

# Shiley® Tracheostomy Products

## SHILEY DISPOSABLE CANNULA CUFFED TRACHEOSTOMY TUBES



- 1A. Disposable Cannula Low Pressure Cuffed Tracheostomy Tube (DCT) provides the convenience of a disposable inner cannula for a wide variety of applications.
- 1B. Disposable Cannula Fenestrated Low Pressure Cuffed Tracheostomy Tube (DFEN) offers inner cannula disposability, permitting patient to breathe through upper airway if desired.
- 1C. Disposable Cannula Cuffed Percutaneous Tracheostomy Tube (PERC) is specially designed to work with Cook Percutaneous Tracheostomy Introducer Sets.
  - a. Disposable Inner Cannula (DIC) has integral 15-mm snap-lock connector for quick and safe disposal after a single use.
  - b. Smooth, rounded-tip obturator facilitates insertion.
  - c. Introducer sold separately by Cook Critical Care, Bloomington, IN.
  - d. Disposable Decannulation Plug (DDCP) closes the proximal end of the DCFS, DCFN and DFEN to permit breathing through the fenestration and the upper airway.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
4	4DCT	5.0 mm	9.4 mm	62 mm	1	<b>DCT</b>
6	6DCT	6.4 mm	10.8 mm	74 mm	1	
8	8DCT	7.6 mm	12.2 mm	79 mm	1	
10	10DCT	8.9 mm	13.8 mm	79 mm	1	
4	4DFEN	5.0 mm	9.4 mm	62 mm	1	<b>DFEN</b>
6	6DFEN	6.4 mm	10.8 mm	74 mm	1	
8	8DFEN	7.6 mm	12.2 mm	79 mm	1	
10	10DFEN	8.9 mm	13.8 mm	79 mm	1	
6	6PERC	6.4 mm	10.8 mm	74 mm	1	<b>PERC</b>
8	8PERC	7.6 mm	12.2 mm	79 mm	1	
4	4DIC	4DCT	4DFEN		10	<b>DIC</b>
6	6DIC	6DCT	6DFEN	6PERC	10	
8	8DIC	8DCT	8DFEN	8PERC	10	
10	10DIC	10DCT	10DFEN		10	

