3.8 Double Diaphragm Shock Tube

Description:
Hydrogen or helium in driver section
Helium in buffer section
Radiation behind incident shock viewed spectrographically through two side windows.

Data:
Test shock Mach Numbers 10 to 25 (initial pressures $10^{-2}$ to $10^{-4}$ atmospheres)
10 Microsecond test time for incident shock observations.
100 Microsecond test time for reflected shock studies.

Equilibrium Temperature: 3000 to 6000°K incident shock
6000 to 10,000°K reflected shock

Operational - October, 1962

Cost:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>R and D</th>
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<tbody>
<tr>
<td>1962</td>
<td>$22,192</td>
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Note: This facility was constructed from existing elements from two dismantled shock tubes, the cost of which is not included.