

**VILLAGE OF ORLAND PARK
SMART ENERGY FUND AGREEMENT**

DEC 7 2010

THIS AGREEMENT, entered into this 19th day of November, 2010, between the Village of Orland Park, Illinois (hereinafter referred to as "Village") and the following designated Owner/Lessee, to witness:

Owner's Name:	Thomas G. Corn
Lessee's Name:	N/A
Name of Business:	Zimmerman-Sandeman Funeral Home
Tax ID#/Social Security #:	36-3199562
Address of Property to be Improved:	9900 W. 143 rd Street
PIN Number:	27-04-415-021 through -028

WITNESSETH:

WHEREAS, the Village of Orland Park has established a Smart Energy Fund for application within the Village of Orland Park (the "Village") and funded it through the American Recovery and Reinvestment Act of 2009 via the United States Department of Energy's Energy Efficiency and Conservation Block Grant (EECBG); and

WHEREAS, said Smart Energy Fund is administered by the Village for the purposes of helping property owners and tenants of commercial structures within the Village to conserve resources and install high performance, energy efficient and renewable energy systems; and

WHEREAS, pursuant to the Smart Energy Fund the Village, subject to its sole discretion, will reimburse Owners/Lessees for the cost of eligible energy efficiency/ renewable energy improvements to commercial structures within the Village up to a maximum of one-half (1/2) of the approved contract cost of such improvements or \$20,000.00, whichever is less; and

WHEREAS, the Owner/Lessee's property is located within the Village, and the Owner/Lessee desires to participate in the Smart Energy Fund pursuant to the terms and provisions of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements obtained herein, the Village and the Owner/Lessee do hereby agree as follows:

SECTION 1

With respect to energy efficiency/ renewable energy improvements, the Village shall reimburse an Owner/Lessee for the cost of improvements to the Owner/Lessee's property at the rate of fifty percent (50%) of such cost.

The actual total reimbursement amounts per this Agreement shall not exceed \$17,855.00. The improvement costs that are eligible for Village reimbursement include all labor, materials, equipment, and other contract items necessary for the proper execution and completion of the scope of work as shown on the plans, design drawings, specifications and estimates approved by the Village. Such plans, design drawings, specifications, estimates and scope of work are attached hereto as Exhibit A.

The energy efficiency/ renewable energy improvements to be performed pursuant to this Agreement are:

Per Enright's Heating and Cooling bid:

Replace the existing heating and air conditioning systems with four new (4) American Standard Freedom 95 Comfort R Variable Speed Furnaces and three new (3) American Standard Allegiance 16 Air Conditioners. In addition to this, the petitioner is proposing to install three (3) energy efficient thermostats.

Two (2) Allegiance 16 Air Conditioners

- Model #4A7A6024E;
- 2 Ton split system cooling - 1Ph;
- 18.5 SEER (Seasonal Energy Efficiency Ratio);
- Energy Star Qualified;

One (1) Allegiance 16 Air Conditioner

- Model #4A7A6036E;
- 3 Ton split system cooling - Ph;
- 18.5 SEER;
- Energy Star Qualified;

Four (4) Freedom 95 Comfort - R Variable Speed Furnaces

- Model #AUH2B080A9V3VA
- 3 Ton upflow/ horizontal direct vent gas furnace, variable speed inducer, 2 stage heat;
- 96.7 AFUE (Annual Fuel Utilization Efficiency);
- Energy Star Qualified;

SECTION 2

No improvement work shall be undertaken until its design has been submitted to and approved by the Village. Following approval, the Owner/Lessee shall contract for the work and shall commence and complete all such work within ninety (90) days from the date of such approval.

SECTION 3

The Development Services Director shall periodically review the progress of the contractor's work on the energy efficiency/ renewable energy improvements pursuant to this Agreement. Such inspections shall not replace any required permit inspections by the Building Inspectors. All work which is not in conformance with the approved plans, design drawings and specifications shall be immediately remedied by the Owner/Lessee and deficient or improper work shall be replaced and made to comply with the approved plans, design drawings and specifications and the terms of this Agreement.

SECTION 4

Upon completion of the improvements and upon their final inspection and approval by the Development Services Director or his/her designee, the Owner/Lessee shall submit to the Village a properly executed and notarized contractor sworn statement showing the full cost of the work, as well as each separate component amount due to the contractor and each and every subcontractor involved in furnishing labor, materials or equipment in the work. In addition, the Owner/Lessee shall submit to the Village proof of payment of the contract cost pursuant to the contractor's statement and final lien waivers from all contractors and subcontractors. The Owner/Lessee shall also submit to the Village a copy of all of the invoices for professional services fees for preparation of plans and specifications. The Village shall, within thirty (30) days of receipt of the contractor's statement, proof of payment and lien waivers, and the professional services statement, issue a check to the Owner/Lessee as reimbursement for one-half (1/2) of the approved construction cost estimate or one-half (1/2) of the actual construction cost, whichever is less, subject to the limitations set forth in Section 1 hereof.

SECTION 5

If the Owner/Lessee or his contractor fails to complete the improvement work provided for herein in conformity with the time limitation, approved plans, design drawings and specifications and the terms of this Agreement, then upon written notice being given by the Development Services Director to the Owner/Lessee, by certified mail to the address listed above, this Agreement shall terminate and the financial obligation on the part of the Village shall cease and become null and void.

SECTION 6

Upon completion of the improvement work pursuant to this Agreement, the Owner/Lessee shall be responsible for properly maintaining such improvements in finished form and without change or alteration thereto, as provided in this Agreement, unless changes are submitted for review and are approved by the Village Board. Such approval shall not be unreasonably withheld if the proposed changes do not substantially alter the original design concept of the improvements as specified in the plans, design drawings and specifications approved pursuant to this Agreement. In the event the approved energy efficiency/ renewable energy improvements are not properly maintained or alterations are made to the improvements without prior consent from the Village, the Village reserves the right to terminate this Agreement, hold the applicant liable for any architectural design and consultant fees incurred by the Village, and require reimbursement in full for all monies expended towards the project through this Smart Energy Fund.