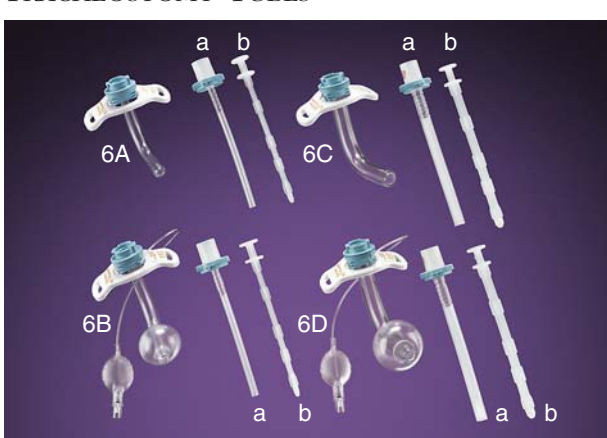
## SHILEY DISPOSABLE CANNULA CUFFLESS TRACHEOSTOMY TUBES



- 2A. Disposable Cannula Cuffless Tracheostomy Tube (DCFS) provides the convenience of a Disposable Inner Cannula for a wide variety of applications.
- 2B. Disposable Cannula Cuffless Fenestrated Tracheostomy Tube (DCFN) allows the convenience of inner cannula disposability, while permitting the patient to breathe through the upper airway if desired.
  - a. Disposable Inner Cannula (DIC) with integral 15-mm snap-lock connector for quick and safe disposal after a single use.
  - b. Smooth, rounded-tip obturator facilitates insertion.
  - c. Disposable Decannulation Plug (DDCP) closes the proximal end of the DCFS, DCFN and DFEN to permit breathing through the fenestration and the upper airway.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
4	4DCFS	5.0 mm	9.4 mm	62 mm	1	<b>DCFS</b>
6	6DCFS	6.4 mm	10.8 mm	74 mm	1	
8	8DCFS	7.6 mm	12.2 mm	79 mm	1	
10	10DCFS	8.9 mm	13.8 mm	79 mm	1	
4	4DCFN	5.0 mm	9.4 mm	62 mm	1	<b>DCFN</b>
6	6DCFN	6.4 mm	10.8 mm	74 mm	1	
8	8DCFN	7.6 mm	12.2 mm	79 mm	1	
10	10DCFN	8.9 mm	13.8 mm	79 mm	1	
4	4DIC	4DCFS	4DCFN		10	<b>DIC</b>
6	6DIC	6DCFS	6DCFN		10	
8	8DIC	8DCFS	8DCFN		10	
10	10DIC	10DCFS	10DCFN		10	

## SHILEY DISPOSABLE CANNULA TRACHEOSOFT® XLT EXTENDED-LENGTH TRACHEOSTOMY TUBES



- Choice of distal or proximal extensions to fit unusual anatomies.
  - Flexible inner and outer cannula further improve fit.
  - High-volume, low-pressure cuff meets all published cuff criteria.
- 6A. Extended-Length, Cuffless Tracheostomy Tube with extra length in proximal portion.
  - 6B. Extended-Length, Cuffed Tracheostomy Tube with extra length in proximal portion.
  - 6C. Extended-Length, Cuffless Tracheostomy Tube with extra length in distal portion.
  - 6D. Extended-Length, Cuffed Tracheostomy Tube with extra length in distal portion.
- a. Extended-Length, Disposable Inner Cannula with integral 15-mm twist-lock connector for quick and safe disposal after single use.
  - b. Smooth, rounded-tip obturator facilitates insertion.

Description	Catalog Number									
EXTENSION	I.D.	O.D.	TOTAL LENGTH	PROXIMAL LENGTH	RADIAL LENGTH	DISTAL LENGTH	CUFFED	CUFFLESS	DISPOSABLE INNER CANNULA	
Distal	5.0 mm	9.6 mm	90 mm	5.0 mm	37.0 mm	48.0 mm	50XLTCD	50XLTUD	50XLTIN	
Proximal	5.0 mm	9.6 mm	90 mm	20.0 mm	37.0 mm	33.0 mm	50XLTCP	50XLTUP	50XLTIN	
Distal	6.0 mm	11.0 mm	95 mm	8.0 mm	38.0 mm	49.0 mm	60XLTCD	60XLTUD	60XLTIN	
Proximal	6.0 mm	11.0 mm	95 mm	23.0 mm	38.0 mm	34.0 mm	60XLTCP	60XLTUP	60XLTIN	
Distal	7.0 mm	12.3 mm	100 mm	12.0 mm	39.0 mm	49.0 mm	70XLTCD	70XLTUD	70XLTIN	
Proximal	7.0 mm	12.3 mm	100 mm	27.0 mm	39.0 mm	34.0 mm	70XLTCP	70XLTUP	70XLTIN	
Distal	8.0 mm	13.3 mm	105 mm	15.0 mm	40.0 mm	50.0 mm	80XLTCD	80XLTUD	80XLTIN	
Proximal	8.0 mm	13.3 mm	105 mm	30.0 mm	40.0 mm	35.0 mm	80XLTCP	80XLTUP	80XLTIN	

Tracheostomy tubes 1/box, disposable inner cannula 10/box. Supplied with both cotton will tape and adjustable tracheostomy tube holder (TTH).

For detailed product information, refer to "Directions For Use" in each product package.

