



UNIVERSITY OF HOUSTON
PLANT OPERATIONS

Pride in Service.

Capital Renewal & Deferred Maintenance (CRDM) PROJECT REQUEST FORM

Business Services Only Request#

Project Title CAMPUS WIDE RUPTURED COIL REPLACEMENT	
Building # 345/678/593/589/561/564/529	Building Name SERC, ENGD, FINE ARTS, HSCA, FLEMMING, SCIENCE RESEARCH 2, SERC CLASSROOM
Emergency or Immediate Funding* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Managing Shop/Area MINOR & PLANNED PROJECTS
New Funding Request* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add Funding to Project #
Project Description/Scope (attach any estimate prior to request): REMOVAL AND REPLACEMENT OF OUTSIDE AIR HANDLER COILS THAT RUPTURED DURING THE FEBRUARY 2011, FREEZE. THE AMOUNT REQUESTED IS TO REPLACE COILS FOR 7 BUILDINGS ON CAMPUS. THESE UNITS PROVIDE NECESSARY COOLING FOR THE BUILDINGS MENTIONED. IF NOT REPLACED SOON THE BUILDINGS TEMPERATURES WILL NOT SUSTAIN. ADDITIONAL SCOPE: ASBESTOS REMOVAL, REMOVAL OF INSULATION AND REINSULATION EQUIPMENT RENTAL AND CONTRACTOR SUPPORT	

Plant Ops Use Only

Desired Construction Start Date 3/15/11	Desired Completion Date 6/15/11	Contract Date 2/28/11
*If Emergency Provide Justification and impact on business continuity: the coils provide necessary cooling for these building without them the temperatures in these buildings will not sustain. humidity will be high and possible mold problems	Shop Request:	Purchased Material & Services \$325,000.00
		In-House Labor \$5,000.00
		Contingency \$16,500.00
		3% Admin Fee (as applicable) \$10,395.00
		Total Estimate \$356,895.00

Requested By: ken oliver	Date: 2/22/11	Director: <i>James A. [Signature]</i>	Date: 2/20/11
Department Contact:	Date:	Division Administrator:	Date:
Project Manager Assigned: ken oliver	Executive Director Facilities Management: <i>[Signature]</i> 2/23/11		
Project Number Assigned:			
Funding Source:			
Submit completed Project Request Form to: Sue Yerby, CRDM Program Coordinator E-mail: sgyerby@uh.edu			

**University of Houston
Minor & Planned Projects
Facilities Maintenance**

22-Feb-11

prepared by Ken Oliver

Project NAME

CAMPUS HVAC RUPTURED COIL REPLACEMENT

Project: Request Estimate

		COST	U	TOTAL
CONSULTANT - EQUIPEMENT				
1	ea		1	
2	LF		1	
3	lot		1	-
4	COILS COST AT STANDARD LEAD TIME	\$ 102,075	1	102,075
5	MATERIALS FOR INSTALLATION	\$ 76,558	1	76,558
6	CONTRACTORS LABOR	\$ 62,520	1	62,520
7	ASBESTOS REMOVAL	\$ 7,500	1	7,500
8	ASBESTOS CONSULTANT	\$ 7,300	1	7,300
9			1	-
10			1	-
11			1	-
	Subtotal	\$ 255,951		255,951
IN HOUSE LABOR				
		\$ 5,000		5,000
1	ea		1	-
2	CONTINGENCY FOR INSULATION,	\$ 16,500	1	16,500
3			1	-
	Subtotal	\$ 16,500	1	16,500
1	3 % ADMINISTRATION FEE	\$ 10,395	1	10,395
2			1	-
3			1	-
4			1	-
5			1	-
	Subtotal.		1	-
ESTIMATED SUBTOTAL		\$ -		\$ 272,451
General Contractors -Overhead and Profit		\$ -		\$ 29,970
Subtotal -Consultant management and construction cost		\$ -		\$ 306,888.81
BOND				\$ 3,443.78
SUBTOTAL				\$ 310,333
				48,550
TOTAL CONSTRUCTION COST				\$ 356,882
PROJECT TOTAL *				\$ 356,882

Work Request 243302

Phase 002

2/22/2011 09:39:33

Work Request 243302			
WATER LEAK IN RMS CORRIDOR 5022& 5016			
Customer	CHEMISTRY	Region	UH
Name		Type	S
Phone		Category	BLD
OC	H0107	Status	10-OPEN
POC	OGNJEN MILJANIC	Entered By	jvasquez
Phone	28827	Cust Req No	
Project		Facility	00730
Shop	TRADES	Property	545
Shop Person	0081856	Location	5022 & 5016
Name	WRIGHT, STEVEN E.		
		Facility	UH-MAIN
		Property	SERC BUILDING

Work Request Extra Description

WATER LEAK IN RMS CORRIDOR 5022& 5016
PLEASE CHECK ASAP

Work Request 002 WATER LEAK IN RMS CORRIDOR 5022 & 5016			
Est Start Date	2/2/2011	Est End Date	
Priority	ASAP	Status	91-BUS OFF
Problem Code		Work Code	ASSESSING
Shop	US - MECH MAIL	Labor Class	
Contractor		Project Contract	
Address Cd		Contract	
Equipment Description	Serial Number		

Phase Extra Description

WATER LEAK IN RMS CORRIDOR 5022 & 5016
ROOF TOP UNIT HAS A LEAK IN THE CHILL WATER COIL
SECURED WATER AND VACUUM UP THE WATER

Job Started ___/___/___

Completed ___/___/___

Person Assigned KAPILESHWARI, SAMEER A.

