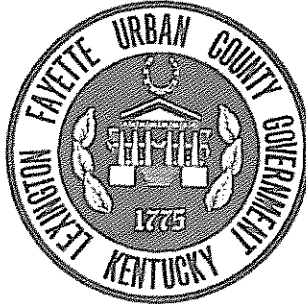


# Lexington Fayette Urban County Government

Division of Central Purchasing



Lexington Kentucky

Horse Capital of the World

## INVITATION TO BID #154-2012

### Air Conditioning Unit for Town Branch WWTP

#### NOTICE TO BIDDERS

Bid Opening Date: October 25, 2012

Bid Opening Time: 2:00 PM

Address: 200 East Main Street  
3<sup>rd</sup> Floor, Room 338

\*\*\*\*\*

Pre Bid Meeting: N/A

Pre Bid Time:

Address:

## INVITATION TO BID

Bid Invitation Number: **154-2012**

Date of Issue: **10/11/2012**

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **10/25/2012**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing  
200 East Main Street, Room 338  
Lexington, KY 40507, (859) 258-3320**

**The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.**

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 301 Lisle Industrial Ave, Lexington, KY

Bid Security Required: ☐ Yes ☒ No      Performance Bond Required: ☐ Yes ☒ No  
*Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).*

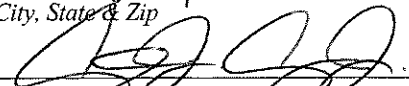
<b>Commodity/Service</b>
<b>Air Conditioning Unit for Town Branch WWTP</b>
See specifications

<b><u>Check One:</u></b> <input type="checkbox"/> Bid Specifications Met <input type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	<b><u>Proposed Delivery:</u></b> _____ days after acceptance of bid.
<b><u>Procurement Card Usage</u></b> <input type="checkbox"/> Yes    The Lexington-Fayette Urban County Government will be using Procurement Cards to <input type="checkbox"/> No      purchase goods and services and also to make payments. Will you accept Procurement Cards?	

Submitted by:

Perfection Group Inc.  
Firm  
2514 Regency Road  
Address  
Lexington, KY 40503  
City, State & Zip

**Bid must be signed:  
(original signature)**

      *Technical Sales Representative*  
Signature of Authorized Company Representative – Title  
Anthony J. Apro Jr.  
Representative's Name (Typed or printed)  
859-221-1643  
Area Code - Phone – Extension      Fax #  
aaprojr@perfectiongroup.com  
E-Mail Address

**The Affidavit in this bid must be completed before your firm can be considered for award of this contract.**

**AFFIDAVIT**

Comes the Affiant, [Signature], and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Anthony John Apro Jr. and he/she is the individual submitting the bid or is the authorized representative of

Perfection Group Inc.

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

STATE OF

Kentucky (state at large)

COUNTY OF

Jessamine

The foregoing instrument was subscribed, sworn to and acknowledged before me by Anthony J Apro on this the 25 day of October, 2012.

My Commission expires: 23 August 2016

Karen Long Thomas NP 471722  
NOTARY PUBLIC, STATE AT LARGE

***Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.***

## **I. GREEN PROCUREMENT**

### **A. ENERGY**

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to [www.Energystar.gov](http://www.Energystar.gov)). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

#### **Key Benefits**

These products use 25 to 50% less energy  
Reduced energy costs without compromising quality or performance  
Reduced air pollution because fewer fossil fuels are burned  
Significant return on investment  
Extended product life and decreased maintenance

### **B. GREEN SEAL CERTIFIED PRODUCTS**

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to [www.Greenseal.org](http://www.Greenseal.org) to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

### **C. GREEN COMMUNITY**

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes ☒ No ☐

## II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

**"Bid on #154-2012 Air Conditioning Unit for Town Branch WWTP"**

and addressed to:      Division of Central Purchasing  
                                 200 East Main Street, Room 338  
                                 Lexington, Kentucky 40507

**The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.**

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has

been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*

- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

*Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.*

KRS 45.640 Minimum skills

*Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.*

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year*

*period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*

- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.



## EQUAL OPPORTUNITY AGREEMENT

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### The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

*The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.*

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

*The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.*

\*\*\*\*\*

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

### Bidders

*I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.*

  
Signature

Perfection Gnap Inc.  
Name of Business

**RISK MANAGEMENT PROVISIONS  
INSURANCE AND INDEMNIFICATION**

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**INDEMNIFICATION AND HOLD HARMLESS PROVISION**

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

**FINANCIAL RESPONSIBILITY**

Vendor understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

**INSURANCE REQUIREMENTS**

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

**Required Insurance Coverage**

Vendor shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work or provision of goods hereunder by Vendor. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products Liability endorsement unless it is deemed not to apply by LFUCG.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

#### Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

#### Deductibles and Self-Insured Programs

**IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE.** Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of

evidence of Vendor's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If Vendor satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, Vendor agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

#### Verification of Coverage

Vendor agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

#### Right to Review, Audit and Inspect

Vendor understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

#### **DEFAULT**

Vendor understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging Vendor for any such insurance premiums purchased, or suspending or terminating the work.

00364888



# CERTIFICATE OF LIABILITY INSURANCE

OP ID TK

DATE (MM/DD/YYYY)

08/30/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Schiff, Kreidler-Shell, Inc. Gallagher SKS 1 West Fourth St. Suite 1300 Cincinnati OH 45202 Phone: 513-977-3100	<b>CONTACT NAME:</b>	
	<b>PHONE (A/C, No, Ext):</b>	<b>FAX (A/C, No):</b>
<b>INSURED</b> Perfection Group, Inc. 2514 Regency Rd. Suite 105 Lexington KY 40503	<b>E-MAIL ADDRESS:</b>	
	<b>PRODUCER CUSTOMER ID #: PERFE-4</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
	<b>NAIC #</b>	
	<b>INSURER A: The Cincinnati Insurance Co</b> 10677	
	<b>INSURER B: FFVA Mutual</b>	
<b>INSURER C: Westchester Surplus Lines</b>		
<b>INSURER D:</b>		
<b>INSURER E:</b>		
<b>INSURER F:</b>		

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR	WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY			CPP0885591	09/01/12	09/01/13	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY		DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000				
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		MED EXP (Any one person) \$ 10,000				
			PERSONAL & ADV INJURY \$ 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
							\$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY			CPP0885591	09/01/12	09/01/13	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO		BODILY INJURY (Per person) \$				
	<input type="checkbox"/> ALL OWNED AUTOS		BODILY INJURY (Per accident) \$				
	<input type="checkbox"/> SCHEDULED AUTOS		PROPERTY DAMAGE (Per accident) \$				
	<input type="checkbox"/> HIRED AUTOS					\$	
	<input type="checkbox"/> NON-OWNED AUTOS					\$	
A	<input checked="" type="checkbox"/> UMBRELLA LIAB			CPP0885591	09/01/12	09/01/13	EACH OCCURRENCE \$ 15,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB		AGGREGATE \$ 15,000,000				
	<input type="checkbox"/> DEDUCTIBLE		\$				
	<input checked="" type="checkbox"/> RETENTION \$ 0		\$				
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WC840-0024878-2012A	09/01/12	09/01/13	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	<input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N <input type="checkbox"/> N/A	E.L. EACH ACCIDENT \$ 100,000				
	If yes, describe under DESCRIPTION OF OPERATIONS below		E.L. DISEASE - EA EMPLOYEE \$ 100,000				
			E.L. DISEASE - POLICY LIMIT \$ 500,000				
C	<input checked="" type="checkbox"/> Professional Liab			G24073695004	05/22/12	05/22/13	Each Claim 2,000,000
	<input checked="" type="checkbox"/> Pollution Liab		Aggregate 2,000,000				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

