

TRVX 257

Single Stage Liquid Ring Vacuum Pump



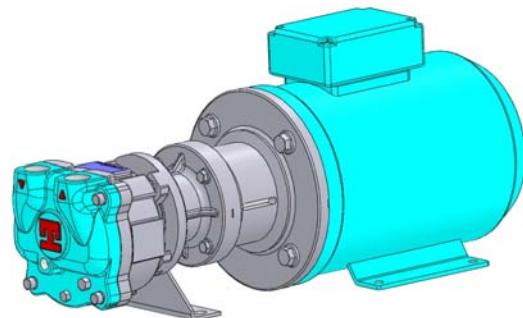
TRAVAINI

PRESSURE RANGE : 25 to 760 TORR
CAPACITY : 5 to 38 CFM

FEATURES : Single stage rotating pump with externally located bearings grease lubricated for life superior efficiency at a higher vacuum than previous models with an improved anti cavitation system

SHAFT SEALING DESIGN : Mechanical seal
ACCESSORIES : Monoblock with electric motor 182TC TEFC

(Optional) Flange mounted air-liquid separator tank, non-return valve, vacuum relief valve, vacuum gauge, anti-cavitation valve and piped *service liquid line* with isolating valve, Y-strainer, 1/60/120 solenoid valve, flow regulating valve and compound gauge



TECHNICAL DATA

PUMP TYPE		TRVX 257
Speed	RPM	3500
Motor - installed power	HP	3
Avg. service liquid flow	GPM	1
Noise level at 150 Torr	dB(A)	69
Min. suction pressure	Torr	25

MODEL DESIGNATION

TRVX 257 / 1 - C / N/RX	
T	Travaini manufacturer
R	Liquid ring pump
V	Single impeller pump with valves for medium and high vacuum
X	With stainless steel plate AISI 304or AISI 316
25	Pipe connection- size (mm)
7	Pump size
1	Pump project
C	Shaft sealing, Mechanical seal
N	NEMA motor
RX	Materials of construction (see table)

STANDARD MATERIALS OF CONSTRUCTION **

Part No.	Description	RX	A3
101	Casing	Cast Iron	Stainless Steel AISI 316
235	Impeller Cover		
137	Port Plate	Stainless Steel AISI 304	
210	Shaft	Stainless Steel AISI 420	
230	Impeller	Stainless Steel AISI 304	

**Special Materials Available Upon Request

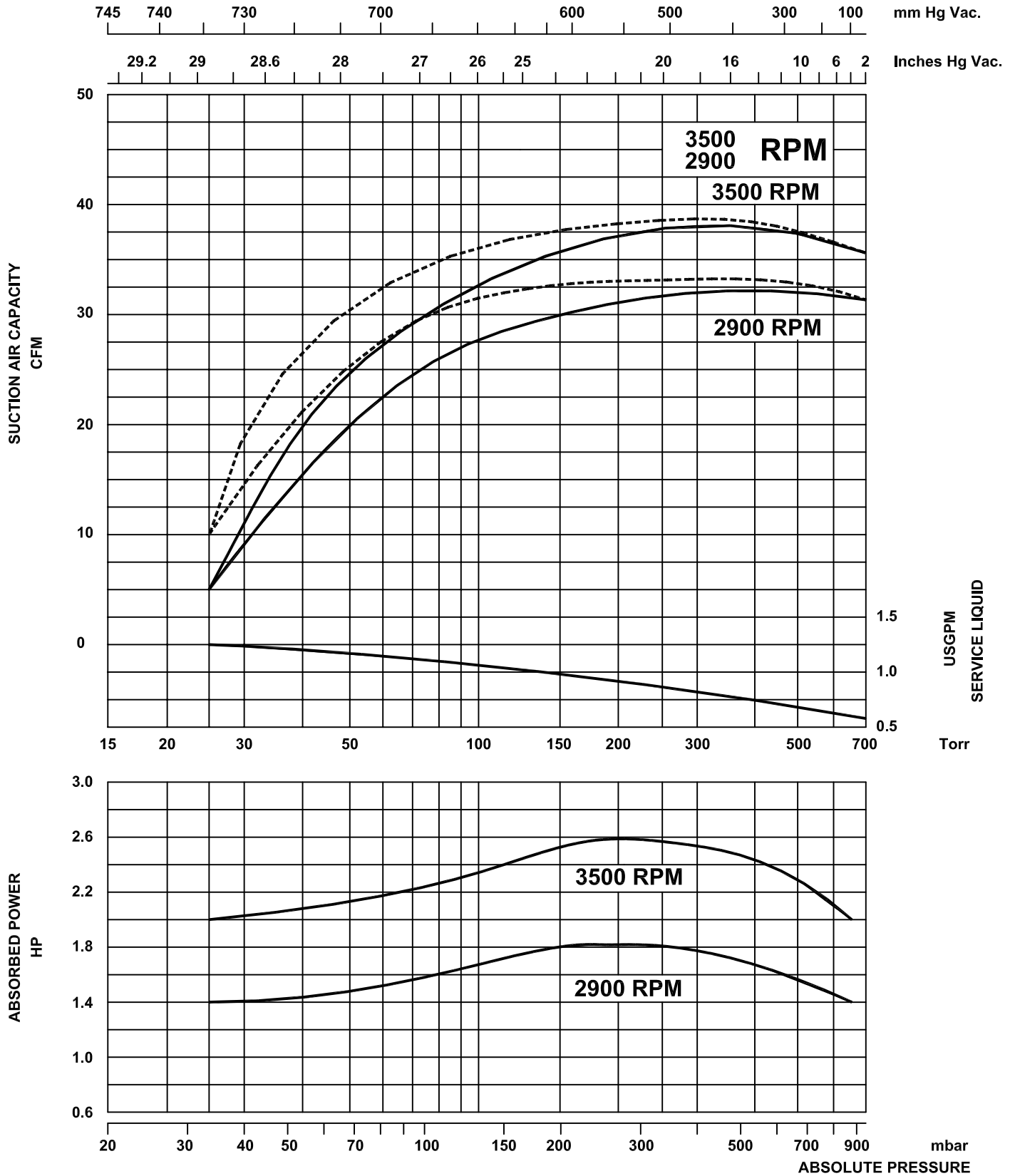
- Request information on our HYDROSYS and DYNASEAL engineered vacuum systems
- For further information please consult Premier Fluid Systems Inc.

