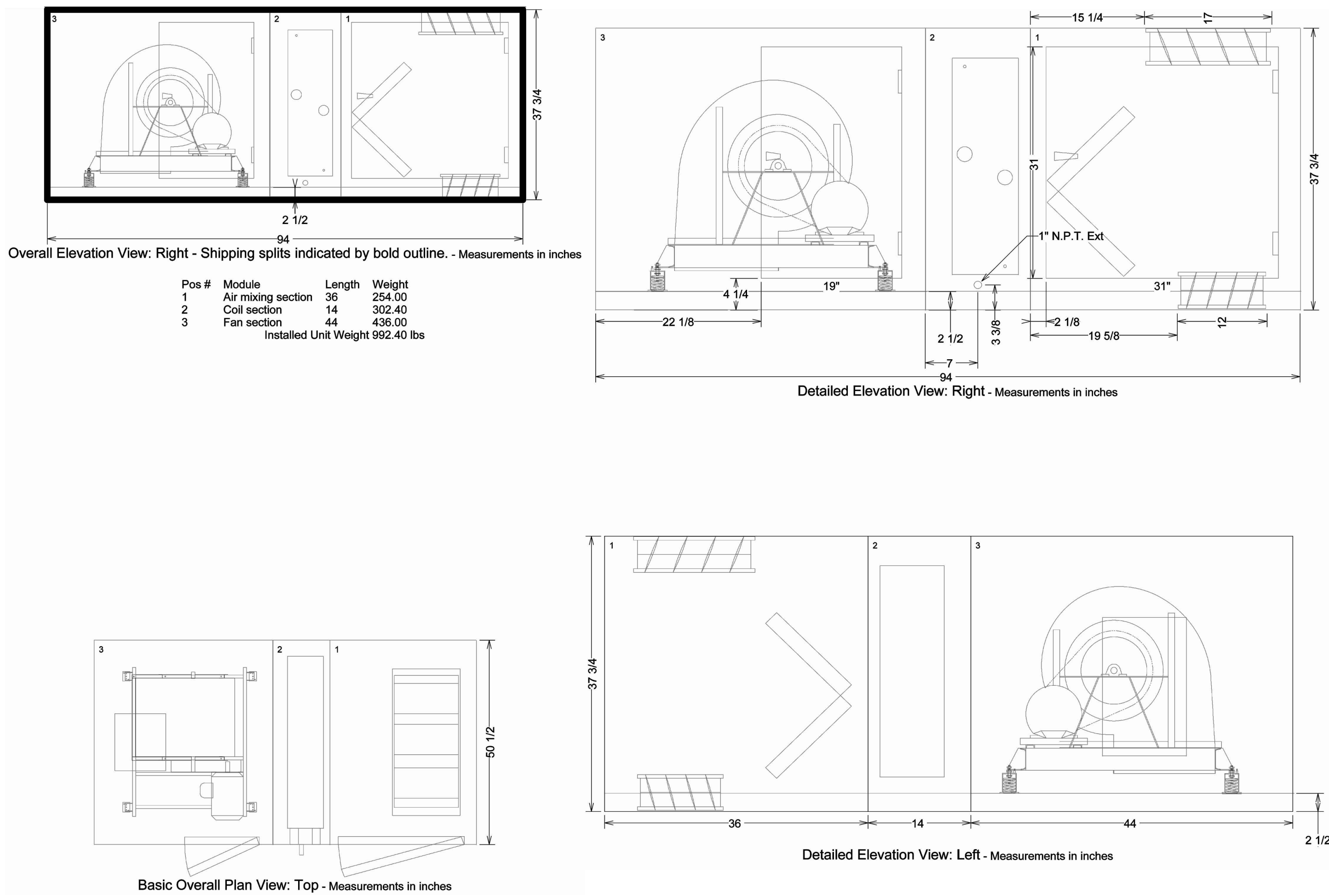


90-AHU-2 SPECIFICATIONS

Performance Climate Changer		Unit level options		Module Position:		0	
Quantity	1	Unit elevation	3890 cfm	Inlet and casing - 500 Hz	60 dB	Coil section	Coil se [2]-1
Job Comments		Unit size	0.00 ft	Inlet and casing - 1K Hz	65 dB	Section type	Horizontal coil
		Integral base frame	2.5in. integral base frame	Inlet and casing - 2K Hz	67 dB	Unit size	Medium
		UL listed unit	UL listed unit	Inlet and casing - 4K Hz	61 dB	Coil application	Chilled water
		UL voltage location	UL voltage location	Inlet and casing - 8K Hz	46 dB	Changeover coil	No
		Length	94.000 in	Ducted inlet - 63 Hz	74 dB	Coil type	Right
		Width	50.500 in	Ducted inlet - 125 Hz	67 dB	Rows	6 rows
		Installed weight	987.4 lb	Ducted inlet - 250 Hz	61 dB	Fin type	Delta flo E (energy efficient)
		Rising weight	940.9 lb	Ducted inlet - 1K Hz	54 dB	Fin material	Aluminum fins
		Single or front discharge - 63 Hz	89 dB	Ducted inlet - 2K Hz	58 dB	Tube diameter	1/2in. tube diameter (12.7 mm)
		Single or front discharge - 125 Hz	86 dB	Ducted inlet - 4K Hz	53 dB	Tube material/thickness	0.016" (0.406mm) copper tubes
		Single or front discharge - 250 Hz	84 dB	Ducted inlet - 8K Hz	38 dB	Corrosion resistant coating	None
		Single or front discharge - 500 Hz	82 dB	Casing - 63 Hz	79 dB	Coil face velocity	487 fpm
		Single or front discharge - 1K Hz	84 dB	Casing - 125 Hz	75 dB	Air pressure drop	0.607 in H2O
		Single or front discharge - 2K Hz	81 dB	Casing - 250 Hz	71 dB	J trap dimension	1.824 in
		Single or front discharge - 4K Hz	78 dB	Casing - 500 Hz	67 dB	H trap dimension	3.649 in
		Single or front discharge - 8K Hz	71 dB	Casing - 1K Hz	75 dB	Leaving fluid temperature	53.00 F
		Inlet and casing - 63 Hz	80 dB	Casing - 2K Hz	57 dB	Fluid pressure drop	3.33 ft H2O
		Inlet and casing - 125 Hz	79 dB	Casing - 4K Hz	37 dB	Fluid volume	5.57 gal
		Inlet and casing - 250 Hz	73 dB	Casing - 8K Hz	26 dB	Fluid velocity	2.62 f/s
Controls and VFD/Starter		Module Position:		0		Fan section	
Factory controls package	No factory mount	LCD screen and keypad	No LCD	Module Position:		3	
