



Tesla Model Y Thermal Systems / Octovalve Benchmark Report

Purchasers of this report will receive

Thermal System Description

\$15,000

- Coolant diagram/flow diagram for all positions of the Model Y Octovalve
- AC diagram/ flow paths for all control valves
- Electrical diagram including the following components: heat pump (solenoids/sensors/pumps), cabin sensors, component temp sensors (ADAS, Motors, Batteries etc.) CAN bus architecture
- Coolant tube diagram

Thermal System Cost

\$ 3,500

- Cost and description of associated thermal system components. Heat Exchangers, Coolant and AC Tubing, Cold Plates, Heat Pump, AC Compressor etc.

Octovalve CT Scan

\$ 1,500

- CT Scan of Octovalve manifolds

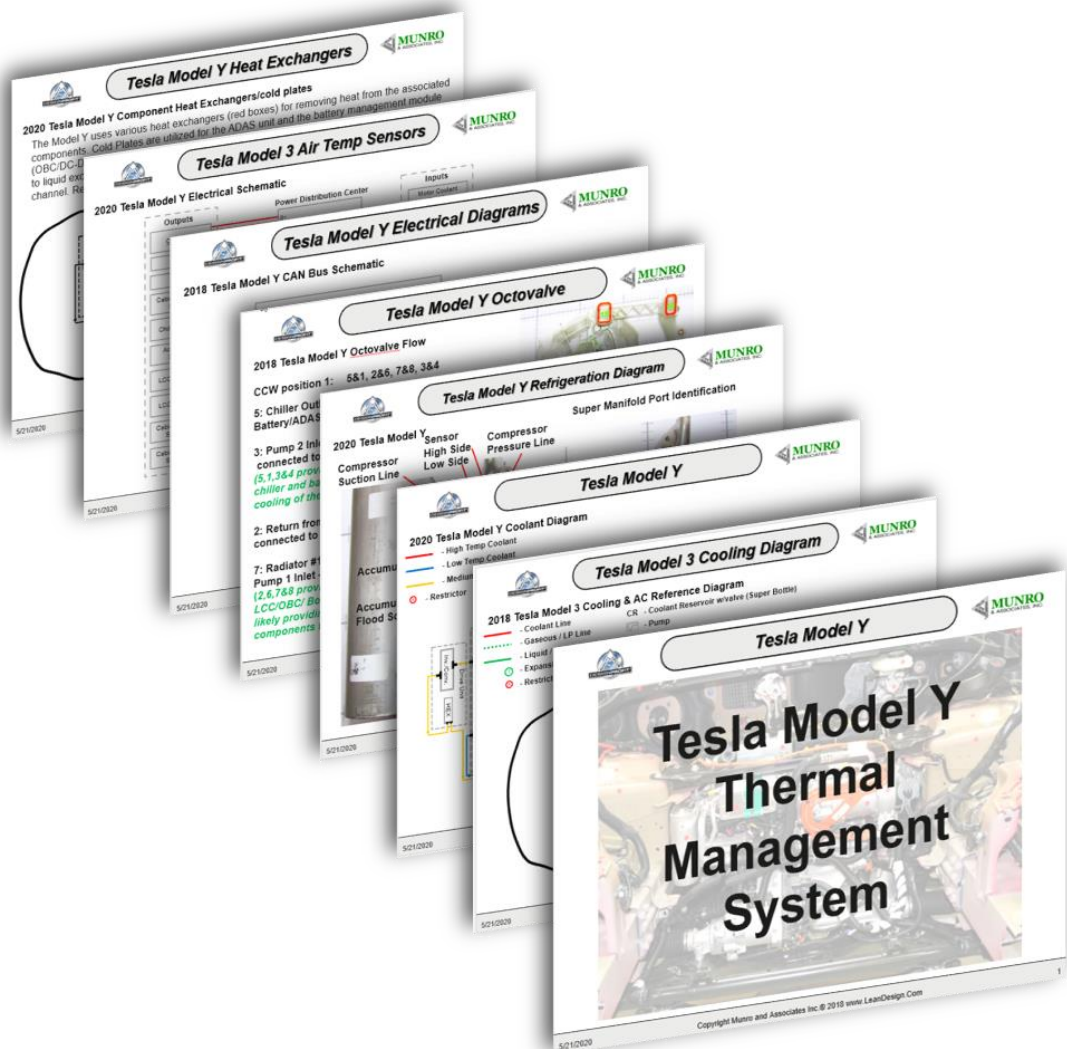
- ❖ All reports and accompanying deliverables will be made available for easy access through a secure File Transfer Protocol (FTP) site.
- ❖ The report(s) will utilize hyperlinks within a table of contents to facilitate the ability to easily navigate throughout the contents and quickly find specific data and information to meet user needs.