**CERTIFICATE HOLDER****CANCELLATION**

<b>SPECIMEN</b> FOR ILLUSTRATION PURPOSES ONLY NO OTHER USE IS AUTHORIZED	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Mark Wilson, CPCU, CIC</i>

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Bid Specifications  
FOR  
Air Conditioning Unit for  
Town Branch WWTP Primary Effluent Pump Station Building

**GENERAL**

1. The successful Bidder will provide/supply Air Conditioning Unit, **equipment only**, for use in the Primary Effluent Pump Station Building located at the Town Branch Wastewater Treatment Plant which is owned and operated by the Lexington Fayette Urban County Government Division of Water Quality.
2. Installation of Air Conditioning Unit, associated accessories, and duct work will be performed by DWQ personnel.
3. A copy of this specification with each paragraph check marked to show specification compliance or marked to show deviations must be included with bid. All exceptions must be clearly noted and detailed. The LFUCG reserves the right to disallow any bid due to exception.

**SCOPE OF SUPPLY**

1. Provide/supply new Air Conditioning Unit and associated accessories as specified.

**GENERAL REQUIREMENTS**

1. Air Conditioning Unit must include the following:
  - a. High capacity, high pressure evaporator blowers
  - b. Dual compressor, two-stage redundant refrigeration circuits
  - c. Industrial grade disconnecting contactors and starters
  - d. Hermetic scroll compressors
  - e. Direct drive condenser fans
  - f. Enclosed, heavy duty NEMA frame motors

Specification Compliant	
Yes	No
<b>X</b>	

2. All controls, contactors, and overload protection for fan motors, compressors, heaters, etc., shall be an integral part of the unit.

Specification Compliant	
Yes	No
<b>X</b>	

3. The unit cabinet shall be internally acoustically insulated with 1.0" closed cell Armaflex and provided with stainless steel access fasteners on removable doors.

Specification Compliant	
Yes	No
<b>X</b>	

4. Evaporator section of the unit shall be constructed of 16 gauge hot-dipped galvanized steel with a cooling coil constructed of aluminum fins mechanically joined to seamless copper tubing. The evaporator coil shall be dual-circuited with two separated refrigerant circuits. Each circuit shall be equipped with service valves, a sight glass, moisture indicator, and fully adjustable expansion valves. A full area stainless steel drain pan with auxiliary overflow shall be provided.

Specification Compliant	
Yes	No
<b>X</b>	

5. Compressor/Condenser section shall be constructed of hot-dipped galvanized steel with two (2) 7.5 ton compressors and two (2) 7.5 ton condenser circuits complete with service valves on each circuit. The condenser coil is to be constructed of aluminum fins mechanically joined to seamless copper tubing.

Specification Compliant	
Yes	No
<b>X</b>	

6. Supply air blowers in the unit shall be two (2) spark-proof DWDI backwardly-inclined blower assemblies driven by a common double-shafted motor and packaged in a 16-gauge hot-dipped galvanized assembly.

Specification Compliant	
Yes	No
<b>X</b>	

7. The unit shall be equipped with a unitized control system with the following features:

- Unit shall have two-staged cooling with  $\pm 0.25^{\circ}\text{F}$  accuracy
- $65^{\circ}\text{F}$  -  $95^{\circ}\text{F}$  set point
- Three-point system fan switch(fan only, heat/cool cycle operation, and continuous fan cooling)
- Control Power-On indicator lamp
- System control thermostat shall have a digital readout of the system status, a power on/off switch, and remote/local control status indicating lamps

Specification Compliant	
Yes	No
<b>X</b>	

8. The cooling system shall have high and low refrigerant pressure overloads, condenser and evaporator fan overloads with automatic reset on all overload conditions, electric heat, high temperature overload, compressor overloads, compressor short time delays, defrost cycle with control system defrost, and refrigeration system failure lights with Form-C alarm contacts

Specification Compliant	
Yes	No
<b>X</b>	

9. The entire unit shall be designed and constructed with all major system assemblies designed in utilized assemblies that may be easily and quickly repaired by service personnel with minimum down time in the operation of the system

Specification Compliant	
Yes	No
<b>X</b>	

10. The **Air Conditioning Unit** specified shall be the **Specific Systems AirPak 180 Model APK180-C-WHD-X-S1-B-00-TB-X-R410A-N-N-N-CARB** or equal.

Specification Compliant	
Yes	No
<b>X</b>	

11. Supplier shall warrant that the Air Conditioning Unit will be free from defects in material and workmanship for a period of eighteen (18) months from ship date or twelve (12) months from installation, whichever is shorter.

Specification Compliant	
Yes	No
<b>X</b>	

## **DETAILED REQUIREMENTS**

### **1. Air Conditioning Unit with the following features:**

- A. 180,000 BTUH nominal cooling capacity (15 tons)
- B. UL 508A Electrical panel certification
- C. 2" Farr 30/30 return air filter
- D. Evaporator and condenser coils with dual circuits
- E. All stainless steel fasteners
- F. Stainless steel drain pan
- G. TEFC Condenser motor
- H. TEFC Evaporator motor
- I. High pressure switch (both stages)
- J. Low pressure switch (both stages)

Specification Compliant	
Yes	No
<b>X</b>	



- K. Hot gas bypass (both stages)
- L. Thermostatically controlled expansion valve
- M. Freeze stats (evaporator anti-icing both stages)
- N. Two hermetically sealed compressors
- O. Designed for use in unclassified area

**2. 480 volt 3 phase 60 hz General Purpose Ext/Int**

Specification Compliant	
Yes	No
<b>X</b>	

**3. Wall mount horizontal discharge (To the wall)**

Specification Compliant	
Yes	No
<b>X</b>	

**4. General Purpose Interior and Exterior (non-hazardous)**

Specification Compliant	
Yes	No
<b>X</b>	

**5. Type 316 stainless steel cabinet construction**

Specification Compliant	
Yes	No
<b>X</b>	

**6. Circuit breaker / disconnect 480 volt**

Specification Compliant	
Yes	No
<b>X</b>	

**7. APK 180 Technicoat Condenser Coil (factory dipped corrosion resistant coating)**

Specification Compliant	
Yes	No
<b>X</b>	

8. APK 180 Technicoat Evap Coil (factory dipped corrosion resistant coating)

Specification Compliant	
Yes	No
<b>X</b>	

9. Refrigerant R410a

Specification Compliant	
Yes	No
<b>X</b>	

10. APK 180 return air grille (1)

Specification Compliant	
Yes	No
<b>X</b>	

11. APK 180 supply air grille (1)

Specification Compliant	
Yes	No
<b>X</b>	

12. APK thermostat (1)

Specification Compliant	
Yes	No
<b>X</b>	

13. Carboline coating on condenser section (corrosion resistant coating for entire condenser section)

Specification Compliant	
Yes	No
<b>X</b>	

## **SUBMITTALS**

1. Copy of the manufacturer's equipment warranty detailing the duration of the warranty and all limitations of the warranty.

