

**Invitation For Bid #18-1812
Metropolitan Tulsa Transit Authority
HVAC Units Amendment #1
July 2, 2018**

This amendment provides additional information to firms responding to IFB #18-1812 HVAC Units issued by the Metropolitan Tulsa Transit Authority (Tulsa Transit).

Purpose: This amendment answers questions posed by potential bidders, issues additional information concerning the Scope of Work and approves a request for Approved Equals.

I. ADDITIONAL INFORMATION CONCERNING THE SCOPE OF WORK:

Due to the age/condition of the existing electrical disconnect boxes on the three existing Hasting Make-Up Air units; new fusible boxes must be installed as part of this proposal. Please adjust your price accordingly

II. ONE OF THE POTENTIAL BIDDERS ASKED: WE ARE WONDERING IF YOU COULD HELP BY PROVIDING SERIAL NUMBERS OF THE HASTINGS UNITS THAT ARE CURRENTLY IN USE, BECAUSE UNITS CANNOT BE IDENTIFIED BY MODEL NUMBERS THAT ARE IN THE PROPOSAL DOCUMENTS?

Existing Hasting units:

- Serial # 036477, model # RMUB1600G, size – MP-218, 7 ½ H.P. motor, R.P.M. 700 / C.F.M. 18530

natural gas fired rooftop mounted, 460/60/03 power

- Serial # 036394, model # RMUB-500-G, size – MB-114B, 1 ½ H.P. motor, R.P.M. 650 / C.F.M. 4500

natural gas fired rooftop mounted, 460/60/03 power

- Serial # 036277, model # RMUA-210G, size – MB-114A, 1/3 H.P. motor, R.P.M. 500 / C.F.M. 1800 natural gas fired rooftop mounted, 115/60/01 power

III. PER INSTRUCTIONS IN THE RFP A REQUEST FOR AN APPROVED EQUAL ON THE DIRECT FIRE MAKE-UP AIR UNITS AND PACKAGED ROOFTOP UNITS IS BEING MADE.

SEE NEXT PAGES:

DGX-125-H35

CONSTRUCTION FEATURES AND ACCESSORIES

Unit Overview

Model	Airflow (CFM)	Heating	Cooling	Electrical V/C/P
DGX-125-H35	18,000	Direct Gas	No Cooling	460/60/3

Features

- Removable access panels
- Painted or galvanized steel blower and bearing supports
- Forward curved steel blower and motor
- Fan assembly is mounted on neoprene vibration isolators
- Motor pulleys are adjustable through 15 hp and fixed for 20 hp and greater
- Fan shaft is mounted in permanently lubricated ball bearings (up through size 118) or ball bearing pillow blocks (size 120 and greater)
- Static free belts
- Corrosion resistant fasteners are standard
- Disconnect mounted by factory

Options and Accessories

- Air Flow Arrangement: Outdoor Air Only
- Weatherhood: Birdscreen
- Filter Section: MERV8, 20x25x2 - (15)
- Outdoor Air Intake Position: End
- Discharge Position: Bottom
- Coating: Permatector - Concrete Gray (RAL 7023)
- Insulation: Double Wall - Heat Source On
- Hinged Access
- Access Side: Right-Hand
- Control Center
- Heat Inlet Air Sensor
- Dirty Filter Switch
- Remote Panel: Industrial (ships loose)
- Unit Controls: Remote Panel
- Mounting: GKD-73.5/113.5-G24
- Unit Warranty: 2 Yrs (1 Yr Ext)



NOTES:

Integral unit disconnect is supplied as a standard.

Unit weight does NOT include skid/crating and may vary by 15% based on selected options.

