

## Diaphragm Vacuum Pumps (Chemical Resistant Vacuum Pumps)

TOPLAB INDIA'S TL-series Vacuum Pumps are chemical resistant, diaphragm vacuum pumps which can be widely used to hard acidic, basic and solvent vapours by utilizing corrosion proof PTFE on all the wetted surfaces. Through innovative mechanical technology and human considerations, we have made TL-series series to be quiet, safe, maintenance-free and cost effective vacuum pumps.



### Features:

- **High chemical resistant**  
All wetted parts of TL-series Vacuum pump are made of PTFE material which can resist most of corrosive gases.
- **No air pollution, maintenance free**  
TL-series Vacuum pumps are driven by Diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.
- **Quiet and low vibration**  
Driven direct by motor with no additional belt-driven transmission; the quality vibration-proof assembly makes TL-series Vacuum Pump run at the lowest noise level among all other equivalent pumps.
- **Thermal protection device**  
Every motor of TL-series Vacuum pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.
- **International safety certification**  
CE certification

### Application Areas:

- Chemical and petrochemical Industry
- Pharma Industry
- Filtration processes
- Vacuum distillation
- Rotary evaporation
- Vacuum and centrifugal concentration
- Solid phase extraction
- Conventional drying and gel drying
- Advanced Substitute for water-jet pumps

## Chemical Resistant Diaphragm Vacuum Pumps

### Technical Specifications:

Model Number	TL-300C	TL-400C	TL-410C	TL-510C	TL-600C	TL-610C
Max. Vacuum (mbar)	100 mbar	120 mbar	13 mbar	8 mbar	90 mbar	2 -4 mbar
Max. Flow Rate(L/min)	22 L/min	34 L/min	25 L/min	34 L/min	60 L/min	37 L/min
Outlet (mm)	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
Motor Speed (rpm)	1450 rpm	1450 rpm	1450 rpm	1450 rpm	1450 rpm	1450 rpm
Max. Power (W)	60 W	95 W	95 W	245 W	270 W	245 W
Max. Current (A)	0.5 A	0.5 A	0.5 A	1.1 A	1.1 A	1.1 A
Number of Stages	Single Stage	Single Stage	Double Stage	Double Stage	Single Stage	Double Stage
Weight (kg)	6 kg	8.2 kg	8.5 kg	13.2 kg	13.2 kg	13.8 kg
Noise Level (dB)	50 dB	60 dB	50 dB	60 dB	60 dB	60 dB
Input Power	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz	220V / 50Hz
Size WxDxH (mm)	233*110*210	294*156*195	294*156*195	380*156*226	380*162*226	380*171*226

### Accessories for Chemical Resistant Diaphragm Pumps

#### PTFE Connector:



Description	Part No.
Outlet Diameter 8mm; applicable for TL-300C	C300015
Outlet Diameter 10mm; applicable for TL-400C, TL-410C, TL-510C, TL-600C, TL-610C	C410015

#### Diaphragm and Valve Plate Sets:



Description	Part No.
Diaphragm and Valve Plate Set 1 (1 diaphragm, 2 valve plate; applicable for TL-300C / TL-400C / TL-410C)	410001
Diaphragm and Valve Plate Set 1 (1 diaphragm, 2 valve plate; applicable for TL-510C / TL-600C / TL-610C)	510001
Diaphragm, applicable for TL-300C / TL-400C / TL-410C, 1/pk	C410005
Diaphragm, applicable for TL-510C / TL-600C / TL-610C, 1/pk	C510011
Valve Plate, applicable for TL-300C, 1/pk	C410006
Valve Plate, applicable for TL-400C/TL-410C/T-510C/TL-600C/TL-610C, 1/pk	C510013

### Chemical Resistant Vacuum Regulator / Filter Equipment



Description		Part No.	
Set 1 (includes vacuum trap and regulator )		169311-06	
Set 2 (includes vacuum trap only)		169312-06	
Set 3 ( neither include vacuum trap nor regulator)		169313-06	
Part	Material	Part	Material
Pressure Regulating Valve	PVDF	Filter Bottle	Borosilicate Glass
Filter	PTFE	Adapter	PTFE
Filter Bracket	ABS	Vacuum Sensor	Stainless Steel

#### PTFE & Viton Tubing



Order No.	Outer Diameter, mm	Inner Diameter, mm	Thickness, mm	Length, m
<b>PTFE Tubing</b>				
016.1706.01	6	4	1	1
016.1708.01	8	6	1	1
016.1712.01	12	10	1	1
016.1714.01	14	12	1	1
<b>Viton Tubing</b>				
168000-01	12	6	3	1
168001-01	14	8	3	1
168002-01	16	10	3	1
Length upon request (min. 1 meter)				