Specification Compliant	
Yes	No
<b>X</b>	

2. A copy of this specification with each paragraph check marked to show specification compliance or marked to show deviations. All exceptions must be clearly noted and detailed. The LFUCG reserves the right to disallow any bid due to exception

Specification Compliant	
Yes	No
<b>X</b>	

3. All equipment and materials shall be new and shall be specially designed or selected for the function and service specified.

Specification Compliant	
Yes	No
<b>X</b>	

4. Operation and Maintenance Manuals: Prior to delivery of equipment and up-dated as required during the installation of the equipment, the Manufacturer shall furnish complete and detailed installation, operation, and maintenance manuals, minimum of one (1) hard copy per unit, which shall include the following information as a minimum requirement:

Specification Compliant	
Yes	No
<b>X</b>	

- a. Name, address, and phone number of nearest competent service organization who can supply parts and service. If this is not the Manufacturer's own service department, then furnish the letters confirming that the named organization has been factory authorized to represent the manufacturer of the equipment furnished.
- b. Installation, operation, and maintenance brochures.
- c. All required operating instructions.
- d. All required maintenance instructions including schedules of routine maintenance.

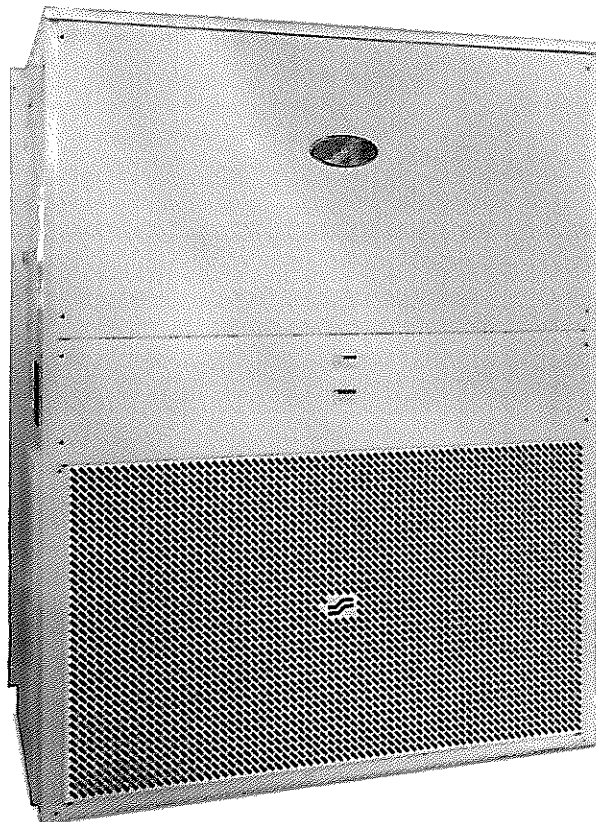
Please write in the unit price per item below.

Item	Description	Unit Price
<b>Air Conditioning Unit (equipment and delivery only)</b>	Air conditioning Unit as specified, <b>Specific Systems AirPak 180</b> Model: <b>APK180-C-WHD-X-S1-B-00- TB-X-R410A-N-N-N-CARB</b> , or equal	\$ 45,735.00

**SPECIAL INSTRUCTIONS TO BIDDER:**

- A/C Unit is to be delivered to 301 Lisle Industrial Avenue, Lexington, KY.
- For specification questions contact Tiffany Rank, Division of Water Quality, @ 859-425-2406.
- For bidding questions contact Sondra Stone, Division of Central Purchasing,  
@ 859-258-3324.

## AIRPAK 180 (15 TON)



### PRODUCT APPLICATION

AirPAK wall-mounted air conditioning units are specifically designed for use in non-hazardous (classified) commercial/industrial applications and are available in capacities from 5 to 20 tons. While similar in configuration to other wall-mount units, the Specific Systems AirPAK line was designed for demanding use in heavy-duty commercial/industrial applications such as telecommunications, instrumentation, control, and electrical powerhouse assemblies. AirPAKs feature standard dual refrigeration circuits, hot-gas bypass and heavy duty industrial cabinetry — which are options or heavy modifications on competitive units.

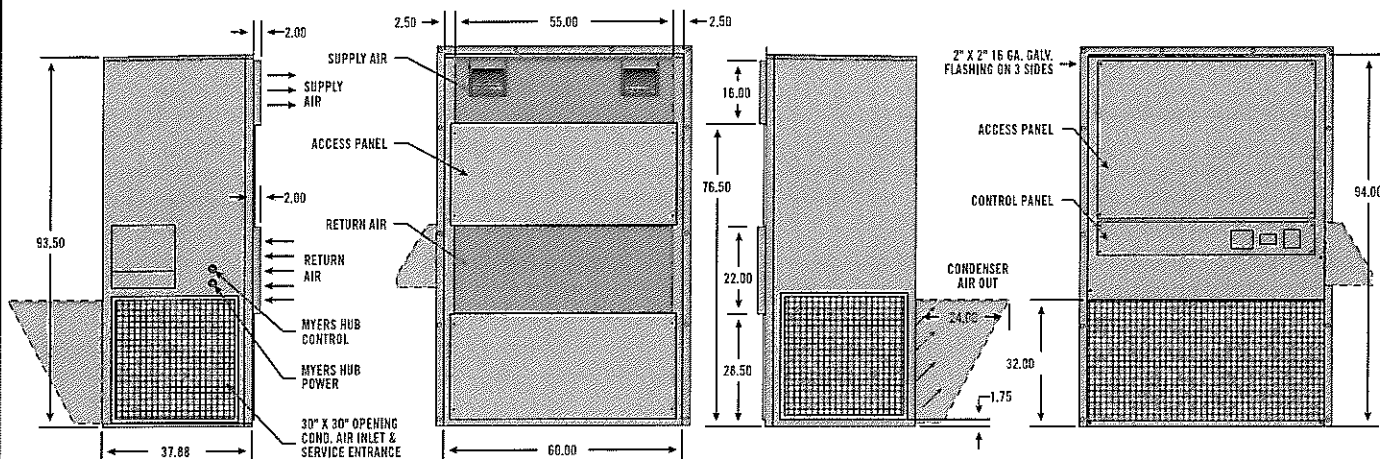
Modular design throughout the AirPAK line allows easy production modifications of the basic unit to include additional special features such as stainless steel or aluminum cabinetry, a low ambient package, or special filter and control systems designed for use in highly corrosive or explosive atmospheres.