DATA BASED ON :
 DRY AIR AT 68 °F - 20 °C
 SATURATED AIR AT 68 °F - 20 °C
 SERVICE LIQUID WATER
 SERVICE LIQUID TEMPERATURE 59 °F - 15 °C
 DISCHARGE PRESSURE 1013 mbar

TOLERANCE: ±10%
 S.S PUMPS
 CAPACITY: -10%

PERFORMANCE DATA
 LIQUID RING VACUUM PUMP
 TRAVAINI MODEL

TRVX 257

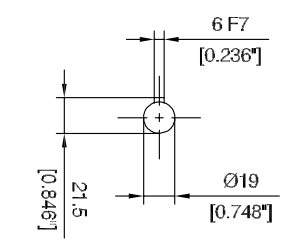
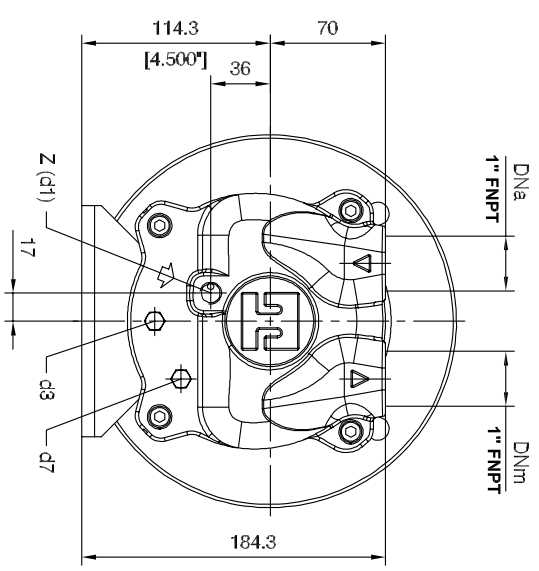
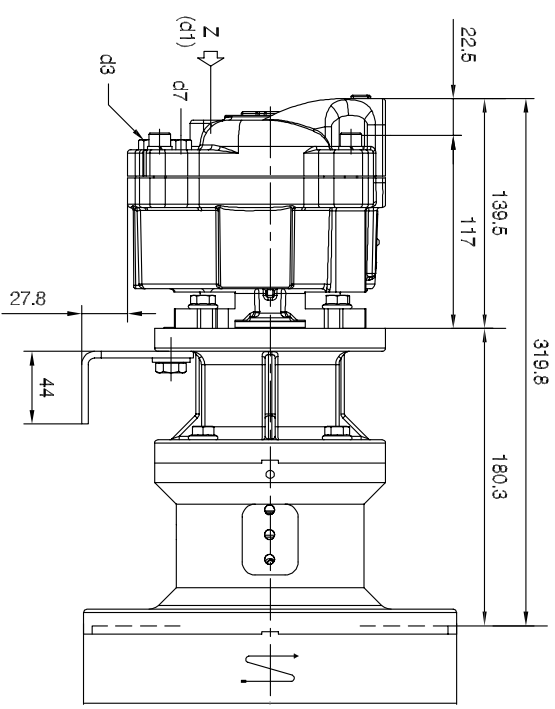
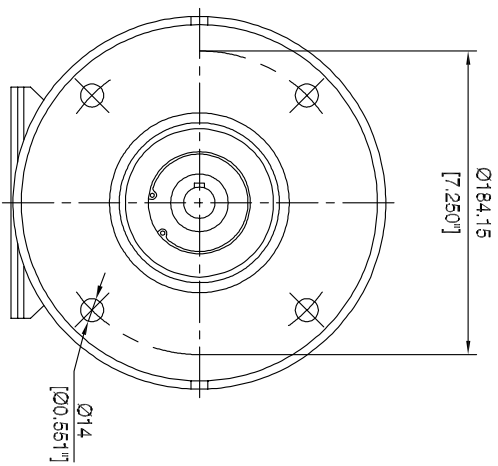


