copies of the Code of Ethics may be obtained from the office of the City Clerk or may be found online on the City of Meriden's website.

16. NON-COLLUSION BID STATEMENT

Each bidder submitting a bid to the City of Meriden for any portion of the work contemplated by the documents on which bidding is based shall execute and attach thereto the sworn Non-Collusive Bid Statement, to the effect that the bidder has not colluded with any other person, firm, or corporation in the submission of the bid.

17. SOIL CONDITIONS

The City of Meriden does not guarantee the accuracy of any information which it may have obtained as to the kind or condition of the soil that may be encountered in the performance of the proposed work; neither does the City of Meriden represent that the plans and specifications drawn are based upon any soil data so obtained. The City of Meriden does not make any representations as to the soil data so obtained. The City of Meriden does not make any representations as to the soil conditions to be encountered or as to foundation materials.

18. AWARD IN CASE OF A TIE

In the event there are two or more responsive bidders, the decision to award will be based by the following criteria and in the following order:

- a. The incumbent will be awarded the bid over that of another bidder.
- b. In the case of a multi-item bid, if one bidder has been awarded other items from the same bid and the other bidder has not, the bidder with the multiple awards will be awarded the bid over that of another bidder.
- c. The bidder located in the State of Connecticut will be awarded the bid over that of another bidder.
- d. The winner of a coin toss will be awarded the bid over that of another bidder.

19. ASSIGNMENT OF CONTRACT

No contract may be assigned without the written consent of the Purchasing Officer or designee.

20. PERMITS

The Contractor shall be responsible for obtaining any and all necessary permits required by the City of Meriden prior to the commencement of work. The Contractor may contact the City of Meriden Building Department for permit information at (203) 630-4091. For all other required permits, contact the City of Meriden Engineering Department at (203) 630-4018.

21. BID PRICE AND PAYMENT

The City of Meriden is exempt from the payment of the excise taxes imposed by the Federal government and the Sales and Use Tax of the State of Connecticut under Connecticut General Statutes; accordingly, such taxes shall not be included in the bid price.

The City of Meriden, unless stated otherwise in the bidding documents or Contract, will make payment to the Contractor not less than thirty (30) days following completion of services.

24. QUALITY

All materials, equipment, supplies, and services shall be subject to rigid inspection. If defective material, equipment, supplies, or services are discovered, the Contractor shall remove or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that any inspection by the City of Meriden will in no way lessen the responsibility of the Contractor or release Contractor from the obligation to perform and deliver to the City sound and satisfactory materials, equipment, supplies, or allow the cost to be deducted from any monies due it from the City of Meriden. All services will be performed in a workmanlike manner.

25. INSURANCE

The successful bidder shall be required to provide a Certificate of Insurance denoting general liability, automobile liability, workers compensation liability, and other coverage required by the City's Risk Manager.

26. CITY HALL CLOSING

If Meriden City Hall is closed due to inclement weather, or any other unforeseen event, bids will be due at the same time on the next business day that City Hall is open.

1. Minority owned business? _____ yes _____ no
2. Years organized. _____
3. Is your company a corporation _____ yes _____ no
If yes where incorporated? _____
4. How many years have you been engaged in business under your present firm name? _____
5. Former Firm Name (if any) _____
6. List total number of Personnel _____
7. List Vehicles and Equipment that you will use to perform this work: (show age of vehicles and equipment, sizes, capacities, etc.)

8. List the work to be performed by Subcontractors and summarize the dollar value of each subcontract.

9. List the name and address of the more important contracts recently completed by you, starting the approximate gross cost for each, and the month and year completed:

10. General character of work performed by you _____

11. Have you ever failed to complete any contract awarded to you? If so, where and why?

12. Have you ever defaulted on a contract? If so where and why?

13. Have you ever filed bankruptcy: _____ Please explain: _____

14. Will you, upon request, furnish any information that may be required by the City of Meriden? _____
15. The undersigned hereby authorizes and request any person, firm or cooperation to furnish any information requested by the City of Meriden, in verification of the recitals comprising this Statement of Bidder's Qualifications.