PERFORMANCE AND SPECIFICATIONS

Description/Arrangement

Model	Qty	Unit Weight (lb)	Discharge Position	Air Flow Arrangement	Unit Arrangement
DGX-125-H35	1	2,611	Downblast	Outdoor Air Only	Horizontal

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)
676	99.4	79.2	10.9

Air Performance

Type	Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating hp (per motor)	Motor Quantity/HP (per motor)	Supply Fan Type/Quantity
Supply	18,000	0.1	1	576	9.5	Qty 1/10	Forward Curve/ Qty(1)

Unit Pressure Drop (in. wg)

Air Stream	Weatherhood	Damper Section	Filter Section	Cooling Section	Heating Section
Supply	0.046	0	0.229	0	0.625

Sound Performance in Accordance with AMCA

Fan	Sound Power by Octave Band								Lwa	dBA	Sones
	62.5	125	250	500	1000	2000	4000	8000			
Supply	99	91	88	87	84	83	78	73	90	79	34

Electrical/Motor Specifications

V/C/P	Unit MCA (amps)	Unit MOP (amps)	Enclosure	Supply Motor RPM	Supply Efficiency
460/60/3	18.4	30	ODP	1725	Premium

Heating/Cooling Specifications

Heating Type	Gas Type	Input (MBH)	Output (MBH)	LAT (F)	Temp. Rise (F)
Direct Gas	Natural	2,094.0	1,926.5	110.0	99.0

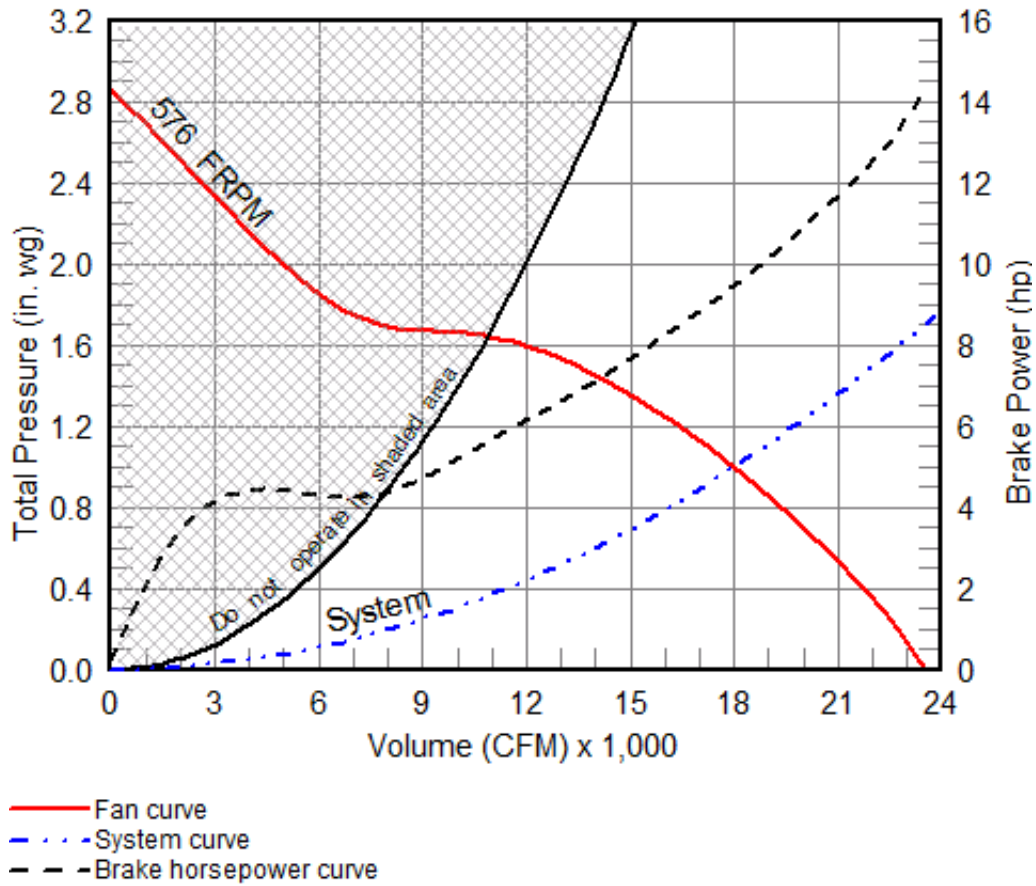
Note: Filter pressure drop is for clean filters.

