TRAVAINI PUMPS USA
TRSA 200
Single Stage Medium Vacuum Pumps

PERFORMANCE: From 150 Torr  
CAPACITY: 1000 - 2200 cfm

FEATURES: Single-stage rotating pump with externally located bearings grease lubricated.

SHAFT SEALING: Mechanical seal - Double mechanical seal – Packing seal.

OPTIONS: Bareshaft pump - Coupled to electric motor on baseplate

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>PUMP TYPE</th>
<th>TRSA 200-1950</th>
<th>TRSA 200-2500</th>
<th>TRSA 200-3100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed RPM</td>
<td>730</td>
<td>880</td>
<td>730</td>
</tr>
<tr>
<td>Motor - installed power HP</td>
<td>75</td>
<td>125</td>
<td>100</td>
</tr>
<tr>
<td>Average service liquid flow GPM</td>
<td>59</td>
<td>59</td>
<td>71</td>
</tr>
<tr>
<td>Noise level at 189 Torr dBA</td>
<td>84</td>
<td>85</td>
<td>84</td>
</tr>
<tr>
<td>Minimum suction pressure Torr</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

Pumps are provided with threaded connections for service liquid, pump draining, grease and anticavitation valve and companion flanges. Pumps are also provided, by request, with auxiliary threaded connections, flanged air-liquid separator tank, non return valve, vacuum relief valve, flow valve to control the flow of the liquid supply, vacuum gauges, pressure gauges and compound gauges.

We can also provide information on our water sealed and oil sealed systems.

For more detailed information please contact our Sales Office.

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Example for Model Designation

**T R S A 200 – 3100 / C / GH**

- **T** Travaini Pump USA construction
- **R** Liquid Ring Pump
- **S** Single stage pump for medium vacuum
- **A** Design number
- **200** Flange size (mm)
- **3100** Nominal capacity (m³/h)
- **C** Shaft sealing
  - C = Mechanical seal
  - C2 = Double mechanical seal
  - B = Packing seal
- **G H** Materials of construction
  - GH-F-RA-A3 = See table

### Standard Materials of Construction

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>GH</th>
<th>F</th>
<th>RA</th>
<th>A3</th>
</tr>
</thead>
<tbody>
<tr>
<td>106</td>
<td>Suction casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107</td>
<td>Discharge casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>137</td>
<td>Port Plate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Impeller housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>Shaft</td>
<td></td>
<td>Stainless Steel AISI 420</td>
<td>Stainless Steel AISI 316</td>
<td></td>
</tr>
<tr>
<td>147</td>
<td>Manifold</td>
<td></td>
<td>Steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>357</td>
<td>Bearing housing</td>
<td></td>
<td></td>
<td>Cast Iron</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mech. seal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Impeller</td>
<td></td>
<td>Bronze</td>
<td>Ductile Iron</td>
<td>Stainless Steel AISI 316</td>
</tr>
</tbody>
</table>

Special Materials Available Upon Request

Indicative table: for further information please consult our Sales Office
TRSA 200/C
Bareshaft Construction with Mechanical Seal

<table>
<thead>
<tr>
<th>Pump Type</th>
<th>B</th>
<th>E</th>
<th>G</th>
<th>Pump</th>
<th>Weight lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRSA 200-1950/C</td>
<td>710</td>
<td>830</td>
<td>872</td>
<td>402</td>
<td>1410, 787, 623, 262</td>
</tr>
<tr>
<td>TRSA 200-2500/C</td>
<td>810</td>
<td>930</td>
<td></td>
<td></td>
<td>1510, 837, 673</td>
</tr>
<tr>
<td>TRSA 200-3100/C</td>
<td>910</td>
<td>1030</td>
<td></td>
<td></td>
<td>1610, 887, 723</td>
</tr>
</tbody>
</table>

Note: Dimensions in mm.
(mm to in = /25.4)

Base-Mounted Construction (Baseplate-Coupling) with Mechanical Seal

Dimensions for reference only
Please consult factory for
The weights refer to GH construction

1 Weight without motor
COMPONENTS

VDMA DESIGNATION
No
106 Suction casing
107 Discharge casing
110 Impeller casing
137.1 Side element
137.4 Side element
147 Manifold
• 210 Shaft
• 230 Impeller
• 320 Ball bearing
• 322 Ball bearing
• 357 Bearing and mech. seal house.
• 360 Bearing cover
• 360.1 Bearing cover
• 400 Gasket
• 400.3 Gasket
• 400.5 Gasket
• 400.8 Gasket
• 421 Radial seal ring
• 433.1 Mechanical seal c.c.w
• 433.2 Mechanical seal c.w.
• 471 Mechanical seal cover
• 485 Mech. seal locking ring
• 505 Shoulder ring
• 505.1 Shoulder ring
• 636 Grease nipple
• 701 Pipe
• 721 Liquid supply flange
• 731.3 Fitting
• 731.5 Fitting
• 901 Screw
• 901.1 Screw
• 901.2 Screw
• 901.8 Bolt
• 902.3 Stud
• 903.1 Plug
• 903.3 Plug
• 903.6 Plug
• 903.7 Plug
• 904 Grub screw
• 905 Tie-bolt
• 914 Screw
• 914.1 Screw
• 923 Nut
• 923.1 Nut
• 940 Key
• 940.1 Key
• Z Liquid supply inlet

Recommended spare parts