

# Merkur<sup>®</sup> ES

## Parts Breakout



- 1** 24C853 G15 Air-Assist Gun  
 24C855 G40 Air-Assist Gun  
 235460 Silver Plus Airless Gun

- 4** 15T499 Air Regulator  
 108190 Regulator Gauge

### REPAIR KITS

- 24H006 Plated Steel Pump Repair Kit  
 24G705 SST Pump Repair Kit  
 24A537 Air Valve Repair Kit

### ACCESSORIES

- 24F147 Suction Tube for 1 Gallon (3.8 l) Pail  
 24F271 Stainless Steel Inline Fluid Filter  
 24F272 Plated Steel Inline Fluid Filter  
 193199 Gauge Lens Covers  
 24H005 Hose Clips – Pack of 7

- 2**  
 241811 25 ft (7.5 m) Air Hose  
 24F165 25 ft (7.5 m) Fluid Hose with Plated Steel Fittings  
 24F166 25 ft (7.5 m) Fluid Hose with SST Fittings

- 3**  
 24F160 Suction Strainer – Pack of 3

# SPRAY TIP SELECTION CHART

## AAM Air-Assist Spray Tip Selection Chart

Fine Finish Tips recommended for *high finish quality* applications at *low and medium pressures*.

Order desired tip (part no. AAMxxx) from matrix below. xxx = 3 digit number below Maximum Pattern Width. (Example: AAM409)

Orifice Size in (mm)	Fluid Output, fl oz/min (lpm)		Maximum Pattern Width at 12 in (300 mm)								
	at 600 psi (4.1 MPa, 41 bar)	at 1000 psi (7.0 MPa, 70 bar)	2 to 4 (100)	4 to 6 (150)	6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)	14 to 16 (400)	16 to 18 (450)	18 to 20 (500)
0.007 (0.178)	4.0 (0.1)	5.2 (0.15)		207	307						
0.009 (0.229)	7.0 (0.2)	9.1 (0.27)	109	209	309	409	509				
0.011 (0.279)	10.0 (0.3)	13.0 (0.4)	111	211	311	411	511	611			
0.013 (0.330)	13.0 (0.4)	16.9 (0.5)		213	313	413	513	613	713		
0.015 (0.381)	17.0 (0.5)	22.0 (0.7)		215	315	415	515	615	715	815	
0.017 (0.432)	22.0 (0.7)	28.5 (0.85)		217	317	417	517	617	717	817	917
0.019 (0.483)	28.0 (0.8)	36.3 (1.09)		219	319	419	519	619	719	819	919

## AAF Air-Assist Fine Finish Pre-Orifice Spray Tip Selection Chart

Fine Finish Tips recommended for *high finish quality* applications at *low and medium pressures*. AAF tips have a pre-orifice which assists in atomizing shear thinning materials, including waterbornes and lacquers.

Order desired tip (part no. AAFxxx) from matrix below.

Orifice Size in (mm)	Fluid Output, fl oz/min (lpm)		Maximum Pattern Width at 12 in (305 mm)				
	at 600 psi (4.1 MPa, 41 bar)	at 1000 psi (7.0 MPa, 70 bar)	6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)	14 to 16 (400)
0.011 (0.279)	9.5 (0.28)	12.5 (0.37)	310	410	510	610	710
0.013 (0.330)	12.0 (0.35)	16.0 (0.47)	312	412	512	612	712
0.015 (0.381)	16.0 (0.47)	21.0 (0.62)		414	514	614	714
0.017 (0.432)	20.0 (0.59)	26.5 (0.78)		416	516	616	716

## 163xxx Silver Fine Finish Spray Tip Selection Chart

Order desired tip (part no. 163xxx) from matrix below.

Fan Width in (mm)	Orifice Size in (mm)						
	0.007 (0.178)	0.009 (0.228)	0.011 (0.280)	0.013 (0.330)	0.015 (0.381)	0.017 (0.432)	0.019 (0.483)
2-4 (51-102)	107	109	111	113	115	117	119
4-6 (102-152)	207	209	211	213	215	217	219
6-8 (152-203)	307	309	311	313	315	317	319
8-10 (203-254)	407	409	411	413	415	417	419
10-12 (254-305)		509	511	513	515	517	519
12-14 (305-356)		609	611	613	615	617	619
14-16 (356-406)			711	713	715	717	719
16-18 (406-457)				813	815	817	819
18-20 (457-508)						917	919
Flow Rate gpm (lpm)	0.053 (0.20)	0.087 (0.33)	0.13 (0.49)	0.18 (0.69)	0.24 (0.91)	0.31 (1.17)	0.39 (1.47)

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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