

Region: 5

Location: DE007

CSS #: 11939

Maximo Work Order No.: 2720

Asset #: 1060

Date Issued: 4/25/19

Original Description: Another bad compressor (C2-Circuit System 1) which tripped the overload protection circuit @34.2 measured amps. The nameplate RLA is 26.9 amps which indicates an excess greater than 25%. The FAULT error on the control panel read "MPHPCO" which according to the Modern technician means "Motor Protection High Pressure Cut Out".

Repairs Needed:

Remove and install new Compressor circuit and compressor contactor. (See additional detail in quote provided)

RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):

Quantity	Line Item Number	Description	Labor Hours	Labor Rate/Hr	Materials	Equipment	Total
1	NA	Compressor/contactor and misc. parts including taxes.(see attached detail)	--	--	\$6,044.18	--	\$6,044.18
		Labor SS Mechanical Two HVAC Technicians	36	\$100.00	--	--	\$3,600.00
--	NA	Labor Coordination and Oversight Tidewater	4	\$80.00	--	--	\$320.00

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Taxes	Total Cost	CE Factor	Total Estimate
40	\$3,920.00	\$5,406.99	\$637.19	\$9,964.18	102%	\$10,163.46



S&S Mechanical

Location: Newark AFRC

1001 Ogletown Road

Newark, DE 19711

Proposal Submitted to: Adam Colopy

Project: DE007 Chiller Compressor

Office # 301-574-1555

Fax # 301-574-1558

seth@sandsmidatlantic.com

sandsmidatlantic.com

S&S hereby proposed to furnish the materials and labor necessary to complete the following:

- S&S will reclaim refrigerant
- S&S will remove and replace (1) OEM compressor circuit
- S&S will remove and replace (1) OEM compressor contractor
- S&S will preform a leak check, evacuate, and recharge with new refrigerant
- S&S will test the unit and confirm it is functioning properly
- After the project is completed, S&S will clean the project area

Materials: \$6,044.18

Compressor/189169/ \$4,006.28

Contactor/189533/ \$274.75

(2) Sporlan Drier/RC4864/ \$61.75

Cylinder/CYL200/ \$240.00

100lbs of R410A/100R410A/\$480.00

(2 Gallons) Polyol Oil/PE681G/ \$247.15

Nitrogen/R31/ \$97.06

Tax: \$637.19

Labor: \$3,600.00

2 HVAC Technician/36Hours/\$100 rate=\$3,600.00

Full estimated total: \$9,644.18

Payments to be made as follows: 15 days upon approved invoice

Respectfully submitted: Brian Davis/Lindsay Ruby

Dated: 04/19/19



JOHNSTONE SUPPLY THE BALSAN GROUP

JOHNSTONE ANNAPOLIS
1981 MORELAND PKWY, SUITE 101
ANNAPOLIS, MD 21401
410-280-0101
Fax 410-280-0104

Acknowledgement

ORDER DATE	ORDER NUMBER
04/18/2019	100-100667034
JOHNSTONE ANNAPOLIS 1981 MORELAND PKWY, SUITE 101 ANNAPOLIS, MD 21401 410-280-0101 Fax 410-280-0104	
PAGE NO. 1 of 1	

SOLD TO:

SHIP TO:

S&S MECHANICAL
4845 SOUTH CRAIN HIGHWAY
UPPER MARLBORO, MD 20772

S&S MECHANICAL
4845 SOUTH CRAIN HIGHWAY
UPPER MARLBORO, MD 20772

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON		
14831					
WRITER		SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
Shawn Eller - 44 Anna		PICK UP	Cash on Delivery	04/18/2019	No
ORDER QTY	DESCRIPTION		UNIT PRICE	EXT PRICE	
1ea	B77-695 01504045104 COMPRESSOR SCROLL EXTENDED TEMP R410A Pn: 189169		3338.565/ea	3338.57	
1ea	L48-362 02437040000 CONTACTOR 50 AMP Pn: 189533		175.047/ea	175.05	
			Subtotal	3513.62	
			S&H Charges	0.00	
			Tax	210.82	
			Amount Due	3724.44	

Order #	67610285-00
Terms	1% 10th prox, Net 30 prox
Customer P/O	

Bill To: 1098152
 S&S MECHANICAL BR.19
 4845 South Crain Highway
 Upper Marlboro, MD 20772

Ship To
 S&S MECHANICAL BR.19
 4845 South Crain Highway
 Upper Marlboro, MD 20772

Branch:
 United Refrigeration Inc.
 8710 - 8712 Edgeworth Dr.
 Capitol Heights, MD 20743
 (301)324-8404 FAX#: (301)324-8405
 branch19@uri.com



Cust#: 1098152	Order Date: 04/18/19	Whse: 019	Taken By: JJ4	Sales out: 190
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Special Instructions:

Ref:

Product Ln# And Description	Quantity Ordered	Quantity B.O.	Quantity Shipped	Qty. UM	Unit Price	Amount (Net)
EPA Certificate #: 10981527825						
1 100R410A	1			ea	400.00	400.00
R-410A REFRIGERANT 100LB CYLINDER *****HAZARDOUS MATERIAL*****						
2 CYL200	1			ea	200.00	200.00
CYLINDER DEPOSIT \$200.00						
3 RC4864	2			ea	25.73	51.46
SPORLAN ACTIVATED DRIER CORE 404360 Interchange Prod: 404360						
4 PE681G	2			ea	102.98	205.96
NRI POLYOL OIL 1 GAL 68VIS						