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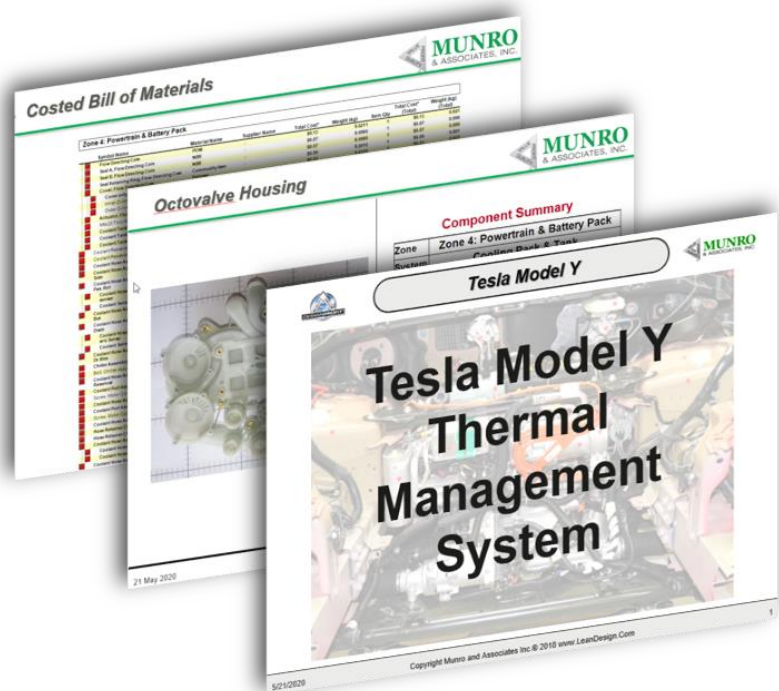




Thermal System Cost

\$ 3,500

- Cost and description of associated thermal system components. Heat Exchangers, Coolant and AC Tubing, Cold Plates, Heat Pump, AC Compressor etc.
- The thermal system is broken down to systems and components for Quick Cost Estimating (QCE). Quick Cost estimates provide the customer with approximate versus detailed costs which are more expensive and time consuming to generate. This level of accuracy provides OEM's and Suppliers the ability to make sound comparisons and directional decisions.
- The bill of material is in an indented format and includes:
 - Part name
 - Material
 - Total Cost
 - Weight
 - Quantity
 - Total Weight





Octovalve CT Scan

\$ 1,500

- CT Scan of Octovalve manifolds.
- A Computerized Tomography (CT) scan combines a series of X-ray images taken from different angles around the manifolds to reveal inner structures. The computer processing will create cross-sectional images (slices) of the manifold and housing.
- Scans will be complemented by a report providing volume, dimensions, thicknesses, etc.





FAQ (Frequently Asked Questions)

- ❖ Was Tesla involved in the study?
No. Neither Tesla proprietary costs nor any Tesla Model Y supplier's quoted costs were used in this study.
- ❖ Is there any Tesla Model Y proprietary (stolen) IP in this report?
No. All data was developed through Munro's proven methodologies, analyzing Munro's purchased production Tesla Model Y vehicles
- ❖ Are the components costed using USMCA costing centers?
Yes, Munro includes labor, factory floor cost, taxes and SG&A for OEM or Tier Suppliers.
- ❖ Is this a Costing or Pricing report?
This is a Costing Report. Pricing has too many variables.

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