SECTION 7

This Agreement shall be binding upon the Village and upon the Owner/Lessee and its successors, to said property for a period of ten (10) years from and after the date of completion and approval of the energy efficiency/ renewable energy improvements provided for herein. It shall be the responsibility of the Owner/Lessee to inform subsequent Owner/Lessee(s) of the provisions of this Agreement, and to be aware of the requirement for prior Village approval of any alteration whatsoever to the building energy systems funded by the Smart Energy Fund.

SECTION 8

The Owner/Lessee releases the Village from, and covenants and agrees that the Village shall not be liable for, and covenants and agrees to indemnify and hold harmless the Village and its officials, officers, employees and agents from and against, any and all losses, claims, damages, liabilities or expenses, of every conceivable kind, character and nature whatsoever arising out of, resulting from or in any way connected directly or indirectly with the energy efficiency/ renewable energy improvement(s), including but not limited to actions arising from the Prevailing Wage Act (820 ILCS 30/0.01 et seq.) and the Davis-Bacon Act (40 U.S.C. 3141 *et seq.*) The Owner/Lessee further covenants and agrees to pay for or reimburse the Village and its officials, officers, employees and agents for any and all costs, reasonable attorneys' fees, liabilities or expenses incurred in connection with investigating, defending against or otherwise in connection with any such losses, claims, damages, liabilities, or causes of action. The Village shall have the right to select legal counsel and to approve any settlement in connection with such losses, claims, damages, liabilities, or causes of action. **The provisions of this Section 8, as well as Sections 6 and 7, above, shall survive the completion of said façade improvement(s).**

SECTION 9

Nothing herein is intended to limit, restrict or prohibit the Owner/Lessee from undertaking any other work in or about the subject premises, which is unrelated to the energy efficiency/ renewable energy improvements provided for in this Agreement.

SECTION 10

This Agreement shall be enforceable by any action at law or in equity, including actions for specific performance and injunctive relief. The laws of the State of Illinois shall control the construction and enforcement of this Agreement. The parties agree that all actions instituted on this Agreement shall be commenced and heard in the Circuit Court of Cook County, Illinois, and hereby waive venue in any other court of competent jurisdiction. Before any failure of any party to perform any obligation arising from this Agreement shall be deemed to constitute a breach, the party claiming the breach shall notify the defaulting party and demand performance. No breach of this Agreement shall be found to have occurred if performance is commenced to the satisfaction of the complaining party within thirty (30) days of the receipt of such notice.

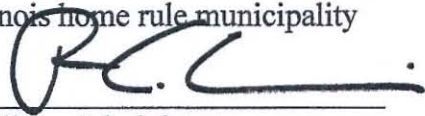
IN WITNESS THEREOF, the parties hereto have executed this Agreement on the date first appearing above.

OWNER



Thomas G. Corn RVP

VILLAGE OF ORLAND PARK,
an Illinois home rule municipality

By: 

Village Administrator

LESSEE (if applicable)

ATTEST: 

Village Clerk

HEATING PROPOSAL

To: Zimmerman & Saldama F.A.
9900 W 143RD ST.
ORLAND PARK 60462

Date: 9-3-10
 Home Phone: _____
 Work Phone: _____

We propose to furnish:

<input checked="" type="checkbox"/>	95% Efficient Gas Furnace Model: <u>AMERICAN STANDARD</u>	BTUs: <u>2-60K 2-80K</u>
<input checked="" type="checkbox"/>	Gas piping to furnace and leak testing	
<input type="checkbox"/>	Cement blocks for platform	
<input checked="" type="checkbox"/>	Flue pipe from chimney to furnace	feet of _____ inch pipe
<input type="checkbox"/>	Chimney liner	
<input type="checkbox"/>	Thermostat Model: _____	
<input checked="" type="checkbox"/>	Reconstruction of supply plenum and return air drop	
<input checked="" type="checkbox"/>	All wiring	
<input checked="" type="checkbox"/>	Clean work area and remove old equipment	
	<u>Plumber needed to run GAS LINE to FURNACE SYSTEM.</u>	
<input checked="" type="checkbox"/>	Humidifier Model: _____	
<input type="checkbox"/>	Electronic Air Cleaner Model: _____	

Equipment Warranties:

<u>5</u> Year(s) Labor	<u>5</u> Year(s) Parts	<u>LIFETIME</u> Year(s) Heat Exchanger
------------------------	------------------------	--

TOTAL WITH ALL LABOR INCLUDED: \$ SEE PAGE 2 (taxes additional)

** Price includes all sales, rebates, and coupons.**

TERMS: CASH CHECK CREDIT CARD or 1 YEAR SAME AS CASH or 2 YEARS SAME AS CASH

**QUOTE GOOD FOR 30 DAYS OR
 WHILE SUPPLIES LAST**

Enright's Heating & Cooling, Inc.
 By: W. A. C.

I authorize all above mentioned work to be performed and agree to pay the above total according to the terms listed.

Accepted by: _____ Date: _____



Thank You!

Ben Enright
cell # 708
417-4146

1074
(708) 614-1441

COOLING PROPOSAL

To: Zimmerman + Sadama FH
9900 W 143RD S
OLL PARK 60462

Date: 9-3-10
Home Phone: _____
Work Phone: _____

We propose to furnish:

2 - 2 1/2 ton 1 - 2 1/2 ton

<u>3</u>	Central Air Model: <u>American Standard</u> BTU	SEER <u>15</u>
<u>yes</u>	<u>150</u> feet of <u>3/8</u> and <u>3/4</u> copper tubing	
<u>3</u>	<u>2.5</u> ton indoor evaporator coil	
<u>3</u>	Slab for condenser support	
<u>3</u>	Thermostat Model:	
<u>yes</u>	Reconstruction of supply plenum	
<u>yes</u>	All wiring of condenser and controls	
<u>yes</u>	<u>100</u> feet of condensate drain pipe to <u>floor</u> drain	
	Amp circuit breaker	Circuit Breaker Type:
<u>yes</u>	Recover freon	
<u>yes</u>	Sealing of all openings made	
<u>yes</u>	Clean work area and remove old equipment	
	Humidifier Model:	
	Electronic Air Cleaner Model:	

Equipment Warranties:

<u>5</u> Year(s) Labor	<u>5</u> Year(s) Parts	<u>10</u> Year(s) Compressor
------------------------	------------------------	------------------------------

TOTAL WITH ALL LABOR INCLUDED: \$ 35,710⁰⁰

(taxes additional)

** Price includes all sales, rebates, and coupons.**

TERMS: CASH CHECK CREDIT CARD or 1 YEAR SAME AS CASH or 2 YEARS SAME AS CASH

QUOTE GOOD FOR 30 DAYS OR
WHILE SUPPLIES LAST

Enright's Heating & Cooling, Inc.
By: *Ben Enright*

I authorize all above mentioned work to be performed and agree to pay the above total according to the terms listed.