Note: Weatherhood pressure drop is for clean filters.

FAN CURVES

Supply Fan Performance

Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating hp (per motor)	Motor hp (per motor)	Supply Fan Type	Supply Fan Quantity
18,000	0.1	1	576	9.5	10	Forward Curve	1



HEATING PERFORMANCE

Direct Gas Heating

Heating Type	Gas Type	Input (MBH)	Output (MBH)	LAT (F)	Temp. Rise (F)
Direct Gas	Natural	2,094.0	1,926.5	110.0	99.0

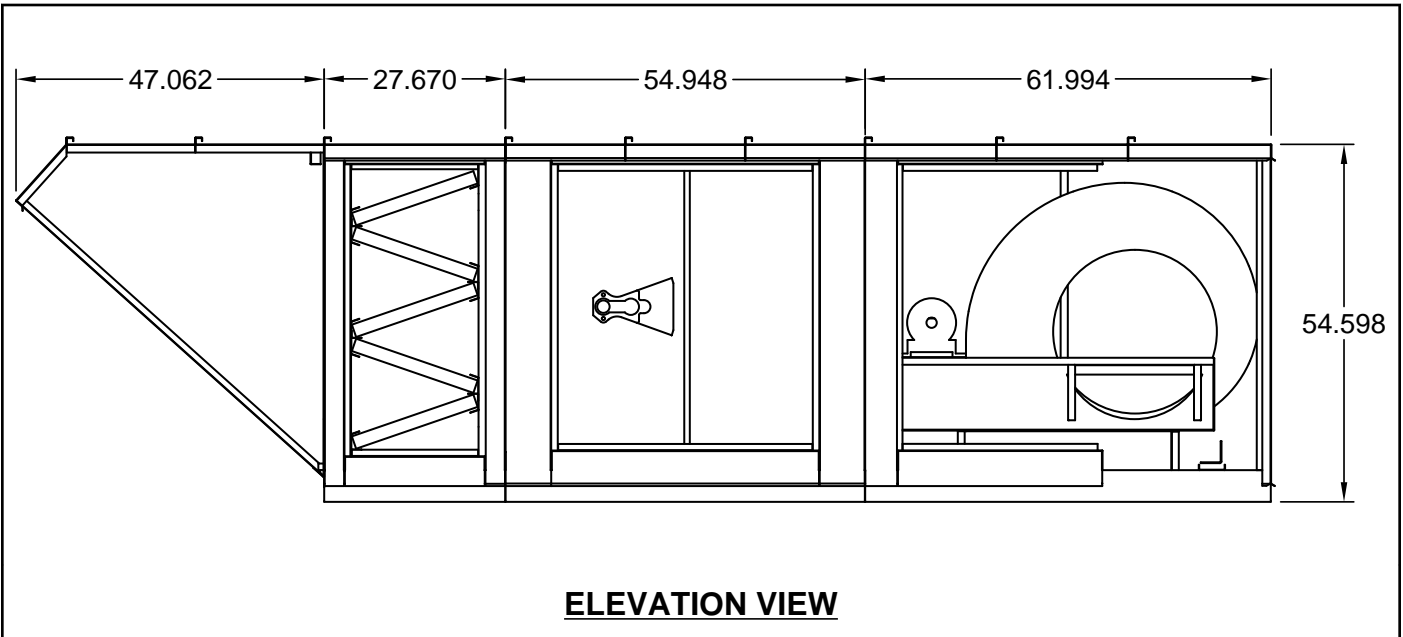
Direct Gas Unit Details

This unit will come equipped with the following:

- 92% efficiency
- Pilot Ignition
- High quality cast aluminum burners with stainless steel mixing plates
- Burner capable of 30:1 turndown
- Maxitrol electronic modulation burner control

Heating Details

Agency Approval	ETL and IRI
Building Gas Pressure	1 to 2 PSI
Temperature Control	Discharge
Units Rated Gas Pressure	5 PSI
Ignition Control	Pilot
Flame Sensing	FlameRod
High Gas Pressure Switch	Yes
External Gas Regulator	No
Min Gas Pressure For Maximum Fire	14 in. wg

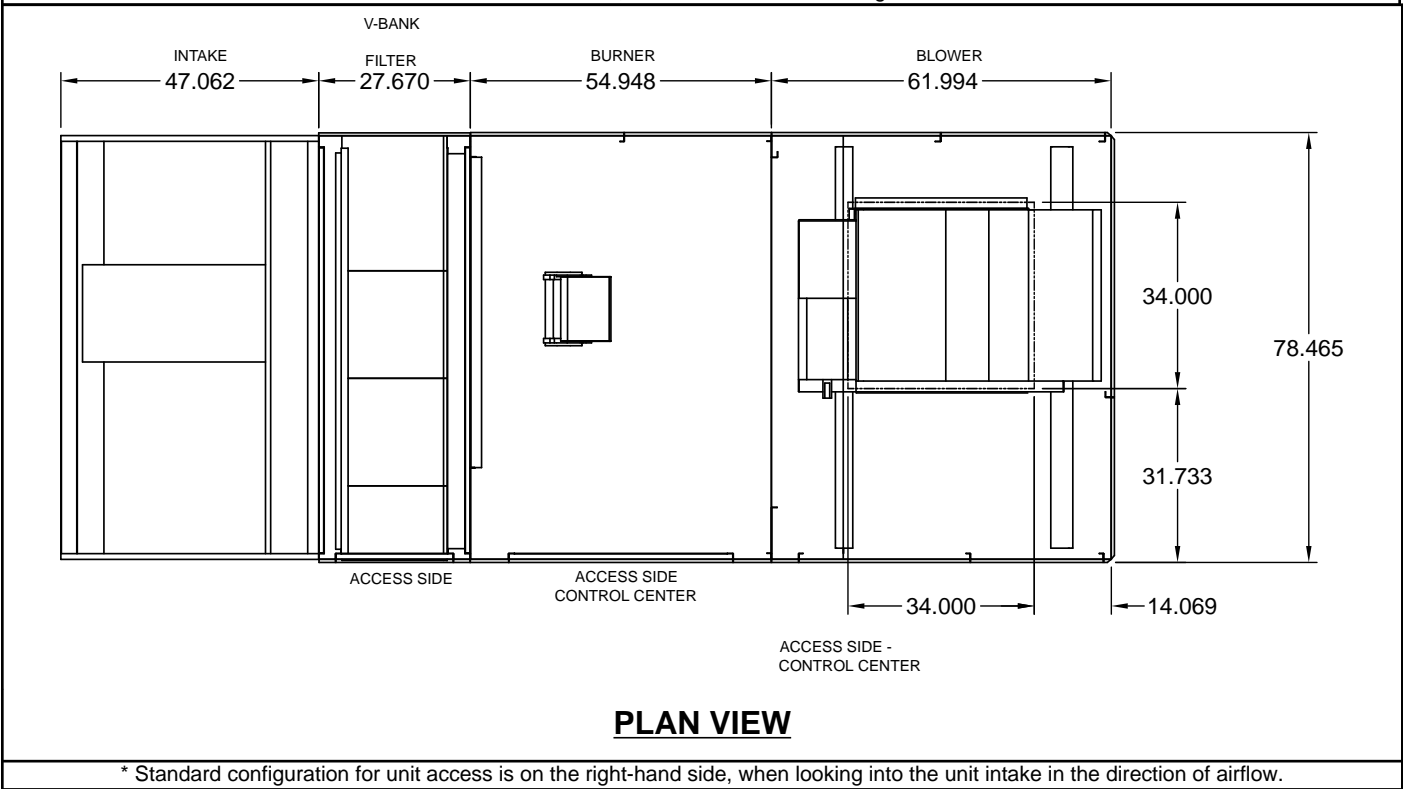


*Standard configuration for unit access is on the right-hand side, when looking into the unit intake in the direction of airflow.

