



Custom Procurement Report

Control How You Source Building Systems

Directly access suppliers and automate sourcing, procurement, and financing—all from one platform

Key Benefits

Save Time

Automate RFQs and reduce manual work by up to 50%

Cut Costs

Negotiate directly with suppliers for better deals

Streamlined Sourcing

Take BuildVision's structured data and send it to suppliers at BuildVision.io

Customer Information

Customer Name	University of Connecticut
Contact Person	N/A
Contact Email	N/A
Contact Phone	N/A

Project Information

Project Name	UConn Field House - Old Rec Center Renovation
Location	2111 Hillside Rd, Storrs, CT 06269
Start Date	N/A
Completion Date	N/A
Budget	N/A
Scope	Field House - Old Rec Center Renovation - Phase 2
Project ID	20210041
Project URL	BuildVision Project Link
Project Number	300209
Phase	Phase 2

Prepared By

Ben Lyddane
Ben@BuildVision.io
202-365-8628

Mackenzie Hoover
Mackenzie@buildvision.io
843-609-3265

Date: 2025-06-17

Project Equipment

Cabinet Unit Heaters

Equipment Tag	Manufacturer	Model
CUH-A	Mestek	RC-03
CUH-B	Mestek	RC-04
CUH-C	Mestek	RW-03
CUH-D	Mestek	RW-04

Notes

Recessed wall ceiling units with bottom inlet and discharge grilles, modulating control capability

Electric Unit Heaters

Equipment Tag	Manufacturer	Model
EH-A	QMark	EFF1500
EWB-A	QMark	AWH4404F
EUH-A	QMark	MUH05-21

Notes

Electric heating units with fan control and BMS monitoring capability

Hydronic Unit Heaters

Equipment Tag	Manufacturer	Model
UH-1	Mestek	HS-125A

Notes

Horizontal unit heaters with hot water supply and return connections

Radiant Heating and Cooling Hydronic Panels

Equipment Tag	Manufacturer	Model
R-1	Zehnder Rittling	PR2F-1
R-2	Zehnder Rittling	PR2F-1
RP-1	Armstrong World Industries	AR-X
RP-2	Armstrong World Industries	AR-X

Notes

Ceiling mounted radiant panels with copper tubing and aluminum construction

Fan Coil Units

Equipment Tag	Manufacturer	Model
FCU-A	Daikin Applied	FCHC 06

Notes

Horizontal concealed units with hot water coils and ECM motors

Noise Control Equipment

Equipment Tag	Manufacturer	Model
AHU-1b	Vibro Acoustics	NCC-VCR
AHU-3	Vibro Acoustics	NCC-VCR
AHU-4	Vibro Acoustics	NCC-VCR

Notes

Vibration isolation and noise control curbs for rooftop equipment

Duct Silencers

Equipment Tag	Manufacturer	Model
SA-1A-R	Vibro Acoustics	RED-HV-AY32147
SA-1A-S	Vibro Acoustics	RD-HV-AY32147

Notes

Acoustic silencers for HVAC ductwork with various configurations

Suppliers

Cabinet Unit Heaters

Manufacturer	Model	Representative	Compatibility Notes	BoD
Mestek	RC-03, RC-04, RW-03, RW-04	N/A	Listed on mechanical schedules as BoD Manufacturer for Cabinet Unit Heaters tags CUH-A through CUH-D	Yes
Vulcan		N/A	Listed as acceptable manufacturer for Unit Heaters in specification Section 238200	Listed
Sterling		N/A	Listed as acceptable manufacturer for Unit Heaters and Cabinet Unit Heaters in specification Section 238200	Listed
Modine		N/A	Listed as acceptable manufacturer for Unit Heaters, Cabinet Unit Heaters, and Electric Unit Heaters in specification Section 238200	Listed
Trane		N/A	Listed as acceptable manufacturer for Unit Heaters and Cabinet Unit Heaters in specification Section 238200	Listed

Electric Unit Heaters

Manufacturer	Model	Representative	Compatibility Notes	BoD
QMark	EFF1500, AWH4404F, MUH05-21	N/A	QMark appears as the manufacturer for electric heaters EH-A, EWH-A, and EUH-A in the equipment schedules, making them the basis of design for this project.	Yes
Modine		N/A	Listed as an acceptable manufacturer for electric unit heaters in specification section 238200	Listed
Indeeco		N/A	Listed as an acceptable manufacturer for electric unit heaters in specification section 238200	Listed

Chromalox		N/A	Well-known manufacturer of electric heating equipment, commonly used as alternate for electric unit heaters	No
Berko		N/A	Established manufacturer of electric heating equipment suitable for similar applications	No