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Overall Dimensions/ Bareshaft

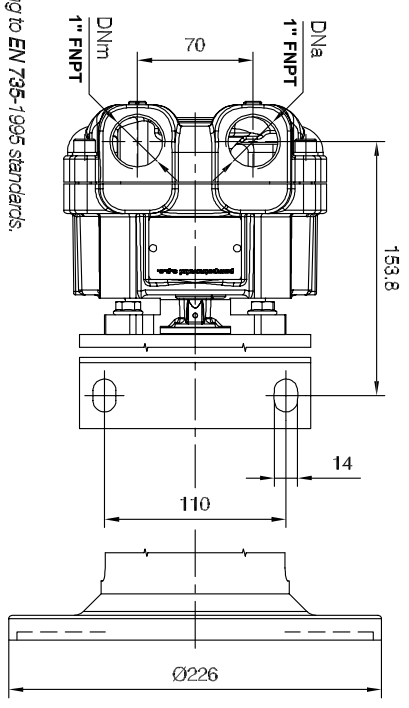
DIMENSIONAL DRAWING
LIQUID RING VACUUM PUMP
TRAVANI MODEL
TRVX 257/1-C/N



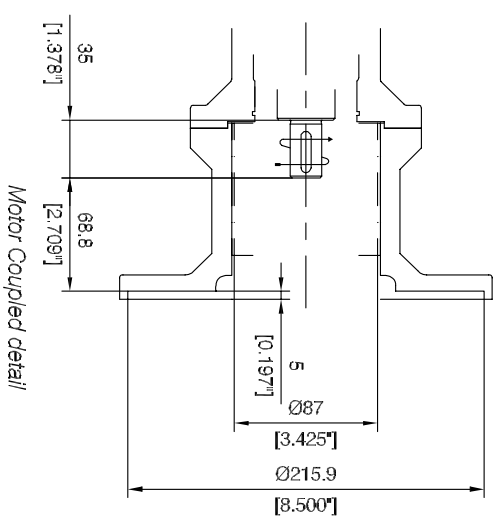
Note :
 (*) Schematic drawing. Dimensions in mm with tolerances according to EN 735-1995 standards.

