



**COVIDIEN**

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## A Quick Reference Guide To Anesthesia and Respiratory Supplies

## ADULT AND PEDIATRIC COLORIMETRIC CO<sub>2</sub> DETECTORS



- Proven, reliable CO<sub>2</sub> detectors help verify proper ET tube placement during intubation and throughout transport.
- Responds quickly to exhaled CO<sub>2</sub> with a simple color change from purple to yellow.
- Provides breath-to-breath CO<sub>2</sub> detection for up to two hours.
- Adult and Pediatric Colorimetric CO<sub>2</sub> detectors connect to all standard ET tubes.

### Adult and Pediatric Colorimetric CO<sub>2</sub> Detectors

Specifications	Adult	Pediatric
Recommended patient size	Weight over 15 kg	Weight 1 kg to 15 kg
Internal volume (dead space)	25 cc	3 cc
Resistance to flow	3.0 cm H <sub>2</sub> O @ 60 L/min flow	2.5 cm H <sub>2</sub> O ±0.5 cm @ 10 L/min flow
<b>Connector Ports:</b>		
Patient end	22 mm OD/15 mm ID	18 mm OD/15 mm ID
Circuit end	15 mm OD/13 mm ID	15 mm OD/5 mm ID
<b>Catalog Number</b>		
Adult 6	6	
Adult	24	
Pediatric 6	6	
Pediatric	24	

## DAR ELECTROSTATIC SPIROMETRY FILTER

Single-use Spirometry Filter replaces permanent mouthpieces to reduce the risk of cross-contamination. Anatomical shape eliminates the need for additional mouthpiece.



**Catalog Number**                      **500U30022**

Resistance to Flow at: 12 L/sec      1.1 cm H<sub>2</sub>O

Bacterial Filtration Efficiency      >99.9%

Dead Space                                56 mL

Weight (approx.)                        14 g

Type of Filtration                        Hydrophobic, Electrostatic

Box/Case Quantity                      25

## Adapters

Filter End	Machine End	Catalog No.
33F	22F	R001
33F	25F	R002
33F	26F	R003
33F	27F	R004
33F	27.5F	R005
33F	28F	R006
33F	28.5F	R007
33F	29F	R008
33F	29F/33M angled	R009
33F	30F	R010
33F	30.5F	R011
33F	31F	R012
33F	32F	R013
33F	33F	R014
33F	34F	R015

Filter End	Machine End	Catalog No.
33F	35F	R016
33F	40F	R017
33F	44F	R018
33F	45F	R019
33F	22M	R020
33F	24M	R021
33F	27M	R022
33F	28M	R023
33F	29.5M	R024
33F	30M	R025
33F	30.5M	R026
33F	31M	R027
33F	32M	R028
33F	33.5M	R029

## DAR ACCESSORIES FOR FILTERS AND HMEs



EXTENSION TUBE,  
332U5115



DOUBLE-SWIVEL CONNECTOR,  
610U5257



EXTENDIBLE EXTENTION TUBE,  
332U5663



DOUBLE-SWIVEL  
CONNECTOR WITH EXTENDIBLE  
EXTENSION TUBE,  
331U5661

Extension Tube moves connection away from face and provides excellent flexibility while maintaining inner lumen diameter.

Double-Swivel Connector connects to face mask or tracheal tube and allows for patient movement.

Extendible Extension Tube extends from 4 cm to 13 cm and holds shape for better positioning of the breathing circuit. Also available sterile.

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.

### DAR Accessories For Filters and HMEs

Description	Catalog Number	Quantity/Box
Extension Tube	332U5115	25
Double-Swivel Connector	610U5257	50
Extendible Extension Tube	332U5663	25
Double-Swivel Connector w/Extendible Extension Tube	331U5661	25

## DAR™ ELECTROSTATIC FILTER/HMEs

*DAR™ Electrostatic Filter/HMEs feature electrostatic filter membranes.*

The Large Filter/HME is designed for adults with tidal volume between 300 and 1500 mL.

The Small and Small, Angled Port Filters are compact versions of the Large with lower dead space.