Actual Hours _____

Signature _____

Work Request 243302

Phase 002

Registered - A

Shop US - MECH MAINT

Shop Person	Shop Person Name	Primary	Certified
0119369	KAPILESHWARI, SAMEER A.	Y	N

Entered - 01/27/2011

Login	Status Date	Time	Status Code
jvasquez	2/2/2011	08:20:33	10-ENTER
jgonzalez	2/2/2011	15:31:59	ACM-02
jvasquez	2/2/2011	16:00:46	ACM-02
rdawson	2/3/2011	08:56:01	65-WRKCOM
lmadriral	2/7/2011	09:40:39	91-BUS OFF

Services

\$ Actual	\$ Estimate	Percent
56.64	0.00	0.00

Account - 00730-1026

Account	Sub Code	Percent	Start Date
Offset Account	Offset Sub Code	Amount	Expire Date
00730-1026-H0189-G0247-NA	53855	100.00	2/7/2011 09:06:31
00730-1026-H0189-G0247-NA	53855	\$0.00	

Job Started ____/____/____	Completed ____/____/____
Person Assigned <u>KAPILESHWARI, SAMEER A.</u>	Actual Hours _____
Signature _____	

Work Request 243386

Phase 001

2/22/2011 09:40:54

Work Request 243386			
WATER COMING FROM CEILING INTO 47			
Customer	CHEMISTRY	Region	UH
Name		Type	S
		Category	BLD
Phone		Facility	00730
		Status	10-OPEN
OC	H0107	Entered By	jvasquez
POC	VLADIMIR ZAITSEV	Property	564
Phone	32725	Cust Req No	
Project			LAMAR FLEMING, JR.
Shop	TRADES		4800 calhoun 4100 entrance 14
Shop Person	0081856		HOUSTON TX
Name	WRIGHT, STEVEN E.		Location 47 BASEMENT

Phase 001 WATER COMING FROM CEILING INTO 47 (TOWARD S THE BACK OF RM)			
Est Start Date	2/2/2011	Est End Date	
Priority	ASAP	Status	65-WRKCOM
Problem Code		Work Code	ASSESSING
Shop	TRADES	Labor Class	
Contractor		Project Contract	
Address Cd		Contract	
Equipment Description		Serial Number	

Shop Person

Shop	TRADES
Shop Person	1064463
Shop Person Name	MAYO, WILLIAM
Primary	Y
Certified	N

Equipment

Login	Status Date	Time	Status Code
jvasquez	2/2/2011	12:15:08	10-ENTER
mwelzel	2/2/2011	12:35:38	ACM-02

Job Started ___/___/___ Completed ___/___/___

Person Assigned MAYO, WILLIAM Actual Hours _____

Signature _____

Work Request 243386

Phase 001

Status History

Login	Status Date	Time	Status Code
mweizel	2/2/2011	12:35:55	25-ASSGN
kbarnes	2/9/2011	15:14:17	65-WRKCOM

\$ Actual	\$ Estimate	Percent
17.00	0.00	0.00

Account Distribution

Account	Sub Code	Percent	Start Date
Offset Account	Offset Sub Code	Amount	Expire Date
00730-1026-H0192-G0734-NA	53855	100.00	2/9/2011 15:13:54
00730-1028-H0192-G0734-NA	53855	\$0.00	

Job Started ___/___/___

Completed ___/___/___

Person Assigned MAYO, WILLIAM

Actual Hours _____

Signature _____

Memorandum

Utilities, Energy & Technical Service
HVAC/MECHANICAL

To: Sameer Kapileshwari
Director, Utilities, Energy & Technical Service
University of Houston Central Campus

From: Louis Madrigal Jr., Manager
UE&TS HVAC/Mechanical
University of Houston Central Campus

Date: February 9, 2011

Re: Coils Damage by Freeze

Sameer,

Attached is the Quotations from Heatcraft and VICON for the coil replacements at our various buildings with frozen coils. This project should go to Jim Norcom in M&PP ASAP so we can have this building up before it gets to hol.. S&R-2, HSCA, SERC are already in arms. To give you an idea of the cost of this project I work out some numbers for you. This is just an estimate.

Cost of coils only at standard lead time.	102,075.00
Est. for Materials, Installation & Labor.	76,558.00
Contractors Overhead & Profit	<u>62,520.00</u>

Total Est. cost of project **\$241,151.00**

Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-5788	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-681-6550
Fax:	713-743-5801	Return Fax:	713-681-6552
Job:	SERC Bldg.	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED

via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
LAHU-1	6	5WM0806A	39.00	102.00	504	67,127	\$42,762
Tubing (In): 0.625 x 0.025 Copper			Two Tube Support Provided			Mounting Holes Provided	
Fin Material (In): 0.0075 Aluminum			Right Hand				
Casing: 304L S/S-Flanged			Qty Discount Applied				
(1) Conn: 3.000-MPT-Carbon Steel			Label Kit Provided				
Rotate vert 180-degrees							
3 ea. - Right Hand / 3 ea. - Left Hand							

For 5-working day Premium ship-time, add 30% (\$2,138.00 ea.) to above price: \$9,285.00 net each coil. \$55,690 total net.

Grand Total : \$42,762

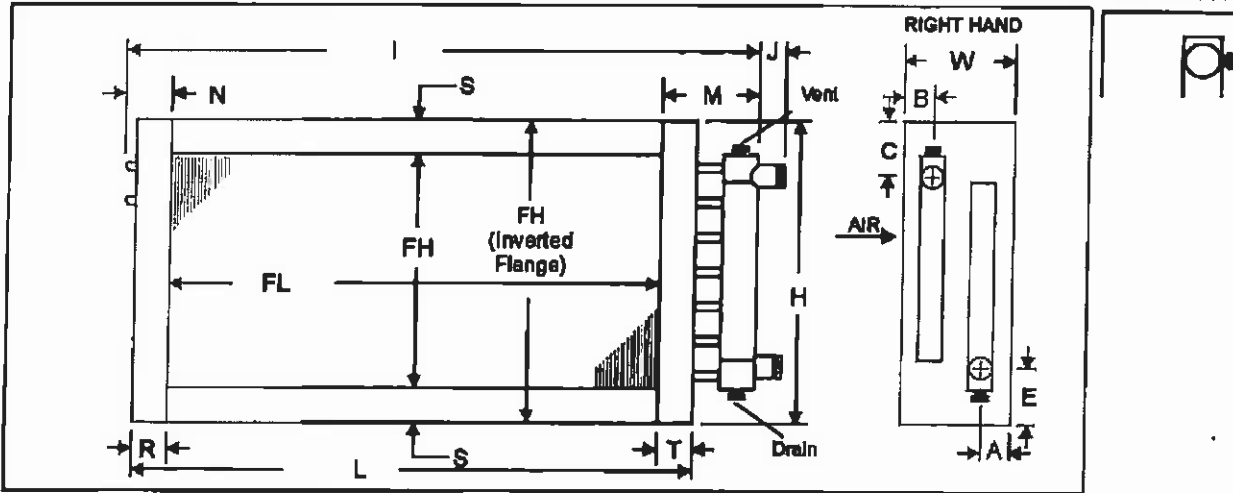
Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: SERC Bldg.
 Quote #: 0

Date: 2/6/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecl@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
LAHU-1	6	5WM	08	08	A	39.00	102.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS			
Fins	0.0075 Aluminum	Coating	None	TurboSpirals	No
Tubes	0.025 Copper	Casing Type	Flanged	Moisture Eliminator	No
Casing	304L S/S	Vent & Drain	.50 FPT on Side	Mounting Holes	Yes
Conn. Material	Carbon Steel			Label Kit	Yes
Conn. Type	MPT			Drain Headers	No
Conn. Size	3.000			Tube Ferrules	No
Weight (LBS)	504.0				

Vent/Drain Location



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.00	2.00	7.00	7.00	41.00	110.1	8.00	105.0	5.62	2.50	1.50	1.00	1.50	10.00	

NOTES:
 Rotate vent 180-degrees
 3 ea. - Right Hand / 3 ea. - Left Hand

For 5-working day Premium ship-time, add 30% (\$2,138.00 ea.) to above price: \$9,265.00 net each coil \$55,590 total net.

