Figure 1: Gas outlet temperature is plotted against gas mass flow rate.

Figure 2: Number longitudinal tube rows is plotted against gas mass flow rate.

Figure 3: Exchanger length in the flow direction is plotted against gas mass flow rate.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Results Table** | | | | |
| ṁc (kg/s) | ṁh (kg/s) | Tho (°C) | NL (#) | L (m) |
| 50 | 59.657 | 500 | 46 | 1.8356 |
| 50 | 74.233 | 540 | 36 | 1.427 |
| 50 | 117.968 | 600 | 24 | 0.939 |
| 60 | 71.589 | 500 | 50 | 1.9827 |
| 60 | 94.91 | 550 | 36 | 1.4409 |
| 60 | 141.562 | 600 | 26 | 1.0163 |
| 70 | 87.816 | 510 | 50 | 1.9855 |
| 70 | 118.503 | 560 | 36 | 1.441 |
| 70 | 165.155 | 600 | 27 | 1.0808 |