

FB
425-04

INVOICE

PLEASE REMIT TO

RASMUSSEN MECHANICAL SERVICES
3211 NEBRASKA AVE.
COUNCIL BLUFFS, IA 51501
Phone: (712) 323-0541



INVOICE NUMBER SRV096233
INVOICE DATE 10/11/2022
PO NUMBER
TOTAL DUE \$9,027.97

BILL TO

CITY OF DEADWOOD
67 DUNLOP AVENUE
DEADWOOD, SD 57732

LOCATION

CITY HALL/PLANNING/ZONING
108 SHERMAN STREET
DEADWOOD, SD 57732

Service Call 220812-0016

Emergency Svcs

Customer Number	Called In By	Payment Terms
0002547	TROY (605) 580-3322 Ext: 0000	Net 30

Description 8/15/22 SRAC-1 & ACCU-1: AC NOT WORKING IN BASEMENT. CRAC-1 WAS THE UNIT THAT WAS DOWN. LOOKED UP CODES FOR THE PREVIOUS WEEKS AND FOUND THEY HAD A LOW COMPRESSOR PRESSURE AND BLOCKED FILTER CODE. FILTERS WERE DIRTY BUT NOT BAD ENOUGH TO CAUSE AIR FLOW RESTRICTION. EVAP COIL WAS PARTIALLY FROZE UP AND WAS NOT ALLOWING MUCH AIR FLOW. MAIN CONTROL BOARD, THERE WAS A SPOT TO ENTER A PASSWORD TO ADJUST ALL THE SET POINTS AND MAKE ADJUSTMENTS. CALLED TEM TECH, THEY DO NOT HAVE CONTROL OVER THIS SYSTEM. WANTED TO TURN THE HEAT ON TO MELT THE COIL, BUT CAN'T WITHOUT CONTROL OF OPERATIONS. USED FAN TO THAW COIL. WENT TO ROOF TO SEE IF CONDENSING UNIT HAD ANY ISSUES. FOUND THAT INTAKE SIDE, BOTTOM OF COIL WAS ALMOST COMPLETELY PLUGGED WITH DIRT AND DEBRIS. CLEANED CONDENSING COIL ON BOTH UNITS.

8/18/22: CRAC-2 NOT OPERATING CORRECTLY. COOLING CYCLE WOULD NOT KICK IN. LOOSE CONNECTION AT THE TEMP SENSOR AND RECONNECTED. SYSTEM HAD A COUPLE OF HIGH COMPRESSOR PRESSURE ALARMS. ONCE ALARMS AND SAFETY SWITCHES RESET THE SYSTEM BEGAN OPERATING CORRECTLY. SUCTION LINE AND VSAT TEMP WERE LOW, CHECK CHARGE. CRAC-1 HAD FAULT CODES, ICE ON EVAP COIL AGAIN. THAWED, CHECKED FOR PROPER CHARGE OF THE SYSTEM. CRAC-1 CRAC-2 NEED PROPER CHARGE IN SYSTEMS

8/19/22: CHECKING ONGOING ISSUE WITH CRAC UNITS W1 & 2. FOUND THAT CRAC-1 WAS OVER CHARGED AND CRAC-2 WAS UNDER CHARGED. MOVED 12LBS OF R-407C FROM CRAC-1 TO CRAC-2. CRAC-2 IS STILL UNDER CHARGED AND IS CURRENTLY SHUT OFF UNTIL MORE 407C CAN BE PURCHASED. REPLACED THE BLOWER BELT IN CRAC-1 TO GAIN THE PROPER AMOUNT OF AIR FLOW. MADE ADJUSTMENTS TO THE DUCT WORK DAMPERS AND THE CRAC-1 TXV.

8/23/22: FOUND CRAC-1 FROZEN UP. FOUND THAT THE HEAD MASTER CONTROLS ON BOTH CRAC UNIT CONDENSERS ARE NOT MAINTAINING HEAD PRESSURE, WILL NEED TO BE REPLACED.

9/12/22: SOURCED PARTS FOR UNCOMING REPAIRS

9/19/22 & 9/20/22: REPLACED THE HEAD MASTER CONTROL ON CRAC-1 AND CRAC-2. RECLAIMED REFRIGERANT, EVALUATED, RECHARGED AND CHECKED OPERATION

Detail of Charges

Charges	Description	Quantity	Total
MATERIAL	BELT, 39	1.00	\$24.07
	REFRIGERANT, R407C	25.00	\$941.34
	VALVE, PRESSURE	2.00	\$1,080.44
	COUPLING, 5/8 C X C W/STOP	2.00	\$2.40
	COUPLING, 7/8 C X C W/STOP	4.00	\$9.39
FREIGHT	INBOUND FREIGHT		\$23.00

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8/18/22: CRAC-2 NOT OPERATING CORRECTLY. COOLING CYCLE WOULD NOT KICK IN. LOOSE CONNECTION AT THE TEMP SENSOR AND RECONNECTED. SYSTEM HAD A COUPLE OF HIGH COMPRESSOR PRESSURE ALARMS. ONCE ALARMS AND SAFETY SWITCHES RESET THE SYSTEM BEGAN OPERATING CORRECTLY. SUCTION LINE AND VSAT TEMP WERE LOW, CHECK CHARGE. CRAC-1 HAD FAULT CODES, ICE ON EVAP COIL AGAIN. THAWED, CHECKED FOR PROPER CHARGE OF THE SYSTEM. CRAC-1 CRAC-2 NEED PROPER CHARGE IN SYSTEMS

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8/23/22: FOUND CRAC-1 FROZEN UP. FOUND THAT THE HEAD MASTER CONTROLS ON BOTH CRAC UNIT CONDENSERS ARE NOT MAINTAINING HEAD PRESSURE, WILL NEED TO BE REPLACED.

9/12/22: SOURCED PARTS FOR UNCOMING REPAIRS

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Detail of Charges

Charges	Description	Quantity	Total
OTHER (CONSUMABLES)			
	CONSUMABLES		\$311.51
TRAVEL			
	TRIP CHARGE		\$150.00
OTHER (MACHINE CHARGES)			
	MACHINE CHARGES		\$75.00

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Detail of Charges

Charges	Description	Quantity	Total
OTHER (CONTRACTORS EXCISE TAX)			
	CONTRACTORS EXCISE TAX		\$180.57
LABOR			\$6,230.25
Subtotal			\$9,027.97
Total Tax			\$0.00
Amount Paid			\$0.00
Total			\$9,027.97