Automatic Selection	No auto selection	Design Sequence	A	Fan sec [3]-1	Fan	Static pressure origin	Program calculated
Controller mounting	No mount	Prepackaged solution option used	MP common configuration not used	Fan application	Supply fan	Single or front discharge - 63 Hz	89 dB
Controller type	No controller	Total number of control points	0 control points	Unit size	8	Single or front discharge - 125 Hz	86 dB
Warranty		Module Position:		Inlet location	Back inlet	Single or front discharge - 250 Hz	84 dB
Warranty section	Std. warranty only	Module Position:		Fan orientation	Bottom-front discharge	Single or front discharge - 500 Hz	82 dB
Air mixing section		Module Position:		Fan discharge	Bottom front	Single or front discharge - 1K Hz	84 dB
Section type	Air mixing section	Design sequence	B	Access door location	Right	Single or front discharge - 2K Hz	81 dB
Unit size	8	Opening 1 bottom - airflow	3890 cfm	Drive location	Right side drive	Single or front discharge - 4K Hz	78 dB
Mixing section type	with filter	Filter condition	Mid-life	Design sequence	D	Single or front discharge - 8K Hz	71 dB
Filter frame	2"	Filter airflow	3900 cfm	Motor horsepower per fan	5 hp	Inlet and casing - 63 Hz	80 dB
Filter type	Pleated media - MERV 8	Opening 1 front - airflow	3890 cfm	Motor class	NEMA premium compliant ODP	Inlet and casing - 125 Hz	79 dB
Access door location	Right	Opening 1 top - airflow	3890 cfm	Motor voltage	480V3	Inlet and casing - 250 Hz	73 dB
Back opening type	No opening	Opening 1 bottom - face velocity	1168 f/min	Cycle	60 cycles/sec	Inlet and casing - 500 Hz	60 dB
Front opening type	Full face opening	Opening 1 bottom - pressure drop	0.292 in H2O	Drive service factor	1.5 fixed drive	Inlet and casing - 1K Hz	65 dB
Leaving		Opening 1 top total pressure drop	0.292 in H2O	Motor RPM	1800	Inlet and casing - 2K Hz	67 dB
Front air path	Parallel blade damper	Opening 1 bottom total pressure drop	0.292 in H2O	Fan airflow	3900 cfm	Inlet and casing - 4K Hz	61 dB
Top air path	Entering	Greatest entry F.O.	0.292 in H2O	Overall ESP	1.500 in H2O	Inlet and casing - 8K Hz	48 dB