Dated this _____ day of _____, 20____
 day month year

 Name of Bidder

 Title

State of _____
 County of _____

_____ being duly sworn deposes and says that they are
 Name _____ of _____
 title _____ name of organization
 and that the answers to the forgoing question and all statement therein contained are true and correct

Subscribed and sworn to before me
 this _____ day of _____, 20____
 day month year

 Notary Public signature

My commission expires _____

BID FORM

B021-04

WASTE OIL BOILER AND PADDLE FANS

Date of Opening: October 15, 2020
At 11:00 AM

To: Adam B Tulin, MPA
Purchasing Officer
142 East Main Street, Room 210
Meriden, CT 06450

The undersigned _____, doing business in the City/Town of _____, in the State of _____, herewith, after reading thoroughly the Specifications and other Bid documents (including if any addendum or addenda) submit the following proposal:

Lump sum price for Waste Oil Heater and Paddle Fans:

_____ Dollars & Cents
Written Amount

Receipt of Addenda is acknowledged:

No: _____ Dated: _____

No: _____ Dated: _____

NAME OF BIDDER _____

ADDRESS _____

BY: _____
Print or type name Title

SIGNATURE _____ DATE _____

TELEPHONE _____ E-Mail _____

PLEASE NOTE: All spaces must be filled in with figures or words or your bid may be automatically rejected.

CITY OF MERIDEN, CONNECTICUT

INSURANCE REQUIREMENTS

Contractor shall agree to maintain in force at all times during the contract the following minimum coverages and shall name the City of Meriden as an **Additional Insured on a primary and non-contributory basis** to all policies except Workers Compensation and Professional Liability. All policies should also include a Waiver of Subrogation. Umbrella/Excess shall state that it follows form over General Liability, Auto Liability and Workers Compensation. Insurance shall be written with Carriers approved in the State of Connecticut and with a minimum AM Best's rating of "A-"VIII. In addition, all Carriers are subject to approval by the City of Meriden.

| | | (Minimum Limits) |
|---|---|------------------|
| General Liability | Each Occurrence | \$1,000,000 |
| | General Aggregate | \$2,000,000 |
| | Products/Completed Operations Aggregate | \$2,000,000 |
| Auto Liability | Combined Single Limit | |
| | Each Accident | \$1,000,000 |
| Umbrella (Excess Liability) | Each Occurrence | \$1,000,000 |
| | Aggregate | \$1,000,000 |
| Workers' Compensation and Employers' Liability | WC Statutory Limits | |
| | EL Each Accident | \$1,000,000 |
| | EL Disease Each Employee | \$1,000,000 |
| | EL Disease Policy Limit | \$1,000,000 |
| Errors & Omissions | Each Occurrence | \$1,000,000 |

Original, completed Certificates of Insurance must be presented to the City of Meriden prior to contract issuance. Contractor agrees to provide replacement/renewal certificates at least 60 days prior to the expiration date of the policies.

REQUIREMENTS:

General provisions of the purchase specifications, including shipping and receiving requirements, shall be discussed and agreed upon.

SCOPE:

This specification covers but is not limited to the furnishing of a CE 330 Multi-Oil Furnace or Energy Logic, EL 350H furnace. This package will include:

- One (1) CE 330 Multi-Oil Furnace
- One (1) CE-4 Used-Oil Fired Burner
- One (1) Oil Pump Assembly
- One (1) Belt Drive Blower
- One (1) 500-gallon double wall tank and stand

Complete installation of chimney through roof and all electrical connections to meet voltage requirements of new unit

This appliance to be installed as a unit heater (without ductwork).

CODES AND REGULATIONS:

The installation of this appliance shall be made in accordance with the manufacturer's instructions as well as in accordance with any Federal, State, or Local codes. Only trained authorized personnel should install, service and maintain the furnace.

The design and build of the appliance, burner, and accessories furnished by manufacturer as well as the installation of the furnace, shall comply with UL Standard 296A (Waste Oil-Burning Air-Heating Appliances) and NFPA 31 – Chapter 12 – Sections 12.1 through 12.4.3.

The installation shall fully comply with the following National Fire Protection Association (NFPA) codes:

NFPA 30 Flammable and Combustion Liquids Code

NFPA 30A Automotive and Marine Service Station Code

NFPA 31 Installation of Oil Burning Equipment

NFPA 70 National Electric Code

NFPA 88A Parking Structures

NFPA 88B Repair Garages

NFPA 211 Chimney's, Fireplaces, Vents and Solid Fuel Burning Appliances

RIGGING AND UNLOADING:

Vendors shall deliver to the site all equipment and accessories specified herein. Rigging and/or offloading will be the responsibility of the purchaser or designated agent.

FURNACE:

The appliance shall be shipped factory assembled and pre-wired as a single packaged unit suitable for firing used oils.

The appliance shall be listed with Underwriters Laboratories and shall be tested and approved to burn the following fuels in the United States.

- #2 Fuel Oil
- Used Crankcase Oil up to SAE 50
- Used Hydraulic Oil
- Used Automatic Transmission Fluid (U.S.)

The Appliance shall be complete with one burner assembly, one pump assembly, one blower assembly, and all devices and controls required for safe and efficient operation.