The AirPAK's to-the-wall design allows for minimal intrusion with regards to interior wall space. Only two small holes need to be cut through the mounting wall. The sleeves are then inserted and the return and supply air grills mounted onto the sleeves.

### PRODUCT DESCRIPTION

AirPAK units feature standard:

- Heavy duty 16-gauge galvanized steel with 3-coat baked powder coat finish
- High capacity, high pressure evaporator blowers
- Dual compressor, two-stage redundant refrigeration circuits
- Industrial grade disconnecting contactors and starters
- Hermetic scroll compressors
- Direct drive condenser fans
- Enclosed, heavy duty NEMA frame motors



## AIRPAK 180 (15 TON)

### STANDARD PRODUCT SPECIFICATIONS

Specific Systems will furnish a Specific Systems AirPAK Model 180 unit. Total cooling capacity of the unit shall be not less than 180,000 BTU per hour, with \_\_\_\_\_ cfm of 80° dry bulb / 67° wet bulb temperature air entering the evaporator coil. Total airflow capacity of the system shall be not less than \_\_\_\_\_ cfm with a total external static pressure of 1.0 in. w.c.

All controls, contactors, and overload protection for fan motors, compressors, heaters, etc., shall be an integral part of the unit.

The unit cabinet shall have 60" width, 94" height, 37.88" depth. Standard unit cabinet shall be constructed of 16-gauge hot-dipped galvanized steel that has been powder coated. Powder coat shall be a TGIC polyester powder coat with a minimum of 4 mils thickness, heat cured at 375°F, providing a superior coating to corrosion, impact, and abrasion protection when compared to solvent paint. The unit cabinet shall be internally acoustically insulated with 1.0" closed cell Armaflex and provided with stainless steel access fasteners on removable doors.

Evaporator section of the unit shall be constructed of 16-gauge hot-dipped galvanized steel with a cooling coil constructed of aluminum fins mechanically joined to seamless copper tubing. The evaporator coil shall be dual-circuited with two separated refrigerant circuits. Each circuit shall be equipped with service valves, a sight glass, moisture indicator, and fully-adjustable expansion valves. A full-area stainless steel drain pan with auxiliary overflow shall be provided.

Compressor/condenser section shall be constructed of hot-dipped galvanized steel with two 7.5 ton compressors and two 7.5 ton condenser circuits complete with service valves on each circuit. The condenser coil is to be constructed of aluminum fins mechanically joined to seamless copper tubing. Condenser fans shall produce \_\_\_\_\_ cfm each and shall be driven by a \_\_\_\_\_ horsepower, \_\_\_\_\_ rpm TEFC motor designed to operate in a non-hazardous (classified) environment.

Supply air blowers in the unit shall be two spark-proof DWDI backwardly-inclined blower assemblies driven by a common double-shafted motor and packaged in a 16-gauge hot-dipped galvanized assembly. The assembly shall be designed to produce \_\_\_\_\_ cfm at 1.0" static pressure and shall be driven by a \_\_\_\_\_ horsepower, \_\_\_\_\_ rpm TEFC motor designed to operate in a non-hazardous (classified) environment.

The unit shall be equipped with a unitized control system with the following features: Unit shall have two-stage cooling (and heating, if option is purchased) control with  $\pm 0.25^\circ\text{F}$  accuracy, 65°F – 95°F set point, three-point system fan switch (fan only, heat/cool cycle operation, and continuous fan cooling) and a control Power-On indicator lamp. System control thermostat shall have a digital readout of the system status, a power on/off switch, and remote/local control status indicating lamps.

The cooling system shall have high and low refrigerant pressure overloads, condenser and evaporator fan overloads with automatic reset on all overload conditions, electric heat, high temperature overload, compressor overloads, compressor short time delays, defrost cycle with control system defrost, and refrigeration system failure lights with Form C alarm contacts.

The entire unit shall be designed and constructed with all major system assemblies designed in utilized assemblies that may be easily and quickly repaired by service personnel with minimum down time in the operation of the system.

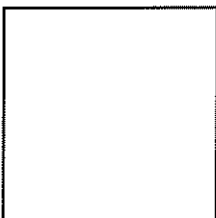
### AVAILABLE OPTIONS

Please contact Specific Systems about other available options.

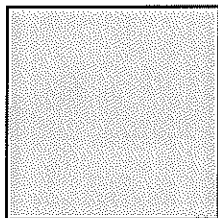
- Remote Control
- Multiplexor (up to 5 units)
- Corrosion-resistant coated coils
- Carboline coating, components
- Unit-mounted disconnect
- Low Ambient Controls
- Economizer
- Humidistat
- HEPA filter
- Field start-up/commission

### AVAILABLE COLORS

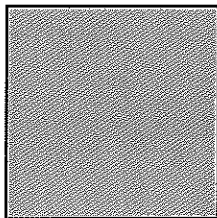
WHITE



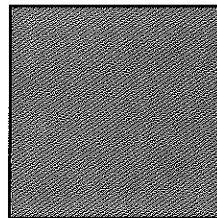
LIGHT GREY



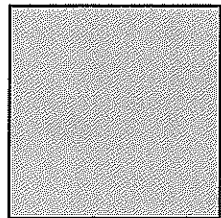
DARK GREY



NITRO BLUE



DESERT TAN



## AIRPAK 180 (15 TON)

### Electrical Specifications for Standard Units

Electric Power		460/480 3φ-60Hz	230/240 3φ-60Hz	415V 3φ-50Hz	380V 3φ-50Hz	200V 3φ-50Hz	575V 3φ-60Hz
Evaporator Fan Motor FLA		8.3	16.6	8.0	8.7	19.9	6.9
Condensor Motor FLA		3.5 (7.0)	7.0 (14.0)	3.4 (6.8)	3.7 (7.4)	8.4 (16.8)	2.8 (5.6)
Compressor Motor LRA		15.7 (31.4)	31.4 (62.8)	15.1 (30.2)	16.5 (33.0)	37.7 (75.4)	12.6 (25.2)
Heat 40KW, Amps (Actual KW)		52.0 (43.2)	104.4 (41.6)	59.6 (42.9)	59.4 (39.1)	120.8 (41.7)	46.5 (46.3)
Heat 30KW, Amps (Actual KW)		38.9 (32.4)	78.3 (31.2)	44.9 (32.3)	41.0 (27.0)	90.8 (31.4)	31.1 (31.0)
Heat 20KW, Amps (Actual KW)		26.0 (21.6)	52.2 (20.8)	29.8 (21.4)	29.7 (19.5)	60.4 (20.8)	23.3 (23.2)
Heat 15KW, Amps (Actual KW)		18.5 (15.4)	37.7 (15.0)	22.4 (16.1)	20.6 (13.5)	39.5 (13.7)	15.6 (15.5)
Heat 10KW, Amps (Actual KW)		13.0 (10.8)	26.6 (10.6)	16.0 (11.5)	14.7 (9.6)	23.1 (8.0)	—
Total Cooling FLA		46.7	93.4	45.0	49.1	112.1	37.8
40 KW Heat	MCA	60.3	—	84.5	85.1	—	66.7
	MOP	125.3	—	142.1	142.4	—	141.5
30 KW Heat	MCA	47.2	118.6	66.1	62.1	138.4	47.4
	MOP	95.8	192.8	117.6	101.0	224.2	16.9
10-20 KW Heat	MCA	50.6	101.2	48.8	53.2	121.5	40.9
	MOP	66.3	132.7	63.9	69.7	159.2	53.5
Unit LRA*		125	250	121	132	301	100
Operating Range		216V-253V	180V-220V	432V-506V	216V-253V	373V-456V	517V-600V