GENERAL NOTES:

- All dimensions are in (in)
- Manually verifying dimensions is highly recommended.
- .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.

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To: Jesse Gonzales (University of Houston)
Project: University of Houston Engr. (Replacement Temtrol Coils)
Date: February 7, 2011

We are pleased to offer a quotation for the following equipment:

Replacement CW Coil (72291):

- Quantity of One (2).
- 5/8" O.D. Copper Tube and Aluminum Fin CW Coil.
- 8 Row.
- 3" Red Brass Connections.
- #304 S.S. Coil Casing.

Replacement CW Coil (72292):

- Quantity of One (2).
- 5/8" O.D. Copper Tube and Aluminum Fin CW Coil.
- 8 Row.
- 3" Red Brass Connections.
- #304 S.S. Coil Casing.

This quotation is for direct replacement of the existing CW coils that are currently in the AHU.

TOTAL NET PRICING (FREIGHT INCLUDED):

\$ 25,550.00

Lead Time: 7-8 weeks

Expedited Delivery: 20% (10 working days) or 40% (5 working days)

Price Excludes: Valves, Piping, and Controls unless otherwise noted.

***Freight INCLUDED.**

***No returns/exchanges on replacement coils.**

***Quotation is valid for 60 days. *No Taxes are Included.**

***If sales tax not applicable, please forward a tax/resale certificate.**

Sincerely,
Larry Jackson
Vicon Equipment, Inc.

VICON EQUIPMENT, INC * 3945 BRAXTON * HOUSTON, TEXAS 77063

PHONE: 713-784-4647 * FAX: 713-784-1290

Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-5788	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-681-6550
Fax:	713-743-5801	Return Fax:	713-681-6552
Job:	Engineering-D Bldg.	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED

via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
OAHU-R1	2	5WD0908A	39.00	130.00	858	\$11,349	\$22,698
Tubing (In): 0.625 x 0.025 Copper			Two Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Right Hand				
Casing: 304L S/S-Flanged			Label Kit Provided				
(1) Conn: 3.000-MPT-Carbon Steel			Mounting Holes Provided				
For 5-working day Premium ship-time, add 30% (\$3,405.00 ea.) to above price: \$14,754.00 net each coil. \$29,508.00 total net.							
OAHU-R2	2	5WM0908A	38.00	106.00	656	\$8,910	\$17,820
Tubing (In): 0.625 x 0.025 Copper			Two Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Left Hand				
Casing: 304L S/S-Flanged			Label Kit Provided				
(1) Conn: 3.000-MPT-Carbon Steel			Mounting Holes Provided				

For 5-working day Premium ship-time, add 30% (\$2,673.00 ea.) to above price: \$11,583.00 net each coil. \$23,168.00 total net.

Grand Total : \$40,516

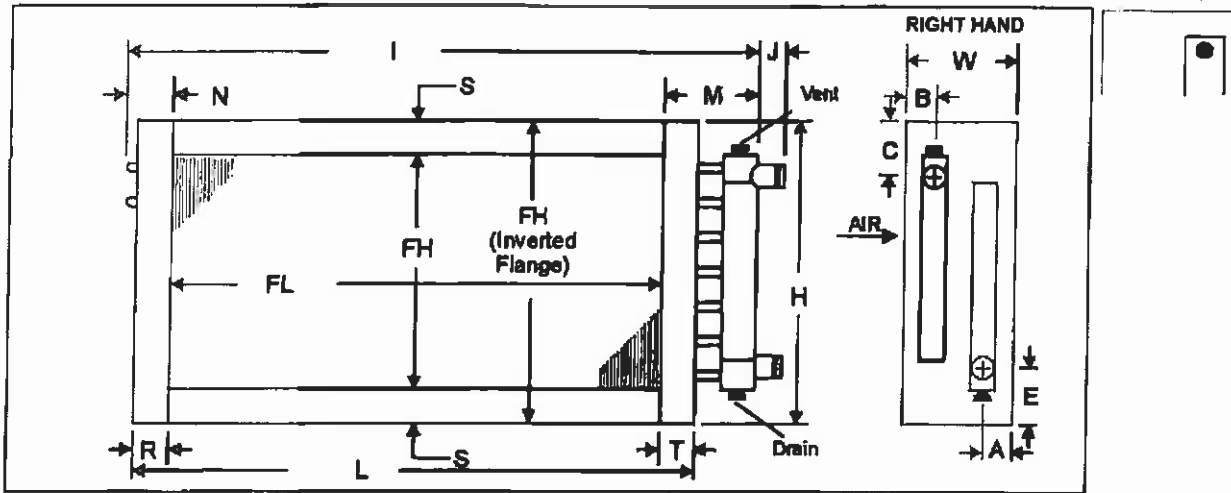
Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: Engineering-D Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
OAHU-R1	2	SWD	08	08	A	38.00	130.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS			
Fins	0.0075 Aluminum	Coating	None	TurboSpirals	No
Tubes	0.025 Copper	Casing Type	Flanged	Moisture Eliminator	No
Casing	304L S/S	Vent & Drain	.50 FPT on Face	Mounting Holes	Yes
Conn. Material	Carbon Steel			Label Kit	Yes
Conn. Type	MPT			Drain Headers	No
Conn. Size	3.000			Tube Ferrules	No
Weight (LBS)	856.0				

Vent/Drain Location



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.35	2.35	2.57	2.57	41.00	138.1	6.00	133.0	5.82	2.50	1.50	1.00	1.50	12.50	

NOTES:

For 5-working day Premium ship-time, add 30% (\$3,405.00 ea.) to above price: \$14,754.00 net each coil. \$29,508.00 total net.