Accepted by: _____ Date: _____



Thank You!

CONTRACTOR'S SWORN STATEMENT AND WAIVER OF LIEN TO DATE

Project Name and Address:

Zimmerman & Sandama Funeral Home 9900 W 14357

Owner/Lessee's Name:

Contractor Name and Position:

ENRIGHTS HEATING & COOLING INC

Company Name:

BILL ENRIGHT OWNER

Company Address:

9270 CORSAIR DRIVE UNIT #4 FRANKFORT 60423

Contractors, Subcontractors and Professional Service Providers used (attach receipt or paid invoice for the full cost of work performed by each):

Name	Address	Work Completed	Amount Billed	Amount Paid

I, _____, swear that the above (and attached) contractors, subcontractors and professional service providers are the only ones who performed work under the Smart Energy Fund Agreement with the Village of Orland Park for the property identified above, and billed and were paid the amounts shown. I further swear that the above (and attached) contractors, subcontractors and professional service providers met or meet the criteria and requirements of the Davis-Bacon Act.

Date: _____ Signature: _____

Subscribed and Sworn before me this _____ day of _____, 200__.

Notary Public: _____ Notary Stamp: _____

FINAL PAYOUT REQUEST - SMART ENERGY FUND (The following section to be completed by the Village of Orland Park)

Village Approval for Payout by (Planner): _____ Date: _____ Attach final inspection report(s)

Amount Paid to Contractors, Subcontractors and Professional Service Providers: _____

Total amount of Contract: _____

Explanation of Balance: _____

Total Amount in the Smart Energy Fund Agreement: _____

Amount due from the Village: _____

M & E Heating & Cooling, Inc.

15724 S. Leclaire Avenue
Oak Forest, IL 60452
708.535.2225 or 708.385.2225

Proposal and Agreement

Customer Name Z + SAND FH Phone 460-7508 Date 9-6-10
Address 9900 143 ST Job Address SAME
City, State, Zip ORL PK Work Phone(s) _____

We will furnish, install and service the equipment listed below at the price, terms and conditions outlined on this proposal.

Equipment Specifications

Make AMER. STARD. Model Number(s) _____

SEER 15 EER _____ AFUE 95 Btuh Cooling _____ Btuh Heating _____ CFM _____

Installation shall include: 3 CENTRAL A/C'S 1-2.5 TON
2-2.0 TON

4- 95% FURNACES 2-60,000
2-80,000

X in boxes = Yes

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> New Amp disconnect | <input checked="" type="checkbox"/> Remove existing equipment from premises | <input checked="" type="checkbox"/> New condensate drain system |
| <input checked="" type="checkbox"/> New Amp electric service | <input checked="" type="checkbox"/> Install energy saving setback thermostat | <input type="checkbox"/> New condensate pump |
| <input checked="" type="checkbox"/> New low voltage wiring | <input type="checkbox"/> New copper wire from _____ to _____ | <input type="checkbox"/> Install aux. condensate drain pan |
| <input type="checkbox"/> New weather resistant equipment stand | <input checked="" type="checkbox"/> Make air tight plenum transition | <input type="checkbox"/> New high efficiency air filter |
| <input checked="" type="checkbox"/> New reinforced equipment pad | <input type="checkbox"/> _____ new supply diffuser(s) | <input type="checkbox"/> New humidification system |
| <input type="checkbox"/> New vibration isolation pads | <input type="checkbox"/> New duct run from _____ to _____ | <input type="checkbox"/> New return air filter grill |
| <input checked="" type="checkbox"/> New properly sized refrigerant lines | <input type="checkbox"/> Noise reducing flexible duct connector | <input checked="" type="checkbox"/> Meet all code requirements |
| <input checked="" type="checkbox"/> New clean, dry ACR copper tubing | <input checked="" type="checkbox"/> Balance for uniform supply air distribution | <input checked="" type="checkbox"/> Complete system start up |
| <input type="checkbox"/> Insulate refrigerant suction line(s) | <input type="checkbox"/> Provide for external combustion air | <input type="checkbox"/> <u>5</u> year parts warranty |
| <input type="checkbox"/> Install refrigerant drier(s) | <input checked="" type="checkbox"/> New gas piping from _____ to _____ | <input type="checkbox"/> <u>5</u> year labor warranty |
| <input checked="" type="checkbox"/> Charge to manufacturer's specs | <input type="checkbox"/> New vent pipe and cap | <input type="checkbox"/> <u>5</u> year compressor warranty |
| <input checked="" type="checkbox"/> Evacuate refrigerant system | <input checked="" type="checkbox"/> Clean work area to customer's satisfaction | <input type="checkbox"/> _____ year service agreement |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Option (below) Alternative (below) Is (Is Not) Included in price

Installed Price \$ 38,820⁰⁰
Taxes \$ _____
Total Amount \$ _____
Down Payment \$ _____
Balance Due \$ 38,820

Terms: 1/2 down 1/2 upon completion

Acceptance (Customer) _____ Approval (Company) _____
By M. J. [Signature] Date 9/6/10 By _____ Date _____

American Standard
HEATING & AIR CONDITIONING

FIND A DEALER ZIP code → SEARCH →

THE AMERICAN STANDARD CHOICE | NEWS & KNOWLEDGE | QUICK ANSWERS | SUPPORT | HELP ME CHOOSE A SYSTEM | SPECIAL OFFERS

home > products > air conditioner > allegiance 16 communicating

Air Conditioners

▶ QUICK ANSWERS

▶ NEWS & KNOWLEDGE

▶ SUPPORT

▶ **HOW CAN WE HELP?**

Learn about Customer Care™ dealers

How to select the right dealer

Find special offers in your area

Register your products

Attention - Fraud Alert - Job Applicant Scam



▶ **BREATHE EASIER**

How does AccuClean work?

