

Product Info
High Pressure Equipment

HIGH PRESSURE

Finishing Equipment & Accessories



ECCO
ECCO FINISHING

MORE QUALITY PRODUCTION TIME

ECCO Finishing AB provides products that ensures "more quality production time" to our end users. We provide world class finishing products to answer to the most demanding applications.

HOW?

Our products are built for productivity and are made of high quality materials.

Therefore, we have proven that we can help provide:

- *Better transfer efficiency of our spray guns*
- *Great atomizing quality*
- *More reliability of our products due to their special design*
- *Reduced down time in production*
- *Reduced maintenance costs*
- *Ensure technical support in case you need it*

QUALITY

ECCO Finishing AB is located in Skara, Sweden, and have technical designers with extensive experience of developing products of the highest quality. We develop new products in close co-operation with the most demanding customers world wide.

ECCO Finishing AB was founded 1931, almost 80 years ago which ensures great experience and know-how in the industry and to our customers demands. In addition, ECCO Finishing AB is qualified as an Environmental and Quality Management System and is registered by SEMKO Certification AB, as confirming the requirements of SS-EN ISO 9001/14001 by the NTERTEK Institute.



ECCO HIGH PRESSURE PAINT SPRAYING EQUIPMENT

- FOR APPLYING THICK COATS ON LARGE AREAS

WHAT IS AIRLESS SPRAY PAINTING?

At airless spray painting, paint is fed at high pressure from a pump to spray gun. Due to the high paint pressure, the paint is atomised as it passes the spray tip of the spray gun. The airless spray painting method is particularly suitable for applying thick coats on large areas. It is by far the most popular method for the anti-corrosion treatment of steel structures and for painting the insides and outsides of buildings. It is also used by the manufacturing industry to paint furniture, machines etc. sometimes in combination with hot spray painting.

ADVANTAGES

- High production capacity
- Good coverage of surface depressions
- Thick coat of paint in a single pass
- High viscous paints can be sprayed

Airless spray painting is especially suitable for industrial spraying of steel, marine and protective coatings.

WHAT IS AIR ASSIST?

Air Assist spray painting first partially atomizes the fluid with a special fluid nozzle tip similar to a standard airless tip. Second, they complete the atomization with small amounts of compressed air from the face and/or the horns of the air nozzle that they use. The result is a finely atomized spray pattern closely resembling that of a compressed air system.

The paint is supplied from a high pressure pump and is atomized by the spray tip. Additional air meets the spray fan at the tip to ensure a smooth-edged spray pattern. Air Assist spraying gives a soft spray pattern with high finish, high capacity and less spray mist.

Air Assist spray painting is especially suitable for industrial spraying of steel, automotive and wooden components.

ADVANTAGES

- Easy to adjust spray pattern with high paint pressure
- Soft spray pattern with high finish
- High capacity and less spray mist

"Airless and Air Assisted spray guns with high capacity for industry and contractor use, combined with ECCO Power Flow pumps is the best choice for light or heavy jobs"



ECCO 360



ECCOMIX

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ECCO 370R

THE SERVO OPERATED INDUSTRIAL AIRLESS SPRAY GUN

ECCO 370R

ECCO 370R airless spray gun is suitable for cold as well as hot spraying of all fluids. The spray gun is extremely easy to operate thanks to the servo operated paint needle which is activated by the trigger. The fast shut off action of the paint needle also decreases the risk of drip in the beginning and in the end of the painting cycle. The ECCO 370R spray gun is equipped with external paint pipes which also serves as trigger guard. The gun body is short and is therefore useful in confined spaces where other spray guns have difficulties working. All parts in contact with paint are made in stainless steel. Valve seat and needle tip are made in tungsten carbide for long durability. The ECCO 370R spray gun suits both right- and left handed painters. The spray gun is specially designed for car body cavity spraying. For best ergonomics the airless hose ECCO ERGOTUBE™ Hp is recommended.

Technical data

Maximum paint pressure	360 bar
Min/max. operating pressure	6/8 bar
Paint connection	1/4" 18NPSM male
Operating air connector	G 1/4
Connection for spray tip retaining ring	M 18x1

Type	Ord. No.
ECCO 370R - suits control system requiring 3/2 valve	8611 4170 50
ECCO 370R - suits the ECCO timer P requiring 2/2 valve	8611 4170 51



ECCO 360

THE AIRLESS SPRAY GUN WITH ADJUSTABLE TRIGGER FORCE

ECCO 360

The ECCO 360 is a well tried spray gun which is suitable for most applications. All parts in contact with paint are made in stainless steel. The valve seat and needle tip are made in tungsten carbide for long durability. The paint channels in stainless steel are designed as a protection guard in front of the trigger. This makes this gun also suitable for hot spraying. The trigger force is low and can be adjusted to match the actual paint pressure. The ECCOflex airless hose is recommended for the 360 spray guns.

Technical data

Maximum paint pressure	360 bar
Paint connection	1/4" 18NPSM male
Connection for spray tip retaining ring	M 18x1

Type	Ord. No.
ECCO 360 - with 2-finger trigger	8611 4116 05
ECCO 360C - with double paint channels for circulation	8611 4116 10



ECCO 510

THE CONTRACTOR AIRLESS SPRAY GUN

ECCO 510

The ECCO 510 is a multi-purpose manual high-pressure spray gun with exchangeable paint filter in the spray gun handle. The gun features an integrated swivel coupling for connection to the paint hose to provide optimum freedom of movement when spraying in confined spaces. The 4-finger trigger makes the gun easy to operate also when using protection gloves. ECCOflex airless hose is recommended for the ECCO 510 spray gun.



