

- AFT1 Disposable Bacterial Filter**
22mm ID/OD; designed to remove airborne bacteria; for use between the TSD117 and the AFT2.
- AFT2 Disposable Mouthpiece**
22mm OD; connects to the TSD117 via the AFT1.
- AFT3 Disposable Noseclip**
Gently squeezes the nostrils shut.
- AFT4 Disposable Bacterial Filter**
Designed to remove airborne bacteria; for use with the TSD107B, connects between the AFT7 and the AFT9. (35mm ID/35mm OD)
- AFT6 Calibration Syringe**
0.6 Liter Calibration syringe.
- AFT7 Smooth Bore Tubing**
1 meter length, 35mm ID; connects to the TSD107B.
- AFT8 Autoclavable Mouthpiece**
30mm ID; interfaces with the TSD117 and reduces the cost of disposable parts.
- RX117 Replacement Sterilizable Airflow Head**
22mm ID/30mm OD; autoclavable transducer head for the TSD117; can be used with the AFT8 to reduce the cost of disposable items.
- AFT 9 Reusable Mouthpiece**
35mm ID; designed to connect to the TSD107B with the AFT7 via the AFT4. (Also connects to the AFT21 Non-rebreathing T Valve.)
- AFT10 Disposable Adult Facemask**
These mouthpieces connect to 22mm breathing circuits. Connects directly to the AFT1, AFT22 non-rebreathing T valve or TSD117 air flow transducer (via AFT11B coupler). Includes hook-ring to secure AFT10S adjustable head strap. (22mm ID/25mm OD)
- AFT10S Adjustable Head Strap**
This fully adjustable latex head strap holds the AFT10 disposable facemask securely to the subject's head. Use one or more straps to securely fasten the mask.

*** See the AFT part guides on pages 13 and 135 for common applications. ***

AFT11 Couplers

AFT11A Flexible

AFT11B Rigid

AFT11C Rigid

AFT11D Flexible

AFT11E Flexible



These couplers are very useful for connecting up a variety of air flow port IDs and ODs to transducers, tubing and calibration syringes. Pick the AFT11 Series coupler that matches the port sizes you want to interface.

AFT11 Series Coupler Guide

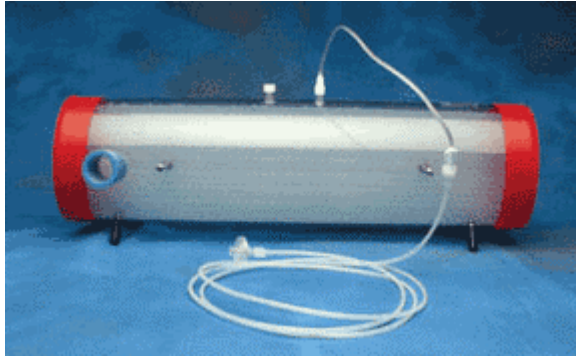
<u>Item 1</u>		<u>Item 2</u>		<u>Coupler</u>
15mm	OD	22 mm	ID	AFT11B
20mm	OD	22 mm	ID	AFT11B
22 mm	ID	15mm	OD	AFT11B
		20mm	OD	AFT11B
		22mm	ID	AFT11B
22mm	OD	22mm	OD	AFT11C
		25 mm	ID	AFT11C
22-25mm	OD	22mm	OD	AFT11E
		25 mm	ID	AFT11E
25mm	ID	25 mm	ID	AFT11C
25-30 mm	OD	25-30mm	OD	AFT11A
		28-35mm	ID	AFT11A
28-35 mm	ID	25-30mm	OD	AFT11A
		35mm	ID	AFT11A
35mm	ID	28-35mm	ID	AFT11A
		38mm	ID	AFT11E
35-38mm	ID	22-25 mm	OD	AFT11E
35-38mm	OD	35-38 mm	OD	AFT11D

AFT12 Tubing (22mm)

For use in 22mm breathing circuits. (1.8 meter length, 22mm ID)

***** See the AFT part guide on page 135 for additional applications. *****

AFT15 Mixing Chambers



AFT15A/B mixing chambers incorporate dual baffles and flexible connection ports capable of interfacing with 35mm or 22mm breathing circuits.

Two female Luer connection ports are provided between the baffles for the monitoring of O₂ and CO₂ concentrations simultaneously.

AFT15A — 5 Liter

Use for demanding expired gas analysis measurements (e.g. O₂ or RER measurements).

Dimensions: 13cm (dia) x 47cm (long)

Coupling Ports: 35mm OD, 25mm ID

AFT15B — 8 Liter

Use for very high volume and rate expired gas analysis measurements (e.g. O₂ or RER measurements).