Top air path type	Outside	Opening 1 front - area	10.09 sq ft	Unit entering ESP	0.750 in H2O	Ducted inlet - 63 Hz	74 dB
Top inlet type	Ducted	Opening 1 top - area	3.33 sq ft	Unit discharge ESP	0.750 in H2O	Ducted inlet - 125 Hz	67 dB
Bottom opening type	Parallel blade damper	Opening 1 bottom - area	3.33 sq ft	Elevation	0.00 ft	Ducted inlet - 250 Hz	61 dB
Bottom air path	Entering	Opening 1 top - face velocity	1168 f/min	Minimum temperature	40.00 F	Ducted inlet - 500 Hz	51 dB
Bottom air path type	Return	Opening 1 top - pressure drop	0.292 in H2O	Design temperature	70.00 F	Ducted inlet - 1K Hz	54 dB
Bottom inlet type	Ducted	Filter area	11.11 sq ft	Fan size and type	10in. diameter FC, class 1	Ducted inlet - 2K Hz	58 dB
Right side opening type	No opening	Filter face velocity	350 f/min	Total brake horsepower	4.584 hp	Ducted inlet - 4K Hz	53 dB
Left side opening type	No opening	Filter pressure drop	0.592 in H2O	Total brake horsepower at min temp	4.864 hp	Ducted inlet - 8K Hz	38 dB
				Total static pressure	2.991 in H2O	Casing - 63 Hz	79 dB
				Sized	1763 rpm	Casing - 125 Hz	75 dB
				Outlet area	1.04 sq ft	Casing - 250 Hz	71 dB
				Fan module pressure drop	1.500 in H2O	Casing - 500 Hz	67 dB
				Section height	37.750 in	Casing - 1K Hz	76 dB
				Section length	44.000 in	Casing - 2K Hz	57 dB
				Section width	50.500 in	Casing - 4K Hz	37 dB
				Section weight	436.0 lb	Casing - 8K Hz	28 dB

90-AHU-2 DETAILS



90-AHU-2 - HVAC DETAILS AND SPECIFICATIONS - BUILDING 90

N.T.S.

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Revisions	Date

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Central Alabama Veterans Health Care System

Approved:	Approved:
Approved:	Approved:
Approved:	Approved:
Approved:	Approved:

Drawing Title
90-AHU-2 - HVAC DETAILS AND SPECIFICATIONS - BUILDING 90
Safety Officer
Clinical Representative

Project Title
HVAC MODIFICATIONS TO BUILDINGS 83, 90, & 93 TUSKEGEE, ALABAMA
Building Number
90
Checked
RDW
Drawn
JAD
Location
East Campus, Tuskegee, AL

Date
12/21/10
Project No.
619-10-445
DRAWING NO.
90M3.2
Dwg. 28 of 59

Veterans Administration