The Small, Angled Port has a 90 degree angled port on the machine side and may help to reduce torque on the artificial airway.



LARGE,  
352U5805



SMALL,  
352U5877



SMALL, ANGLED PORT,  
352U5996

## DAR™ PEDIATRIC ELECTROSTATIC FILTER/HMEs

*DAR™ Pediatric Electrostatic Filter/HMEs feature electrostatic filter membranes.*

The Pediatric meets the needs of patients with tidal volume between 75 and 300 mL.

Infant-Pediatric is designed for infants or neonates with tidal volume between 30 and 100 mL.



PEDIATRIC, 355U5430



INFANT-PEDIATRIC, 355U5427

## DAR™ MECHANICAL FILTER/HMEs

*DAR™ Mechanical Filter/HMEs feature mechanical filter membranes.*

The Large Filter/HME is designed for adults with tidal volume between 300 and 1500 mL.

The Small filter/HME is designed for patients with tidal volumes between 200 and 1500 mL.



LARGE, 354U5876



SMALL, 354U19028

**DAR™ Filter/HMEs**

	Large Electrostatic	Small Electrostatic	Small, Angled Port	Pediatric	Infant-Pediatric	Large Mechanical	Small Mechanical
<b>Catalog Number</b>	<b>352U5805</b>	<b>352U5877</b>	<b>352U5996</b>	<b>355U5430</b>	<b>355U5427</b>	<b>354U5876</b>	<b>354U19028</b>
Quantity/Box	50	50	50	50	50	50	50
<b>mg H<sub>2</sub>O/L Moisture Output and Temperature @ 2 hrs (ISO 9360)</b>							
Vt 50 mL	---	---	---	---	30.0	---	---
Vt 250 mL	33.9	34.4	34.4	32.3	---	34.7	33.0
Vt 500 mL	33.3	33.6	33.6	---	---	34.1	31.5
Vt 1000 mL	32.4	32.9	32.9	---	---	33.4	29.6
<b>Resistance to Flow at: (ISO 9360)</b>							
5 L/min	---	---	---	---	0.6 cm H <sub>2</sub> O	---	---
20 L/min	---	---	---	1.6 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	1.2 cm H <sub>2</sub> O	2.6 cm H <sub>2</sub> O	---	0.8 cm H <sub>2</sub> O	1.2 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	2.9 cm H <sub>2</sub> O	---	---	2.5 cm H <sub>2</sub> O	2.7 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	5.2 cm H <sub>2</sub> O	---	---	4.2 cm H <sub>2</sub> O	4.6 cm H <sub>2</sub> O
<b>Filtration Efficiency:</b>							
Bacterial	99.999%	>99.99%	>99.99%	99.999%	99.999%	99.99999%	>99.999%
Viral	99.999%	>99.99%	>99.99%	>99.99%	>99.99%	>99.999%	>99.999%
Dead Space	90 mL	51 mL	61 mL	31 mL	10 mL	96 mL	66 mL
Weight (approx.)	50 g	28 g	29 g	21 g	9 g	49 g	36 g
Type of Filtration	Electrostatic	Electrostatic	Electrostatic	Electrostatic	Electrostatic	Mechanical	Mechanical

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

## DAR™ MECHANICAL FILTER

The Small Filter is one of the smallest filters available. Features high efficiency, low weight and low dead space.

The Compact Filter offers very high filtration efficiency in a compact size.

The Large Filter provides high filtration efficiency and low resistance to flow. *Available with and without gas sampling port.*



SMALL, 351U5979



COMPACT, 351U5878



LARGE, 351U5410/351U5856

## DAR™ ELECTROSTATIC FILTER

The Large Filter offers high filtration efficiency and low resistance to flow. For patients with tidal volume between 300 and 1500 mL.

Small is a compact version of the Large with nearly 1/3 the dead space. Designed for patients with tidal volume between 150 and 1200 mL.

Small, Angled Port provides a lower profile attachment of the ventilator or anesthesia circuit and may reduce torque on the artificial airway and increase patient comfort.