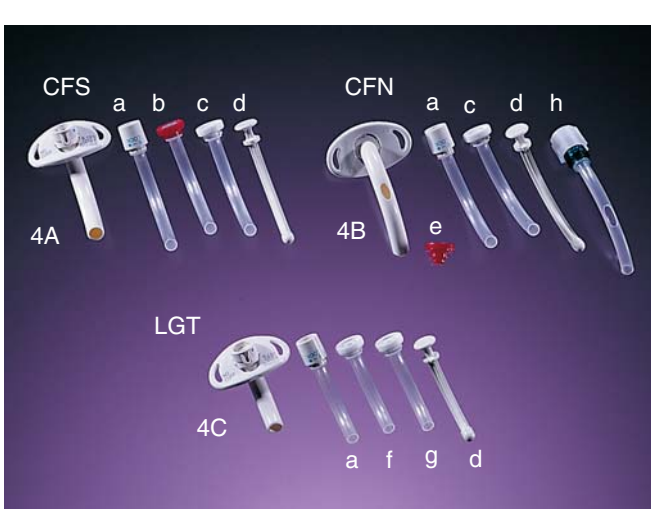
## SHILEY LOW PRESSURE CUFFED TRACHEOSTOMY TUBES



- 3A. Low Pressure Cuffed Tracheostomy Tube (LPC) protects delicate tissue with its cylindrical cuff and is manufactured of high-quality, compliant material that softens at body temperature.
- 3B. Fenestrated Low Pressure Cuffed Tracheostomy Tube (FEN) allows for weaning of patient from tube by facilitating upper airway breathing.
  - a. Decannulation Plug (DCP) is connected to the outer cannula to permit upper airway breathing.
  - b. Inner Cannula with integral 15-mm twist-lock connector permits connection of ancillary equipment and is translucent for easy inspection.
  - c. Smooth, rounded-tip obturator facilitates insertion.
  - d. Fenestrated Inner Cannula with green 15-mm connector and white 15-mm cap.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
4	4LPC	5.0 mm	9.4 mm	65 mm	1	<b>LPC</b>
6	6LPC	6.4 mm	10.8 mm	76 mm	1	
8	8LPC	7.6 mm	12.2 mm	81 mm	1	
10	10LPC	8.9 mm	13.8 mm	81 mm	1	
4	4FEN	5.0 mm	9.4 mm	65 mm	1	<b>FEN</b>
6	6FEN	6.4 mm	10.8 mm	76 mm	1	
8	8FEN	7.6 mm	12.2 mm	81 mm	1	
10	10FEN	8.9 mm	13.8 mm	81 mm	1	

## SHILEY CUFFLESS TRACHEOSTOMY TUBES



- 4A. Cuffless Tracheostomy Tube (CFS) is designed for general pulmonary hygiene and for use with spontaneously breathing patients.
- 4B. Cuffless Fenestrated Tube (CFN) is designed for pulmonary hygiene and, when used in conjunction with the Decannulation Plug (DCP), directs breathing through the upper airway.
- 4C. Laryngectomy Tube (LGT) is made with high-quality, compliant material, and is a comfortable, convenient alternative to metal tubes.
  - a. Inner Cannula with integral 15-mm twist-lock connector permits connection of ancillary equipment and is translucent for easy inspection.
  - b. Inner Cannula with closed lumen and low-profile connector is supplied with the CFS and directs breathing through the upper airway.
  - c. Cannula with open lumen and low-profile connector reduces bulk at stoma. (Caution: Low profile inner cannula is not adaptable to ventilator equipment.)
  - d. Smooth, rounded-tip obturator facilitates insertion.
  - e. Decannulation Plug (DCP) closes the proximal end of the CFN to permit breathing through the fenestration and upper airway.
  - f. Inner Cannula with low-profile connectors to reduce bulk at stoma.
  - g. Fenestrated Inner Cannula with green 15-mm connector and white 15-mm cap.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
4	4CFS	5.0 mm	9.4 mm	65 mm	1	<b>CFS</b>
6	6CFS	6.4 mm	10.8 mm	76 mm	1	
8	8CFS	7.6 mm	12.2 mm	81 mm	1	
10	10CFS	8.9 mm	13.8 mm	81 mm	1	
4	4CFN	5.0 mm	9.4 mm	65 mm	1	<b>CFN</b>
6	6CFN	6.4 mm	10.8 mm	76 mm	1	
8	8CFN	7.6 mm	12.2 mm	81 mm	1	
10	10CFN	8.9 mm	13.8 mm	81 mm	1	
6	6LGT	6.4 mm	11.1 mm	50 mm	1	<b>LGT</b>
8	8LGT	7.6 mm	12.6 mm	50 mm	1	
10	10LGT	8.9 mm	13.7 mm	50 mm	1	