GENERAL NOTES:

1. All dimensions are in (In)
2. Manually verifying dimensions is highly recommended.
3. .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
4. Two intermediate tube supports fabricated from heavy gauge stock of the same material as the fins will be provided.
5. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.

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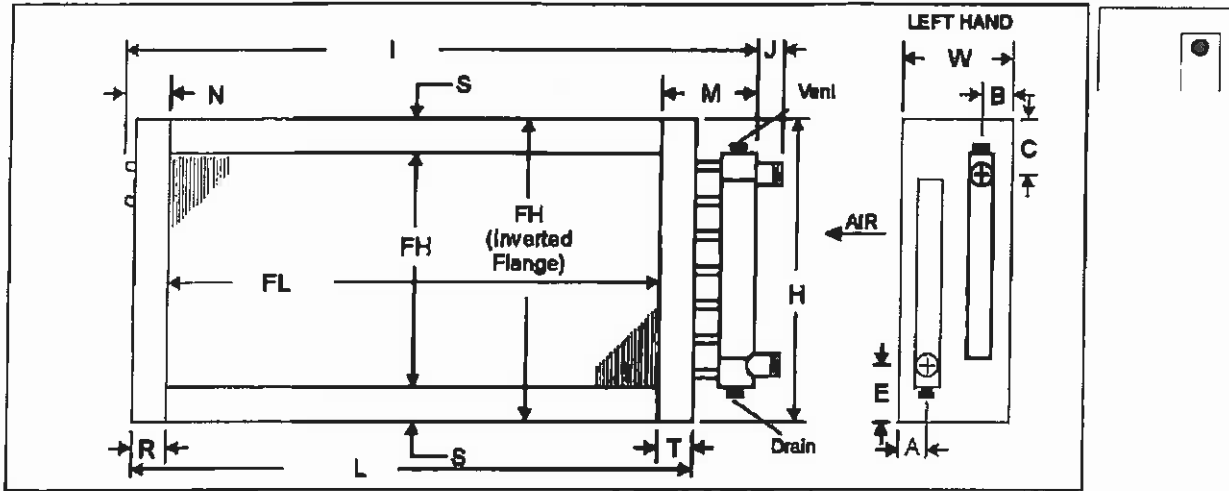
Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5708
 Cell:
 Fax: 713-743-5801
 Job: Engineering-D Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
QAHU-R2	2	5WM	09	08	A	38.00	108.00	Left

MATERIALS OF CONSTRUCTION		OPTIONS				
Fins	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.025 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	304L S/S	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Carbon Steel				Label Kit	Yes
Conn. Type	MPT				Drain Headers	No
Conn. Size	3.000				Tube Ferrules	No
Weight (LBS)	856.0					

Vent/Drain Location



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.35	2.35	2.57	2.57	38.00	114.1	6.00	108.0	5.82	2.50	1.50	1.00	1.50	12.50	

NOTES:

For 5-working day Premium ship-time, add 30% (\$2,073.00 ea.) to above price: \$11,583.00 net each coil. \$23,166.00 total net.

GENERAL NOTES:

1. All dimensions are in (in)
2. Manually verifying dimensions is highly recommended.
3. .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
4. Two intermediate tube supports fabricated from heavy gauge stock of the same material as the fins will be provided.
5. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.

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LUVATA

HEATCRAFT PRICE QUOTATION

7/01/11 1:52:2011
HVACR_01/02/2011

Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-5788	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-681-6560
Fax:	713-743-5801	Return Fax:	713-681-6562
Job:	Fine Arts Bldg.	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED
via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
AHU-1	1	4WS0608C	25.00	38.00	150	\$2,097	\$2,097
Tubing (In): 0.5 x 0.016 Copper			Right Hand				
Fin Material (In): 0.0075 Aluminum			Label Kit Provided				
Casing: Galvanized Steel-Flanged			Mounting Holes Provided				
(1) Conn: 2.125-Sweat-Copper							

For 5-working day Premium ship-time, add 30% (\$629.00 ea.) to above price: \$2,726.00 total net

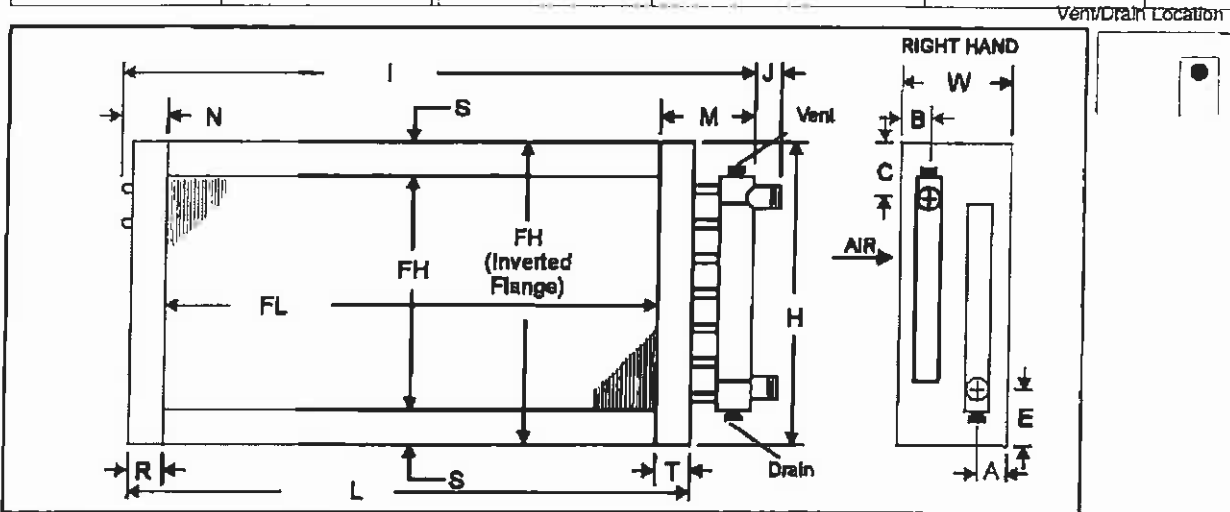
Grand Total : \$2,097

Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: Fine Arts Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecl@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
AHU-1	1	4WS	08	06	C	25.00	38.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS			
Fins	0.0075 Aluminum	Coating	None	TurboSpirals	No
Tubes	0.016 Copper	Casing Type	Flanged	Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face	Mounting Holes	Yes
Conn. Material	Copper			Label Kit	Yes
Conn. Type	Sweat			Drain Headers	No
Conn. Size	2 1/2			Tube Ferrules	No
Weight (LBS)	150.0				



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.00	2.00	2.25	2.25	27.00	44.75	6.00	40.00	4.75	2.00	1.00	1.00	1.00	9.00	

NOTES:

For 5-working day Premium ship-time, add 30% (\$628.00 ea.) to above price: \$2,728.00 total net

GENERAL NOTES:

- All dimensions are in (in)
- Manually verifying dimensions is highly recommended.
- .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
- The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
- Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
- Connection location other than standard could affect vent and drain locations. Consult factory.