Technical data

Maximum paint pressure	350 bar
Paint connection	1/4" 18NPSM male
Connection for spray tip retaining ring	11/16"-16

Type	Ord. No.
ECCO 510	8611 4119 05

ECCOMix

THE AIR ASSIST SPRAY GUN WITH MULTIPLE FUNCTIONS FOR HIGH SURFACE FINISH

ECCOMix

The ECCOMix spray gun is using Air Assist technique; the air cap has unique injector technology which gives excellent atomisation and high surface finish. The force of the paint needle spring is adjustable for paint pressures from 80 bar up to 250 bar, this gives lowest possible trigger force. Separate regulations for round and flat jet, ensures optimal adjustment possibilities. Adjustable needle sealing in PTFE, air and paint inlet with swivelling connections. The gun is delivered with paint nozzle size 0,33 mm with 40 degrees spraying angle.



Technical data

Maximum paint pressure	250 bar
Paint connection	1/4" 18NPSM male
Air connection	G 1/4"

Type	Ord. No.
ECCOMix	8611 4120 00

ABOUT ECCO 380A/380AA

ECCO 380A/AA are automatic airless and Air Assist spray guns, designed to fit most types of high-pressure and Air Assist applications in automated production lines. All components in contact with fluid are in stainless steel. Valve seat and needle tip is made in tungsten carbide for long durability.

ECCO 380A - AIRLESS

ECCO 380A is available without nozzle fix or with nozzle fix in step of 30, 45 or 90 degrees. It is suitable for cold as well as hot industrial spraying, where high finish is required, specially wood and steel industry. Sealing rings and o-rings made in FEP material for water-borne paint and UV paint, alternately sealing rings and o-rings in perflour 128 for higher demands. A wide variety of spray tips are available for all types of applications, with a perfect finish of the treated surface.

ECCO 380AA - AIR ASSIST

ECCO 380AA, is an automatic Air Assisted spray gun, designed to fit most types of applications in automated production lines, specially wood and steel industry. All components in contact with

fluid are manufactured from stainless steel. Valve seat and needle tip are made in tungsten carbide for long durability.

In case it is needed both guns ECCO 380A/AA can be changed in less than two minutes without any loss in mechanical precision or performance. Material circulation is provided through the manifold even when the gun is in closed position. Advantages:

- Easy access to vital parts
- Clean design for easy maintenance
- Flexible mounting arrangements - side by side, twin mount (only for 380A) and single mount
- Air and fluid supply fittings in one compact manifold for optimum hose package design
- All standard guns are prepared for optional equipment and can easily be added
- Long life time due to high mechanical precision and carefully selected materials
- Prepared for material circulation
- Fast closing due to air and spring operated closing action
- Can also be delivered with air closing

ECCO 380A

THE AUTOMATIC AIRLESS GUN FOR ROBOTS

ECCO 380A AUTOMATIC SPRAY GUN, AIRLESS

Technical data

Net weight	0,81 kg
Maximum paint pressure	250 Bar
Min/max. operating pressure	4/7 bar
Connection for spray tip retaining ring	M 18x1
Packing / seals	Viton / Perflour 128

Type	Ord. No
ECCO 380 A - nozzle fix PF	8611 4115 01
ECCO 380A - nozzle fix FPM	8611 4115 02
ECCO 380A - nozzle fix FPM UV-paint	8611 4115 71
ECCO 380AC - nozzle fix PF material circulation	8611 4115 61
ECCO 380AC - nozzle fix FPM material circulation	8611 4115 62
ECCO 380AC - nozzle fix FPM material circulation UV-paint	8611 4115 76

For other combinations, please contact your nearest retailer of ECCO Products.



SINGLE/TWIN MANIFOLD 380A

Mounting manifold for single ECCO 380A, also available for side by side - mounting. Side by side mounting gives possibility to feed and circulate two different materials to the guns. Mounting manifold for twin mounted ECCO 380A. Air connectors for opening and closing the guns. Material circulates through both the guns.



Technical data	Single manifold	Twin manifold
Material inlet/return	1/4" - 18 / 1/4" - 18	3/8" * 3/8"
Pilot air 6/4 push in couplings	1/8"	1/8"
Type		Ord. No
Gun manifold single		6004 0159 98
Gun manifold single, side by side		6004 0159 99
Gun manifold twin		6004 0159 83

GUN BRACKET 380A

Gun bracket for ECCO 380A, designed for paint robots with hollow wrist. Detachable cover for easy access to the hose couplings. Paint hoses well protected all the way from the gun and through the inside of the robot arm. All parts are made in stainless steel high gloss polished gives a surface easy to clean. Complete with push in couplings for pilot air and swivelling couplings for the material, and prepared for material circulation.



Type	Ord. No
Gun bracket for Fanuc	6004 0104 33
Gun bracket for Motoman PX2850	6004 0104 49
Gun bracket for ABB enhanced hollow wrist	6004 0104 53

ECCO 380AA

THE AIR ASSISTED GUN FOR ROBOTS

ECCO 380AA AUTOMATIC SPRAY GUN, AIR ASSIST

Technical data

Net weight	0,97 kg
Maximum paint pressure	250 Bar
Min/max. operating pressure	4/7 bar
Connection for spray tip retaining ring	M 36x1
Packing / seals	Viton / Perflour 128

Type	Ord. No
ECCO 380AA - nozzle fix2 PF	8611 4138 01
ECCO 380AA - nozzle fix2 FPM	8611 4138 02
ECCO 380AA - nozzle fix2 FPM UV-paint	8611 4138 22
ECCO 380AA - nozzle fix2 PF material circulation	8611 4138 11
ECCO 380AA - nozzle fix2 FPM material circulation	8611 4138 12
ECCO 380AA - nozzle fix2 FPM material circulation UV-paint	8611 4138 13

For other combinations, please contact your nearest retailer of ECCO Products.