## SHILEY PEDIATRIC & NEONATAL TRACHEOSTOMY TUBES



- All Shiley Neonatal and Pediatric Tracheostomy Tubes have a recessed area behind the connector to provide greater comfort.
- The Neonatal Tracheostomy Tube (NEO) features a lower flange angle to improve fit.
- The Long Pediatric Tracheostomy Tube (PDL) offers a longer cannula to fit larger pediatric patients.
- The economical Cuffed Pediatric Tracheostomy Tube (PDC) and the Cuffed Long Pediatric Tracheostomy Tube (PLC) feature gentle cylindrical cuffs.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
3.0	3.0 NEO	3.0 mm	4.5 mm	30 mm	1	<b>NEO</b>
3.5	3.5 NEO	3.5 mm	5.2 mm	32 mm	1	
4.0	4.0 NEO	4.0 mm	5.9 mm	34 mm	1	
4.5	4.5 NEO	4.5 mm	6.5 mm	36 mm	1	
3.0	3.0 PED	3.0 mm	4.5 mm	39 mm	1	<b>PED</b>
3.5	3.5 PED	3.5 mm	5.2 mm	40 mm	1	
4.0	4.0 PED	4.0 mm	5.9 mm	41 mm	1	
4.5	4.5 PED	4.5 mm	6.5 mm	42 mm	1	
5.0	5.0 PED	5.0 mm	7.1 mm	44 mm	1	
5.5	5.5 PED	5.5 mm	7.7 mm	46 mm	1	
5.0	5.0PDL	5.0 mm	7.1 mm	50 mm	1	<b>PDL</b>
5.5	5.5PDL	5.5 mm	7.7 mm	52 mm	1	
6.0	6.0PDL	6.0 mm	8.3 mm	54 mm	1	
6.5	6.5PDL	6.5 mm	9.0 mm	56 mm	1	
4.0	4.0PDC	4.0 mm	5.9 mm	41 mm	1	<b>PDC</b>
4.5	4.5PDC	4.5 mm	6.5 mm	42 mm	1	
5.0	5.0PDC	5.0 mm	7.1 mm	44 mm	1	
5.5	5.5PDC	5.5 mm	7.7 mm	46 mm	1	
5.0	5.0PLC	5.0 mm	7.1 mm	50 mm	1	<b>PLC</b>
5.5	5.5PLC	5.5 mm	7.7 mm	52 mm	1	
6.0	6.0PLC	6.0 mm	8.3 mm	54 mm	1	
6.5	6.5PLC	6.5 mm	9.0 mm	56 mm	1	



## SHILEY SINGLE-CANNULA TRACHEOSTOMY TUBE



6. Single-Cannula Cuffed Tracheostomy Tube (SCT) available in a wide range of sizes for special applications. Includes smooth, rounded-tip obturator to facilitate insertion.

SIZE	PRODUCT DESIGNATION	I.D.	O.D.	LENGTH	QUANTITY/ BOX	
5.0	5SCT	5.0 mm	7.0 mm	58 mm	1	<b>SCT</b>
6.0	6SCT	6.0 mm	8.3 mm	67 mm	1	
7.0	7SCT	7.0 mm	9.6 mm	80 mm	1	
8.0	8SCT	8.0 mm	10.9 mm	89 mm	1	
9.0	9SCT	9.0 mm	12.1 mm	99 mm	1	
10.0	10SCT	10.0 mm	13.3 mm	105 mm	1	

## SHILEY CUSTOM TRACHEOSTOMY TUBE SERVICE MEETS YOUR SPECIAL NEEDS

Unusual lengths, cuffs, fenestrations or inflation lines, no matter what you need, our Custom Tracheostomy Tube Service can make the right tube to fit your patients. Custom tube ordering templates available for your convenience. Express services available.