FURNACE CONSTRUCTION:

The heat exchanger shall be made of stainless steel with vertical flue tubes and hinged front and top doors with over center latches for easy access and cleaning.

The following materials are used in the furnace weld assembly:

- Combustion Chamber 14 Ga. 409 Stainless Steel
- Front Frame 11 Ga. 409 Stainless Steel
- Combustion Chamber Target Wall 11 Ga. 409 Stainless Steel
- Target Stop 11 Ga. 304 Stainless Steel
- Top Header Box 14 Ga. 409 Stainless Steel
- Top Header Side 14 Ga. 409 Stainless Steel
- Bottom Header Box 14 Ga. 409 Stainless Steel
- Bottom Header Side 14 Ga. 409 Stainless Steel
- Bottom Header Floor 14 Ga. 409 Stainless Steel
- Breech 14 Ga. 409 Stainless Steel

The appliance cabinet shall come with three air discharge openings 15.5" square. An air discharge is located on each side and the bottom of the unit. Adjustable directional louvers are included. Refer to the Owner's Manual for proper placement of the louvers.

A spring closing flame observation port, with an access hole for a draft gauge, is located on the front door of the appliance beside the burner.

The front door is hinged and secured with over-center latches for easy access to the combustion chamber for inspection and cleaning purposes.

The front door and top clean out door are insulated with an approved insulation material (2" thick ceramic fiberboard).

The appliance is provided with 22 Ga. shrouding with a durable powder coat finish.

The size, capacity, and operation of the appliance shall be designed as follows:

- 325,000 BTU/HR input rating
- 260,000 BTU/HR output rating
- 2.3 GPH Flow Rate

- Dedicated 30 Amp electrical circuit 230 VAC / 60 Hz / Single Phase
- o 4-Wire circuit (Two 115V Hot Legs, a Neutral, and a Ground)
- 2.0 CFM compressed air requirement at 25 psig
- 8" stack size
- Cabinet Dimensions (without burner and blower installed): 74" long x 27" wide x 33" high
- Cabinet Dimensions (with burner and blower installed): 111" long x 29" wide x 33" high
- Approximate shipping weight (Furnace Crate and Accessory Crate): 715 lbs.

The CE 330 Furnace assembly shall be factory assembled and complete with the following:

- One (1) 200° Normally Open Fan Switch
- One (1) 200° Normally Closed High Limit Switch (Automatic Reset)
- One (1) 290° Normally Closed Auxiliary High Limit Switch (Automatic Reset)
- One (1) Lux Pro 24 VAC wall mounted digital thermostat with positive off position (or equivalent)
- One (1) Oil Connector Block with Swivel Fitting and Hookup Copper Tubing
- One (1) Five-Wire Connector Cord
- One (1) Electrical Terminal Block
- One (1) Ceramic Fiberboard Energy Retention Disc
- Two (2) Adjustable Louvers
- Two (2) Blank Covers – Painted
- Two (2) Blank Covers – Galvanized
- One (1) Front Door Insulation
- One (1) Top Clean Out Door Insulation
- One (1) Duct Cap 8"
- One (1) Barometric Damper 8"
- One (1) Owner's Manual
- One (1) Hardware Bag
- One (1) Fittings Package

INSTALLATION:

The appliance shall be ceiling hung, mounted on an approved stand, or installed on a raised platform constructed on a non-combustible (concrete) floor, and shall be installed per the codes listed in the

Codes and Regulations section of this document.

Appliances that are installed in repair garages shall be installed with the combustion air inlet at least 8 feet above the floor level as per the codes listed in the Codes and Regulations section of this document.

The appliance shall be supplied with the proper amount of combustion air to permit the satisfactory combustion of the oil, the proper draft of the combustion gases, and to maintain a safe ambient air temperature within the space that the appliance is installed as per the codes listed in the Codes and Regulations section of this document.

If an exhaust fan is present in the building there must be make-up air louvers that open when the fan is turned on to allow the furnace to draft naturally.

The appliance shall be installed with the following minimum clearances to combustibles or for servicing:

- Front (Burner) 60"
- Back (Blower) 2"
- Side (with no air outlet) 12"
- Side (with air outlet) 60"
- Top 18"
- Bottom 18"
- Single Wall Chimney Pieces 18"

Installation, operating, and maintenance permits may be required by the Authorities Having Jurisdiction

(AHJ). Installation inspections and on-site certification of the appliance may also be required by the AHJ.

It is the responsibility of the purchaser, designated agent, contractor, or installer of the appliance to check with the AHJ as to the proper procedures to follow for the completion of this installation.