Dimensions: 13cm (dia) x 73cm (long)

Coupling Ports: 35mm OD, 25mm ID

AFT 20 Gas sampling Interface kit



Modules with the TSD107B or TSD117 Airflow Transducer bracket. Includes 30cm Nafion© water vapor tubing with M/F Luer connector; 30cm Nafion© water vapor tubing with M/F Luer connector; 30cm Nafion© water vapor tubing with M/F Luer connector; 30cm Nafion© water vapor tubing with M/F Luer connector.

Typically, the AFT20 connects the CO2100C or O2100C directly to the sampling port of a mixing chamber. The AFT20 also permits sampling connections to the Non-rebreathing “T” Valves (AFT21 or AFT22).

AFT21 Non-Rebreathing “T” Valve (Female)

The non-rebreathing “T” valve incorporates a gas sampling port for interfacing with the AFT20. All ports are 35mmOD. The gas sampling port is a Female Luer connector.

Includes: 35mm OD coupler *Requires:* AFT4, AFT7, and AFT9 for proper operation.

AFT22 Non-Rebreathing “T” Valve (Male)

The non-rebreathing “T” valve incorporates a gas sampling port for interfacing with the AFT20. All ports are 22mmOD. The gas sampling port is a Male Luer connector.

Includes: 22mm OD coupler *Requires:* AFT1 and AFT2 for proper operation.

***** See the AFT part guides on pages 132 and 135 for common applications. *****

AFT24 Head Support



The AFT24 is a head support when breathing directly into the AFT21 non-rebreathing T valve for exercise physiology measurements. The AFT21 is secured directly in front of the subject and minimizes the strain associated with the weight of valves and tubing.

AFT25 Facemask with Valve

This adult facemask with integral non-rebreathing T valve is a high performance, very low dead space, low air flow resistance mask and valve; suitable for high air flow applications (e.g. exercise physiology). The AFT25 incorporates two gas sampling ports (female Luer) for interfacing with the AFT20 Gas Sampling Kit. All ports are 35mm OD, 28mm ID.



Part Summary for Typical Air Flow / Gas Analysis Applications

Pulmonary Function

Part #	High Flow <i>Exercising human</i>	Med. Flow <i>Resting human</i>	Low Flow <i>Child, Pig, Dog</i>	Very Low Flow <i>Small Animals</i>
AFT2 Mouthpiece		X		
AFT3 Noseclip	X	X		
AFT6 Calibration Syringe	X	X	X	
AFT7 Tubing	X (2)			
AFT9 Mouthpiece	X			
AFT21 T Valve	X			
AFT24 Head Support	X (optional)			
AC137 In-line Transformer				
DA100C Amplifier	X (2)	X	X	X
TSD107B Pneumotach (High)	X (2)			X
TSD117 Pneumotach (Med.)		X		
TSD127 Pneumotach (Low)			X	
TSD137 A-E Pneumotachs (Very Low)				X (by size)

Part Options: AFT25 = AFT21 + AFT9 + AFT3 + optional AFT24

AFT2 + AFT3 = AFT0 + AFT11B

Exercise Physiology

Part #	Mixed Expiratory Gases		Breath-by-Breath		
	High Flow <i>Exercising human</i>	Med. Flow <i>Resting human</i>	High Flow <i>Exercising human</i>	Med. Flow <i>Resting human</i>	Low Flow <i>Dog</i>
AFT6 Calibration Syringe	X	X	X	X	X
AFT7 Tubing	X (2)		X		
AFT10 Facemask		X		X	
AFT10S Head Strap		X		X	
AFT11 Series Couplers		X (3)*		X	X (2)**
AFT12 Tubing		X (2)		X	
AFT15A Mixing Chamber	X	X			
AFT20 Interface Kit	X (2)	X (2)	X (2)	X	X (2)
AFT22 T Valve		X		X	X
AFT25 Facemask w/Valve	X		X		
DA100C Amplifier	X	X	X	X	X
CO2100C CO2 Module	X	X	X	X	X
O2100C O2 Module	X	X	X	X	X
TSD107B Pneumotach (High)	X		X		
TSD117 Pneumotach (Med.)		X		X	
TSD127 Pneumotach (Low)					X

Part Options: AFT25 = AFT21 + AFT9 + AFT3 + optional AFT24

* use 2 AFT11B and 1 AFT11C

AFT10 + AFT10S = AFT2 + AFT3 + AFT11C

** use 1 AFT11B and 1 AFT11C

***** See the AFT part guide on page 132 for additional applications. *****