Hydronic Unit Heaters

Manufacturer	Model	Representative	Compatibility Notes	BoD
Mestek	HS-125A	N/A	Horizontal hydronic unit heater, 27.8 MBH capacity at 180°F EWT, 160°F LWT, 60°F EAT, 30% propylene glycol	Yes
Vulcan		N/A	Listed as acceptable manufacturer for unit heaters in Section 238200	Listed
Sterling		N/A	Listed as acceptable manufacturer for unit heaters in Section 238200	Listed
Modine		N/A	Listed as acceptable manufacturer for unit heaters in Section 238200	Listed
Trane		N/A	Listed as acceptable manufacturer for unit heaters in Section 238200	Listed

Radiant Heating and Cooling Hydronic Panels

Manufacturer	Model	Representative	Compatibility Notes	BoD
Zehnder Rittling	PR2F-1	N/A	Equipment tags R-1 and R-2 on mechanical schedules	Yes
Runtal		N/A	Industry standard alternative for radiant panel radiators	Listed
Myson		N/A	Industry standard alternative for radiant panel radiators	Listed

Buderus		N/A	Industry standard alternative for radiant heating panels	Listed
---------	--	-----	--	--------

Fan Coil Units

Manufacturer	Model	Representative	Compatibility Notes	BoD
Daikin Applied	FCHC 06	N/A	Horizontal Fan Coil Unit specified in schedule	Yes
Trane		N/A	Listed as acceptable manufacturer for various fan coil units and air terminal equipment	Listed
Price Industries		N/A	Listed as acceptable manufacturer for air terminal units including VAV boxes with controls	Listed
Johnson Controls Inc. / Enviro-Tec		N/A	Listed as acceptable manufacturer for air terminal units	Listed
Carrier		N/A	Industry standard alternative for fan coil units, may require different piping connections	No
York		N/A	Compatible alternative for horizontal fan coil applications	No

Noise Control Equipment

Manufacturer	Model	Representative	Compatibility Notes	BoD
Vibro Acoustics	NCC-VCR	N/A	Noise Control Curbs for AHU-1b, AHU-3, and AHU-4	Yes
IAC		N/A	Alternative manufacturer for duct silencers	Listed
Kinetics Noise Control		N/A	Alternative manufacturer for duct silencers and noise control equipment	Listed
McGill AirSilence		N/A	Alternative manufacturer for duct silencers	Listed
Ruskin		N/A	Alternative manufacturer for duct silencers	Listed

Duct Silencers

Manufacturer	Model	Representative	Compatibility Notes	BoD
Vibro Acoustics	RD	N/A	Multiple models including RD-HV-AY32147, RD-MV-AY32147, RD-MHV-AY32147, RD-UHV-AY32147	Yes
IAC		N/A	Listed as acceptable alternate manufacturer in Section 23 3300	Listed
Kinetics Noise Control		N/A	Listed as acceptable alternate manufacturer in Section 23 3300	Listed
McGill AirSilence		N/A	Listed as acceptable alternate manufacturer in Section 23 3300	Listed
Ruskin		N/A	Listed as acceptable alternate manufacturer in Section 23 3300	Listed

BuildVision Recommendations

1. Implement Standardized HVAC Equipment Strategy

Rationale: The project requires numerous manufacturers across various HVAC equipment categories. Having too many different manufacturers increases inventory complexity, maintenance training requirements, and spare parts management. The specifications show multiple acceptable manufacturers for fans, valves, pumps, and other equipment, which can lead to procurement challenges and higher long-term costs.

Estimated Impact: Significant reduction in maintenance costs and training requirements. Lower spare parts inventory costs and streamlined maintenance procedures.

Implementation: Establish preferred manufacturer lists for each equipment category early in the procurement process. Prioritize manufacturers with strong local service support within 100 miles of the project. Create equipment standardization guidelines that limit the number of manufacturers per category while maintaining competitive bidding.

Priority: High

2. Establish Equipment Service and Support Requirements

Rationale: The specifications repeatedly reference manufacturer requirements for service facilities within 100 miles and minimum three years of documented experience. This indicates the importance of reliable service support, but procurement should verify these capabilities upfront to avoid future service issues.

Estimated Impact: Reduced downtime and faster response times for equipment repairs. Lower lifecycle costs due to better maintenance support.

Implementation: Include service capability verification as part of the procurement evaluation criteria. Require manufacturers to provide documentation of local service centers, certified technicians, and parts availability. Consider weighting these factors in the equipment selection process.