# Shiley®

## Tracheostomy Products

### A Quick Reference Guide To

## NELCOR SOLUTIONS FOR PATIENT CARE.

Nellcor is dedicated to developing innovative, clinically relevant medical products with an emphasis on quality and reliability. Our products contribute to patient care in every type of healthcare setting.

- Airway Management Products
- Mallinckrodt® Endotracheal Tubes
- Shiley® Tracheostomy Products
- DAR® Anesthesia and Respiratory Supplies
- Temperature Management Systems
- Nellcor® Pulse Oximetry Monitors and Sensors

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## SHILEY ACCESSORIES



10a. Disposable Inner Cannula (DIC) with integral 15-mm snap-lock connector, individually sterile packaged for patient protection, required for use with DCT, DFEN, PERC, DCFS and DCFN.  
10b. Spare Inner Cannula (SIC) with red, color-coded twist-lock connector, for temporary use during cleaning or removal of the inner cannula of Shiley® Tracheostomy Tubes, product designation LPC, FEN, CFS and CFN.

10c. Fenestrated Disposable Inner Cannula (DIC-FEN) is for use with DCFN and DFEN tracheostomy tubes.  
10d. White 15-mm cap attaches to the Fenestrated Inner Cannula with green 15-mm connector to permit breathing through the fenestration and upper airway.  
10e. Decannulation Plug (DCP) closes the proximal end of the FEN and CFN tubes to permit breathing through the fenestration and upper airway.  
10f. Disposable Decannulation Plug (DDCP) closes the proximal end of the DCFS, DCFN and DFEN to permit breathing through the fenestration and upper airway.

SIZE	PRODUCT DESIGNATION	FOR USE WITH				QUANTITY/BOX	
4	4DIC	4DCT	4DFEN	4DCFS	4DCFN	10	DIC
6	6DIC	6DCT	6DFEN	6DCFS	6DCFN	10	
8	8DIC	8DCT	8DFEN	8DCFS	8DCFN	10	
10	10DIC	10DCT	10DFEN	10DCFS	10DCFN	10	
4	4SIC	4LPC	4FEN	4CFN	4CFS	10	SIC
6	6SIC	6LPC	6FEN	6CFN	6CFS	10	
8	8SIC	8LPC	8FEN	8CFN	8CFS	10	
10	10SIC	10LPC	10FEN	10CFN	10CFS	10	
4	4DICFEN	4DFEN	4DCFN			10	DIC-FEN
6	6DICFEN	6DFEN	6DCFN			10	
8	8DICFEN	8DFEN	8DCFN			10	
10	10DICFEN	10DFEN	10DCFN			10	
4	4DCP	4FEN	4CFN			10	DCP
6	6DCP	6FEN	6CFN			10	
8	8DCP	8FEN	8CFN			10	
10	10DCP	10FEN	10CFN			10	
	DDCP	Any size DCFS, DCFN and DFEN tracheostomy tube.				10	DDCP
	CAP	Any size FEN and CFN tracheostomy tube.				10	CAP

## SHILEY PHONATE® SPEAKING VALVE

Designed for use on alert, awake tracheostomy patients who can breathe without assisted mechanical ventilation. Connects to 15mm connector on tracheostomy tube. Directs airflow past the vocal cords, giving patients the ability to speak without finger occlusion.



## STRONGHOLD® ANTI-DISCONNECT DEVICE

Eliminates accidental disconnection at the tracheostomy tube site without restricting movement of swivel-type adapters. Adult and pediatric styles available.



## SHILEY ADULT AND PEDIATRIC TRACHEOSTOMY HOMECARE GUIDES AND VIDEOS

Valuable information for patients and caregivers. Guides are in English or Spanish. Video is English only.