4 Lines Total	Total	857.42
	Taxes	39.45
	Invoice Total	896.87
** NOT AN INVOICE OR RECEIPT **		

** This Quote Will Expire On: 04/25/19 **

**ROBERTS OXYGEN COMPANY, INC.**

4811 Stamp Road
Marlow Heights, MD 20748
Phone: (301) 899-6400

**QUOTE
REPRINT**

www.RobertsOxygen.com

Number	111418
Date	04/19/2019
Page	1

Ship To: SAME	S&S MECHANICAL 4845 SOUTH CRANE HIGHWAY UPPER MARLBORO, MD 20772	Bill To: 79424	S&S MECHANICAL 4845 SOUTH CRANE HIGHWAY UPPER MARLBORO, MD 20772
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Reference #	Expires	Slsp	Terms	Wh	Freight	Ship Via
	NONE	99	Cash	02	PREPAID	2

Quoted By:	RM5	Quoted To:	LINDSAY / 301-574-1555
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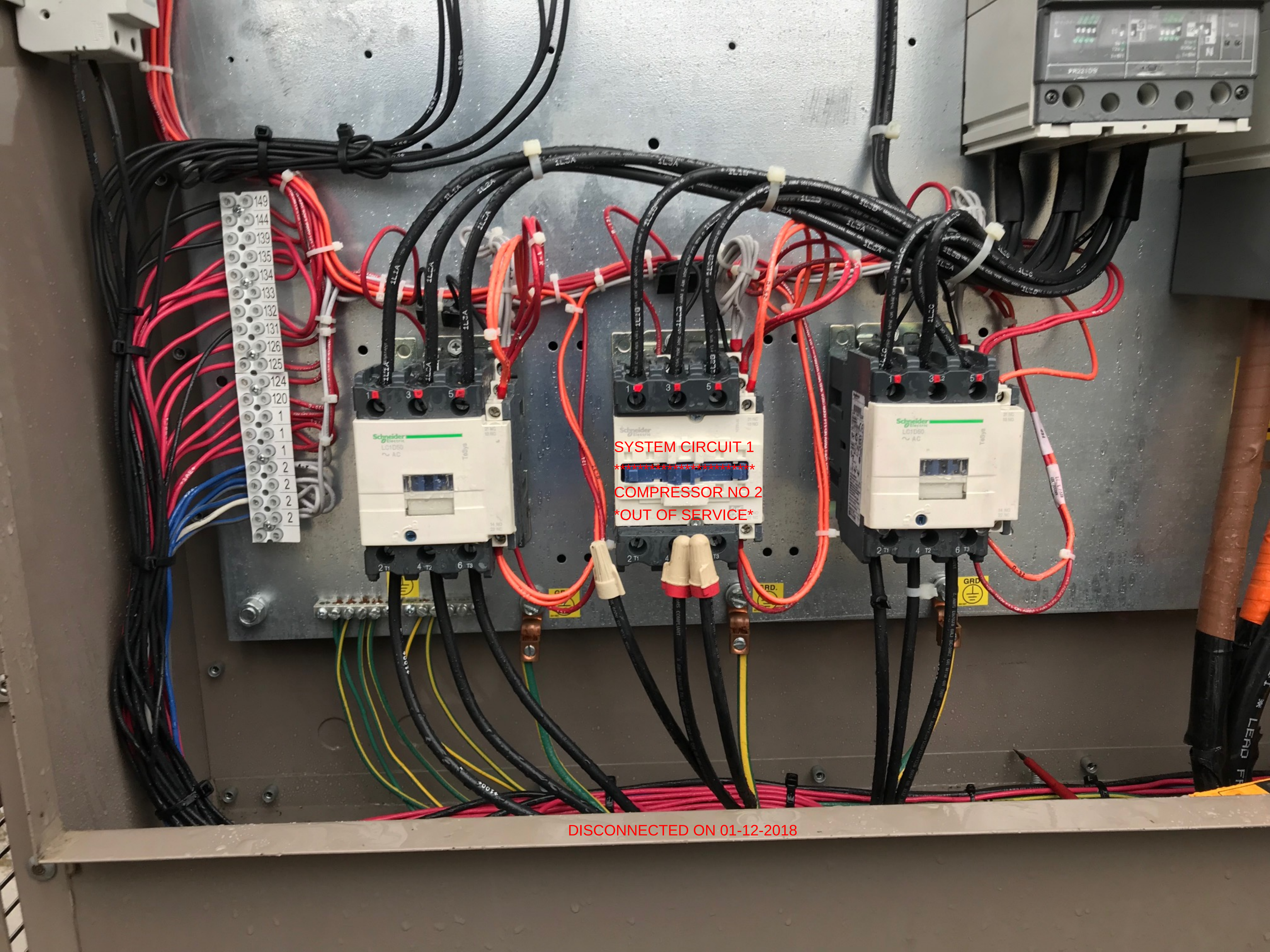
Item	Description	Ordered	UM	Price	UM	Extension
R31	NITROGEN, 255 CU FT GRADE 4.5 HIGH PURITY	1	EA	48.000	EA	48.00
QUOTE						

Merchandise	Misc	Tax	Freight	Total
48.00	.00	2.88	30.00	80.88

THANK YOU !

Customer Copy

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SYSTEM CIRCUIT 1

COMPRESSOR NO 2

OUT OF SERVICE

DISCONNECTED ON 01-12-2018

SYSTEM CIRCUIT 1

COMPRESSOR NO 1
REPLACED
10-31-2017

SYSTEM CIRCUIT 1

COMPRESSOR NO 2
MPHPCO - FAULT
Motor Protection/
Hi-pressure Cut Out

SYSTEM CIRCUIT 1

COMPRESSOR NO 3
REPLACED
01-08-2018





SYSTEM 2 CIRCUIT
COMPRESSOR NO 1
ORIGINAL UNIT

SYSTEM 2 CIRCUIT
COMPRESSOR NO 2
REPLACED 11-01-2017