Get AccuClean - the most effective air filtration system in the nation

For fresher, healthier air, check out AccuExchange™

Try a Humidifier for the most comfortable air

▶ **ENERGY SAVINGS TIPS**

A Heritage Hybrid™ Comfort System helps you weather skyrocketing energy costs.

Learn more about USA Energy Tax Credits

Canadian homeowners: Learn about grants available through the ecoENERGY Retrofit-Homes program.

▶ **HOME COMFORT CORNER**

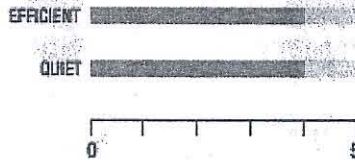
Explore the Home Comfort Corner

Get tips from lifestyle expert Hannah Keeley

ULTIMATE

Allegiance® 16 Air Conditioner

Generous cooling and incredible energy efficiency.



Breathe easier.

Interested in having cleaner air in your home? American Standard's AccuClean™ Whole Home Air Filtration System is 100 times more effective than standard throwaway air filters.

get the facts →

Click on an icon to learn more.



Key Benefits:

- Surpasses government efficiency standards, helping you save up to 50% on your energy bills while reducing greenhouse gas emissions*
- Many models meet efficiency requirements for a federal energy tax credit when installed as part of a complete system. **
- Contains a two-step Duration™ compressor with two-stage cooling which runs at 70% capacity most of the time, and steps up to the second stage on the hottest days
- So quiet, you barely notice it's running
- Provides more efficient and reliable cooling, thanks to durable single-row Spine Fin™ coil
- Cools with an environmentally friendly refrigerant that's ozone-safe.
- Rust-resistant coating, screws and basepan protect system from the elements

*Potential energy savings may vary depending on your lifestyle, system settings, equipment maintenance, local climate, home construction and installation of equipment and duct system.

**Subject to IRS regulations. Customers should consult a tax professional for advice on tax preparation.

compare air conditioners →

▶ **Warranty Information**

▼ **Specifications**

Allegiance® 16 Air Conditioners (R-410A)

Model	TONNAGE	Capacity	H"	W"	D"	Shipping Weight (lb)
4A7A6024E	2.0	24,000	41	37	34	276
4A7A6036E	3.0	36,000	45	37	34	283
4A7A6048E	4.0	48,000	45	37	34	308
4A7A6060E	5.0	60,000	45	37	34	312

As an ENERGY STAR® Partner, American Standard Heating & Air Conditioning has determined that some models meet the ENERGY STAR® guidelines for energy efficiency.

The Allegiance® 16 is an important part of this matched system:



**Allegiance®16
Air Conditioner**



**Freedom® 80
Comfort-R™
Communicating**



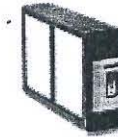
**All-Aluminum
High Efficiency Coil**



Power Humidifier



**800 Family
Comfort Control**



**AccuClean™
Whole House Air
Filtration System**



**AccuExchange™
Energy Recovery
Ventilator**

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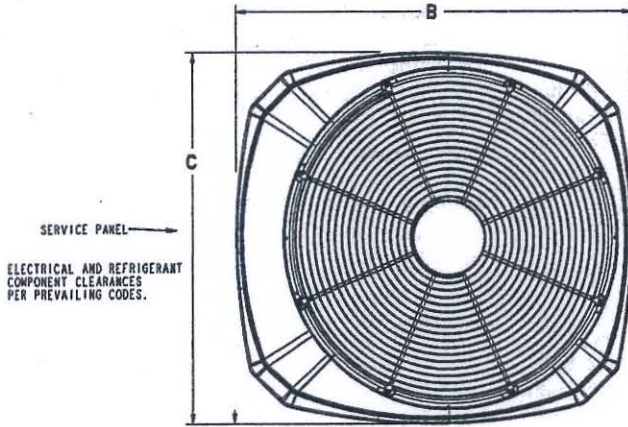
American Standard Heating & Air Conditioning is an international indoor and outdoor Air Conditioner manufacturer, providing air handlers, heat pumps, heating systems, furnaces, and programmable thermostats. American Standard Heating & Air Conditioning also provides clean and affordable cooling and heating, humidifiers, indoor air quality and clean air systems. Efficiency. Reliability. Quality. That's what makes American Standard Heating & Air Conditioning.

TAG: _____

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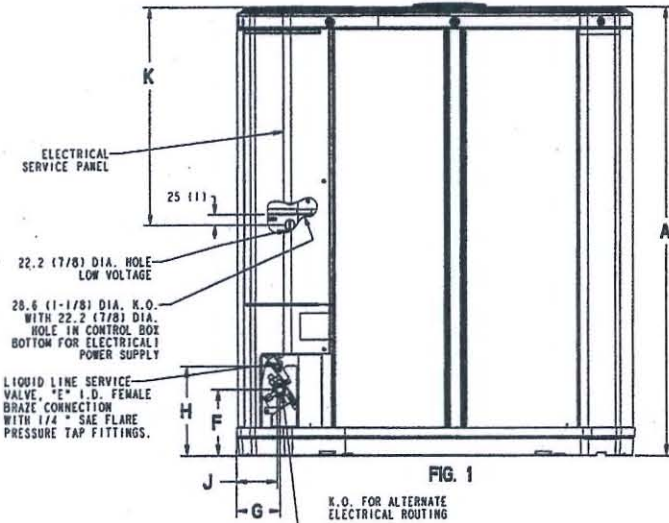
2 Ton Split System Cooling — 1 Ph 4A7A6024E

NOTE: All dimensions are in mm/inches.



SERVICE PANEL
ELECTRICAL AND REFRIGERANT
COMPONENT CLEARANCES
PER PREVAILING CODES.

TOP DISCHARGE AREA SHOULD BE
UNRESTRICTED FOR AT LEAST 1524 (5 FEET)
ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF
RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT,
AND SHOULD BE AT LEAST 305 (12") FROM WALL AND
ALL SURROUNDING SHRUBBERY ON TWO SIDES.
OTHER TWO SIDES UNRESTRICTED.