Priority: High

3. Optimize Valve and Control Component Procurement

Rationale: The project includes extensive valve schedules and specifications for different pressure classes and applications. The specifications show detailed valve requirements for various services (hot water, steam, cooling) with specific manufacturers. Coordinating valve procurement with system requirements can achieve better pricing and compatibility.

Estimated Impact: Moderate cost savings through bulk procurement and improved system compatibility. Reduced installation complexity.

Implementation: Bundle valve procurement by system type and pressure class. Coordinate with the controls contractor early to ensure compatibility between valves and actuators. Consider pre-fabricated valve assemblies where appropriate to reduce field labor.

Priority: Medium

4. Implement Vibration Isolation Equipment Coordination

Rationale: The specifications require extensive vibration isolation for various equipment including pumps, fans, and AHUs. The requirements vary by equipment type, location, and capacity. Coordinating isolation requirements early can prevent compatibility issues and ensure proper system performance.

Estimated Impact: Improved system performance and reduced noise transmission. Prevention of costly rework due to inadequate vibration control.

Implementation: Create a comprehensive vibration isolation matrix that matches equipment types with appropriate isolation requirements. Coordinate with structural engineers to ensure adequate support for isolated equipment. Verify that all isolation components are from the same manufacturer family for compatibility.

Priority: Medium

5. Establish Testing and Commissioning Equipment Requirements

Rationale: The specifications include extensive testing requirements for ductwork leakage, hydronic systems, and equipment performance. The testing requirements are detailed but may require specialized equipment and certified personnel that should be considered during procurement planning.

Estimated Impact: Ensured system performance and warranty compliance. Reduced risk of system deficiencies and callbacks.

Implementation: Include testing equipment and certified personnel requirements in the procurement planning phase. Verify that contractors have access to required testing equipment or budget for rental/purchase. Coordinate testing schedules to avoid conflicts between different systems.

Priority: Medium

6. Coordinate Control System Integration Requirements

Rationale: The project includes DDC controls, building automation systems, and various control sequences. The specifications reference BACnet communication and integration with existing campus systems. Early coordination of control system requirements can prevent compatibility issues and reduce programming costs.

Estimated Impact: Seamless system integration and reduced commissioning time. Lower long-term operational costs through integrated control.

Implementation: Establish control system architecture requirements early in procurement. Verify BACnet compatibility and integration capabilities with existing campus systems. Coordinate with UConn IT and facilities management to ensure proper network integration and security protocols.

Priority: High

Conclusion

Key Findings

- Multiple approved manufacturers exist for most equipment categories, creating opportunities for competitive pricing but requiring careful coordination to avoid compatibility issues and excessive spare parts inventory
- Extensive vibration isolation and noise control requirements throughout the project demand specialized equipment and proper coordination between trades to ensure performance specifications are met
- Control system integration with existing campus BACnet infrastructure requires early coordination with UConn IT and facilities management to ensure seamless operation and security compliance
- Comprehensive testing requirements for ductwork leakage, hydronic systems, and equipment performance necessitate specialized testing equipment and certified personnel that must be factored into procurement planning
- Service support requirements specify manufacturers must have facilities within 100 miles and minimum three years documented experience, indicating the critical importance of long-term maintenance capabilities

Highest Priority Actions

- Establish preferred manufacturer lists for each equipment category early in procurement to balance competitive pricing with standardization benefits and coordinate with UConn facilities management for input on preferred vendors
- Verify manufacturer service capabilities including local service centers, certified

technicians, and parts availability within 100 miles before final equipment selection to ensure adequate long-term support

- Coordinate control system integration requirements with UConn IT and existing campus BACnet infrastructure early in the procurement process to prevent compatibility issues and ensure proper network security protocols
- Bundle procurement of similar equipment types and validate vibration isolation compatibility across all equipment to achieve better pricing and ensure proper system performance throughout the facility

Summary

The UConn Field House - Old Rec Center Renovation project requires comprehensive procurement of HVAC equipment including cabinet unit heaters, electric unit heaters, hydronic systems, radiant panels, fan coil units, and noise control equipment. The project specifications detail extensive requirements for vibration isolation, control systems integration, and testing protocols. Key procurement considerations include managing multiple manufacturer options across equipment categories, ensuring adequate local service support within 100 miles, and coordinating control system integration with existing campus BACnet infrastructure.



Ben Lyddane
Ben@BuildVision.io
202-365-8628

Mackenzie Hoover
Mackenzie@buildvision.io
843-609-3265

Date: 2025-06-17