

**Louis A. Johnson VAMC
1 Medical Center Dr
Clarksburg WV 26301
SOW**

AIR HANDLER COIL REPLACEMENT AHU 30

1. GENERAL INTENTION.

It is the general intention of the LAJ VAMC to acquire contractor services for the provision of labor and material to install new cooling, and energy recovery coils in AHU 30.

2. SCOPE OF WORK:

Contractor shall provide all material, equipment, labor, & supervision, to remove the existing two energy recovery coils. Previous cooling coils have been removed from the AHU.

The Contractor shall provide and install two energy recovery coils, two chilled water coils. Removal and installation of supporting equipment to include but not limited to: Johnson Control freeze stats, AHU access panels shall be the responsibility of the contractor. Upon completion and activation of new coils the contractor shall verify the AHU operation and coil performance data. AHU evaluation shall include measuring air flow readings at all service areas fed from AHU 30. Verification of coil and AHU performance shall be through a contractor hired and VA approved AABC certified TAB contractor. The TAB contractor shall provide a written report of all airflow reading at service locations, all coil performance proven to be in accordance with the attached coil performance data.

3. SPECIFICATION:

The contractor provided coils shall meet the following technical specifications:

Cooling Coil Information

Coil type	WD	Actual airflow	11600 cfm
Rows	8	Entering dry bulb	100.00 F
Nominal coil height	36" (914 mm)	Entering wet bulb	77.00 F
Finned length	108" (2743 mm)	Total capacity	987.89 MBh
Fin type	Prima-flo H	Sensible Capacity	617.69 MBh
Fin material	Aluminum	Leaving dry bulb	52.00 F
Nominal fin spacing	123 fins per foot	Leaving wet bulb	51.90 F
Tube matl/wall thickness	020 (0.508 mm) copper	Actual coil face area	27.00 sq ft
Corrosion resistant coating	No	APD	0.812 in H2O
Turbulators	No	Volume	28.88 gal
		Elevation	0.00 ft
Rigging weight	792.8 lb	Face velocity	430 ft/min
Installed weight	1034.4 lb	AHRI 410 classification	AHRI ACHC certified

Chilled Water Information

Standard fluid flow rate	175.00 gpm	Fluid PD	12.46 ft H2O
Entering fluid temp	45.00 F	Fluid velocity	4.03 ft/sec

Leaving water temperature	56.25 F	Fouling factor	0.00000 hr-sq ft-deg F/Btu
Fluid temp rise	11.25 F	Reynolds number	14821.84 Each
Fluid type	Water		

Energy Recovery Coil

Coil Type	Hot Water	BTUH Total	228,663 BTU/ HR
Tubing diameter	½"	BTUH Sensible	228,663 BTU/HR
Tube wall thickness	.017	Leaving Air temp (DB)	29.6 F
Fins per inch	12	Leaving Air temp (WB)	23.4 F
Fin Material	Aluminum	Air Pressure Drop	0.325 IN W.G.
Fin Type	Sine Wave	Air Velocity	405 FPM
Rows Deep	6	Leaving H2O Temp	17.4 F
Tubes high	24	Water Pressure Drop	5.04 FT H2O
Finned length	106"	Fluid Velocity	2.14 FPS
SCFM	8950		
Entering AT (DB)	6 F		
Entering AT (WB)	6 F		
GPM	22.2		
Entering WT	38 F		
Number of circuits	18		

The contractor shall provide one OSHA certified 30 hour competent person to serve as the site superintendent. All other employees shall be a minimum OSHA 10 hour certified. The contractor shall submit OSHA certifications for all employees expected to work on site prior to beginning any work.

The contractor shall submit all proposed equipment performance data for VA review and approval prior to contract award. The contractor shall submit AABC certifications for proposed TAB contractor prior to award.

4. HOURS OF WORK:

All contractor work is to be performed outside of normal working hours of Monday – Friday 8am – 430pm. All work shall be scheduled to begin after business hours on a Friday, and be complete by start of business the following Monday. Period of Performance for complete effort shall be three weeks from date of award of contract.