ELECTRICAL
SERVICE PANEL

22.2 (7/8) DIA. HOLE
LOW VOLTAGE

28.6 (1-1/8) DIA. K.O.
WITH 22.2 (7/8) DIA.
HOLE IN CONTROL BOX
BOTTOM FOR ELECTRICAL
POWER SUPPLY

LIQUID LINE SERVICE
VALVE, "E" I.D. FEMALE
BRAZE CONNECTION
WITH 1/4" SAE FLARE
PRESSURE TAP FITTINGS.

K.O. FOR ALTERNATE
ELECTRICAL ROUTING

GAS LINE 1/4 TURN BALL SERVICE VALVE, "D"
I.D. FEMALE BRAZED CONNECTION WITH 1/4 SAE
FLARE PRESSURE TAP FITTING.

From Dwg. D152862 Rev. 21

MODELS	BASE	A	B	C	D	E	F	G	H	J	K
4A7A6024E	4	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	5/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	711 (28)

Product Specifications

OUTDOOR UNIT ①②	4A7A6024E1000A
POWER CONNS. — V/PH/Hz ③	230/1/60
MIN. BRCH. CIR. AMPACITY	14
BR. CIR. PROT. RTG. — MAX. (AMPS)	20
COMPRESSOR	DURATION™ - SCROLL
NO. USED - NO. STAGES	1 - 2
VOLTS/PH/Hz	230/1/60
R.L. AMPS ⑦ - L.R. AMPS	10.3 - 52
FACTORY INSTALLED	
START COMPONENTS ⑧	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	NO
OUTDOOR FAN	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ④	3200
NO. MOTORS - HP	1 - 1/8
MOTOR SPEED R.P.M.	835
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	0.60
OUTDOOR COIL — TYPE	SPINE FIN™
ROWS - F.P.I.	1 - 24
FACE AREA (SQ. FT.)	27.86
TUBE SIZE (IN.)	3/8
REFRIGERANT	R-410A
LBS. — R-410A (O.D. UNIT) ⑤	9 LBS. - 13 OZ.
FACTORY SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ⑥	5/8
LINE SIZE - IN. O.D. LIQ. ⑥	3/8
CHARGING SPECIFICATION	
SUBCOOLING	9°F
DIMENSIONS	H X W X D
CRATED (IN.)	46.4 X 35.1 X 38.7
WEIGHT	
SHIPPING (LBS.)	276
NET (LBS.)	240

① Certified in accordance with the Air-Source Unitary Air-Conditioner Equipment certification program, which is based on ARI standard 210240. In order to achieve ARI standard rating, the indoor fan time delay on the comfort control must be enabled.

② Rated in accordance with ARI standard 270.

③ Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

④ Standard Air — Dry Coil — Outdoor

⑤ This value approximate. For more precise value see unit nameplate.

⑥ Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max. lift - Liquid 25 ft. For greater length consult refrigerant piping software Pub. No. 32-3312-0* (* denotes latest revision).

⑦ This value shown for compressor FLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

⑧ No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

A-weighted Sound Power Level [dB(A)]

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
		63	125	250	500	1000	2000	4000	8000
4A7A6024E	72	43.7	52.6	54.3	62.4	60.4	57	54.1	46.6

Note: Rated in accordance with AHRI Standard 270-2008

Mechanical Specification Options

General

The 4A7A6 is fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are A.R.I. certified. The unit shall be certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvers and panels. Corrosion and weatherproof CMBP-G30 DuraBase™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

Compressor

The Duration® 2-stage compressor features internal over temperature and pressure protection and hermetic motor. Other features include: roto lock suction and discharge refrigerant connections, centrifugal oil pump and modular plugs for electrical connections.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. For low ambient cooling below 55° see Application Guide APP-APG014-EN.



ARI Standard
210/240 UAC



American Standard
HEATING & AIR CONDITIONING

American Standard Heating & Air Conditioning
www.americanstandardair.com

03/10

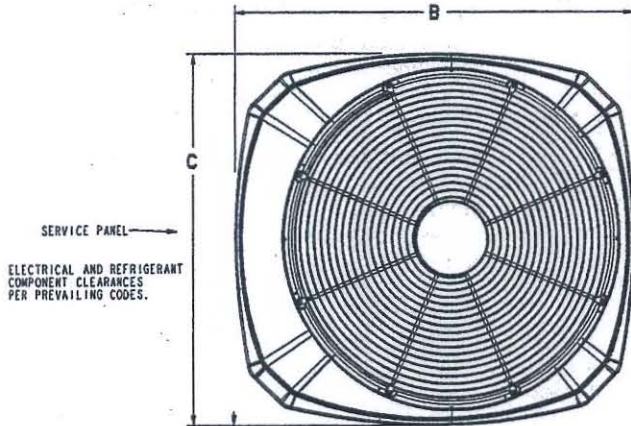
American Standard Heating & Air Conditioning has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

TAG: _____

SUBMITTAL

3 Ton Split System Cooling — 1 Ph 4A7A6036E

NOTE: All dimensions are in mm/inches.



SERVICE PANEL
ELECTRICAL AND REFRIGERANT
COMPONENT CLEARANCES
PER PREVAILING CODES.

TOP DISCHARGE AREA SHOULD BE
UNRESTRICTED FOR AT LEAST 1524 (5 FEET)
ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF
RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT,
AND SHOULD BE AT LEAST 305 (12") FROM WALL AND
ALL SURROUNDING SHRUBBERY ON TWO SIDES.
OTHER TWO SIDES UNRESTRICTED.