SINGLE MANIFOLD 380AA

Prepared for material circulation.



Technical data

Material inlet/return	1/4" - 18 / 1/4" - 18
Pilot air 6/4 push in couplings	1/8"
Atomization / Fan air 8/6 Push in couplings	1/8"

Type	Ord. No
Gun manifold single	6004 0158 31

GUN BRACKET 380AA

Gun bracket for the ECCO 380AA, designed for paint robots with hollow wrist. Detachable cover for easy access to the hose couplings. Paint hoses well protected all the way from the gun and through the inside of the robot arm. All parts are made in stainless steel high gloss polished gives a surface easy to clean. Complete with push in couplings for pilot air and swivelling couplings for the material, and prepared for material circulation.



Type	Ord. No
Gun bracket for Motoman PX2850	6004 0104 48
Gun bracket for ABB enhanced hollow wrist	6004 0104 52

ECCO 320A

THE RELIABLE AUTOMATIC AIRLESS SPRAY GUN

ECCO 320A

ECCO 320A is a automatic spray gun with air-operated remote control. The needle valve is opened by an air operated piston and closed by a powerful coil spring. All components in contact with paint are made in stainless steel. Valve seat and needle tip are made in tungsten carbide for long durability. The gun is prepared for paint circulation when hot spraying. ECCO 320A can also be used as a qualified fluid valve, for example in colour changing systems and other applications with high demands for short reaction time and reliability.

Technical data

Net weight	545 g
Maximum paint pressure	360 bar
Min/max. operating pressure	6/8 bar
Paint connection	1/4" 18NPSM male
Connection for spray tip retaining ring	M 18x1
Operating air connector is designed for nylon hose	Ø 6/8 mm

Type	Ord. No.
ECCO 320A	8611 4114 17



ACCESSORIES FOR ECCO AIRLESS SPRAY GUNS

ECCOMANT - STANDARD SPRAY TIP

The ECCOMANT tungsten carbide airless tips are manufactured to high standards of accuracy to ensure an accurate spray fan and promote long service life. The tips can be used with all ECCO airless spray guns as well as other spray guns. The tip is held by the retaining ring of the gun. The table on page 11 sets out the recommended tips for different types of paint together and the list below shows the standard sizes normally available for of-the-shelf delivery.



ECCO QUICK-TIP - SELF CLEANING SPRAY TIP

The ECCO Quick-TIP can easily be cleaned by turning the tip 180° and a short paint blast will clear the spray tip orifice. The spray tip handle has an arrow, showing the spraying direction. ECCO Quick-TIP is manufactured from the highest quality tungsten carbide and stainless steel to ensure long lifetime in production. The holder for ECCO Quick-TIP is available with thread that suits all airless spray guns.



Orifice diameter		Fan angle ¹	Capacity ²		Strainer ³ , mesh	STANDARD SPRAY TIP	
inch	mm		litre/minute	gallons/minute		ECCOMANT	ECCO QUICK-TIP
0.011	0,28	15°	0.54	0,14	200	6803 1115 00	6827 0211 00
		25°			200	6803 1125 00	6827 0311 00
		40°			200	6803 1140 00	6827 0411 00
		50°			200	6803 1150 00	6827 0511 00
		65°			200	6803 1165 00	6827 0611 00
		80°			200	6803 1180 00	
0.013	0,33	95°	0.82	0,22	200	6803 1195 00	
		15°			200	6803 1315 00	6827 0213 00
		25°			200	6803 1325 00	6827 0313 00
		40°			200	6803 1340 00	6827 0413 00
		50°			200	6803 1350 00	6827 0513 00
		65°			200	6803 1365 00	6827 0613 00
		80°			200	6803 1380 00	
	95°	200	6803 1395 00				
	110°	200	6803 1311 00				

1. When spraying water 2. Capacity at a fluid pressure of 140 bar, when spraying water 3. Recommended strainer in delivery circuit
For other sizes, please contact your nearest retailer of ECCO Products.

