



## Agenda Commentary

**Item Title/ Subject:** Phase 1 of Fire Department A/C project

**Staff Source:** Brett Russell

**History/Background Information:** Currently we have an LG VRF system within the fire department. We have had tremendous amounts of expense over the last 2 years with this system. We spent over 2 weeks without any air conditioning over this summer and ended up installing conventional window units in the fireman's bedrooms so they could at least have a cool spot to go to at night. Through the course of the summer after the budget was approved. I was determined to find an alternative, and to be able to utilize local contractors to service whatever we do. I had 5 local companies come in and look through everything and they gave me proposals. 3 companies turned a proposal in and 2 choose not to submit anything. Of the 3 companies that submitted proposals I would recommend that we go with Wisdom Refrigeration. They have spent the most time analyzing the current system and they have repaired the current system at a significant cheaper rate than Pro-Tech out of OKC. We had budgeted \$43,000 for this project in capital outlay which was the price that Pro-Tech had submitted. Wisdom came in at a price of \$21,227.38 this will replace the bedroom units with a Mitsubishi mini split system. As we move forward my goal is to get the costly LG system replaced with the Mitsubishi system which will provide us with better warranty as well as having local contractors to service the system. Below are the prices that local contractors bid for the bedroom project.

1. Wisdom Refrigeration:	\$21,227.38
2. Hinz Refrigeration	\$25,144.00
3. AT's Heat and Air	\$18,000.00
4. Artic Air	Did not submit
5. Four Season	Did not submit
6. Pro Tech Mechanical (OKC)	\$43,000.00

I have also attached the quotes from the top 3 local contractors, as well as repair costs on the current LG system over the past 2 years.



MUZ-FS09      • Triple-action filtration: nano platinum filter, electrostatic anti-allergenenzyme filter and deodorizing filter • Double-vane air delivery for enhanced circulation • Includes NEW BACKLIT multi-function wireless controller • Cooling operation down to 14° • Heating operation down to -13° 100% capacity NOW at -5° !! • Integrated 3D i-see Sensor™ • Compatible with kumo cloud control app

4.00    \$2,135.00    \$8,540.00

Mitsubishi MUZ-FS09 Heat-Pump

SLZ-KF09      **9K BTU 4-WAY CEILING CASSETTE**      4.00    \$2,032.55    \$8,130.20

The SLZ Four-way Ceiling Cassette features customizable airflow and an optional 3D i-see Sensor®. These recessed ceiling cassettes mount flush with the ceiling and fit into a 2' x 2' suspended ceiling grid. The optional 3D i-see Sensor scans the room, measuring temperature and determining occupant location. Indirect or Direct airflow settings direct supply air away from or toward room occupants. Each of the four vanes is fully customizable to provide 72 unique airflow patterns to suit the room's comfort requirements perfectly.

Mitsubishi SLZ-KF09NA.TH

61020300B8M144 3/8"x5/8"x30' Streamline® Double Insulated Mini-Split Line Sets with 14/4 Control Wire.      4.00    \$767.34    \$3,069.36

Mitsubishi 61020300B8M144

**SUB-TOTAL**      \$21,227.28

**TAX**      \$0.00

**TOTAL**      \$21,227.28

**EST. FINANCING**      \$352.37

Thank you for choosing Wisdom Refrigeration \*\*\*TAX PAID AT PURCHASE\*\*\*

**CUSTOMER AUTHORIZATION**

I agree and authorize the work as summarized on these estimated terms, and I agree to pay the full amount for all work performed. If upon further inspection additional parts and/or repairs are needed, I will be contacted for authorization.

Sign here

Date

HINZ REFRIGERATION INC.  
 1016 S 10TH ST  
 CLINTON, OK 73601  
 (580)-323-0830  
 info@hinzrefrigerationllc.com  
 HINZREFRIGERATION.COM