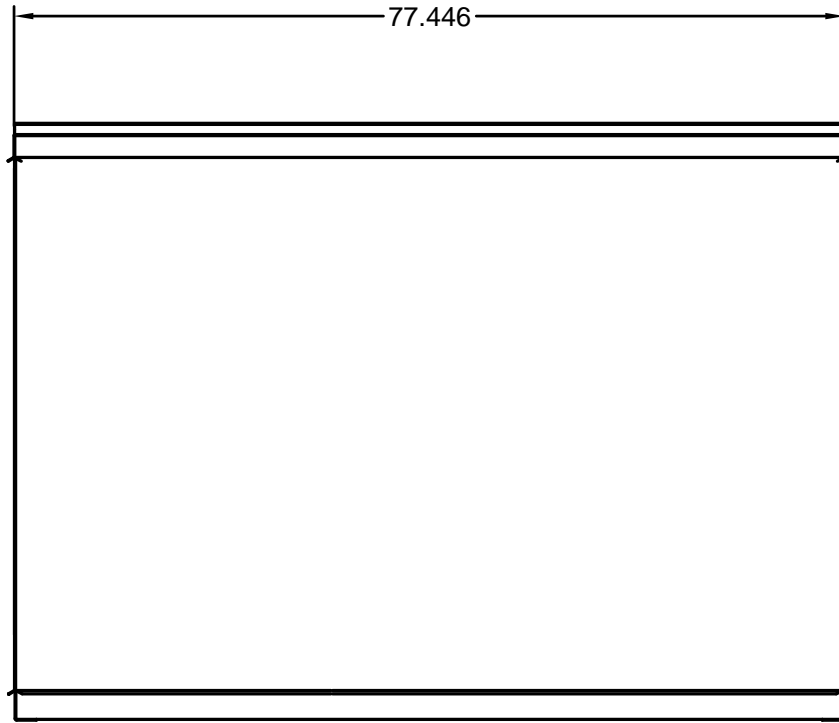
*Note: Order of unit sections is from intake of unit to discharge of unit.

*Sections included on this unit: Weatherhood Section, Filter Section, Heating Section, Blower Section

*Insulation: Double Wall, from Burner Section through end of unit.



* Standard configuration for unit access is on the right-hand side, when looking into the unit intake in the direction of airflow.

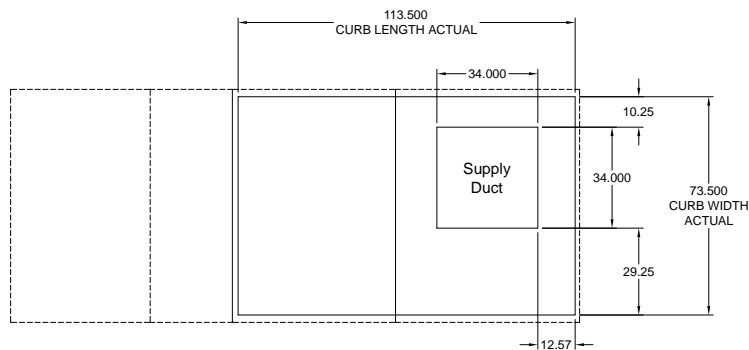


END VIEW

NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.



NOTE: The weatherhood and filter sections of the make-up air unit extend beyond the curb. This is by design, to prevent water infiltration.

FOOTPRINT VIEW