Orifice diameter		Fan angle ¹	Capacity ² litre/minute	Capacity ² gallons/minute	Strainer ³ , mesh	STANDARD SPRAY TIP	
inch	mm					ECCOMANT	ECCO QUICK-TIP
0.015	0,38	15°	1.15	0,30	100	6803 1515 00	
		25°			100	6803 1525 00	6827 0315 00
		40°			100	6803 1540 00	6827 0415 00
		50°			100	6803 1550 00	6827 0515 00
		65°			100	6803 1565 00	6827 0615 00
		80°			100	6803 1580 00	6827 0815 00
		95°			100	6803 1595 00	
0.018	0,46	25°	1.64	0,43	100	6803 1825 00	6827 0318 00
		40°			100	6803 1840 00	6827 0418 00
		50°			100	6803 1850 00	6827 0518 00
		65°			100	6803 1865 00	6827 0618 00
		80°			100	6803 1880 00	6827 0818 00
		95°			100	6803 1895 00	
		110°			100	6803 1811 00	
0.021	0,53	25°	2.14	0,56	60	6803 2125 00	6827 0321 00
		40°			60	6803 2140 00	6827 0421 00
		50°			60	6803 2150 00	6827 0521 00
		65°			60	6803 2165 00	6827 0621 00
		80°			60	6803 2180 00	6827 0821 00
		95°			60	6803 2195 00	
		110°			60	6803 2111 00	
0.023	0,58	25°	2.40	0,63			6827 0323 00
		40°			60		6827 0423 00
		50°			60	6803 2350 00	6827 0523 00
		65°			60	6803 2365 00	
		80°			60	6803 2380 05	
		95°			60	6803 2395 00	
		110°			60	6803 2311 00	
0.026	0,66	25°	3.24	0,86	60	6803 2625 00	6827 0326 00
		40°			60	6803 2640 00	6827 0426 00
		50°			60	6803 2650 00	6827 0526 00
		65°			60	6803 2665 00	
		80°			60	6803 2680 00	6827 0826 00
		95°			60	6803 2695 00	
		110°			60	6803 2611 00	
0.031	0,79	40°	5.00	1,32	30	6803 3140 00	
		50°			30	6803 3150 00	6827 0531 00
		65°			30	6803 3165 00	6827 0631 00
		80°			30	6803 3180 00	
		95°			30	6803 3195 00	
0.036	0,91	40°	6.37	1,68	30	6803 3640 00	6827 0436 00
		50°			30	6803 3650 00	
		65°			30	6803 3665 00	6827 0636 00
		80°			30	6803 3680 00	6827 0836 00
		95°			30	6803 3695 00	
		110°			30	6803 3611 05	

1. When spraying water 2. Capacity at a fluid pressure of 140 bar, when spraying water 3. Recommended strainer in delivery circuit
For other sizes, please contact your nearest retailer of ECCO Products.

ACCESSORIES FOR ECCO 380AA

AIR ASSISTED SPRAY GUN

ECCOMANT – AIR ASSIST SPRAY TIP

Tungsten carbide nozzle designed for the ECCO 380AA, manufactured to high standards of accuracy for long lifetime and a precise spray pattern.

The tip is held in correct position by the air cap and the retaining ring. Use the table on page 11 for selection of the right tip, different paint and viscosity demands different nozzle sizes.



Orifice diameter		Fan angle ¹	Capacity ²		Strainer ³ , mesh	AIR ASSIST SPRAY TIP
inch	mm		litre/minute	gallons/minute		ECCOMANT
0.011	0,28	20°	0.54	0,14	200	6814 1120 00
		30°			200	6814 1130 00
		40°			200	6814 1140 00
		50°			200	6814 1150 00
		60°			200	6814 1160 00
0.013	0,33	20°	0.82	0,22	200	6814 1320 00
		30°			200	6814 1330 00
		40°			200	6814 1340 00
		50°			200	6814 1350 00
		60°			200	6814 1360 00
0.015	0,38	20°	1.15	0,30	100	6814 1520 00
		30°			100	6814 1530 00
		40°			100	6814 1540 00
		50°			100	6814 1550 00
		60°			100	6814 1560 00
0.017	0,43	40°	1.50	0,40	100	6814 1740 00
		50°			100	6814 1750 00
		60°			100	6814 1760 00
		80°			100	6814 1780 00
		80°			100	6814 1780 00
0.019	0,48	40°	1.91	0,54	100	6814 1940 00
		50°			100	6814 1950 00
		60°			100	6814 1960 00
		80°			100	6814 1980 00

1. When spraying water 2. Capacity at a fluid pressure of 140 bar, when spraying water 3. Recommended strainer in delivery circuit
For other sizes, please contact your nearest retailer of ECCO Products.

ACCESSORIES FOR ECCO AIRLESS SPRAY GUNS

SELECTION OF SPRAY TIP

Recommend spray tips for different paint types. For other paint types, please contact your nearest retailer of ECCO Products.

Paint type	Normal spray viscosity (sec. with SIS cup 4)	Recommended tips, inch								
		0,009	0,011	0,013	0,015	0,018	0,021	0,026	0,031	0,036
Lacquer	15 - 20	•	•	•						
Shop hardening	15-25	•	•	•						
Shop primer	13-25		•	•	•					
Polyurethane	25-60		•	•	•	•	•			
Alkyd lacquer	30-60		•	•	•	•				
Zinc epoxy	25-60				•	•	•			
Modified vegetable oil	60-100		•	•	•	•	•			
Epoxy tar	30 - 100					•	•	•	•	•
Latex paint	NORMALLY UNTHINNED					•	•	•	•	•
Solvent free epoxy	40 -					•	•	•	•	•

SPRAY TIP HOLDER ECCO QUICK-TIP

Holder for spray tip ECCO Quick TIP.



Thread	For spray gun	Ord. No.
7/8" - 14	Graco	8611 4150 07
11/16" - 16	ECCO 510, spraying systems, Graco, Blinks,	8611 4150 11
M18x1	ECCO 320A / 360 / 370, Deicke & Kopperschmidt	8611 4150 18

PAINT STRAINERS

Paint strainers for ECCO 510, 370F and 360F.



Mesh aperture mesh	Suitable for tips with equivalent orifice diam.	Ord. No.
60	≥ 0.019	6803 3516 00
100	0.015 - 0.018	6803 3575 00
200	0.011 - 0.013	6803 3517 00

AIRLESS TIP CLEANING NEEDLES

Easy way to clean blocked airless tips.
12 pieces included.