Pump type	Weight	Mi	Lt
TRVX 257	20	0.006	0.4

Mi Max Moment of Inertia at start-up
 Lt Water quantity at shaft axis in liters



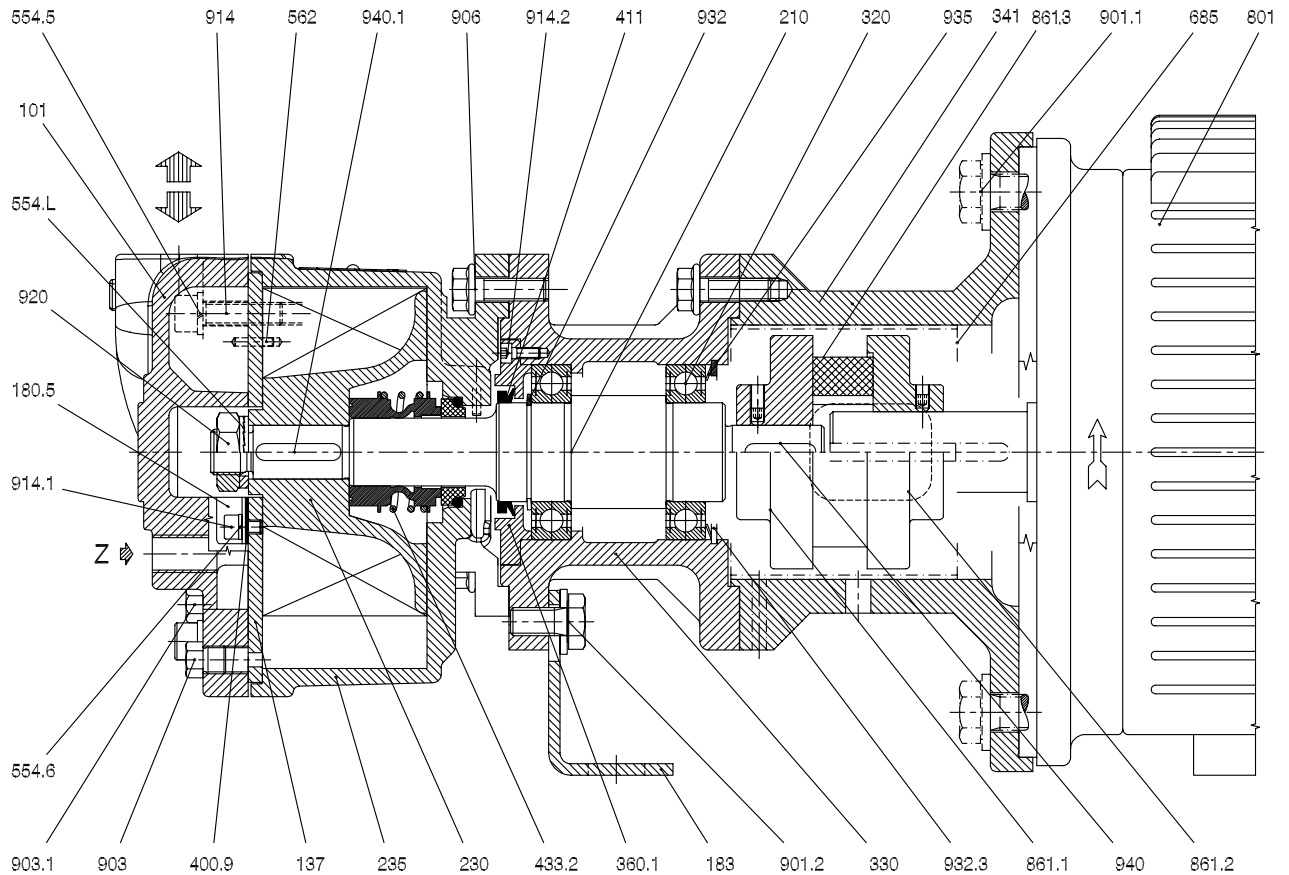
d1: 1/4" FNPT - FOR LIQUID SUPPLY INLET
 d3: 1/8" FNPT PLUG- FOR PUMP CASING DRAIN
 d7: 1/8" FNPT PLUG- FOR ANTICAVITATION VALVE



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Sectional Drawing



Part Number	Description	Part Number	Description	Part Number	Description
101	Suction/Discharge casing	➤ 433.2	Mechanical Seal	903	Plug
➤ 137	Suction & discharge plate	507	Thrower	903.1	Plug
180.5	Valve Plate	554.L	Anti-unscrewing washer	906	Tie bolt
183	Support foot	554.5	Spring washer	914	Screw
➤ 210	Shaft	554.6	Washer	914.1	Screw
➤ 230	Impeller	562	Cylinder Pin	920	Nut
235	Impeller cover	685	Mesh guard	932	Circlip
➤ 320	Ball bearing	801	Flanged motor	935	Wafer ring
330	Bearing housing	861.1	Half coupling	940	Key
341	Motor lantern	861.2	Half coupling	940.1	Key
➤ 360.1	Bearing cover	➤ 861.3	Coupling insert	Z	Liquid Supply Inlet
➤ 400.9	Gasket	901.1	Screw		
➤ 411	V-ring	901.2	Screw		

➤ = Recommended spare parts

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