

# Turbo Cart Pumping System

## 40 to 1000 liters/sec

120 Volts/60 Hz

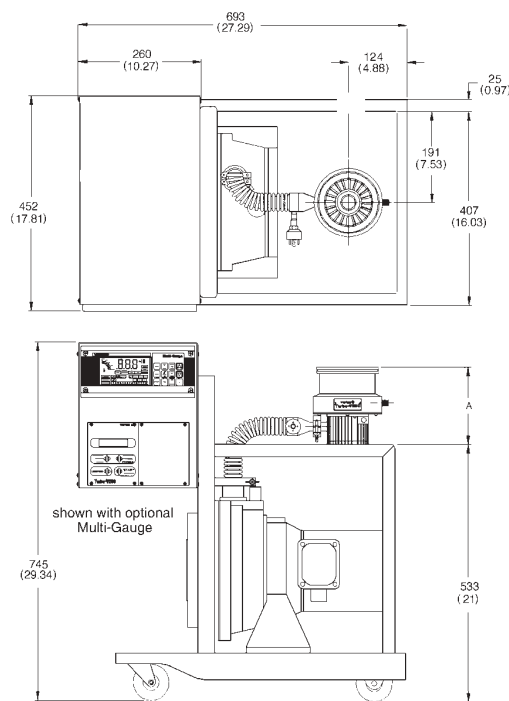


**The most versatile mobile turbo-pumping systems.**  
 The Turbo Cart is a fully integrated pumping system designed to accommodate the widest selection of turbos and backing pump combinations. Lockable casters permit complete mobility and stability. Its open-frame design provides ready access to all system components. The integral console houses the turbo controller and a wide choice of vacuum gauge controller options.

### Features

- Stable mobile platform
- 40 to 1000 liter/second pumping capability
- Versatility – widest selection of turbo and backing pumps
  - Available with 4 turbo sizes and 7 different backing pumps (scroll, rotary vane and diaphragm)
  - Can be fitted with a variety of gauges and controllers, valves, inlet spool pieces, adapters, venting devices and cooling kits.
  - Custom platforms designed to your specifications
- Oil free options available
- Lockable casters
- One button operation
- KF, ISO or ConFlat flanges

### Outline Drawing



Pump	Inlet Flange	A Height	
V70	KF-40	5.9 in.	
	ISO-63	5.2 in.	
	2.75 in. CFF	5.9 in.	
	4.5 in. CFF	5.2 in.	
V70LP	KF-40	6.5 in.	
	ISO-63	5.8 in.	
	2.75 in. CFF	6.5 in.	
	4.5 in. CFF	5.8 in.	
	V301	ISO100	6.9 in.
		ISO160	6.9 in.
6 in.CFF		6.9 in.	
	8 in.CFF	6.9 in.	
	V551	ISO160	10.0 in.
6 in.CFF		10.7 in.	
8 in.CFF		10.4 in.	
V701	ISO200	10.0 in.	
	10 in. CFF	9.6 in.	

Dimensions: millimeters (inches)

### Applications

- HV and UHV based research
- Gas backfilling operation
- Clean system roughing
- Remote turbopump operation
- Cryopump regeneration

### Ordering Instructions for 120 Volt Turbo Pumping Systems

Step #1 – Select turbo pump and inlet flange from Turbo Pump Table below.

Step #2 – Select primary pump from Primary Pump Table below.

Step #3 – Select gauging and transducers, and optional accessories from the table of options and accessories on page 220.

Step #4 – Submitting your order is as simple as providing the part numbers that you selected in steps #1-3, and adding the respective prices together.

**NOTE:** Ordering a turbo system requires a minimum of two part numbers (steps #1 and #2).

### Ordering Information

#### Turbo Pump Table

Pump Model	Inlet Flange	Part Number*	Shipping Weight kg (lbs)
Turbo-V70	KF40	MSP9359	27 (60)
	ISO63	MSP9357	27 (60)
	2.75 in. CFF	MSP9360	29 (64)
	4.5 in. CFF	MSP9358	29 (64)
Turbo-V70LP	KF40	MSP9367	27 (60)
	ISO63	MSP9365	27 (60)
	2.75 in. CFF	MSP9368	29 (64)
	4.5 in. CFF	MSP9366	29 (64)
Turbo-V301	ISO100	MSP9037	44 (97)
	ISO160	MSP9039	44 (97)
	6 in. CFF	MSP9038	48 (105)
	8 in. CFF	MSP9040	48 (105)
Turbo-V551	ISO160	MSP9049	59 (130)
	6 in. CFF	MSP9048	66 (145)
	8 in. CFF	MSP9050	66 (145)
Turbo-V701	ISO200	MSP9057	61 (148)
	10 in. CFF	MSP9058	67 (158)

#### Primary Pump Table

Pump Type	Pump Model	Part Number	Shipping Weight kg (lbs)
Dry Scroll	SH-110	MSP1001	19 (42)
	TriScroll 300 w/ Direct Acting Valve	MSP1505	26 (58)
	TriScroll 600 w/ Direct Acting Valve	MSP0202	31 (69)
Rotary Vane **	DS102	MSP0098T	23 (50)
	DS202	MSP0205T	26 (58)
	DS302	MSP0206T	26 (58)
	DS402	MSP0207T	36 (79)
Diaphragm	MDP-30	MSP9982	19 (42)
	MD-40	MSP0099	13 (29)
	MD-60	MSP0100	19 (42)

\* Part numbers and prices from the Turbo Pump Table include T-Series cart, turbomolecular pump, inlet screen, turbo pump controller, stainless steel foreline manifold, thermo-couple gauge tube, and cabling for single switch operation.

\*\* All oil-sealed rotary vane pumps include an oil mist eliminator.

Additional gauges and transducers, and optional accessories are also available. See Accessories page 220 for a list of standard options.

**NOTE:** Cart models equipped with turbo pump TV 551 or TV 701 cannot be used with turbo pump in its original position (aboard the Cart). The pump must be fixed to the vacuum system by means of its inlet flange (see the turbo pump instruction manual).

Still can't find exactly what you want? Please contact us at 1 800 882 7426!  
We specialize in designing and building custom turbo pumping systems.