Type	Ord. No.
Airless tip cleaning needles	6003 8001 00

WET FILM GAUGE

Measuring rang:
25 - 300 µm in steps of 25 µm
350 - 750 µm in steps of 50 µm
900 - 2000 µm in steps of 150 µm



Type	Ord. No.
Wet film gauge	6802 3558 00

HOSES AND CONNECTIONS

ECCOFLEX AIRLESS HOSE

Properties:

- Excellent resistance to paints, solvents and chemicals.
- Excellent flexibility
- Extreme abrasion resistance
- Static freed - 100% conductivity
- Light weight
- UV and ozone resistant

Inner tube: Polyamide
 Reinforcement: Carbon steel wire brass plated
 Cover: Polyurethane
 Temp. range: -40°C to +80°C

Diam inside	Max working	Stand.	Connection	Ord. No.
mm	pressure, bar.	length m	thread, mm	
6,3	325	8	1/4" 18NPSM	6803 0745 08
9,5	400	10	1/4" 18NPSM	6803 2082 10

WHIP END HOSES

Whip end for connection immediately before the gun for increased mobility. Length: 1 m. Connection thread: 1/4" 18NPSM female - male.

Diam.mm	Inside.inch	Ord. No.
3,2	1/8	6803 4920 00
4,6	3/16	6803 1741 00

TEFLON HOSE

Airless hose resistant for particularly aggressive fluids. Couplings and braid in stainless steel. Material inside hose wall: Teflon.

Connection thread: 1/4" 18NPSM female.

Diam.	Inside.	Max working	Length	Max. bending	Ord. No.
mm	inch	pressure, bar.	m	radius, mm	
6,3	3/16	175	7,5		6201 9264 00

TWIN HOSE PAINT/AIR

Twin hose for use with Air Assisted spray guns.

Inner tube: Polyamide

Cover: Polyurethane

Diam inside	Max working	Stand.	Connection	Ord. No.
mm	pressure, bar.	length m	thread, mm	
Paint 4,6	3/16	235	10	1/4" 18NPSM
Air 6,4	1/4	10	10	G1/4"
				6003 7092 10

ECCO ERGOTUBE™ HP AIRLESS HOSE

ECCO ERGOTUBE™ Hp for use with all servo assisted spray guns 370. The high pressure paint hose is placed inside the air hose which leads the operating air to the spray gun. The gun is as easy to use as when using only one hose to the spray gun. (Patent).

Technical data

Paint pressure	max. 400 bar
Inside diameter paint hose:	4 mm
Inner hose:	Polyamide airless hose
Reinforcement:	Braided synthetic fibres
Cover:	Polyurethane
Temp.range:	-40°C to +80°
Length:	2-10 meter
Type	Ord. No.
ECCO ERGOTUBE™ Hp	6003 9870 xx

For ECCO hoses; other lengths are available. Add two-digit designation for desired hose length to the actual ordering number. Example: 6803 0745 04 (for 4 m hose).

T-PIECE FOR PAINT CIRCULATION

For paint circulation up to the spray gun or for connection of two airless spray guns to the same high pressure pump. Connection thread to gun: 1/4" 18NPSM female. Connection thread to hose: 1/4" 18NPSM male.



Type	Ord. No.
T-piece	6102 3057 00

NIPPLES

Joining and connection nipples for high pressure hoses.



Connection thread	Bore	Material	Ord. No.
	mm		
1/4" 18 NPSM male - 1/4" 18NPSM male	5	Stainless	6002 0234 00
G 1/4 male - 1/4" 18NPSM male	5	Stainless	6002 0233 00
G 3/8 male - 1/4" 18NPSM male	7	Stainless	6202 2197 00
1/4" 18NPT male - 3/8" NPT male	7	Steel	6803 5666 00
G 1/4 male - G1/2 male	7	Stainless	6002 0236 46

SWIVEL COUPLINGS FOR HIGH PRESSURE HOSES

To be mounted between the gun and the hose for increased mobility.

(Not intended for ECCO 510 or ECCO ERGOTUBE™ Hp.)



Connection thread		Mesh aperture		Working	Ord. No.
male	female	mesh	mm	press. max	
1/4" 18 NPSM	1/4" 18NPSM	without	strainer	400 bar	6803 5292 00
1/4" 18 NPSM	3/8" NPT	without	strainer	400 bar	6803 5664 00

ECCO POWER FLOW PUMP SERIES

ECCO Power Flow pump series are the perfect choice for a large variety of industries such as general industry, wood, protective coatings, marine/offshore and more. The pump series range is suitable for liquids from low to very high viscosities, primers, finish paints and paints containing varied particle size. The high paint pressure required for airless paint is generated by strong, double acting air operated pumps. The new designed pump has a high performance air motor that ensures a softer change over, which makes the pulsation lower and the lacquer processing more stable, versus a conventional mechanical change over which has a higher pulsation. The pumps are produced to reach the highest standard of quality and life time and they are available in a range of fluid and pressures ratios: 14:1, 28:1, 40:1 and 75:1.

