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4160 Series TPE Tube Bio Sealer

Introducing the SEBRA® 4160 Series TPE Bio Tubing Sealer: a portable aseptic disconnect device designed for leak-free, permanent seals on thermoplastic tubing to maintain the sterility of your product. This maintenance-free, lightweight yet durable solution, with intuitive design and remote cycle-start activation, can seal wet, dry, or liquid-filled tubes up to 1.0" OD.



The 4160 is modular and interchangeable, catering to both thin and thick-walled TPE tubing.

It comprises the Model 4160 Controller and interchangeable sealing heads, with Model 4161 for thin-wall TPE tubing and Model 4162 for thick-wall TPE tubing.

APPLICATIONS

Used to disconnect thermoplastic elastomer tubing (TPE) such as TuFlux® TPE, C-Flex®, AdvantaFlex®, SaniPure™ BDF, CellGyn®, Flexelene™ 135C, as well as peristaltic pump tubing such as PharMed® BPT and PharmaPure®, on disposable assemblies used in biopharmaceutical manufacturing processes. Individual components of assemblies can be disconnected in a non-sterile environment while maintaining the sterility of the product.

REALIZED BENEFITS

- ✓ **SEAL WET OR DRY**
Is capable of sealing wet, dry, or liquid-filled, in both non-classified and classified environments, all while preserving product sterility.
- ✓ **REMOTE ACTIVATION**
Offers convenience and user flexibility for time sensitive settings.
- ✓ **EFFORTLESSLY PORTABLE**
The sealing heads are lightweight, allowing it to be operated on a table or while hanging. Moreover, its portability enables quick and easy relocation to the desired sterile disconnection location in the suite.
- ✓ **SECURE SEALING**
Offers a wide 10 mm wide seal for reliable disconnection. In addition, an optional visual cut-line can be embedded into the seal ensures operators can easily cut with scissors.
- ✓ **SERVICEABLE**
Detachable head for quick swap-replacement, eliminating the necessity to replace the entire unit.

FEATURES

- Convenient Backlit touchscreen user interface
- Password-protected, user adjustable recipe parameters and configurations
- Integrated safety lock feature to prevent opening during a sealing cycle
- Easy to handle and close sealing heads
- Can be configured to accept compressed air for faster cycle times



Optional Visual Cut Line Capability

MECHANICAL SPECIFICATIONS	4160 CONTROL MODULE	4161 THIN WALL SEALING HEAD	4162 THICK-WALL SEALING HEAD
Dimensions (WxLxH)	9x 16.5 x 6 inches 22.5 x 41 x 15 cm	3x 12.5 x 2 inches 7.5 x 31.5 x 5 cm	3x 13 x 2 inches 7.5 x 32.5 x 5 cm
Operating Weight	14 lbs (5.4 kg)	2.5 lbs (1.13 kg)	2.6 lbs (1.18 kg)

ELECTRICAL SPECIFICATIONS

Power Input	100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz	100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz	100VAC +/-10%, 50-60Hz 115VAC +/-10%, 50-60 Hz 230VAC +/-10%, 50-60 Hz
Main Fuses	(100VAC units) 4A (115VAC units) 4A (230VAC units) 2A	-	-

OPERATING CONDITIONS

Temperature	59° - 95° F (15° -35°C)	59° - 95° F (15° -35°C)	59° - 95° F (15° -35°C)
Humidity	70% maximum relative humidity (non-condensing)	70% maximum relative humidity (non-condensing)	70% maximum relative humidity (non-condensing)

CERTIFICATIONS

CE, RoHS, WEEE

NRTL

cTUVs

TUBING COMPATIBILITY CHART

Can seal from 1/4" up to 1" OD.

SEALING HEAD SELECTOR

TUBING SIZE ID X OD	PUMP SIZE	WALL THICKNESS	RECOMMENDED SEALING HEAD
1/32" x 3/32"		1/32"	Custom
1/16" x 1/8"		1/32"	Custom
1/16" x 3/16"	14	1/16"	Custom
1/8" x 1/4"	16	1/16"	4161
3/16" x 5/16"	3, 25	1/16"	4161
3/16" x 3/8"	15	3/32"	4161
1/4" x 3/8"	17	1/16"	4161
1/4" x 7/16"	24	3/32"	4161
1/4" x 1/2"	26	1/8"	4162
5/16" x 7/16"	18	1/16"	4161
5/16" x 1/2"	35	3/32"	4161
3/8" x 1/2"	96	1/16"	4161
3/8" x 9/16"	36	3/32"	4161
3/8" x 5/8"	73	1/8"	4162
1/2" x 11/16"		3/32"	4161
1/2" x 3/4"	82	1/8"	4162
5/8" x 7/8"		1/8"	4162
3/4" x 1"		1/8"	4162

MANUFACTURING LOCATION: SEBRA 3480 E. Britannia Drive #120 Tucson, AZ 85706
REGIONAL SERVICE DEPOTS: Zurich, Galway, Shanghai and Tokyo

