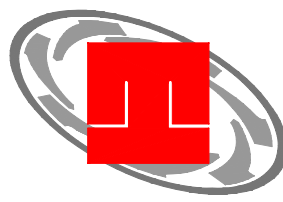


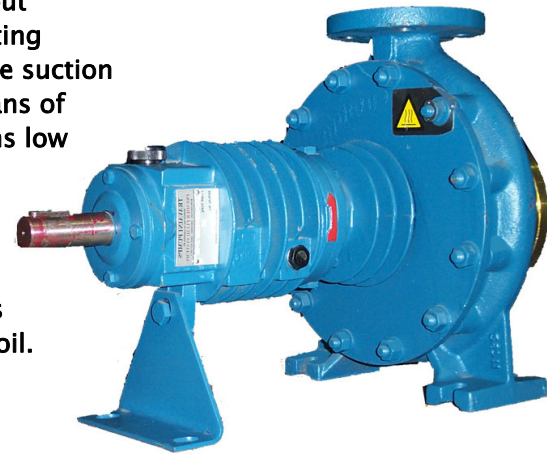
# TCD 80

## Self-Cooling Centrifugal Pump for Heat Transfer & Vegetable Oils



# travaini

- HEAD** : 20 to 460 FT.  
**CAPACITY** : To 1200 USGPM  
**FEATURES** : No cooling required at all; Heavy-duty oil lubricated bearings; No internal shaft sleeves; Easy back pull-out design for removal of the bearings & complete rotating element without removing the pump casing from the suction & discharge piping; Pump impeller balanced by means of back-ribs; Specially designed bearing housing attains low operating temperatures in seal and bearing areas;  
**\*\*Note:** "SP" design constructed for handling edible vegetable oils; For difference in GS and SP design see respective sectional drawings.  
**SHAFT SEALING** : Two seals in series: one mechanical seal for process oil and one radial shaft seal for bearing lubrication oil.  
**OPTIONS** : Bareshaft - Directly coupled to electric motor mounted on baseplate  
**TEMPERATURE** : To 608°F (320°C)  
**CASING PRESSURE** : 232 PSI to 248°F (120°C); 150 PSI to 608°F (320°C)  
**VISCOSITY** : To 1400 SSU



### TECHNICAL DATA

PUMP TYPE		TCD 80-160		TCD 80-200		TCD 80-250	
Head, Max	FT	50	200	72	317	115	460
Capacity, Max	GPM	550	1100	600	1170	800	1200
Speed	RPM	1750	3500	1750	3500	1750	3500
Max. Inlet Press.	PSIG	110	110	110	110	110	110

### STANDARD MATERIALS OF CONSTRUCTION

PART No.	DESCRIPTION	GS	A3
102	Volute Casing	Ductile Iron	Stainless Steel AISI 316
163	Casing Cover		
167	Cooling Plate		
210	Shaft	Stainless Steel AISI 420	
230	Impeller	Cast Iron	
330	Bearing Housing		
433.2	Mechanical Seal	Ni-Resist / Carbon / Viton	S.S. AISI 316 / Carbon / Viton
502	Wear Ring	Carbon Steel	Stainless Steel AISI 316

### MODEL DESIGNATION

TCD 80 - 250 A / 2 - R / GS	
T	Travaini Manufacturer
C	Monostage Centrifugal Pump
D	Heat Transfer Self-Cooling Centrifugal Pump
80	Discharge Flange Size (mm)
250	Nominal Impeller Diameter (mm)
A	Hydraulic Design Status
2 - R	Constructive Design Number - Single Mechanical Seal
GS	Materials of Construction

- For further information please consult Premier Fluid Systems Inc.



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