ADVANTAGES

- Unique new design air motor
- Quick pneumatic changeover mechanism, giving no pulsation and ensures a perfect finish
- Change over mechanism ensures no stalling
- Ice free air motor
- All wetted parts are in stainless steel, thus usable with water borne and solvent borne materials
- Easy maintenance due to few parts and simple construction

APPLICATION MATERIALS

- Solvent- or water borne coatings
- Primers and catalysed laquers
- Enamels and polyurethane's
- UV-paint



ECCO SPRAY PACKS

ECCO offers a unique pneumatic driven pump range for airless and Air Assisted application of low and middle viscosity products. Spray Pack ECCO Power Flow is a complete set containing all required parts for quick and easy start-up. We give advice about what model and which nozzles that would be suitable for your specific application. The high pressure hose is delivered in standard length, but it can be adapted to customer's demands. The high pressure spray gun is delivered with standard nozzle, swivelling coupling and whip end hose for good ergonomics. The Spray Packs ECCO Power Flow are delivered on a trolley.

ECCO POWER FLOW 214S AA

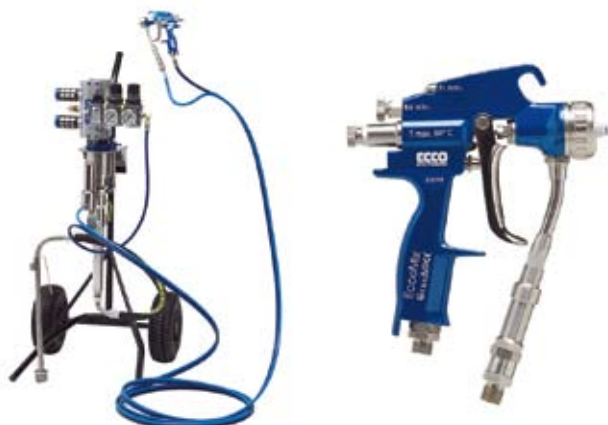
ECCO Power Flow 214S AA is the smallest pump in the Power Flow range and it is suitable for low and average viscosities at high flow rates (stains, transparent lacquers). The Air Assist pump for fine finishing on wood and metal gives superb surface quality and negligible orange peel effect. Up to 20% material economy compared to ordinary airless systems, because optimum atomization reached at low material pressure. Using combined compressed air and airless spray results in an almost entire suppression of rebounding spray mist. This system also permits positive spraying of grooves, recesses and sinking's. ECCO Power Flow 214S AA can be delivered bare, on a tripod, a trolley or on a wall bracket.



TECHNICAL DATA

	ECCO POWER FLOW 214S AA	ECCO POWER FLOW 214S-TP-AA	ECCO POWER FLOW 214S-T-AA	ECCO POWER FLOW 214S-B-AA
Ord. No.	8621 0714 00	8621 0714 10	8621 0714 15	8621 0714 20
Type	BARE	TRIPOD	TROLLEY	BRACKET
Pressure ratio	14:1	14:1	14:1	14:1
Max. spray volume (cc/min)	1200	1200	1200	1200
Capacity (cc/double stroke)	40	40	40	40
Paint connection suction/pressure	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18
Max air inlet pressure Bar (Psi)	6 (57)	6 (57)	6 (57)	6 (57)
Volume/Cycle (Ml)	40	40	40	40
Max. air consumption (N ltr/min)	250	250	250	250
Air inlet connection	NOT INCLUDED	FEMALE 1/4" OR 1/2"	FEMALE 1/4" OR 1/2"	FEMALE 1/4" OR 1/2"
Air outlet connection	NOT INCLUDED	G1/4"	G1/4"	G1/4"
Max output pressure Bar (Psi)	84 (1218)	84 (1218)	84 (1218)	84 (1218)
Weight (Kg)	15	18	25	18

SPRAY PACK ECCO POWER FLOW 214S AA



Spray Pack ECCO Power Flow is a complete set containing all required parts for quick and easy startup. We give advice about what model and which nozzles that would be suitable for your specific application. The hose is in a standard length of 10m but can be adapted to customer's demands. Spray Pack ECCO Power Flow 214S AA includes hose and spray gun (ECCOMix). It produces a smooth finish, and can be used on many applications. Air Assist spraying is versatile; the operator can vary air volume, paint pressure, and spray pattern.

CONSISTS OF

Ord. No.	8613 2321 35
Pump Unit	ECCO POWER FLOW 214S-TAA
Spray Gun	ECCOMix
Spray Tip	0,013" / 40°
Twin hose paint/air	3/16" / 1/4" 10M
Weight (Kg)	27

For other combinations, please contact your nearest retailer of ECCO Products.

ECCO POWER FLOW 328S A / 328S AA

ECCO Power Flow 328S A/AA is particularly suitable for craftsmen as an additional unit and industrial painting jobs. The ECCO Power Flow 328S A / AA qualifies for the machine building, wood, furniture, steel and vehicle industries. It is suitable for anyone who uses a variety of painting materials.

The pump also qualifies for manual and automated installations feeding one or more spray guns. The ECCO Power Flow 328S A can be delivered bare, on a tripod, on a trolley or on a wall bracket and it can easily be adjusted into an Air Assist model (AA).



