Tesla Model Y
Thermal System 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 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.

**On-site Hardware Reviews: One-hour session : $250 for 5 people or less**
Thermal System Description

$15,000

- Coolant diagram/flow diagram for all positions of the Model Y Octovalue
- 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.
- 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. A Quick Cost analysis will deliver estimates with an accuracy of +/- 8%. 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, Tesla proprietary costs nor any Tesla Y suppliers quoted costs were used in this study.*

- Is there any Tesla Y propriety (stolen) IP in this report?
  
  *No. All data was developed through Munro’s proven methodologies from the purchased production Tesla Y*

- Is the components costed using only NAFTA costing centers?
  
  *Yes, Munro includes labor, factory floor cost, taxes and SG&A for OEM or Tier Suppliers.*

Legal Disclaimers & Sales Condition

- How can I see the sample report before purchasing?

  *Please contact your regional Munro salesperson. They can provide sample information in digital PDF format NOTE: critical data will be hidden in the sample.*

- Is this report allowed to Reproduce, Distribute, Disseminate, Photocopy, Fax, Transmit in the same organization when a company purchases the report?

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  *No, it is not included in the price of report.*

  *Munro will visit if the customer pays for the travel and daily fee.*

- If there are a few but specific questions on the content of report, is it possible to support a phone or e-mail communication?

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