## Estimate

**ADDRESS**  
 Clinton Fire Department

**ESTIMATE #** 1203  
**DATE** 08/11/2022

**SALES REP**  
 LW

DESCRIPTION	DESCRIPTION	QTY	AMOUNT
	<p>Sleeping quarters: we would remove 4 cassette head units from sleeping quarters once those (4) heads have been removed from the existing system. We would pull the heads down along with linesets if they are still attached, we would disconnect fresh air duct from unit and disconnect drain. We would determine location of the outdoor condensers and then set (4) Mitsubishi 1 1/2 ton hyper heat condensers on composite pump up legs for drainage purposes, we would then secure units in place. We would determine where linesets will terminate building and then core drill a hole through wall and sleeve it to run linesets through. We would run copper linesets from where head will be located, out through penetration and down wall to fenced area where condensers are located we would install linehide protective covering over linesets to protect linesets and give it a cleaner appearance. We would then install (4) Mitsubishi hyper heat heat pump 1 1/2 ton heads in sleeping rooms, we would secure them in place with hanging materials. We would hook up fresh air that ties back into fresh air system, we would hook drain back up to existing drain. We would then hook up copper linesets to head and torque to speck, we would then extend linesets outside and weld in. We would then hook them up to condensers and torque them to speck. ( electrical will need to be provided by an electrician, we will need individual 208/230v service disconnects within reach of condensers and then whipped out to condensers.) We would then run control voltage from head to condensers and wire in, we would then install surge protectors on all mini splits to protect boards. We would seal up penetration and then install line hide cap. We would start units up once electrical is completed and check operation and add refrigerant as needed per length of lineset, we would make sure units are operation properly upon completion.</p>	1	25,144.00

Total install price: \$ 25,144.00

Warranty: units will have 5 years functional parts and 7 years compressor.

Warranty labor: 1 year Hinz Refrigeration Guarantee

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SUBTOTAL	25,144.00
TAX	0.00
<b>TOTAL</b>	<b>\$25,144.00</b>

Accepted By

Accepted Date



A.T.'S HEAT AND AIR, LLC  
 610 JAYCEE INDUSTRIAL BLVD  
 CLINTON, OK 73601 US  
 (580)323-4247  
 atsheatandair@att.net

LIC#51571

**BILL TO**  
 CITY OF CLINTON - FIRE  
 DEPARTMENT  
 212 S 4TH  
 CLINTON, OK 73601

**INVOICE 12739**

DATE 08/05/2022 TERMS Due on receipt

DUE DATE 09/01/2022

DESCRIPTION	QTY	RATE	AMOUNT
ESTIMATE TO REMOVE AND REPLACE MINI SPLITS FOR BUNK ROOMS. THIS INCLUDES (2) TWIN CONSOLE MINI SPLITS WITH LABOR INCLUDED. DOES NOT INCLUDE HIGH VOLTAGE FOR NEW CONDENSERS.			
ESTIMATE TO REMOVE AND REPLACE MINI SPLITS AND INSTALL (4) INDIVIDUAL UNITS. DOES NOT INCLUDE HIGH VOLTAGE FOR CONDENSERS.			
TOTAL COST FOR EITHER OPTION: \$18,000			

IF YOU WISH TO PAY BY PHONE, PLEASE GIVE US A CALL. 580-323-4247

**TOTAL DUE \$0.00**

PROTECH Expenses

FY 2021-2022

08/18/2021	Preventative Maint.	\$1,464.81
09/09/2021	Repairs LG AC System	\$1,615.90
11/16/2021	Preventative Maint.	\$1,464.81
12/02/2021	Repairs	\$3,796.84
01/27/2022	Bunkroom units maint.	\$668.73
02/15/2022	Preventative Maint.	\$1,464.81
05/19/2022	Preventative Maint.	\$1,464.81
06/21/2022	AC Compressors	\$12,764.31

TOTAL: \$24,705.02

PROTECH Expenses

FY 2020-2021

09/14/2020	Preventative Maint.	\$1,408.46
09/14/2020	Contactora Replacement AC	\$816.33
09/30/2020	Fan motors 4,5,10	\$3,333.53
11/09/2020	Service call AC system	\$637.40
11/17/2020	Preventative maint.	\$1,408.46
12/07/2020	Replaced contactor AC	\$163.10
12/31/2020	MAU motor controller – bay exhaust	\$5,280
01/28/2021	BAS Controls	\$19,947.50
02/15/2021	Preventative maint.	\$1,408.46
02/15/2021	CU 1 Compressor replacement in LG	\$5,726.74
02/23/2021	Labor/materials used on LG rpr during snowstorm 02/10/2021-02/12/2021	
		\$2,409.80

TOTAL: \$42,539.78