ECCO Power Flow 328S-TP/T-A



ECCO Power Flow 328S-TP/T-AA



TECHNICAL DATA

	ECCO POWER FLOW 328S A	ECCO POWER FLOW 328S-TP-A	ECCO POWER FLOW 328S-T-A	ECCO POWER FLOW 328S-B-A	ECCO POWER FLOW 328S-TP-AA	ECCO POWER FLOW 328S-T-AA	ECCO POWER FLOW 328S-B-AA
Ord. No.	8621 0715 00	8621 0715 05	8613 2346 29	8621 0715 46	8621 0715 10	8613 2346 26	8613 2346 25
Type	BARE	TRIPOD	TROLLEY	BRACKET	TRIPOD	TROLLEY	BRACKET
Pressure ratio	28:1	28:1	28:1	28:1	28:1	28:1	28:1
Max. spray volume (cc/min)	1500	1500	1500	1500	1500	1500	1500
Capacity (cc/double stroke)	40	40	40	40	40	40	40
Paint connection suction/pressure	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18	3/4" AND 1/4"-18
Max air inlet pressure Bar (Psi)	8 (116)	8 (116)	8 (116)	8 (116)	8 (116)	8 (116)	8 (116)
Volume/Cycle (MI)	40	40	40	40	40	40	40
Max. air consumption (N ltr/min)	400	400	400	400	400	400	400
Air inlet connection	NOT INCLUDED	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"
Air outlet connection	NOT INCLUDED	NO USE	NO USE	NO USE	G1/4"	G1/4"	G1/4"
Max output pressure Bar (Psi)	224 (3250)	224 (3250)	224 (3250)	224 (3250)	224 (3250)	224 (3250)	224 (3250)
Weight (Kg)	16	19	18	18	20	26	19

SPRAY PACK ECCO POWER FLOW 328S A/AA



Spray Pack ECCO Power Flow 328S-A



Spray Pack ECCO Power Flow 328S-AA

A ready to use unit complete with regulators hose and spray gun, available as both airless and Air Assist model. Spray Pack ECCO Power Flow 328S A includes high pressure spray gun ECCO 360 with standard nozzle, swivelling coupling and whip end hose for good ergonomics. Spray Pack ECCO Power Flow 328S AA includes hose and spray gun (ECCOMix).

CONSISTS OF

Ord. No.	8613 2321 38	8613 2321 39
Pump Unit	ECCO POWER FLOW 328S-T-A	ECCO POWER FLOW 328S-T-AA
Spray Gun	ECCO 360	ECCOMix
Spray Tip	0,015" / 50°	0,013" / 40°
Airless hose	1/4" 10M	
Twin hose paint/air		3/16" / 1/4" 10M
Whip-end hose	1/8" 1M	
Swivel coupling	1/4" 18 NPSM - 1/4" 18 NPSM	
Weight (Kg)	26,5	28,5

For other combinations, please contact your nearest retailer of ECCO Products.

ECCO POWER FLOW 640S A

The pump ECCO Power Flow 640S A is suitable for medium and high viscosity materials. This pump has been designed for high performance purposes and feeds large type nozzles or several spray guns at a time. Suitable for protective coatings, wood and car manufacturers. A single spraying operation produces high coating thickness and high performance characteristics. The use of solvents is cut to a minimum, because highly viscous materials can be applied directly. There is hardly any overspray or spray mist with the environment remaining clean. Our equipment stands for superb performance quality and meets all technical requirements their advanced design and conception correspond to all applicable safety specifications and regulations. Sophisticated engineering, functional dependability and easy handling are only few of the outstanding features of these equipments. The pump can be delivered bare, on a trolley for easy mobility painting big parts or on a wall bracket.



TECHNICAL DATA

	ECCO POWER FLOW 640S A	ECCO POWER FLOW 640S-T-A	ECCO POWER FLOW 640S-B-A
Ord. No.	8621 0723 00	8613 2346 59	8621 0723 46
Type	BARE	TROLLEY	BRACKET
Pressure ratio	40:1	40:1	40:1
Max. spray volyme (cc/min)	5500	5500	5500
Capacity (cc/double stroke)	110	110	110
Paint connection suction/pressure	1" and 1/4"-18	1" and 1/4"-18	1" and 1/4"-18
Max air inlet pressure Bar (Psi)	8 (116)	8 (116)	8 (116)
Volume/Cycle (Ml)	110	110	110
Max. air consumption (N ltr/min)	1900	1900	1900
Air inlet connection	NOT INCLUDED	FEMALE 1/4" or 1/2"	FEMALE 1/4" or 1/2"
Air outlet connection	NOT INCLUDED	NO USE	NO USE
Max output pressure Bar (Psi)	320 (4641)	320 (4641)	320 (4641)
Weight (Kg)	23	32	24

SPRAY PACK ECCO POWER FLOW 640S A

Spray Pack ECCO Power Flow 640S A is a complete set containing all required parts for quick and easy start-up. We give advice about what model and which nozzles that would be suitable for your specific application. The high pressure hose is delivered in standard length but it can be adapted to customer's demands. The high pressure spray gun is delivered with standard nozzle, swivelling coupling and whip end hose for good ergonomics.

CONSISTS OF

Ord. No.	8613 2322 78
Pump Unit	ECCO POWER FLOW 640S-T-A
Spray Gun	ECCO 360
Spray Tip	0,015" / 50°
Airless hose	1/4" 10M
Whip-end hose	1/8" 1M
Swivel coupling	1/4" 18 NPSM - 1/4" 18 NPSM
Weight (Kg)	31,5

For other combinations, please contact your nearest retailer of ECCO Products.



ECCO POWER FLOW 1275S A

The air powered airless model ECCO Power Flow 1275S A is designed to withstand the toughest working conditions as can be found at shipyards, steel construction plants, freight car manufacturing plants or bridge building sites. ECCO Power Flow 1275S A pumps come in various versions: hydraulic pressures up to 450 bar corresponds to relative transfer volume up to 210 cc /cycle so that even with several spray guns and long material hoses considerably high spray pressures can be obtained. ECCO Power Flow 1275S A pumps are in stainless steel 410 and also available in high quality steel versions (SS304, SS316, Food Grade, etc) on customers request. These pumps are also available as stationary units for wall mounting.