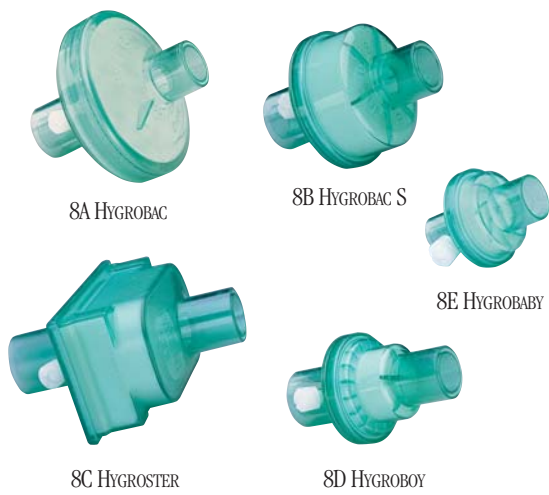
## SHILEY TRACHEOSTOMY TUBE HOLDER

A convenient alternative to twill tape, the tube holder is made of a soft material with a wide band to promote better skin care and patient comfort. Fits adult through pediatric patients, up to 18" neck size. Single-patient use; latex-free.



DESCRIPTION	PRODUCT DESIGNATION	QUANTITY/BOX
11a. • Phonate Speaking Valve with O <sub>2</sub> Port. For use with low flow oxygen.	SSVO	1
• Phonate Speaking Valve.	SSV	1
11b. Shiley Tracheostomy Tube Holder. For pediatric and adult, neck size to 18"	TTH	10
11c. • Stronghold Anti-Disconnect Device. For Shiley dual cannula adult tracheostomy tubes with soft-swivel neck flange (not for use with XLT).	SSDD	20
• Stronghold Anti-Disconnect Device. For Shiley pediatric and neonatal tracheostomy tubes.	PDD	20

## DAR™ FILTER/HMES



8A. Hygrobac™ is designed for adults with tidal volume between 300 and 1500 mL. Electrostatic filter membrane.  
8B. Hygrobac S™ is a compact version of the Hygrobac with only 49 mL dead space. Electrostatic filter membrane.

8C. Hygroster® features mechanical filter membrane and is designed for adults with tidal volume between 300 and 1500 mL.  
8D. Hygroboy™ meets the needs of patients with tidal volume between 75 and 300 mL. Electrostatic filter membrane.  
8E. Hygrobaby™ is designed for infants or neonates with tidal volume between 30 and 100 mL. Electrostatic filter membrane.

Catalog Number	Hygrobac™		Hygrobac S™		Hygroboy™		Hygrobaby™		Hygroster®	
	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp
352U5805										
352U5877										
355U5430										
355U5427										
354U5876										
Moisture Output and Temp @ 2 hrs (ISO 9360)										
Vt 50 mL	--	--	--	--	--	--	30.0	30.2°C	--	--
Vt 250 mL	33.9	32.0°C	34.4	32.5°C	32.3	31.6°C	--	--	34.7	32.3°C
Vt 500 mL	33.3	32.1°C	33.6	32.3°C	--	--	--	--	34.1	33.2°C
Vt 750 mL	--	--	30.1	30.6°C	--	--	--	--	--	--
Vt 1000 mL	32.4	32.2°C	32.9	32.2°C	--	--	--	--	33.4	32.4°C
Resistance to Flow at: (ISO 9360)										
5 L/min	--	--	--	--	--	--	0.6 cm H <sub>2</sub> O	--	--	--
20 L/min	--	--	--	--	1.4 cm H <sub>2</sub> O	--	--	--	--	--
30 L/min	0.9 cm H <sub>2</sub> O	--	1.0 cm H <sub>2</sub> O	--	2.6 cm H <sub>2</sub> O	--	--	--	0.8 cm H <sub>2</sub> O	--
60 L/min	2.1 cm H <sub>2</sub> O	--	2.8 cm H <sub>2</sub> O	--	--	--	--	--	2.5 cm H <sub>2</sub> O	--
90 L/min	3.6 cm H <sub>2</sub> O	--	4.7 cm H <sub>2</sub> O	--	--	--	--	--	2.8 cm H <sub>2</sub> O	--
Filtration Efficiency**										
Bacterial	99.999%	--	>99.99%	--	99.999%	--	99.999%	--	99.99999%	--
Viral	99.999%	--	>99.99%	--	>99.99%	--	>99.99%	--	>99.999%	--
Dead Space†	90 mL	--	49 mL	--	26 mL	--	10 mL	--	96 mL	--
Weight (approx.)	50 g	--	28 g	--	21 g	--	9 g	--	49 g	--
Type of Filtration	Electrostatic	--	Electrostatic	--	Electrostatic	--	Electrostatic	--	Mechanical	--

