

# Tip Extraction Collector (TEC)



## Raising The Bar in Source Capture Fume Extraction

### Introducing the ProStar™ Tip Extraction Fume Collectors (TEC)

#### Easy Operation and Efficient Collection

Praxair helps you reduce your employees' exposure to harmful welding particulates. When paired with a fume extraction torch, the high-powered ProStar Tip Extraction Collector (TEC) delivers fume extraction at the tip of the welding torch. By capturing more particulate closer to the source and pulling the fumes through the gun, operator exposure to welding fume is greatly reduced.



With TEC



Without TEC

#### HEPA Rated Washable Cartridge Filter

The ProStar TEC delivers, on average, greater than 95% collection efficiency for in position welds in accordance to the AWS F1-2 standard. The E11 rated PTFE filter is washable, so a single filter can last years when properly maintained. A safety monitoring filter (SMF) is also available for all ProStar TECs. This after-filter prevents dust collected by the TEC from potentially reentering the workspace, should a main filter failure occur. This option is required by OSHA for certain types of hazardous dusts.

#### Standard Pressure, High Pressure and Dual-Torch Options

The three TEC units have, at their core, variable speed, brushless, DC multi-stage bypass blowers enabling users to easily dial in the right airflow. The blowers are rated at 100% duty cycle for an impressive 30,000 hours – they can be relied upon for a long service life.

#### FEATURES

- Variable speed, high-quality blowers
- Suction blockage safety shut down
- Automatic power saver shutdown
- Filter status indicator
- Cam lock filter lock
- Electrical protection

#### BENEFITS

- Enables airflow to be dialed to the right setting for the process. Provides ample airflow for an average of greater than 95% collection efficiency.
- Protects the unit if the tip openings or the hose are obstructed.
- Shuts down the unit if idle for two minutes and comes on when welding resumes to conserve power.
- Helps users maintain filter health.
- Provides quick access to filter media.
- Complete circuit breaker protection of all components.

# ProStar Portable Fume Collectors

Call Praxair to ask how we can help you increase productivity and lower your cost of operations.



## ProStar TEC Models

### PROSTAR TEC 1S

This single-torch, standard-pressure unit with 100 CFM at 50 inches of static pressure is ideal for most welding processes and provides an ergonomic solution to fume reduction.

### PROSTAR TEC 1S-HP

This single-torch, high-pressure unit with 100 CFM at 100 inches of static pressure is an effective solution for applications with a required hose length of greater than 20 feet.

### PROSTAR TEC 2D

This dual-torch, standard-pressure unit with 100 CFM at 50 inches of static pressure per torch is intended to support two welders. The dual blowers in a single enclosure make it an ergonomic and space-saving solution for protecting operators from welding fume exposure.



#### Available Options

480 V / 1 ph upgrade with circuit breaker protection

Safety Monitor Filter – E11 HEPA

Additional hose in 10 ft. increments: TEC 1S and 2D (20 ft. max), TEC 1S-HP (50 ft. max)

Alternative intakes available in 4 in. round hood and 5 in. x 5/8 in. flat nozzle

SPECIFICATIONS	SINGLE GUN STANDARD PRESSURE	SINGLE GUN HIGH PRESSURE	DUAL GUN STANDARD PRESSURE
PART NUMBER	PRSTEC-1S	PRSTEC-1SHP	PRSTEC-2D
AIRFLOW RATE	100 CFM at 50 in. H2O	100 CFM at 100 in. H2O	200 CFM at 50 in. H2O
MOTOR	1.3 HP brushless DC motor	2.6 HP brushless DC motors	
BLOWER	Two stage bypass blowers		
MOTOR/BLOWER RATING	100% duty cycle/30,000 hour		
POWER REQUIREMENTS	240 V / 1 ph at 8 Amps	240 V / 1 ph at 16 Amps	
MAIN CARTRIDGE FILTER	195 sq. ft. of E11/PTFE media (99.97% at .3 micron)		
FILTER STATUS INDICATOR	Mini-helix gauge		
FILTER CLEANING	Manual push button		
ELECTRICAL CONTROLS	On/off switch		
	Variable speed dial		
	Complete circuit breaker protection		
	Auto shut down energy savings		
	Suction blockage safety shutdown		
POWER CORD	20 ft. with storage bracket		
SPARK ARRESTANCE	Removable/washable spark trap		
PARTICULATE/DUST REMOVAL	Dust tray		
SUCTION HOSES	One 2 in. x 10 ft. UL940V FR hose	Two 2 in. x 10 ft. UL940V FR hose	
WHEELS AND CASTERS	8 in. rear and 2 in. front swivel		
SOUND LEVEL	70 dB at 5 ft. with motor/blower at full RPM		
UNIT SIZE	44 in. T x 30 in. L x 24 in. W		
UNIT WEIGHT	200 lbs.		

Specifications subject to change without notice. Consult your Praxair representative when ordering.