Actual Capacity @ 60 Hz, 80° DB / 67° WB Entering Evaporator Coil

Ambient Condition	Sensible Capacity	Total Capacity
75°F (24°C)	133,164 BTUH	200,408 BTUH
85°F (29°C)	129,220 BTUH	191,076 BTUH
95°F (35°C)	115,376 BTUH	170,840 BTUH
110°F (43°C)	110,132 BTUH	157,812 BTUH
120°F (49°C)	106,092 BTUH	148,552 BTUH

CFM @ ESP (Wet Coil, 60Hz)			Filter Size (#)	Unit Dimensions			
0.10	0.20	0.30		Width	Depth	Height	Weight
5700	5475	5300	24 × 20 × 2 (1)	60"	37½"	94"	1150 lbs
			16 × 20 × 2 (2)				

\*LRA – Lock Rotor Amps. Defined as evaporator fan, condenser fan, and compressor operating at full load and one compressor at Lock Rotor Amps.



## COIL COATING OPTIONS

### PRODUCT APPLICATION

Evaporator and condenser coils are made of aluminum, which is somewhat corrosion resistant even without some type of coating. However, the harsh conditions under which Specific Systems units are placed may require an additional level of protection. In order to meet these needs, Specific Systems makes available numerous coil coating options, each with unique and energy saving traits.

### PRODUCT DESCRIPTION

#### Esgard

Esgard 910 KotesAll wax/alkyd is the base coating applied by Specific Systems if a coating is requested. For general purpose use, Esgard 910 extends the life of coils, and is the choice if the environment is not super-corrosive and regular maintenance on the coils can be maintained.

#### Thermoguard

Thermoguard Fin Guard Blue epoxy uses a heat-conductive spray coating technique produced to achieve long-lasting corrosion protection. Thermoguard has passed the 80-cycle Kesternich sulfuric environment, Industrial ASTM G85, and Marine ASTM B117 tests. Because its smooth surface resists adhesion from dust and dirt, Thermoguard allows energy consumption to remain at nominal input levels with minimal routine maintenance, and can be applied as thin as 1.2 mils.

#### Heresite

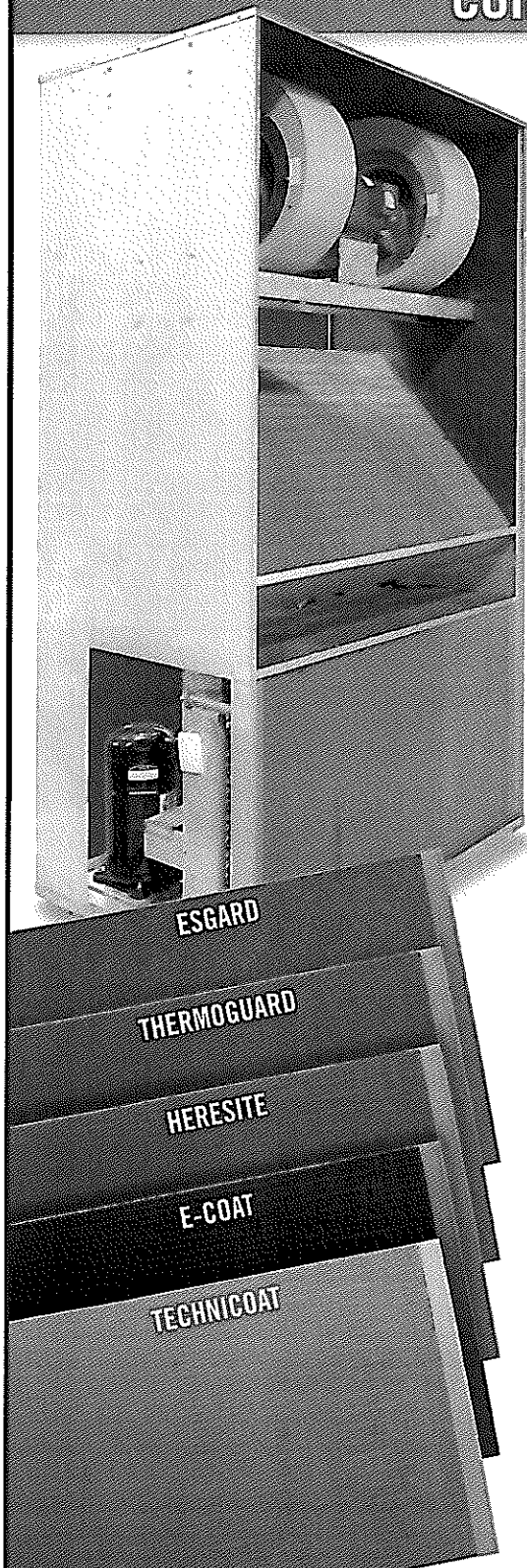
Heresite is a baked phenolic coating, generally dark brown in color, that is extremely flexible for a coating of this type. Heresite is resistant to many chemicals. It is the one of the most widely-used coatings worldwide, is very safe, and is dip-coated. Because of this ease of application, coating is uniform on the coil with a thickness of 4–6 mils.

#### E-Coat

E-Coat (or electrocoating), as applied by Electrofin, is an environmentally friendly wet-paint process used on many products, including as a primer on many new vehicles. E-coat resists chipping and will extend the life of coils, E-Coat is also the thinnest coating, with applications computer-controlled to between 0.8 and 1.2 mils. Using a proprietary complete immersion process, Electrofin ensures complete coverage without any fin-bridging (up to 30 fpi/16 rows).

#### Technicoat

Technicoat is an air-dried resin-based thermoplastic on top of a baked phenolic coating designed specifically for use in salt-water environments. TechniCoat has been and is currently being successfully used in water treatment plants, paper mills, food processing plants, oil & gas related plants, off-shore drilling rigs, hatcheries, hospitals, laboratories & research facilities, and hotels. Technicoat requires minimal maintenance, with only a recommended quarterly washdown with a fan-nozzled pressurewasher and very mild detergent. Technicoat averages 2–3 mils thick, including the top coat and received excellent ratings with the ASME B117 salt fog test, holding up to an additional 1500 hours of testing.

