Standard Components
♦ Travaini base mounted liquid ring vacuum pump
♦ Heavy duty flexible coupling, requires no field alignment or lubrication
♦ NEMA C-face, TEFC, 3 phase. 60 hz, 230/460 volt, class F, 1.15 service factor motor
♦ Separator reservoir
♦ Seal liquid solenoid valve, includes Y-strainer and stop valve
♦ Seal water flow control
♦ Inlet check valve
♦ Vacuum gauge
♦ Globe Valve*
♦ Y-Strainer*
♦ Temperature Gauge*

Pre-Engineered Options
♦ Inlet filter (used for applications where a high carry-over of solids can be expected)
♦ Vacuum relief valve installed on pump suction (used to control maximum vacuum level)
♦ Flow switch
♦ Temperature gauge
♦ Vibration Mounts (Shipped Loose)

Engineered Options (these options will extend standard lead times)
♦ 460 volt, 3 phase, and 60 hz control panel with the following components:
  - Simplex: Full voltage starter c/w overloads control transformer, start/sop button, pump running light, and hour
    meter, mounted in NEMA 12 panel.
  - Duplex: Full voltage starters c/w overloads, one control transformer, two HOA switches, two running lights, two
    hour meters, auto alternation, and frequent start protection, mounted in NEMA 12 panel. Two vacuum switches are
    also standard.
♦ Inlet isolation valve (used to isolate pump operating on a common manifold)
♦ Vacuum receiver, ASME coded, standard, galvanized or epoxy coated
♦ Flexible pipe connectors (used to eliminate pipe stain on system components)
♦ Warning lights and audible alarms
♦ Fused disconnects or circuit breakers
♦ Dual control transformers (multiple pump systems)
♦ Programmable controllers (multiple pump systems)
♦ Custom built electrical panels

<table>
<thead>
<tr>
<th>System Model</th>
<th>Inlet/Outlet</th>
<th>Seal Water Line Size</th>
<th>Pump Model</th>
</tr>
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<tbody>
<tr>
<td>TRW 20S-NR</td>
<td>1 ¼”</td>
<td>3/8”</td>
<td>TRSE 32-20</td>
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<td>3/8”</td>
<td>TRM 25-30</td>
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<td>TRM 32-50</td>
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<td>TRW 45S-NR</td>
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<td>½”</td>
<td>TRSC 40-55</td>
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<td>TRVB 40-110</td>
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<td>½”</td>
<td>TRVB 40-200</td>
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* = For Partial Recovery Systems