



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
LittleRock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 8/21/2025

Return Request: 9/4/2025

Project: Hot Springs National Park – Rehabilitate Bathhouses – Buckstaff Bathhouse

Supplier: Harrison Energy Partners

Manufacturer: Daikin

Submittal: Reheat Coil (RHC-1)

Submittal Number: 237313.002

Spec Section: 237313

Drawing # and Installation Location: M3-2

ARCHITECT

Kenneth Hahn Architects, Inc.
1343 S. 75th Street
Omaha, Nebraska 68124
(402)391-2111

GENERAL CONTRACTOR

Tepa, LLC
2345 Grand Blvd, Suite 700
Kansas City, Missouri 64108
(816)708-1110

ENGINEER

Alvine Engineering
1201 Cass Street
Omaha, Nebraska 68102
(402)346-7007

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Road
North Little Rock, Arkansas 72117
(501)834-3320

Comments:

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117



Submittal

Prepared For:
Alvine Engineering

Date:
September 26, 2025

Sold To:
Comfort Systems USA

Job Name:
Buckstaff Bathhouse

Harrison Energy Partners is pleased to provide the enclosed submittal for your review and approval.

Qty.	Product Summary
1	Daikin Hot Water Reheat Coil

Josh Robinson
Harrison Energy Partners
1501 Westpark Drive, Suite 9
Little Rock, AR 72204-2457
Phone: (501) 661-0621
Cell: (501) 539-0633
Fax: (501) 661-9109

The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Job Information		Technical Data Sheet	
Job Name	Rehabilitate Bathhouses - Buckstaff Bathhouse		
Date	9/15/2025		
Submitted By	Tufail Muhammad		
Software Version	10.70	Coil DLL Version	10.70
Unit Tag	RHC-1		



Coil Overview					
Model Number	Application	Total Capacity Btu/hr	Air Flow CFM	Fin Height in	Fin Length in
5WQ0803B	Hot Water coil	174085	5300	27	32.00

Coil	
Model Number:	5WQ0803B
Application:	Hot Water coil
Type	Standard
Crating:	Standard Crate
Approval:	AHRI

Physical (Per Coil)					
Depth	Height	Length	Weight		
			Shipping	Operating	Dry
6.00 in	29.00 in	42.12 in	196 lb	99 lb	69 lb
Material					
Tube Diameter	Fin		Tube	Case	
0.625 in	0.0075 in Aluminum		0.020 in Copper nominal	Galvanized steel	
Geometry					
Fin Design	Fins per Inch	Number of Rows	Fin Height	Fin Length	Tube Spacing
Corrugated	8	3	27 in	32.00 in	1.50 X 1.299
Connection				Flange Dimensions	
Type	Size	Hand	Length	Header	Side
Carbon Steel (threaded)	1.500 in	Right Hand	3.00 in	1.00 in	1.00 in

Performance							
Air Flow CFM		Altitude ft		Face Area ft²		Face Velocity ft/min	
5300		0		6.0		883.3	
Total Capacity Btu/hr	Temperature					Air Pressure Drop inH ₂ O	
	Entering			Leaving			
	Air Dry Bulb °F	Water °F	Air Dry Bulb °F	Water °F			
174085	55.0	160.0	85.0	104.9	0.64		
Fluid							
Pressure Drop ft H ₂ O	Flow rate gpm		Velocity ft/s	Type	Volume gal		
1.2	6.3		1.3	Water	3.00		
Hot Water Fouling Factor:		0.0000					

AHRI Certification



Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 with the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.AHRIdirectory.org

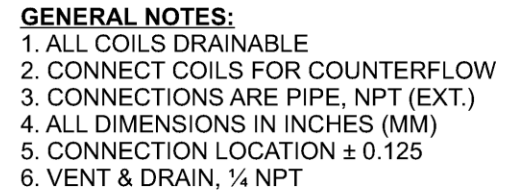
AHRI Performance Criteria

Minimum Fin Surface Temperature:

32 °F

Minimum Tube Wall Surface Temperature:

32 °F



Dimensions																
Coil Model	Coil Airflow	Rows	Fin Height (in)	Fin Length (in)	Overall Height (in)	Overall Length (in)	Conn Size (in)	A (in)	B (in)	H (in)	L (in)	M (in)	N (in)	P (in)	Q (in)	Depth (in)
5WQ0803B	Horizontal	3	27	32.00	29.00	42.12	1.500	3.870	1.790	1.790	1.70	1.70	3.00	1.00	1.00	6.000

Product Drawing		Unit Tag: RHC-1		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 10.70
Product:		Project Name: Rehabilitate Bathhouses		Sales Engineer:			
Model: 5WQ		Sept. 15, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25" Dwg Units: (in)	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

Copper Tube Headers

Description

Heavy-gauge seamless drawn copper tube headers with carbon steel connections. This proven header design can lengthen coil life by providing necessary header flexibility to compensate for normal expansion and contraction during operation.

Intermediate drain headers are available for coils that cannot be installed level.

Intruded tube holes provide maximum brazing surface for maximum strength. Copper tubes brazed to copper headers offer a combination of similar materials which eliminates unequal thermal expansion and greatly reduces stress in the tube-header joint.



Flanged Casings

Description

Double flanged galvanized steel casings on all water heating coils provide greater strength and better support for easier coil stacking. Moving and handling operations are simplified by the heavy coil casings. Top and bottom casing flanges are turned back to form two channel sections in a “box” shape, providing maximum strength and durability.

Flanged Casing is die-formed, heavy-gauge, continuous galvanized steel with reinforced mounting flanges (other materials available on request). Intermediate tube sheets position the core assembly on the larger standard water coils to prevent damage in handling and shipment.



Full-Fin Collars

Description

Efficient fin presses perform multi-stage operations to draw full fin collars with wide, smooth surfaces that completely cover coil tubes. Our full-fin collars actually form a tube within a tube, yielding greater strength and maximum heat transfer. Lack of sharp collar edges makes our coils easier to clean; smoother fin collars retard lint and dirt accumulations.

The fins have collars to determine fin spacing per inch and support the heat transfer bond to primary surface. Tubing is not visible between the fins.

Fin collars are fully drawn to completely cover the tubes for maximum heat transfer and to provide accurate control of fin spacing. Tubes are mechanically expanded into fin collars to provide a continuous primary to secondary compression bond over entire coil length, assuring maximum heat transfer.

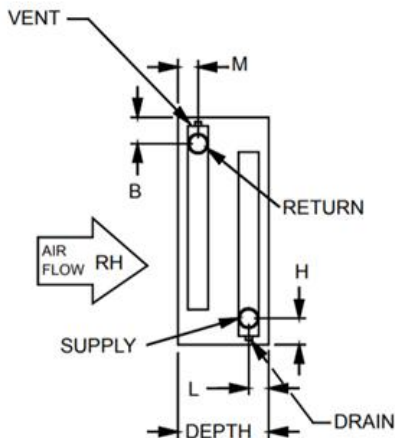


Vents and Drains

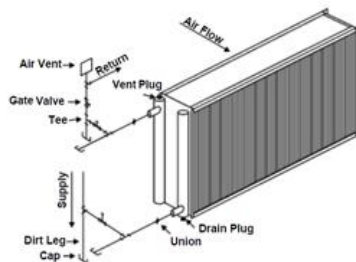
Description

Vents and drains are furnished on all standard Daikin water and glycol coils. Vent and drain plugs are provided on the coil header.

Vents allow removal of accumulated air and aids in the draining process. All Daikin water and glycol coils are designed to be fully drainable when properly mounted. Drain the coil by opening all drain valves and/or the drain plug. Remove the vent plug to aid the draining process.



Horizontal Air Flow



Vertical Air Flow

