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Data Sheet

VIAVI
CleanBlastPRO

Next-generation fiber optic end-face cleaning system

CleanBlastPRO™ is the latest automated fiber end-face cleaning system from VIAVI Solutions. Based on the original concept from its predecessor, the CleanBlastPRO has been redesigned from the ground up to deliver all the benefits of the original CleanBlast while adding improvements where they matter most. The result is a system that component and connectivity manufacturers and integrators can easily deploy throughout their production facilities to ensure clean fiber connectors.

Equipped with an internal solvent tank, air filtration system, cleaning handset, 6-foot umbilical and an LCD screen, CleanBlastPRO gives users an intuitive and automated fiber connector cleaning system that can be easily deployed. Once the CleanBlastPRO is attached to an air source, the user can clean a wide variety of fiber end faces.

Key Benefits

- Ensure clean fiber end-faces for every connector type
- Streamline cleaning workflows in production environments with fast cleaning cycles
- Automate connector cleaning at the push of a button
- Remove, rather than spread or embed, loose debris from end faces

Applications

- Optical component production environments
- Cable assembly contract manufacturing
- Optical system assembly

Key Features

- Uses a precise non-contact air-solvent-air sequence to blast and remove contamination particles
- Comprehensive selection of precision cleaning tips for most fiber connector types
- High performance air filter system
- Hassle-free solvent management
- Additional connections for secondary air tank, foot activation pedal, backplane handset extension.

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Streamline connector cleaning workflow with a repeatable automated process

CleanBlastPRO ensures that component and connector manufactures can control their cleaning process across all of their production lines by providing a repeatable, automated system that is effective for the wide variety of fiber connector types.

- Dedicated cleaning profiles are optimized for different connector types. Each profile delivers a series of precision air, solvent, and vacuum steps that are fine-tuned to the millisecond for optimal cleaning performance.
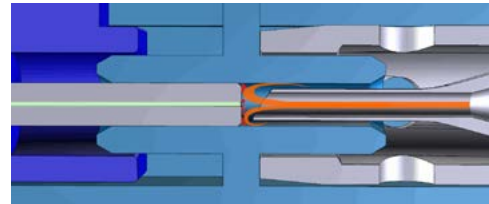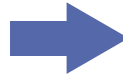

Figure 1a: Select Profile

Figure 1b: Optimized Cleaning Procedure

- CleanBlastPRO features a comprehensive selection of precision cleaning tips for most fiber connector types, male (patch cord), female (bulkhead), PC and APC – including SC, LC, FC, ST, E2000, MPO, MPX, MT, SMA, HMFOC, SN, CS and more. With backwards compatibility to the large selection of FCLT series tips, existing CleanBlast users can leverage their existing investment of cleaning tips.

- Eliminate high-volume consumption of various costly cleaning materials (cloths, clickers, swabs, etc.) that are typically used.

Figure 2: Examples of FCLT Series Cleaning Tips

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New hassle-free management features make deployment and operation easy

The CleanBlastPRO controls are intuitive so that users can easily manage their cleaning profiles and receive information and notifications to ensure system care. With multiple on-board sensors, CleanBlastPRO ensures users are proactively informed of any maintenance needs, eliminating any guesswork or speculation on how to best care for the system.

- On-board LCD screen provides key user information for all operational needs, including managing cleaning profiles, refilling, and upgrading
- Colored LED indicators inform users when system is ready for use or in need of maintenance.
- Fuel gauge indicates amount of solvent available

All interface connections on the CleanBlastPRO are standardized to accept 3rd party connectivity; including the following:

- ¼" input on the base unit (for foot-pedal activation)
- 3.5mm input on the handset (for alternate activation)
- Camera mount attachments on handset (for single-hand operation)
- Standard 12VDC/2A Power Supply

- Spill-proof internal solvent tank ensures easy transport across the room or across the globe, even with a full solvent tank
- Automatic filter drain prevents moisture from collecting in filters in humid environments
- Front-facing ports enable easy solvent refilling of the entire tank in <2 minutes

Built-in sensors ensure the system is refilled sufficiently without overfilling

The new handset gives operators easy accessibility to both male (patch cord) and female (bulkhead) connections, and a front facing light has been added to optimize visibility when inserting. The handset features two configurable buttons (top and bottom) to activate the light and initiate the cleaning process

Accepts existing FCLT series tips

Top Button

Light

Bottom Button

- An optional extension handle is also available for use with backplane applications.

- Additional connections for foot activation pedal, backplane handset extension, USB3 input for device updates

CleanBlastPRO

Specifications

Parameter	Description
Dimensions	8" x 8" x 13" (H x W x D), 203mm x 203mm x 330mm (H x W x D)
Weight	30lbs (with full tank), 13.6 kgs
Power Requirements	12VDC/2A Power Supply (included)
Maintenance	Annual filter change recommended
	Requires 2 air filters (FCLP-FA-F2)
Cleaning Cycle Time	Simplex <1 second
	Multi-Fiber <1.5 seconds

Ordering Information

Description	Part Number
CleanBlastPRO Systems	
CleanBlastPRO System with large internal solvent tank, FCLT-U25 cleaning tip	FCL-PRO-L
Accessories	
Solvent Manual-Refill Cap for CleanBlastPRO	FCLP-RCA-2
Solvent Auto-Refill Cap for CleanBlastPRO	FCLP-RCA-3
Solvent Refill Bottle, 225ml*	FCLP-SOL1
Solvent Refill Bottle, 1 Gallon (3.8L)	FCLP-SOL1-XL
Solvent Refill Bottle, 6-pack, 225ml**	FCLP-SOL1-6
Replacement Air-Intake Filter Kit (contains 2 filters)	FCLP-FA-F2
Exhaust Filter Kit	FCLP-FE-01
Cleaning Tips***	
Universal 2.5 mm bulkhead	FCLT-U25
Universal 2.5 mm patch cord mating adapter	FCLT-U25-MA
Universal 1.25 mm bulkhead	FCLT-U12
Universal 1.25 mm patch cord mating adapter	FCLT-U12-MA

* Small solvent refill bottles available from VIAVI or MicroCare

** Large solvent refill bottles available from VIAVI, MicroCare, or 3M

*** VIAVI has over 300 tips, patch cords, and adapters available for inspecting and cleaning different fiber optic connectors for a variety of different applications. This is not an all-inclusive list, but solutions for the most common connectors and applications. Please contact VIAVI for more information.