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Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-5788	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-681-6550
Fax:	713-743-5801	Return Fax:	713-681-6552
Job:	Science & Research II Bldg.	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED

via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
AHU B-2	1	5WS1408B	38.00	38.00	236	\$2,873	\$2,873
Tubing (In): 0.625 x 0.020 Copper			Right Hand				
Fin Material (In): 0.0075 Aluminum			Label Kit Provided				
Casing: Galvanized Steel-Flanged			Mounting Holes Provided				
(1) Conn: 2.125-Sweat-Copper							

For 5-working day Premium ship-time, add 30% (\$862.00 ea.) to above price: \$3,735.00 total net

Grand Total : \$2,873

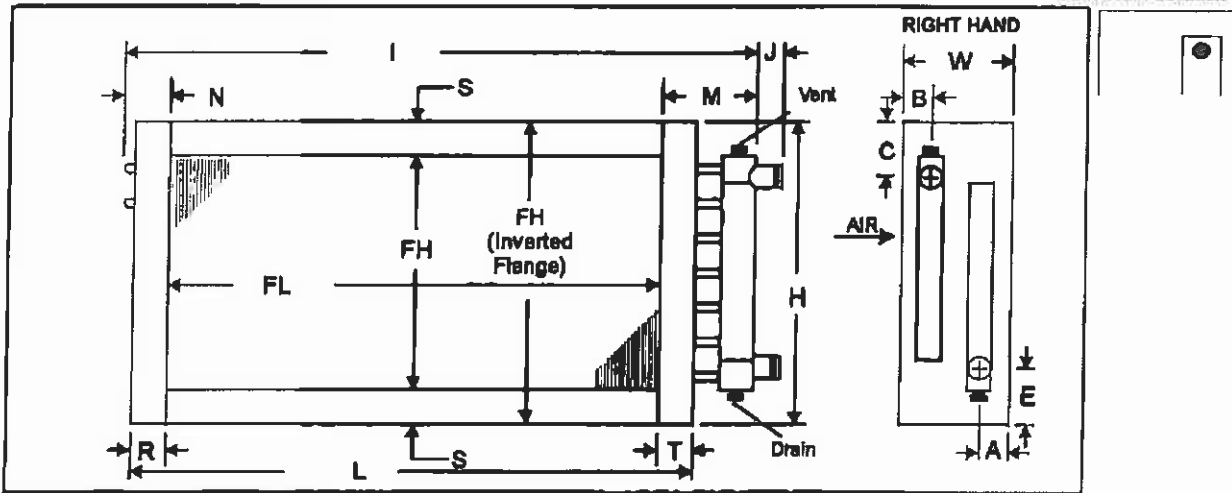
Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5788
 Cell:
 Fax: 713-743-5801
 Job: Science & Research II Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-8550
 Return Fax: 713-681-8552
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
AHU B-2	1	SWS	14	08	B	30.00	36.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS				
Flns	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.020 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Copper				Label Kit	Yes
Conn. Type	Sweat				Drain Headers	No
Conn. Size	2.125				Tube Ferrules	No
Weight (LBS)	236.0					

Vent/Drain Location



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.25	2.25	2.25	2.25	32.00	42.75	6.00	36.00	4.75	2.00	1.00	1.00	1.00	12.00	

NOTES:

For 5-working day Premium ship-time, add 30% (\$682.00 ea.) to above price: \$3,735.00 total net

GENERAL NOTES:

- All dimensions are in (in)
- Manually verifying dimensions is highly recommended.
- .36 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
- The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
- Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
- Connection location other than standard could affect vent and drain locations. Consult factory.

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Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-6798	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-681-6550
Fax:	713-743-5801	Return Fax:	713-681-6552
Job:	HSCA Bldg; Freeze damaged coils	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED
via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
AHU-4S1; CC-1	1	4WD1408B	30.00	102.00	523	\$5,571	\$5,571
Tubing (In): 0.5 x 0.016 Copper			Two Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Left Hand				
Casing: Galvanized Steel-Flanged			Label Kit Provided				
(1) Conn: 3.000-MPT-Carbon Steel			Mounting Holes Provided				
Same as previous GO# 1303927-010							
For 5-working day Premium ship-time, add 30% (\$1,671.00 ea.) to above price: \$7,242.00 total net							
AHU-4S1; CC-2	1	4WD1408B	25.00	102.00	448	\$4,733	\$4,733
Tubing (In): 0.5 x 0.016 Copper			Two Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Left Hand				
Casing: Galvanized Steel-Flanged			Label Kit Provided				
(1) Conn: 3.000-MPT-Carbon Steel			Mounting Holes Provided				
Same as previous GO# 1303927-020							
For 5-working day Premium ship-time, add 30% (\$1,420.00 ea.) to above price: \$6,153.00 total net							
AHU-3S2	1	4WS1408B	15.00	33.00	109	\$1,436	\$1,436
Tubing (In): 0.5 x 0.016 Copper			Left Hand				
Fin Material (In): 0.0075 Aluminum			Label Kit Provided				
Casing: Galvanized Steel-Flanged			Mounting Holes Provided				
(1) Conn: 2.125-Sweat-Copper							

For 5-working day Premium ship-time, add 30% (\$431.00 ea.) to above price: \$1,867.00 total net