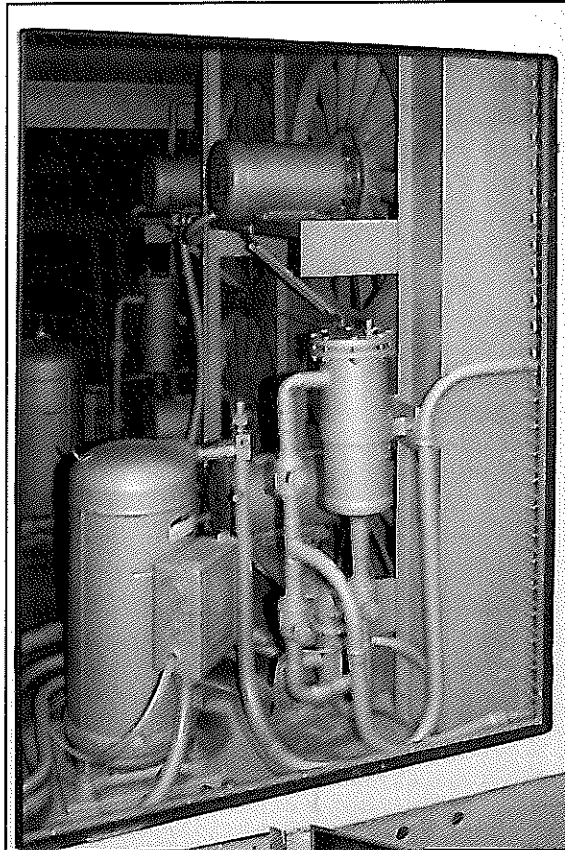




Acetates – All  
Acetic Acid  
Acetone  
Acetylene  
Acrylonitrile  
Alcohols – All  
Aldehydes – All  
Alum  
Amines – All  
Ammonia  
Ammonium Hydroxide  
Ammonium Nitrate  
Aniline  
Benzoic Acid  
Benzol  
Boric Acid  
Brine  
Butane  
Carbolic Acid  
Carbon Dioxide  
Carbon Monoxide  
Carbon Tetrachloride  
Carbonates – All  
Carbonic Acid  
Chlorides – All  
Chlorinated Solvents  
Chlorine – Less Than 100 ppm  
Chloroform  
Chromic Acid  
Citric Acid  
Coke Oven Gas  
Esters – All  
Ethers – All  
Ethylene Oxide  
Fatty Acids  
Fluosilicic  
Formaldehyde  
Formic Acid  
Freon  
Fuels – All  
Gases – Inert  
Gases – Manufactured  
Gases – Natural  
Glycerine

Glycols – All  
Hydrocarbons – All  
Hydrochloric – Acid  
Hydrogen  
Iodides – All  
Ketones – All  
Lacquers  
Lactic Acid  
Maleic Acid  
Malic Acid  
Methanol  
Methylene Chloride  
Napthalene  
Nitrates – All  
Nitric Acid (Dilute)  
Nitrides – All  
Nitrobenzene  
Nitrogen Fertilizers  
Oils – Minerals / Vegetable – All  
Oxalic Acid  
Oxygen  
Perchloric Acid (Dilute)  
Phenol  
Phosphoric Acid  
Picric Acid  
Propane  
Salicylic Acid  
Silicic Acid  
Steam Vapor  
Stearic Acid  
Sulfate Liquors  
Sulfonic Acid  
Sulfur Dioxide  
Sulfuric Acid  
Sulfurous Acid  
Surfactants  
Tannic Acid  
Tetraethyl Lead  
Toluene  
Trisodium Phosphate  
Urea  
Water  
Xylene

## CARBOLINE CORROSION RESISTANT COATING



### PRODUCT APPLICATION

Because the condenser sections of HVAC units remain outside and are therefore constantly exposed to the environment, systems designed for a corrosive atmosphere should include multiple types of protection. As the final stage in corrosion protection, Specific Systems makes available Carboline protection for the condenser sections of any unit. Applications such as refineries and processing facilities, especially offshore, will benefit greatly from the additional protection Carboline provides to otherwise unprotected equipment.

### PRODUCT DESCRIPTION

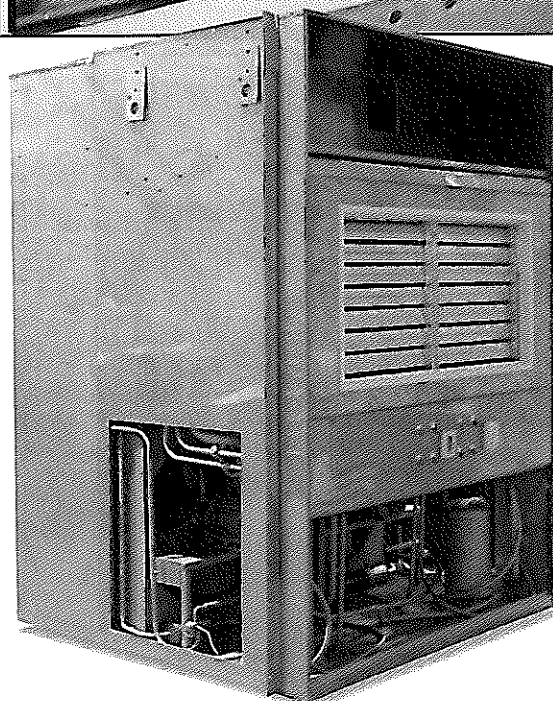
#### What is Carboline?

The Carboline used by Specific Systems is a single coat modified epoxy, applied to a depth of approximately 5 mils. The epoxy is filled with aluminum flakes that greatly increase the distance water must travel in order to reach the underlying components. Combined with their reflective properties, the aluminum flakes help to prevent the harmful effects of ultraviolet rays, thereby protecting the system in all weather conditions.

Carboline is used in many industries to coat structural steel, fire escapes, water towers, bridges, and oil tanks. Carboline has outperformed competing products in multiple standard tests, including the Weather-Ometer, salt-fog, and coastal site evaluation.

#### Final Stage

Carboline is applied in the final stage prior to shipping, after the unit has been assembled and all the coils have their requested coatings. The entire condenser section of the unit, including cabinet, fans, motor, and piping, is sprayed with the coating. Component labels are masked off to allow for service and technical information access. The coils themselves do not get coated with Carboline, because they generally have corrosion protection such as Esgard, Technicoat or E-Coat baked on before assembly, and additional coating would be unnecessary and interfere with airflow.