USED-OIL FIRED BURNER:

Clean Energy Heating Systems (Manufacturer) will supply one (1) complete used-oil factory assembled burner.

The burner shall be constructed, wired, and test fired by the Manufacturer.

The burner shall be shipped loose for field mounting and packaged in a separate carton.

The burner shall be equipped with a stainless steel flame retention head that operates with no moving parts. The flame pattern shall not impinge on the combustion chamber when fired within the specified range.

The Nozzle Adapter Assembly shall contain the oil nozzle, the aluminum nozzle adapter block, the heater and thermostat, the temperature proving switch, and the single piece electrode. The Nozzle Adapter Assembly can be removed from the burner as a single unit.

The burner shall be equipped with both oil and air safety devices to prevent the operation of the burner should either of these fail during normal operation. These devices along with the oil primary control will stop the operation of the burner upon flame or air failure.

The burner shall be controlled by a flame sensor device (cadmium sulfide cell), which will stop the burner when a flame failure occurs. The flame sensor shall be connected to the primary control that shall "lock-out" when there is a flame failure.

The primary safety control will automatically restart if the flame failure occurred after the trial for ignition (TFI) time period. The primary safety control will require manual resetting of the safety switch if there is no ignition during the TFI time period.

The primary safety control shall be wired and tested by the Manufacturer for this safety function. Each burner shall meet the safety and performance requirements of UL 296A.

The burner shall be factory assembled and be complete with the following:

- One (1) Stainless Steel Flame Retention Head
- One (1) 5-Wire Connector Cord Receptacle
- One (1) Blower Motor (with centrifugal switch to prove combustion air)
- One (1) Set of adjustable combustion air intake plates
- One (1) Squirrel Cage Blower
- One (1) Igniter
- One (1) Primary Safety Control
- One (1) LED Amber Light (Pump)
- One (1) LED Green Light (Power)
- One (1) Cad Cell
- One (1) Hour Meter
- One (1) Oil Pressure Gauge
- One (1) Air Pressure Gauge
- One (1) Relay SPST
- One (1) Terminal Block Quick Disconnect – Female
- One (1) Terminal Block Quick Disconnect – Male
- One (2) 200 Watt Heater Element
- One (1) Air Pressure Proving Switch
- One (1) Electrical Terminal Block
- One (1) Aluminum Manifold Block
- One (1) Air Solenoid
- One (1) Oil Solenoid
- One (2) 150° F Normally Closed Heater Thermostat
- One (1) Air Regulator
- One (1) Nozzle Adapter Heater Block
- One (1) Nozzle Adapter Bracket (3 legs)
- One (1) Swivel Fitting
- One (1) 120° F Normally Open Temperature Proving Switch
- One (1) Single Piece Electrode
- One (1) Nozzle

USED-OIL PUMP ASSEMBLY:

Manufacturer will supply one (1) complete used-oil pump assembly.

The pump assembly shall be constructed and vacuum tested by the Manufacturer.

The pump assembly shall be shipped loose for field mounting and packaged in a separate carton.

The pump must be mounted above the tank and be as close to the top of the tank as possible. The suction oil line (length of oil line from the bottom of the tank up to the pump) must not exceed 8 vertical feet. Every 3 horizontal feet of suction line reduces the allowable vertical lift by one foot.

The pump is not adjustable. The gear motor is rated to deliver the correct amount of fuel per hour (2.3 GPH) to the burner.

The pump head shall have a washable screen installed inside the cover. Refer to the Owner's Manual for parts and maintenance.

The suction oil line (from the bottom of the tank up to the pump) shall be one continuous piece of ½" O.D. copper tubing.

The pressure oil line (from the pump to the furnace) shall be 3/8" O.D. copper tubing with a maximum length of 100 feet. Note: Some installations will allow for a longer pressure line. Please contact your local representative for more information.

An inside used-oil storage tank is recommended for the best performance and operation of the furnace.

Each burner must have a separate pump assembly when installing more than one appliance in a building.

The pump requires a separate oil line (1/4" O.D.) to be installed from the relief valve port back to the tank.

The Pump shall be factory assembled, vacuum tested, and be complete with the following:

- One (1) Suntec Model A2RA-7720 or similar used-oil pump
- One (1) 1/8" mini ball valve
- One (1) Gear motor (377 ± 5 RPM)
- One (1) Lenz canister filter with a washable 100-mesh stainless steel screen
- Two (2) ½" x ½" Ball Valve
- One (1) Vacuum Gauge
- One (1) ½" x ½" NPT Brass Check Valve

BLOWER ASSEMBLY:

The Belt Drive Blower shall be shipped loose for field assembly and packaged in a separate carton. Follow instructions in the Owner's Manual to properly install and connect the Belt Drive Blower.