LARGE, 350U5865



SMALL, 350U5879



SMALL, ANGLED PORT, 350U19006

### DAR™ Mechanical Filter

	Small	Compact	Large	Large w/o Gas Sampling Port
<b>Catalog Number</b>	351U5979	351U5878	351U5410	351U5856
Quantity/Box	50	50	50	50
<b>Resistance to Flow at (ISO 9360)</b>				
30 L/min	1.2 cm H <sub>2</sub> O	0.7 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O
60 L/min	2.7 cm H <sub>2</sub> O	1.9 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O
90 L/min	---	3.4 cm H <sub>2</sub> O	3.2 cm H <sub>2</sub> O	3.2 cm H <sub>2</sub> O
<b>Filtration Efficiency:*</b>				
Bacterial	99.99999%	99.9999%	>99.99999%	>99.99999%
Viral	99.997%	>99.99%	>99.99999%	>99.99999%
Dead Space	42 mL	66 mL	92 mL	92 mL
Weight (approx.)	24 g	39 g	47 g	47 g
Type of Filtration	Mechanical	Mechanical	Mechanical	Mechanical

### DAR™ Electrostatic Filter

	Large	Small	Small, Angled Port
<b>Catalog Number</b>	350U5865 (Without end-tidal CO <sub>2</sub> sampling port)	350U5879	350U19006
Quantity/Box	50	50	50
<b>Resistance to Flow at (ISO 9360)</b>			
30 L/min	0.7 cm H <sub>2</sub> O	0.7 cm H <sub>2</sub> O	0.8 cm H <sub>2</sub> O
60 L/min	1.6 cm H <sub>2</sub> O	2.1 cm H <sub>2</sub> O	2.2 cm H <sub>2</sub> O
90 L/min	2.8 cm H <sub>2</sub> O	3.6 cm H <sub>2</sub> O	3.8 cm H <sub>2</sub> O
<b>Filtration Efficiency:*</b>			
Bacterial	>99.999%	>99.99%	>99.99%
Viral	>99.99%	>99.99%	>99.99%
Dead Space	99 mL	37 mL	45 mL
Weight	35 g	19 g	20 g
Type of Filtration	Electrostatic	Electrostatic	Electrostatic

\* 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%.



## DAR™ HMEs

HME for Tracheostomy warms and humidifies air for spontaneously breathing tracheostomy patients. Built-in oxygen port.

Adult-Pediatric HME features a gas sampling port.

Adult-Pediatric HME with Extendible Connector is a compact HME with an integral extendible connector to simplify setup.



HME, 353U19004



ADULT-PEDIATRIC HME, 353U5413



ADULT-PEDIATRIC HME WITH EXTENDIBLE CONNECTOR, 353U5908

## DAR HMEs

	HME	Adult-Pediatric HME	Adult-Pediatric HME with Extendible Connector
<b>Catalog Number</b>	<b>353U19004</b>	<b>353U5413</b>	<b>353U5908</b>
Quantity/Box	25	50	25
<b>mg H<sub>2</sub>O/L Moisture Output and Temperature @ 2 hrs (ISO 9360)</b>			
Vt 250 mL	---	28.8	20.5
Vt 500 mL	28.5 @ 29.0°C	29.5 @ 30.0°C	31.0
Vt 750 mL	---	31.2 @ 30.8°C	29.7
Vt 1000 mL	---	30.4 @ 30.9°C	29.6
<b>Resistance to Flow at (ISO 9360) :</b>			
30 L/min	0.7 cm H <sub>2</sub> O	0.7 cm H <sub>2</sub> O	0.5 cm H <sub>2</sub> O
60 L/min	1.8 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O	1.1 cm H <sub>2</sub> O
90 L/min	3.0 cm H <sub>2</sub> O	3.8 cm H <sub>2</sub> O	2.0 cm H <sub>2</sub> O
Dead Space	16 mL	36 mL	60 mL (compressed) 75 mL (extended)
Weight	8.5 g	24 g	12 g



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10-AW-0461 DR03599

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