Run #1

10 min run - 1E-4 torr
W Boeblinger installed

Shift pump run 40 min

Run #5
High vac data

1E-4 torr

Run #4 High vac data

3E-9 torr

Run #3
High vac data

10 min run for 1 hour

Max vacuums:
2.5E-4 torr

1000 run for 6 min

Diffusion Pump

Evac - PMCS 2L

2" joint heater

300W heater

120°C

Boiler temp

310°C

Booster:

800 ml

3BSS3 pump

10 ml/sec

1200

Diffusion Pump

Influent

Cooling H20

120°C
Vacuum
Particle Accelerator Progress

12/20/02

12/23/02

12/23/02

2/10/03

2/20/03

3/9/03

3/10/03

3/15/03

3/21/03

3/29/03

2/30/02

Welch 1400 rebuild completed
Welch tested 10 AMU low
Superstructure completed
CVC PM65-2C rebuild completed
diffusion pump attached
UHV fittings modified/revised
Busch pump connected to diffusion pump
Boulevard powered up at 100, 30 keV
Diff. Pump wired
Diff. Pump charged/vac SYS tested
Van de Graaff generator Base Build
System leak tested/sealed
Vac SYS tested
5Hp collar

CU NYLON

1.5'

2''

Something round and metal

NYLON

3' to 2'' reducer

Surgical tube

PVC

3'' id

3'' clamp

1/3 Hp 1780 rpm

8020
### Shopping Cart:
To continue shopping, click a type and category above or enter a part number. To check out, click the PURCHASE link below. If you update quantities, add notes or remove items, click UPDATE CART.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Note</th>
<th>Unit Price</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>1. SS-1610-1-8</td>
<td>Stainless Male Connector, 1&quot; O.D. - 1/2&quot; MNPT</td>
<td></td>
<td>31.90</td>
<td>2</td>
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<tr>
<td>2. SS-1210-1-8</td>
<td>Stainless Male Connector, 3/4&quot; O.D. - 1/2&quot; O.D.</td>
<td></td>
<td>17.30</td>
<td>1</td>
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<td>3. SS-1210-1-4</td>
<td>Stainless Male Connector, 3/4&quot; O.D. - 1/4&quot; O.D.</td>
<td></td>
<td>Quote</td>
<td>1</td>
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<td>4. T-1613-1</td>
<td>PTFE Front Ferrule, 1&quot; O.D.</td>
<td></td>
<td>4.55</td>
<td>3</td>
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<tr>
<td>5. T-1614-1</td>
<td>PTFE Back Ferrule, 1&quot; O.D.</td>
<td></td>
<td>3.65</td>
<td>3</td>
</tr>
<tr>
<td>6. T-1213-1</td>
<td>PTFE Front Ferrule, 3/4&quot; O.D.</td>
<td></td>
<td>2.66</td>
<td>3</td>
</tr>
<tr>
<td>7. T-1214-1</td>
<td>PTFE Back Ferrule, 3/4&quot; O.D.</td>
<td></td>
<td>2.49</td>
<td>3</td>
</tr>
</tbody>
</table>

You will receive an email confirming your order. Final prices, including taxes, freight and other charges will be confirmed in the order invoice.

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VeriSign secure site
LDS Vacuum Shopper

Thank you for your order. Please print this page for your records. All orders are subject to factory acceptance, verification and credit check.

Your order number is: vacuumshopper-833

**Ship to**  Herbert Seltzman  4604 Hiddenbrook Dr.  Raleigh NC 27609  (919) 876-6556  SavetoAddressBook

**Via** Ground - Continental US only

<table>
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<th>Item</th>
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<th>Quantity</th>
<th>Subtotal</th>
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<tr>
<td>LDS 705 - 100cc bottle</td>
<td>50.00</td>
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<td>50.00</td>
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</tbody>
</table>

Total Purchases  50.00
Shipping  0.00
Tax  0.00
Total for LDS Vacuum Shopper  50.00

Thank you for your order from LDS Vacuum Shopper. If you have any questions about your order, please contact us.

Return to Yahoo! Shopping

Click here to get your two $10.00 Cash Back Rewards on your next purchases to thank you for your purchase today!

By clicking above, you can claim your rewards from the reward provider, Reservation Rewards.
GPH320C
Operating Notes

This instrument is designed to measure absolute pressures below 1x10-2 only. If this instrument is left on at pressures above this or atmospheric pressure severe contamination will occur in the gauge tube, requiring cleaning and re-calibration. Turn off gauge after zeroing your standard.

Turn this gauge on only long enough to measure the baseline pressure of your vacuum pumping system. When this gauge reads 5x10-6 torr, (middle of 10-5 range) your system is low enough to zero your Standard Vacuum Gauges (model: PVS3 & 80-6A/CM-11). When the gage reads below 1x10-5 torr, (full scale on 10-5 range) your system is low enough to zero your Standard Vacuum Gauge (model PVS1-10). This corresponds to a vacuum which is below the resolution of your standard.

In cases where your pumping system cannot acheive a pressure below 1x10-5 torr, you may zero your standard and note the baseline pressure of your system. The baseline pressure should then be added to all your subsequent readings of your standard to obtain the true pressure.
Example: Baseline pressure = 1x10-4 torr

    Standard Pressure Reading at test point = .01 torr
    True pressure = .0101 torr