### Carboline Resistance Properties

Exposure	Immersion	Splash & Spillage	Fumes
Acids	NR	Fair	Very Good
Alkalies	NR	Good	Excellent
Salt Water	Excellent*	Excellent	Excellent
Solvents	NR	Good	Excellent
Water	Excellent*	Excellent	Excellent

\*Discolors to grey

## Selection &amp; Specification Data

<b>Generic Type</b>	Modified aluminum epoxy mastic
<b>Description</b>	Aluminum-pigmented, low-stress, high-solids mastic with outstanding performance properties and proven field history. Carbomastic 15 was the pioneer mastic coating in a number of industrial markets and today still provides unmatched levels of barrier protection and corrosion resistance over existing finishes and rusted or SSPC-SP2 or SP3-cleaned steel.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Excellent performance over minimal surface preparation of steel substrates</li> <li>▪ Suitable as a topcoat for most tightly adhered existing coatings</li> <li>▪ Excellent choice for field touch-up of zinc-rich primers and galvanized steel</li> <li>▪ Unique formulation with aluminum <i>flakes</i> provides exceptional barrier protection</li> <li>▪ May be applied at 35°F (2°C) when CM 15 FC's part B is utilized.</li> <li>▪ VOC compliant to current AIM regulations</li> </ul>
<b>Color</b>	<p>CM 15: Aluminum (C901); Red (M500)*  CM 15 FC: Aluminum (C901); Red (M500)*</p> <p>Color variations within a batch and from batch-to-batch may occur due to the metallic pigments and variations in application techniques and conditions. Neither product is color matched, nor will they match each other. (15 FC may have a greenish appearance.) *Red (M500) is available for use as a contrasting primer in multiple coat applications, but should always be topcoated.</p>
<b>Primers</b>	Self-priming. May be applied over most tightly adhering coatings as well as inorganic zinc primers. A mist coat may be required to minimize bubbling over inorganic zinc primers.
<b>Topcoats</b>	Acrylics, Alkyds, Epoxies, Polyurethanes
<b>Dry Film Thickness</b>	<p>3.0 mils (75 microns) over existing coatings and 5.0 mils (125 microns) minimum on rusted steel. 7.0-10.0 mils (175-250 microns) in one or two coats for severe exposures.</p> <p>Do not exceed 10.0 mils (250 microns) in a single coat.</p>
<b>Solids Content</b>	By Volume: 90% ± 2%
<b>Theoretical Coverage Rate</b>	<p>1444 mil ft<sup>2</sup> (36.0 m<sup>2</sup>/l at 25 microns)  288 ft<sup>2</sup> at 5 mils (7.2 m<sup>2</sup>/l at 125 microns)  Allow for loss in mixing and application</p>
<b>VOC Values</b>	As supplied: 0.7 lbs/gal (88 g/l)
<b>CM 15 &amp; CM 15 FC</b>	<p>Thinned:  32 oz/gal w/ #76: 1.9 lbs/gal (231 g/l)  32 oz/gal w/ #10: 2.0 lbs/gal (242 g/l)  These are nominal values.</p>
<b>HAPS Values</b>	As supplied: 0.70 lbs/solid gal
<b>Dry Temp. Resistance</b>	<p>Continuous: 180°F (82°C)  Non-Continuous: 250°F (121°C)  Discoloration is observed above 180°F (82°C).</p>

## Substrates &amp; Surface Preparation

<b>General</b>	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Steel</b>	<p><u>Immersion:</u> SSPC-SP10 with a 2.0-3.0 mil (50-75 micron) surface profile.</p> <p><u>Non-Immersion:</u> SSPC-SP6 with a 2.0-3.0 mil (50-75 micron) surface profile for maximum protection. SSPC-SP2, SP3, SP7, or SP12 are also acceptable methods</p>
<b>Galvanized Steel</b>	For optimum performance sweep blast cleaning is recommended. Consult your Carboline Sales Representative for specific recommendations.
<b>Previously Painted Surfaces</b>	Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

## Performance Data

Test Method	System	Results	Report #
ASTM D522 Flexibility	Blasted steel 1 ct. CM15	A) Conical - crack 0.38", actual elongation 48.57% B) Cylindrical- no cracking observed	A) SR340 B) ITL223
ASTM D4060 Taber Abrasion	1 ct. CM15	89.8 mg per 3000 cycles CS 17 wheel, 1000 gm load,	02362
ASTM G14 Impact Resistance	A) Blasted steel 1 ct. CM15 B) Rusted steel 1 ct. CM15	Area damaged: A) 1/4 inch (0.25") B) 1/4 - 9/16 inch (0.44")	02829
ASTM B117 Salt Spray	Rusted steel 1 ct. CM 15	No blistering, rusting, or softening No rust creep from scribe	02460
ASTM D1735 Water Fog	Rusted steel 1 ct. CM 15	No blistering or softening No creep from scribe	SR 295

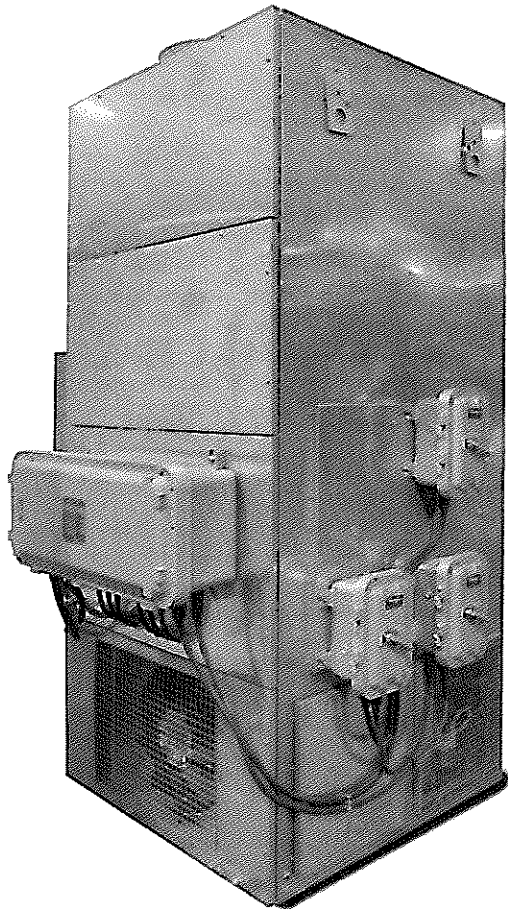
Test reports and additional data available upon written request.

March 2007 replaces November 2003

0185

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Carboline® and Carbomastic® are registered trademarks of Carboline Company.

## TYPE 316 STAINLESS STEEL CABINET



### PRODUCT APPLICATION

Type 316 stainless steel is the most corrosion resistant of all metals and finishes offered by Specific Systems. Type 316 stainless steel is in the family of austenitic alloys of stainless steel that exhibits excellent corrosion resistant properties, especially when maintained annually. Like Type 304 stainless steel, Type 316 is resistant to oxidation in non-chloride environments, but offers an additional level of corrosion resistance, specially designed for chloride and highly sulfuric environments.

### PRODUCT DESCRIPTION

Type 316 stainless steel is standard 18/10, designating the inclusion of 18% chromium and 10% nickel, with a mixture of other metals. The chromium, infused during manufacture of the material, creates an invisible layer on the surface of the steel to prevent rusting. What give Type 316 stainless the extra corrosion resistance is the addition of molybdenum to the alloy, which helps to resist pitting and crevice corrosion sometimes found in Type 304. Type 316 stainless steel is also non-magnetic. Stainless steel is 100% recyclable and has an extremely long useful life, so it is an excellent choice for companies looking to decrease their impact on the environment. Specific Systems Type 316 cabinets are constructed using 16-gauge type 316 stainless steel with a bright, unpolished 2B milled finish. This finish is smooth enough to resist particle adhesion and is easily maintained.