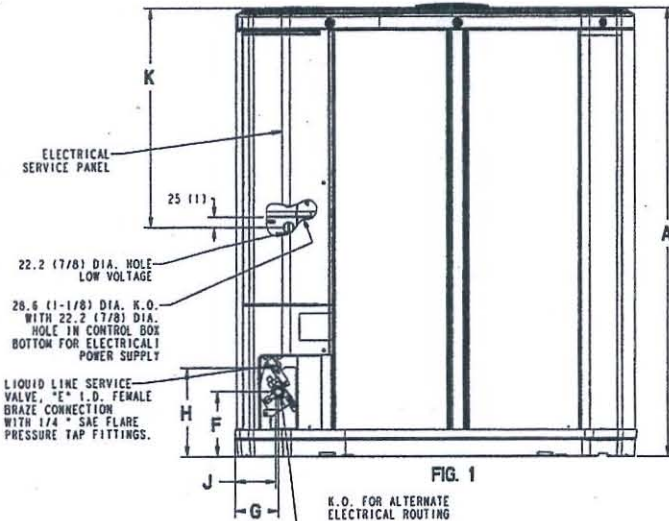


FIG. 1

K.O. FOR ALTERNATE
ELECTRICAL ROUTING

GAS LINE 1/4 TURN BALL SERVICE VALVE, "D"
I.D. FEMALE BRAZED CONNECTION WITH 1/4 SAE
FLARE PRESSURE TAP FITTING.

From Dwg. D152862 Rev. 26

MODELS	BASE	A	B	C	D	E	F	G	H	J	K
4A7A6036E	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	162 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	831 (32)

Product Specifications

OUTDOOR UNIT ①②	4A7A6036E1000A
POWER CONNS. — V/PH/Hz ③	230/1/60
MIN. BRCH. CIR. AMPACITY	22
BR. CIR. PROT. RTG. — MAX. (AMPS)	35
COMPRESSOR	DURATION™ - SCROLL
NO. USED - NO. STAGES	1 - 2
VOLTS/PH/Hz	230/1/60
R.L. AMPS ⑦ - L.R. AMPS	16.7 - 82
FACTORY INSTALLED	
START COMPONENTS ⑧	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	NO
OUTDOOR FAN	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1
CFM @ 0.0 IN. W.G. ④	3700
NO. MOTORS - HP	1 - 1/8
MOTOR SPEED R.P.M.	835
VOLTS/PH/Hz	200/230/1/60
F.L. AMPS	0.70
OUTDOOR COIL — TYPE	SPINE FIN™
ROWS - F.P.I.	1 - 24
FACE AREA (SQ. FT.)	30.79
TUBE SIZE (IN.)	3/8
REFRIGERANT	R-410A
LBS. — R-410A (O.D. UNIT) ⑤	9 LBS. - 13 OZ.
FACTORY SUPPLIED	YES
LINE SIZE - IN. O.D. GAS ⑥	3/4
LINE SIZE - IN. O.D. LIQ. ⑥	3/8
CHARGING SPECIFICATION	
SUBCOOLING	9°F
DIMENSIONS	H X W X D
CRATED (IN.)	51.0 X 35.1 X 38.7
WEIGHT	
SHIPPING (LBS.)	283
NET (LBS.)	245

① Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on ARI standard 210/240. In order to achieve ARI standard rating, the indoor fan time delay on the comfort control must be enabled.

② Rated in accordance with ARI standard 270.

③ Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

④ Standard Air — Dry Coil — Outdoor

⑤ This value approximate. For more precise value see unit nameplate.

⑥ Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max. lift - Liquid 25 ft. For greater length consult refrigerant piping software Pub. No. 32-3312-0* (* denotes latest revision).

⑦ This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

⑧ No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

A-weighted Sound Power Level [dB(A)]

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
		63	125	250	500	1000	2000	4000	8000
4A7A6036E	72	38	50.4	56.8	60.4	59.8	57.2	55.2	49.2

Note: Rated in accordance with AHRI Standard 270-2008

Mechanical Specification Options

General

The 4A7A6 is fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are A.R.I. certified. The unit shall be certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvers and panels. Corrosion and weatherproof CMBP-G30 DuraBase™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high pressure switch. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

Compressor

The Duration® 2-stage compressor features internal over temperature and pressure protection and hermetic motor. Other features include: roto lock suction and discharge refrigerant connections, centrifugal oil pump and modular plugs for electrical connections.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. For low ambient cooling below 55° see Application Guide APP-APG014-EN.



ARI Standard
210/240 UAC



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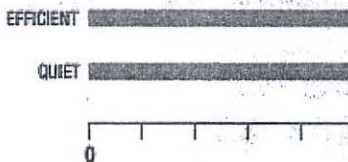
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PREMIUM

Freedom® 95 Comfort-R™ Variable Speed Furnace

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Key Benefits:

- Provides two-stage heating, running at an energy-saving 65% capacity more than 80% of the time, which reduces temperature swings and may help lower your heating bills*
- Converts up to 96.7% of the fuel you pay for into heat for your home
- Significantly surpasses government efficiency standards, helping you save on your energy bills while reducing greenhouse gas emissions*
- Qualifies for a possible federal energy tax credit**
- Runs quietly and evenly distributes warm air to every room with its variable speed fan motor
- In the summer, Comfort-R™ helps keep your home cooler by reducing indoor humidity
- Its heavy steel insulated cabinet is durable, quiet, and holds more heat in the furnace to better warm your home

*Potential energy savings may vary depending on your lifestyle, system settings, equipment maintenance, local climate, home construction and installation of equipment and duct system.

**Taxpayers should consult with a tax advisor to determine what qualifies for a tax credit or refer to the rules of the Internal Revenue Code

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▶ Warranty Information

▼ Specifications

Freedom 95® Variable Speed, Two-Stage, Upflow/Horizontal

Shipping

Model	TONNAGE	Stage 1 Capacity	Stage 2 Capacity	H"	W"	D"	Weight (lb)
AUH2B060A9V3VA	3	37,700	58,000	40.0	17.5	28.0	158
AUH2B080A9V3VA	3	49,500	76,000	40.0	17.5	28.0	168
AUH2C100A9V4VA	4	61,800	95,000	40.0	21.0	28.0	197
AUH2D120A9V5VA	5	74,500	114,700	40.0	24.5	28.0	206

Freedom 95® Variable Speed, Two-Stage, Downflow/Horizontal

Model	TONNAGE	Stage 1 Capacity	Stage 2 Capacity	H"	W"	D"	Shipping Weight (lb)
ADH2B060A9V3VA	3	37,000	57,000	40.0	17.5	28.0	160
ADH2B080A9V3VA	3	49,400	76,000	40.0	17.5	28.0	168
ADH2C100A9V4VA	4	61,800	95,000	40.0	21.0	28.0	185
ADH2D120A9V5VA	4	74,000	114,000	40.0	24.5	28.0	206

Convertible to horizontal; 2-stage gas valve; 2-speed power venter; PVC venting; Variable speed blower; Multi-port in-shot burners; Heavy gauge aluminized steel heat exchanger up to 96.7 AFUE; Lifetime limited primary heat exchanger or secondary heat exchanger warranty; 5-year limited parts warranty.

