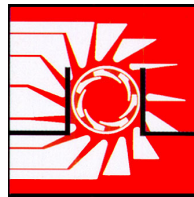
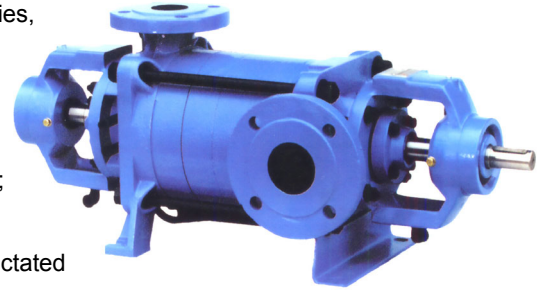


# TMA 50 Multi Stage Centrifugal Pump



# TRAVAINI

- HEAD** : 290 to 1300 FT.  
**CAPACITY** : 60 to 240 USGPM  
**FEATURES** : Multi-stage centrifugal pumps which employ a closed type impeller design; Axial thrusts are balanced by special blades on back of impellers; Heavy duty outboard single bearings and angular bearing absorb remaining thrusts; One-piece stage/diffuser element increases efficiencies, simplifies maintenance and reduces weight  
**SHAFT SEALING** : Single mechanical seals -  
 (Optional) Double mechanical seals - Stuffing box  
**OPTIONS** : Bare shaft - Close-coupled monoblock - Directly Coupled to electric motor - Mounted on baseplate  
**OPERATING LIMITS** : Maximum liquid temperature with stuffing box 250°F; Max. liquid temp. with cooled stuffing box 320°F; Max. discharge pressure of 580 PSIG; Max. suction pressure of 230 PSIG; Temperature limits are also dictated by the type of mechanical seal used  
**FLANGE ORIENTATION** : Standard – Suction facing left viewed from drive end  
 Optional – Suction facing right or top viewed from drive end



## TECHNICAL DATA at 3500 RPM (60 HZ)

| CAPACITY    | USGPM                              | 60   |      | 80   |      | 100  |      | 120  |      | 160  |      | 200  |      | 240  |      |
|-------------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MODEL       |                                    | FT   | HP   | FT   | HP   | FT   | HP   | FT   | HP   | FT   | HP   | FT   | HP   | FT   | HP   |
| TMA 50-3    | Flange size<br>In 2 1/2"<br>Out 2" | 486  | 19.5 | 483  | 21.0 | 474  | 22.8 | 462  | 24.6 | 420  | 27.9 | 360  | 30.9 | 288  | 31.5 |
| TMA 50-4    |                                    | 648  | 26.0 | 644  | 28.0 | 632  | 30.4 | 616  | 32.8 | 560  | 37.2 | 480  | 41.2 | 384  | 42.0 |
| TMA 50-5    |                                    | 810  | 32.5 | 805  | 35.0 | 790  | 38.0 | 770  | 41.0 | 700  | 46.5 | 600  | 51.5 | 480  | 52.5 |
| TMA 50-6    |                                    | 972  | 39.0 | 966  | 42.0 | 948  | 45.6 | 924  | 49.2 | 840  | 55.8 | 720  | 61.8 | 576  | 63.0 |
| TMA 50-7    |                                    | 1134 | 45.5 | 1127 | 49.0 | 1106 | 53.2 | 1078 | 57.4 | 980  | 65.1 | 840  | 72.1 | 672  | 73.5 |
| TMA 50-8    |                                    | 1296 | 52.0 | 1288 | 56.0 | 1264 | 60.8 | 1232 | 65.6 | 1120 | 74.4 | 960  | 82.4 | 764  | 84.0 |
| <b>NPSH</b> | <b>FT</b>                          | 4.5  |      | 5.0  |      | 5.5  |      | 6.0  |      | 8.0  |      | 11.0 |      | 15.5 |      |

## MODEL DESIGNATION

| STANDARD MATERIALS OF CONSTRUCTION ** |                              |                  |    |                             |  |
|---------------------------------------|------------------------------|------------------|----|-----------------------------|--|
| Part No.                              | Description                  | F                | RA | A3                          |  |
| 106                                   | Suction casing               | Ductile iron     |    | Stainless steel<br>AISI 316 |  |
| 107                                   | Discharge casing             |                  |    |                             |  |
| 108.1                                 | Stage casing                 | Cast iron        |    |                             |  |
| 165                                   | Heating or Cooling cover     |                  |    |                             |  |
| 210                                   | Shaft                        | S.S.<br>AISI 420 |    |                             |  |
| 230                                   | Impeller                     |                  |    |                             |  |
| 357                                   | Bearing & mech. seal housing | Cast iron        |    |                             |  |

| TMA 50 - 4 / 1X - C / A3 |  |
|--------------------------|--|
| T                        | Travaini manufacturer  |
| M                        | Multi-stage centrifugal pump   |
| A                        | High pressure  |
| 50                       | Pump series  |
| 4                        | Number of stages   |
| 1                        | Construction design level<br>1 = Standard bearings<br>1x = Double bearings at drive end  |
| C                        | Type of sealing on shaft<br>C = 2 Mechanical seals<br>RR = Double mec. seals back to back<br>R2 = Double mec. seals in series<br>B = Packed stuffing boxes |
| A3                       | Materials of construction (see table)  |

\*\*Special Materials Available Upon Request

-For further information please consult Premier Fluid Systems Inc.



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

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Page 14.14