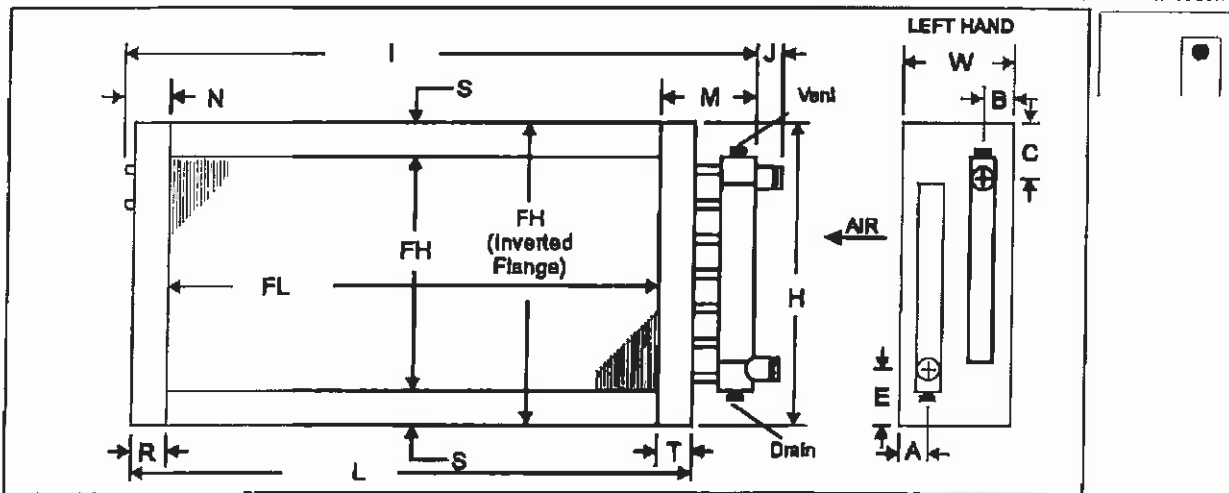
Grand Total : \$11,740

Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: HSCA Bldg; Freeze damaged coils
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecil@griffinequipment.com

ITEM	QTY	TYPE	MODEL NUMBER				FL (IN)	HAND
			FPI	ROWS	FIN	FH (IN)		
AHU-451; CC-1	1	4WD	14	08	B	30.00	102.00	Left

MATERIALS OF CONSTRUCTION		OPTIONS				
Fins	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.016 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Carbon Steel				Label Kit	Yes
Conn. Type	MPT				Drain Headers	No
Conn. Size	3.000				Tube Ferrules	No
Weight (LBS)	523.0					



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
3.00	3.00	3.00	3.00	32.00	111.0	4.00	104.0	8.50	2.50	1.00	1.00	1.00	11.00	

NOTES:

Same as previous GO# 1303927-010
 For 5-working day Premium ship-time, add 30% (\$1,671.00 ea.) to above price: \$7,242.00 total net

GENERAL NOTES:

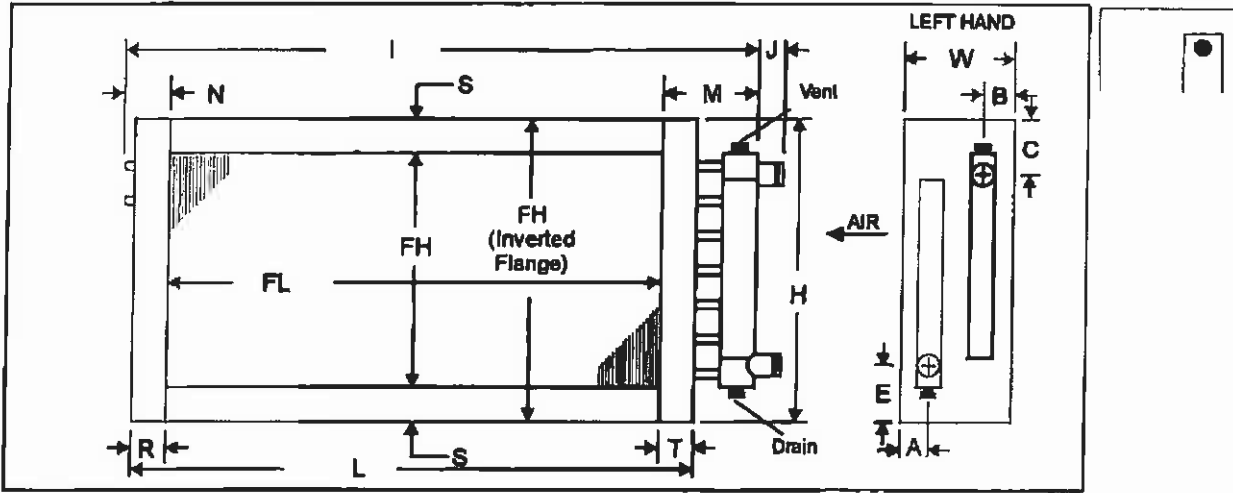
- All dimensions are in (in)
- Manually verifying dimensions is highly recommended.
- .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
- Two intermediate tube supports fabricated from heavy gauge stock of the same material as the fins will be provided.
- The supply line should be connected to the lower connection on the leaving air side for counterflow operation.

Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: HSCA Bldg; Freeze damaged coils
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-8550
 Return Fax: 713-681-8552
 Email: cecill@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
AHU-4S1; CC-2	1	4WD	14	08	B	25.00	102.00	Left

MATERIALS OF CONSTRUCTION		OPTIONS				
Fin	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tube	0.016 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.60 FPT on Face		Mounting Holes	Yes
Conn. Material	Carbon Steel				Label Kit	Yes
Conn. Type	MPT				Drain Headers	No
Conn. Size	3.000				Tube Ferrules	No
Weight (LBS)	448.0					



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
3.00	3.00	3.00	3.00	27.00	111.0	4.00	104.0	8.50	2.50	1.00	1.00	1.00	11.00	

NOTES:
 Same as previous GO# 1303927-020
 For 5-working day Premium ship-time, add 30% (\$1,420.00 ea.) to above price: \$6,153.00 total net

- GENERAL NOTES:**
1. All dimensions are in (in)
 2. Manually verifying dimensions is highly recommended.
 3. .38 in mounting holes will be provided on 8.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
 4. Two intermediate tube supports fabricated from heavy gauge stock of the same material as the fins will be provided.
 5. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.

