

## Summary Results

### MaxR 100 Efficiency Test

York 4 Ton Air Conditioner/Heat Pump  
Community Center Lovettsville, Virginia

MaxR 100 is an inter-metallic compound. Following the installation into the air conditioning system, a period of approximately 10 to 14 days should be allowed for MaxR 100 to fully integrate through the refrigerant system. Therefore, the results summary is broken down into three phases: Pre-Treatment; Integration Period and Post-Treatment, utilizing averages for each phase and data collected during the hours of 10 a.m. to 5 p.m.

	Phase 1 Pre treatment	Phase 2 Integration	Phase 3 Post Treatment	Summary of Efficiency Test
Energy Efficiency Ratio (EER)	6.0	6.5	6.8	<b>13.33% Increase</b>
Coefficient of Performance (COP)	1.7	1.9	2.0	<b>17.65% Increase</b>

	Phase 1	Phase 2	Phase 3	Summary
Maximum BTU/Hour Average	35,489	37,355	41,443	<b>16.78% Increase</b>
Latent BTU/Hour Average	10,217	12,321	14,425	<b>42.16% Increase</b>

	Phase 1	Phase 2	Phase 3	Summary
kW per Ton	3.2	3.3	2.5	<b>21.88% Reduction</b>
kWh per Day	9.0	11.00	4.8	<b>46.67% Reduction</b>

**Return on investment (ROI) will be within 18 months of equipment operation**

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