As an ENERGY STAR® Partner, American Standard Heating & Air Conditioning has determined that some models meet the ENERGY STAR® guidelines for energy efficiency.

The Freedom® 95 Comfort-R™ is an important part of this matched system:



**Allegiance®18
Air Conditioner**



**Freedom® 95
Comfort-R™
Var. Speed Furnace**



Power Humidifier



**800 Family
Comfort Control**



**AccuClean™
Whole House Air
Filtration System**



**AccuExchange™
Energy Recovery
Ventilator**

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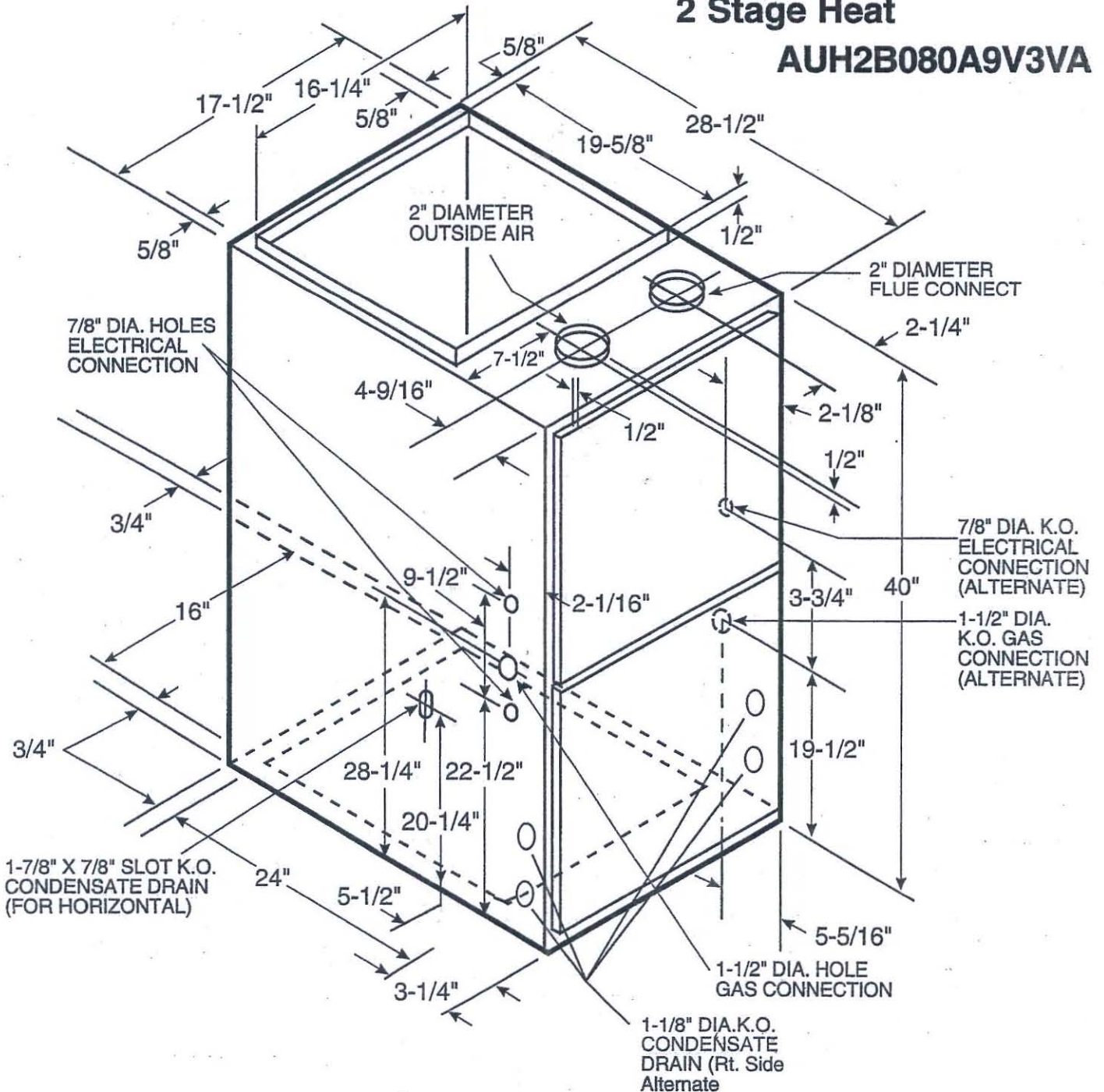
American Standard Heating & Air Conditioning is an international indoor and outdoor Air Conditioner manufacturer, providing air handlers, heat pumps, heating systems, furnaces, and programmable thermostats. American Standard Heating & Air Conditioning also provides clean and affordable cooling and heating, humidifiers, indoor air quality and clean air systems. Efficiency. Reliability. Quality. That's what makes American Standard Heating & Air Conditioning.