As a standard feature, 12-gauge type 316 stainless steel is used inside the cabinet as mounts for motors to increase the level of corrosion resistance throughout the unit.

Specific Systems also offers Type 304 stainless steel for applications not requiring the added chloride protection inherent in Type 316.

### OTHER AVAILABLE OPTIONS

- 1) Galvanized Steel
- 2) 304 Stainless Steel
- 3) Aluminum



**Perfection Group, Inc.**  
***Air Conditioning Unit***  
*prepared for:*  
**Town Branch WWTP**

Proposal Number: AA-535392

Proposal Date: 10/25/2012

By:

**Perfection Group; Inc.**  
**2514 Regency Road, Suite 105**  
**Lexington, KY 40503**  
**(859) 885-1488**

And

For:

**LFUCG**  
**301 Lisle Industrial Ave.**  
**Lexington, 40508**  
**Tiffany Rank**

*Hereinafter: Perfection Group,*  
**Inc.**

*Hereinafter: Customer*

SERVICES WILL BE PROVIDED AT THE FOLLOWING LOCATION(S):

301 Lisle Industrial Ave.

**Perfection Group, Inc. WILL PROVIDE THE FOLLOWING TO THE CUSTOMER:**

Air Conditioning Unit For Town Branch WWTP. This quote is for EQUIPMENT ONLY.


**Base Proposal Amount: \$45,735.00**

Perfection Group, Inc. guarantees the price stated in this Proposal for thirty (30) days from Proposal Date above.

Payment terms are twenty-five percent (25%) payable upon agreement acceptance with monthly progress billings. The balance due at project completion.

This proposal is the property of Perfection Group, Inc. and is provided for our Customer's use only. This proposal will become a binding Agreement only after acceptance by Customer and approved by an authorized agent of Perfection Group, Inc. as evidenced by their signature(s) below. This Agreement sets forth all of the terms and conditions binding upon the parties hereto, and no person has authority to make any claim, representation, promise or condition on behalf of Perfection Group, Inc. which is not expressed herein.

**PERFECTION GROUP, INC.**

  
 Signature: Anthony Appor (Sales Representative)

Date

10-25-12

**CUSTOMER**

Authorized Representative Signature

Date

Tiffany Rank

Name &amp; Title (Print/Type)

Approval Signature: John Settle

Date



Proposal Number: AA-535392

Proposal Date: 10/25/2012

## Perfection Group, Inc. Terms and Conditions

1. Customer shall permit Perfection Group, Inc. free and timely access to areas and equipment, and allow Perfection Group, Inc. to start and stop the equipment as necessary to perform required services. All planned work under this Agreement will be performed during Perfection Group, Inc.'s normal working hours.
2. Perfection Group, Inc. warrants that the workmanship hereunder shall be free from defects for one (1) year from date of start - up. If any replacement part or item of equipment proves defective, Perfection Group, Inc. will extend to Customer the benefits of any warranty Perfection Group, Inc. has received from the manufacturer. Removal and reinstallation of any equipment or materials repaired or replaced under a manufacturer's warranty will be at Perfection Group, Inc.'s expense during the one (1) year warranty. This warranty does not include routine maintenance, e.g.: equipment cleaning, mechanical parts lubrication, testing, belt adjustment, etc., which can be purchased from Perfection Group, Inc. at a discount during the warranty period. The warranty also does not include repair or replacement of equipment damaged by voltage fluctuations, misuse, lack of proper maintenance, lightning or other acts of nature.
3. Customer will promptly pay invoices within thirty (30) days of receipt. Should a payment become sixty (60) days or more delinquent, Perfection Group, Inc. may stop all work under this Agreement without notice and/or cancel this Agreement, and the entire Agreement amount shall become due and payable immediately upon demand.
4. Any alteration to, or deviation from, this Agreement involving extra work, cost of material or labor will become an extra charge (fixed-price amount to be negotiated or on a time-and-material basis at Perfection Group, Inc.'s rates then in effect) over the sum stated in this Agreement.
5. In the event Perfection Group, Inc. must commence legal action in order to recover any amount payable under this Agreement, Customer shall pay Perfection Group, Inc. all court costs and attorneys' fees incurred by Perfection Group, Inc..
6. Any legal action against Perfection Group, Inc. relating to this Agreement, or the breach thereof, shall be commenced within one (1) year from the date of the work.
7. Perfection Group, Inc. shall not be liable for any delay, loss, damage or detention caused by unavailability of machinery, equipment or materials, delay of carriers, strikes, including those by Perfection Group, Inc.'s employees, lockouts, civil or military authority, priority regulations, insurrection or riot, action of the elements, forces of nature, or by any cause beyond its control.
8. To the fullest extent permitted by law, Customer shall indemnify and hold harmless Perfection Group, Inc., its agents and employees from and against all claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from the performance of work hereunder, provided that such claim, damage, loss or expense is caused in whole or in part by any active or passive act or omission of Perfection Group, Inc., anyone directly or indirectly employed by Customer, or anyone for whose acts Customer may be liable, regardless of whether it is caused in part by the negligence of Perfection Group, Inc..
9. Customer shall make available to Perfection Group, Inc.'s personnel all pertinent Material Safety Data Sheets (MSDS) pursuant to OSHA's Hazard Communication Standard Regulations.
10. Perfection Group, Inc.'s obligation under this proposal and any subsequent contract does not include the identification, abatement or removal of asbestos or any other toxic or hazardous substances, hazardous wastes or hazardous materials. In the event such substances, wastes or materials are encountered, Perfection Group, Inc.'s sole obligation will be to notify the Owner of their findings. Perfection Group, Inc. shall have the right thereafter to suspend its work until such substances, wastes or materials and the resultant hazards are removed. The time for completion of the work shall be extended to the extent caused by the suspension and the contract price equitably adjusted. Perfection Group, Inc. expressly disclaims any and all responsibility and liability for the indoor air quality of the customer's facility, including without limitation, injury or illness to occupants of the facility or third parties, or damage to the customer's facility, arising out of or in connection with Perfection Group, Inc.'s work under this agreement, including without limitation any illness, injury, or damage resulting in any manner from any fungus(es) or spore(s), any substance, vapor or gas produced by or arising out of any fungus(es) or spore(s), or any material, product, building component or structure that contains, harbors, nurtures or acts as a medium for any fungus(es) or spore(s).
11. UNDER NO CIRCUMSTANCES, WHETHER ARISING IN CONTRACT, TORT (INCLUDING NEGLIGENCE), EQUITY OR OTHERWISE, WILL PERFECTION GROUP, INC. BE RESPONSIBLE FOR LOSS OF USE, LOSS OF PROFIT, INCREASED OPERATING OR MAINTENANCE EXPENSES, CLAIMS OF CUSTOMER'S TENANTS OR CLIENTS, OR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.
12. Customer shall provide and have in force during all phases of the work, a Builders Risk Insurance policy.
13. Perfection Group, Inc. shall not be liable for any liquidated damages except those caused by Perfection Group, Inc..