DAR Filter/HMES protect against microbes as small as 0.02 µ.

## SHILEY/DAR HMES



9A. Tracheolife™ II warms and humidifies air for spontaneously breathing tracheostomy patients. Built-in oxygen port.  
9B. HygroLife™ features an end-tidal CO<sub>2</sub> sampling port.  
9C. FlexLife™ is a compact HME with an integral extendible connector to simplify setup.

Catalog Number	Tracheolife™ II		HygroLife™		FlexLife™	
	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp	mg H <sub>2</sub> O/L	Temp
353U19004						
353U5413						
353U5908						
Moisture Output and Temp @ 2 hrs (ISO 9360)						
Vt 50 mL	--	--	28.8	29.4°C	28.5	29.0°C
Vt 250 mL	28.5	29.0°C	29.5	30.0°C	20.3	29.0°C
Vt 500 mL	--	--	31.2	30.8°C	29.7	30.4°C
Vt 1000 mL	--	--	30.4	30.9°C	29.6	30.4°C
Resistance to Flow at: (ISO 9360)						
30 L/min			0.7 cmH <sub>2</sub> O		0.5 cmH <sub>2</sub> O	
60 L/min			1.8 cmH <sub>2</sub> O		1.1 cmH <sub>2</sub> O	
90 L/min			3.0 cmH <sub>2</sub> O		2.0 cmH <sub>2</sub> O	
Dead Space†			16 mL		36 mL	
Weight (approx.)			8.5 g		24 g	

## SHILEY/DAR ACCESSORIES FOR FILTERS & HMES



10A. Extension Tube moves connection away from face and provides excellent flexibility while maintaining inner lumen diameter. Catalog Number 332U5115.  
10B. Double-Swivel Connector connects to face mask or tracheal tube and allows for patient movement. Catalog Number 610U5257.  
10C. Extendible Extension Tube extends from 4 cm to 13 cm and holds shape for better positioning of the Extendible Circuit. Catalog Number 332U5663. Also available sterile. Catalog Number 332U5663.  
10D. Double-Swivel Connector with Extendible Tube has port with cap to allow insertion of suction catheter or bronchoscope. Combination swivels to permit patient movement and helps position breathing circuit. Catalog Number 331U5661.

Description	Catalog No.	Box/Case Qty.
Tracheolife II	353U19004	25
HygroLife	353U5413	50
FlexLife	353U5908	25
Extension Tube	332U5115	25
Double-Swivel Connector	610U5257	50
Extendible Extension Tube	332U5663	25
Extendible Extension Tube (Sterile)	332U5663	25
Double-Swivel Connector w/Extendible Extension Tube	331U5661	25

\* Shown here with Double-Swivel Connector with Extendible Tube. Catalog #331U5661.

\*\* Data from Nelson Laboratories, Salt Lake City, Utah: A value of ">99.99" is reported when no colonies are detected on any of the Andersen sampler plates. The actual experimental value is 100%. (Products tested: Hygrobac, Hygrobac S, Hygroster, Sterivent, Sterivent S, Barrierbac and Barrierbac S.)

† Connectors included — ISO9360