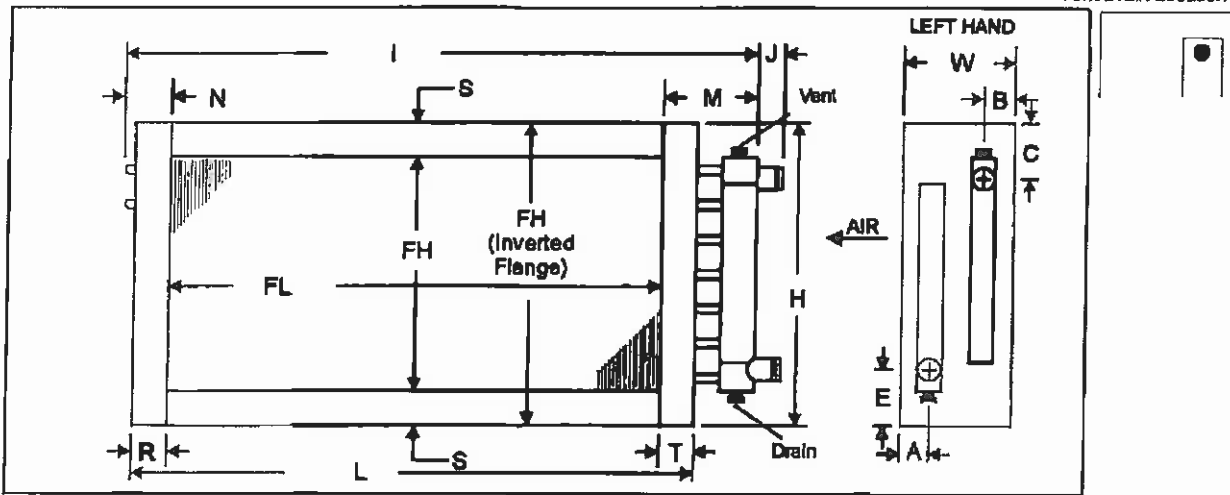
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Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5788
 Cell:
 Fax: 713-743-5801
 Job: HSCA Bldg; Freeze damaged coils
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
AHU-3S2	1	4WS	14	08	B	15.00	33.00	Left

MATERIALS OF CONSTRUCTION		OPTIONS				
Fins	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.016 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Copper				Label Kit	Yes
Conn. Type	Sweat				Drain Headers	No
Conn. Size	2.125				Tube Ferrules	No
Weight (LBS)	109.0					



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
2.50	2.60	2.01	2.01	17.00	39.50	8.00	35.00	4.50	2.00	1.00	1.00	1.00	8.75	

NOTES:

For 5-working day Premium ship-time, add 30% (\$431.00 ea.) to above price: \$1,887.00 total net

GENERAL NOTES:

1. All dimensions are in (in)
2. Manually verifying dimensions is highly recommended.
3. .38 in mounting holes will be provided on 6.00 in centers from the centerlines of the fin height and finned length. Not available when S < .75 in.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.

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Customer:	University of Houston - Physical Plant	Date:	2/8/2011
Contact:	Jesse Gonzalez	From:	Cecil Griffin
Telephone:	713-743-5788	Company:	Griffin Equipment Co.
Cell:		Return Tel:	713-881-8550
Fax:	713-743-5801	Return Fax:	713-881-8552
Job:	Fleming Bldg.	Email:	cecil@griffinequipment.com
Quote #:	0		

Thank you for the opportunity to quote on your coil requirements. This quotation is subject to acceptance within 30 days from date of quotation. Prices will remain firm providing coils are released for production for the earliest possible shipment within 60 days from date of order placement.

Terms of Payment: Net 30 Days

Delivery Terms: FOB FACTORY, FREIGHT ALLOWED

via the lowest cost common carrier within the continental U.S.A.. Accessory charges and freight for stock coils are NOT INCLUDED and will be billed separately. PLEASE INCLUDE A COPY OF THIS QUOTATION WITH YOUR PURCHASE ORDER.

Our current lead time, following order release : 11-15 working days

ITEM	QTY	MODEL	FH (IN)	FL (IN)	APPROX COIL WT. (LB)	NET EACH (US DOLLARS)	TOTAL (US DOLLARS)
Lab CC	1	5WS1208B	12.00	53.00	118	\$1,443	\$1,443
Tubing (In): 0.625 x 0.020 Copper			One Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Right Hand				
Casing: Galvanized Steel-Flanged			Label Kit Provided				
(1) Conn: 1.625-Sweat-Copper			Mounting Holes Provided				
For 5-working day Premium ship-time, add 30% (\$433.00 ea.) to above price: \$1,876.00 net							
Lab PH	1	5MH1201B	12.00	53.00	43	\$642	\$642
Tubing (In): 0.625 x 0.020 Copper			One Tube Support Provided				
Fin Material (In): 0.0075 Aluminum			Right Hand				
Casing: Galvanized Steel-Flanged			Label Kit Provided				
(1) Conn: 1.125-Sweat-Copper			Mounting Holes Provided				

For 5-working day Premium ship-time, add 30% (\$193.00 ea.) to above price: \$835.00 net

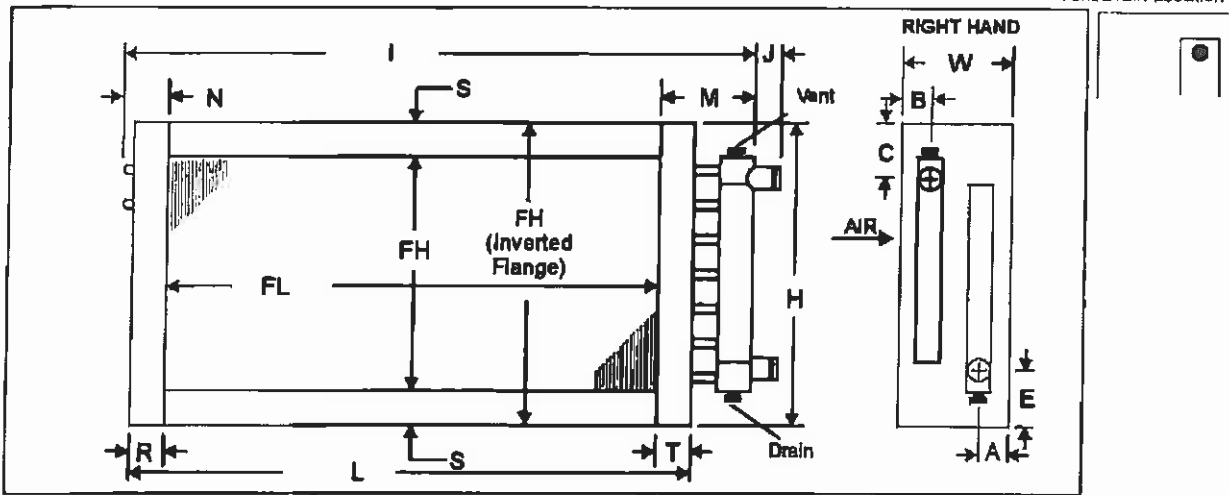
Grand Total : \$2,085

Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: Fleming Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6562
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
Lab CC	1	5WS	12	06	B	12.00	53.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS				
Fins	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.020 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Copper				Label Kit	Yes
Conn. Type	Sweat				Drain Headers	No
Conn. Size	1.625				Tube Ferrules	No
Weight (LBS)	116.0					



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
1.75	1.75	2.25	2.25	15.00	69.00	6.00	66.00	4.00	2.00	1.50	1.50	1.50	10.00	

NOTES:

For 5-working day Premium ship-time, add 30% (\$433.00 ea.) to above price: \$1,876.00 net

GENERAL NOTES:

1. All dimensions are in (in)
2. Manually verifying dimensions is highly recommended.
3. .38 in mounting holes will be provided on 6.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
4. One intermediate tube support fabricated from heavy gauge stock of the same material as the fins will be provided.
5. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.