Manufacturer will supply one (1) Belt Drive Blower along with the following components:

- One (1) Blower Motor Mount
- One (1) Tensioning Bracket
- One (1) 2 HP Motor
- One (1) Motor Pulley Bushing – 5/8"
- One (1) Motor Pulley
- One (1) Blower Pulley Bushing – 1"
- One (1) Blower Pulley
- One (1) Belt
- One (1) Blower Guard
- One (1) Belt Guard

STACK:

The CE 330 Multi-Oil Furnace requires one 8" round chimney from either side of the appliance. The side not being used for the chimney must be capped off with the 8" cap that is included with the unit.

The appliance includes one 8" barometric damper. This damper shall be installed in the exhaust stack leaving the appliance within 3 to 5 feet of the breach outlet.

The barometric damper shall be adjusted to maintain a natural draft of -.02" w.c. to -.04" w.c. over-fire and a stack draft of -.04" w.c. to -.06" w.c.

All other stack materials needed to install this appliance shall be the responsibility of the installer.

Single wall stack material can be used inside the building only. Exterior stack, penetration through a wall, floor, or ceiling, or where people may brush against the stack must use an all fuel pipe material that meets UL standard 103 HT pipe requirements.

The all fuel / UL 103 Type HT double wall insulated stack with stainless steel liner is available through your local representative. Refer to the Owner's Manual for proper installation diagrams and instructions.

The Manufacturer instructions and requirements for clearances (air space) to combustible materials for the all fuel / UL 103 Type HT double wall insulated chimney material must be followed.

ADDITIONAL INFORMATION:

The bidder must have local service capabilities to provide on-site service and must have current authorization from manufacturer to provide warranty work.

OWNER'S MANUAL:

Each appliance comes with one complete Owner's Manual packed inside the appliance at time of shipping. Additional Owner's Manuals may be printed from the website at no charge.

WARRANTY INFORMATION:

TEN YEAR Combustion Chamber/Heat Exchanger Warranty

TWO YEAR Parts Warranty (when Warranty Card is returned within 30 days)

ONE YEAR Parts Warranty (without returned Warranty Card)

MANUFACTURER, hereby warrants the MANUFACTURER'S product to be free from defects in material and workmanship under normal use and conditions as set forth in the provisions and limitations below. The warranty extends to the original owner whose name appears on the Warranty Registration Card returned to MANUFACTURER.

TEN YEAR COMBUSTION CHAMBER / HEAT EXCHANGER WARRANTY

The TEN YEAR warranty on the combustion chamber / heat exchanger shall be from the date of

purchase by the original purchaser and shall be subject to the schedule of years OR hours, whichever comes first, listed below:

0 to 10 years (Less than 15,000 hours) Repair or replace FREE of charge

All labor and transportation costs are the responsibility of the owner. Repair or replacement shall be determined by MANUFACTURER. Photos or returned goods at owner's expense may be required for warranty determination.

PARTS WARRANTY

All component parts are covered under warranty for a period of TWO YEARS (ONE YEAR without returned

Warranty Card) from the date of purchase. Owner is responsible for all labor and transportation costs associated with warranty claims.

CONDITIONS AND LIMITATIONS:

A. The owner must complete and return the Warranty Registration Card within thirty (30) days of purchase to activate TWO YEAR Parts Warranty Coverage.

B. The equipment must be fired at rated capacity only with fuels listed on data label.

C. The equipment must be installed, operated, and maintained in accordance with Federal, State, and Local regulations as well as with all MANUFACTURER'S installation and operating instructions.

D. The equipment must not be installed in any corrosive atmosphere environment.

E. No parts or controls may be modified, altered, or by-passed.

F. MANUFACTURER shall not be responsible for any failure due to an Act of God.

G. MANUFACTURER is not responsible for additions or changes made by a dealer or distributor that goes beyond the terms of this Warranty.

Manufacturer assumes no liability for consequent damage of any kind, and by acceptance of this equipment the purchaser assumes all liability for the consequence of its use or misuse by the purchaser or others.

Paddle Fans:

Installation of six (6) – 56" reversible ceiling 3 blade paddle fans, with metal blades and a flow rate of 19,800 CFM. Fan controls shall include two (2) speed controls, one to control the three (3) front paddle fans by the overhead doors and the other to control the three (3) rear paddle fans at the rear of the shop bays. They shall be installed to clear any obstructions which may hinder performance. All wiring to be installed in EMT piping for the paddle fans and speed controls.

Delivery and installation of all services required at 55 Michael Dr., Meriden CT. 06450