TAG: _____

SPECIFICATION

**Upflow / Horizontal
Direct Vent Gas Furnace
Variable Speed Inducer
2 Stage Heat**

AUH2B080A9V3VA



***UH2B080 FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER**

1st Stage Capacity = 49,500
2nd Stage Capacity = 76,000

	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	800 56 105	800 56 140	800 56 180	800 56 220	800 56 265
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	860 52 115	880 51 165	890 50 215	920 48 265	910 49 320
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	960 46 150	990 45 200	1000 44 230	1020 44 310	1010 44 350
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1080 41 195	1110 40 255	1120 40 315	1120 40 365	1080 41 390
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1100 62 205	1100 62 260	1120 61 320	1120 61 370	1090 63 400
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1210 57 265	1240 55 340	1260 54 410	1260 54 470	1130 61 430
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1360 50 365	1390 49 445	1400 49 500	1360 50 535	1210 57 475
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1360 50 355	1390 49 450	1400 49 520	1350 51 535	1180 58 465

NOTES:

- * First letter may be "A" or "T"
- ** Factory setting

***UH2B080 FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER**

OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.0	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	750 84	750 122	750 154	720 185	710 221
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	840 109	840 146	840 181	840 226	820 264
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	940 136	940 177	940 215	940 274	940 318
2.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	850 113	850 150	870 200	890 250	890 295
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	960 150	990 200	1000 230	1020 305	1010 350
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1080 195	1110 255	1120 315	1120 365	1080 390
3.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1020 175	1020 225	1040 280	1050 330	1050 375
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1170 240	1180 300	1200 365	1200 415	1130 420
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1290 310	1320 410	1350 470	1340 520	1150 440
3.5	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1170 250	1190 315	1210 370	1210 435	1100 405
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1360 365	1390 445	1400 500	1360 535	1210 475
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1360 355	1390 450	1400 520	1350 535	1180 460

NOTES:

- * First letter may be "A" or "T"
- 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value.
- 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting;
NORMAL airflow (400 cfm/ton) is typical setting;
HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.

NORMAL airflow (400 cfm/ton) is typical setting.
HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.

INDOOR BLOWER TIMING

Heating: The ICM Fan Control controls the variable speed indoor blower. The blower "on" time is fixed at 45 seconds after ignition. The FAN-OFF period is field selectable by dip switches #2 and #3 on the Integrated Furnace Control at 60, 100, 140, or 180 seconds. The factory setting is 100 seconds, (See unit wiring diagram).

Cooling: The fan delay-off period is set by dip switches on the ICM Fan Control board connected to the Integrated Furnace Control. The options for cooling delay off is field selectable by dip switches #5 and #6. However, dip switch #1 on the Integrated Furnace Control must be set to "ON" for cooling mode to function properly.

The following table and graph explain the delay-off settings:

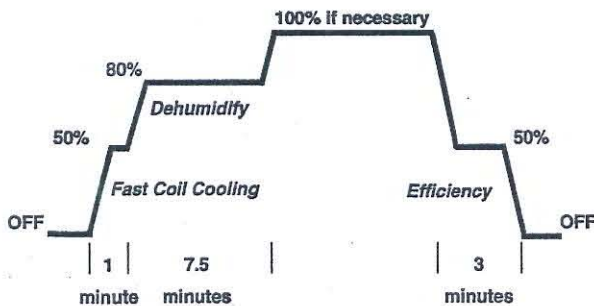
** - This selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph below shows the ramping process.

COOLING OFF - DELAY OPTIONS

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
5 - OFF	6 - OFF	NONE	SAME
5 - ON	6 - OFF	1.5 MINUTES	100% *
5 - OFF	6 - ON	3 MINUTES	50%
5 - ON	6 - ON	**	50 - 100%

* - This setting is equivalent to BAY24X045 relay benefit

** - This selection provides **ENHANCED MODE**, which is a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. See Wiring Diagram notes on the unit or in the Service Facts for complete wiring setup for **ENHANCED MODE**. The graph which follows, shows the ramping process.



GENERAL DATA ①

MODEL	*UH2B080A9V3VA
TYPE	Upflow / Horizontal
RATINGS ②	
1st Stage Input BTUH	52,000
1st Stage Capacity BTUH (ICS) ③	49,500
2nd Stage Input BTUH	80,000
2nd Stage Capacity BTUH (ICS) ③	76,000
AFUE	
Temp. rise (Min.-Max.) °F.	35 - 65
BLOWER DRIVE	
Diameter - Width (In.)	DIRECT 10 x 8
No. Used	1
Speeds (No.)	Variable
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	1/2
RP.M.	Variable
Volts / Ph / Hz	115/1/60
COMBUSTION FAN - Type	
Drive - No. Speeds	Centrifugal Direct - Variable
Motor HP - RPM	1/50 - 5000
Volts / Ph / Hz	33 - 110/3/60 - 180
FLA	1.0
FILTER - Furnished?	
Type Recommended	Yes High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 17x25 - 1 in.
VENT - Size (in.)	
2 Round	
HEATEXCHANGER	
Type - Fired	Aluminized Steel - Type I
-Unfired	
Gauge (Fired)	20
ORIFICES - Main	
Nat. Gas Qty. - Drill Size	4 - 45
L.P. Gas Qty. - Drill Size	4 - 56
GAS VALVE	
Redundant - Two Stage	
PILOT SAFETY DEVICE	
Type	Hot Surface Igniter
BURNERS - Type	
Multiport Inshot	
Number	4
POWER CONN. - V / Ph / Hz ④	
Ampacity (In Amps)	11.1
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (IN.)	
1/2	
DIMENSIONS	
Crated (in.)	H x W x D 41-3/4 x 19-1/2 x 30-1/2
WEIGHT	
Shipping (Lbs.) / Net (Lbs)	168 / 156

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3

② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Mechanical Specifications

NATURAL GAS MODELS

Central Heating furnace designs are certified to ANSI Z21.47 / CSA 2.3 for both natural and LP. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION

The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide extra safety.

QUICK HEATING

Durable, cycle tested, heavy gauge **aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a positive discharge of gas fumes to the outside.

BURNERS

Multipoint Inshot burners will give years of quiet and efficient service. All models can be converted to **LP. gas** without changing burners.

INTEGRATED SYSTEM CONTROL

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains connection points for E.A.C./Humidifier.

AIR DELIVERY

The variable speed blower motor, has sufficient airflow for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed.

SECONDARY HEAT EXCHANGER

The FREEDOM 95 has a special type 29-4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost instead.

STYLING

Heavy gauge steel and "wrap-around" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass. Built-in bottom pan and alternate bottom, left or right side return air connection provision.

FEATURES AND GENERAL OPERATION

The FREEDOM 95 High Efficiency Gas Furnaces employ an Adaptive Heat Up Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter
- b. Vent proving pressure switch.

American Standard Heating & Air Conditioning has a policy of continuous product and product data improvement and it reserves the right to change specifications and design without notice.

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