

# TBH 500

## Self-Priming Multi Stage Centrifugal Pump



# TRAVAINI

- HEAD** : 40 to 975 FT.
- CAPACITY** : 55 to 105 USGPM
- FEATURES** : Self-priming multi stage centrifugal pumps with horizontal mounting, top suction and discharge flanges; Capable of handling clean and not abrasive liquids even if mixed with gases or vapor; Low operating speed, low vibration, low noise level; Impellers individually hydraulically balanced to eliminate end thrust forces to bearings; Max. discharge pressure 40 bar at 120°C; 34 bar at 160°C
- SHAFT SEALING** : Mechanical seal - Double mechanical seals optional
- OPTIONS** : Bareshaft pump - Coupled to electric motor on baseplate - Monoblock
- ACCESSORIES** : Cooled or heated seal housing are available; Optional upgrade to Mechanical seals with Silica Carbide or Tungsten Carbide faces



### TECHNICAL DATA at 1750 RPM (60 HZ)

| CAPACITY    | USGPM                       | 55    |      | 65    |      | 75    |     | 85    |      | 95    |      | 105   |      |
|-------------|-----------------------------|-------|------|-------|------|-------|-----|-------|------|-------|------|-------|------|
|             | m <sup>3</sup> /h           | 12.49 |      | 14.76 |      | 17.03 |     | 19.30 |      | 21.58 |      | 23.85 |      |
| MODEL       | Flange size<br>In/Out<br>2" | FT    | HP   | FT    | HP   | FT    | HP  | FT    | HP   | FT    | HP   | FT    | HP   |
| TBH 501     |                             | 203   | 10.9 | 190   | 9.5  | 164   | 8.8 | 141   | 8.2  | 121   | 6.8  | 66    | 6.1  |
| TBH 502     |                             | 382   | 19.7 | 347   | 17.6 | 303   | 16  | 257   | 14.6 | 212   | 12.4 | 118   | 10.4 |
| TBH 503     |                             | 561   | 28   | 504   | 26   | 442   | 23  | 372   | 21   | 302   | 18   | 171   | 14.6 |
| TBH 504     |                             | 740   | 37   | 660   | 34   | 580   | 30  | 488   | 27   | 393   | 24   | 223   | 18.9 |
| TBH 505     |                             | 919   | 46   | 817   | 42   | 719   | 38  | 604   | 34   | 483   | 29   | 276   | 23   |
| TBH 506     |                             | --    | --   | 974   | 50   | 858   | 45  | 720   | 40   | 574   | 35   | 328   | 27   |
| <b>NPSH</b> | <b>FT</b>                   | 10.8  |      | 11.8  |      | 13.5  |     | 15.7  |      | 19    |      | 23    |      |

### MODEL DESIGNATION

| T B H 503 A / 3 - C / A3 - M |  |
|------------------------------|--|
| T                            | Travaini manufacturer  |
| B                            | Self-priming multistage centrifugal pump   |
| H                            | Type of construction   |
| 50                           | Pump size  |
| 3                            | Number of stages   |
| A                            | Modification of hydraulics   |
| 3                            | Construction modifications   |
| C                            | Shaft sealing C = Mechanical seal<br>CC = Double mec .seal back-to-back<br>C2 = Double mec. seal in tandem |
| A3                           | Materials of construction (see table)  |
| M                            | Close coupled with lantern (opt.)  |

| STANDARD MATERIALS OF CONSTRUCTION ** |                       |                  |    |  |           |                  |
|---------------------------------------|-----------------------|------------------|----|--|-----------|------------------|
| Part No.                              | Description           | GH               | RA | A3                                       | B2        | GP               |
| 106                                   | Suction casing        | Ductile iron     |    | Stainless steel<br>AISI 316              | Bronze    | Ductile iron     |
| 107                                   | Discharge casing      | Cast iron        |    |  |           | Cast iron        |
| 109<br>114<br>149                     | Port plate & Diffuser | S.S.<br>AISI 420 |    |  |           | S.S.<br>AISI 420 |
| 210                                   | Shaft                 | Brass            |    | Bronze                                   | Brass     |                  |
| 230                                   | Impeller              | ---              |    | Carbon                                   | ---       | Bronze           |
| 310.1                                 | Element bush          | Cast iron        |    | Cast iron with<br>Stainless steel insert | Cast iron |                  |

\*\*Special Materials Available Upon Request  
-For further information please consult Premier Fluid Systems Inc.



**Premier Fluid Systems**  
Canadian Home Of Travaini Pumps