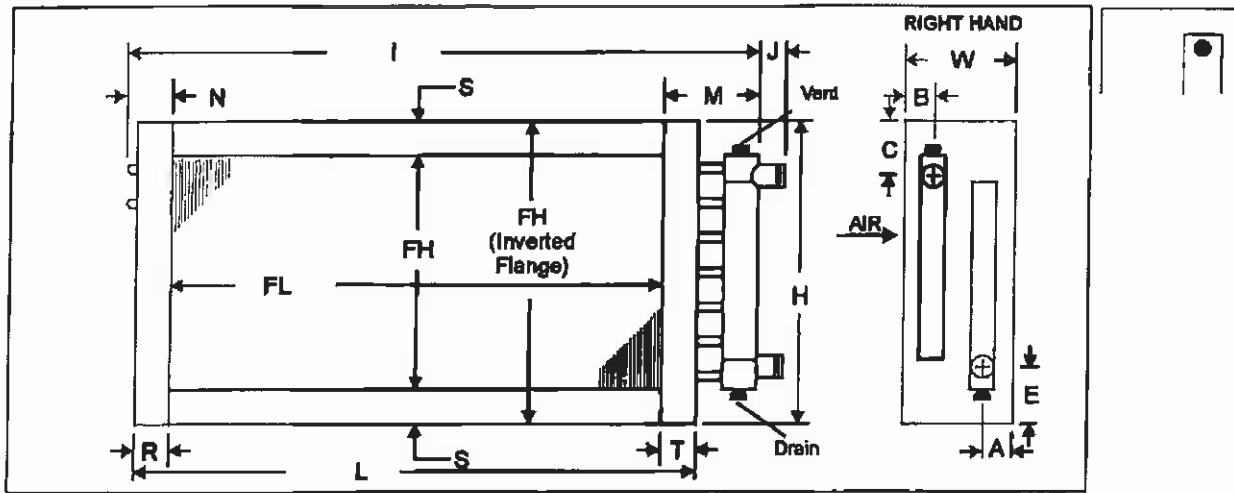
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Customer: University of Houston - Physical Plant
 Contact: Jesse Gonzalez
 Telephone: 713-743-5798
 Cell:
 Fax: 713-743-5801
 Job: Fleming Bldg.
 Quote #: 0

Date: 2/8/2011
 From: Cecil Griffin
 Company: Griffin Equipment Co.
 Return Tel: 713-681-6550
 Return Fax: 713-681-6552
 Email: cecil@griffinequipment.com

ITEM	QTY	MODEL NUMBER						HAND
		TYPE	FPI	ROWS	FIN	FH (IN)	FL (IN)	
Lab PH	1	5MH	12	01	B	12.00	53.00	Right

MATERIALS OF CONSTRUCTION		OPTIONS				
Fins	0.0075 Aluminum	Coating	None		TurboSpirals	No
Tubes	0.020 Copper	Casing Type	Flanged		Moisture Eliminator	No
Casing	Galvanized Steel	Vent & Drain	.50 FPT on Face		Mounting Holes	Yes
Conn. Material	Copper				Label Kit	Yes
Conn. Type	Sweat				Drain Headers	No
Conn. Size	1.125				Tube Ferrules	No
Weight (LBS)	43.0					



DIMENSIONAL DATA(IN)														
A	B	C	E	H	I	J	L	M	N	R	S	T	W	SJC
1.57	1.57	2.38	2.38	15.00	58.75	6.00	58.00	3.75	2.00	1.50	1.50	1.50	5.00	

NOTES:

For 5-working day Premium ship-time, add 30% (\$193.00 ea.) to above price: \$835.00 net

GENERAL NOTES:

1. All dimensions are in (in)
2. Manually verifying dimensions is highly recommended.
3. .38 in mounting holes will be provided on 8.00 in centers from the centerline of the fin height and finned length. Not available when S < .75 in.
4. One intermediate tube support fabricated from heavy gauge stock of the same material as the fins will be provided.
5. The supply line should be connected to the lower connection on the leaving air side for countercow operation.

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Madrigal, Louls

From: Gonzalez, Jesus M
Sent: Wednesday, February 09, 2011 8:41 AM
To: Madrigal, Louls
Cc: Kapileshwari, Sameer; Martin, Donald R; Tajonera, Rey T; Dawson, Robert J
Subject: ENG -D AHU#R-,R-2 FINE ARTS CHILLED WATER COILS

Louls

I have the quotes from Vicon equipment and Griffin equipment.

Vicon The Quote to manufacture 4 coil is \$25,550 DLLS. standard delivery is 7 to 8 weeks. If we want 10 working days delivery it will cost 20% more or 40% for 5 working days.

The Quote from Griffin equipment is \$40,518 DLLS The delivery is 15 working days..

I don't think we need to rush this coils. We will like to get involved in replacing this coils if we get the approval.

Labor and material to remove and replace chilled water coils in ENG-D AHU R-1,R-2.

Chilled water cost \$25,550 DLLS.

Crane service cost \$ 3,000.00 DLLS.

Insulation cost \$1500.00 DLLS

Labor cost \$ 25,000.00 DLLS

ESTIMATE NOT TO EXCEED \$ 55,050.00 DLLS.

The other job we like to do is the coil replacement for Fine Arts OHAU#1 in mechanical room 420-A.

The quote for the coil replacement is \$2097.00 DLLS.

Labor and material to remove and replace the chilled water coil on OAHU#1

Coil cost \$2097.00 DLLS

Insulation Cost \$500.00 DLLS.

Labor cost \$3000.00 DLLS.

ESTIMATE NOT TO EXCEED \$5597.00 DLLS.

I will be forwarding the other quote for the other buildings chilled water coil replacements.

Jesus M Gonzalez
UTILITY ENERGY TECHNICAL SERVICE
MECHAICAL SUPERVISOR