TECHNICAL DATA

Ord.No.	ECCO POWER FLOW	ECCO POWER FLOW
	1275S	1275S-T-A
	8621 0726 00	8621 0726 15
Type	BARE	TROLLEY
Pressure ratio	75:1	75:1
Max. spray volyme (cc/min)	5500	5500
Capacity (cc/double stroke)	210	210
Paint connection suction/pressure	1" AND 1/4"-18	1" AND 1/4"-18
Max air inlet pressure Bar (Psi)	6 (57)	6 (57)
Volume/Cycle (Ml)	210	210
Max. air consumption (N ltr/min)	2600	2600
Air inlet connection	NOT INCLUDED	1" CLAW COUPLING
Air outlet connection	NOT INCLUDED	NO USE
Max output pressure Bar (Psi)	450 (6527)	450 (6527)
Weight (Kg)	73	98

MATERIALS & APPLICATIONS

POWER FLOW PUMPS & SPRAY PACKS

PUMPS:		Applications			Materials		
		Wood	General Industry	Corrosion Protection	Solvent & water borne coating	Wood-stains, lacquers & varnishes	Primers, sealers & catalysed lacquers
ECCO POWER FLOW 214S	8621 0714 00	X	X		X	X	
ECCO POWER FLOW 214S-TP-AA	8621 0714 10	X	X		X	X	
ECCO POWER FLOW 214S-T-AA	8621 0714 15	X	X		X	X	
ECCO POWER FLOW 214S-B-AA	8621 0714 20	X	X		X	X	
ECCO POWER FLOW 328S	8621 0715 00	X	X		X	X	X
ECCO POWER FLOW 328S-TP-A	8621 0715 05	X	X		X	X	X
ECCO POWER FLOW 328S-T-A	8613 2346 29	X	X		X	X	X
ECCO POWER FLOW 328S-B-A	8621 0715 46	X	X		X	X	X
ECCO POWER FLOW 328S-TP-AA	8621 0715 10	X	X		X	X	X
ECCO POWER FLOW 328S-T-AA	8613 2346 26	X	X		X	X	X
ECCO POWER FLOW 328S-B-AA	8613 2346 25	X	X		X	X	X
ECCO POWER FLOW 640S	8621 0723 00	X	X	X	X	X	X
ECCO POWER FLOW 640S-T-A	8613 2346 59	X	X	X	X	X	X
ECCO POWER FLOW 640S-B-A	8621 0723 46	X	X	X	X	X	X
ECCO POWER FLOW 1275S	8621 0726 00	X	X	X	X	X	X
ECCO POWER FLOW 1275S-T-A	8621 0726 15	X	X	X	X	X	X
ECCO POWER FLOW 1275S-B-A	8621 0726 20	X	X	X	X	X	X

SPRAY PACKS:							
SP ECCO POWER FLOW 214S AA	8613 2321 35	X			X	X	
SP ECCO POWER FLOW 328S A	8613 2321 38	X	X		X	X	X
SP ECCO POWER FLOW 328S AA	8613 2321 39	X	X		X	X	X
SP ECCO POWER FLOW 640S A	8613 2322 78	X	X	X	X	X	X

ACCESSORIES

SERVICE KITS

A service kit includes important wear parts for each pump. It also includes gaskets normally damaged when disassembling the pump. Installation instructions in the form of exploded drawings are provided.



Ord. No

SERVICE KIT ECCO POWER FLOW AIR MOTOR 214S	6004 0264 90
SERVICE KIT ECCO POWER FLOW AIR MOTOR 328S	6004 0265 90
SERVICE KIT ECCO POWER FLOW 214S/328S PTFE	6004 0265 91
SERVICE KIT ECCO POWER FLOW 214S/328S UHMW	6004 0265 92
SERVICE KIT ECCO POWER FLOW 214S/328S PTFE+LEATHER	6004 0265 93
SERVICE KIT ECCO POWER FLOW 214S/328S UHMW+PU	6004 0265 94
SERVICE KIT ECCO POWER FLOW AIR MOTOR 640S	6004 0266 90
SERVICE KIT ECCO POWER FLOW 640S PTFE	6004 0266 91
SERVICE KIT ECCO POWER FLOW 640S UHMW	6004 0266 92
SERVICE KIT ECCO POWER FLOW 640S PTFE+LEATHER	6004 0266 93
SERVICE KIT ECCO POWER FLOW 640S UHMW+PU	6004 0266 94
SERVICE KIT ECCO POWER FLOW AIR MOTOR 1275S	6004 0268 90
SERVICE KIT ECCO POWER FLOW 1275S PTFE	6004 0268 91
SERVICE KIT ECCO POWER FLOW 1275S PTFE+LEATHER	6004 0268 93
SERVICE KIT ECCO POWER FLOW CONTROL BLOCK	6004 0265 95
SERVICE KIT ECCO POWER FLOW CONTROL BLOCK 1275S	6004 0268 95

OPTIONAL HOSE

Return flow pipe, for connection to the ball valve of the high pressure filter. Render possibility to circulate flushing solvent through the suction pipe into the pump, high pressure filter and back to the solvent container. Delivered with pipe and connectors made in stainless steel connected with 1/2" - hose. Fits the ECCO Power Flow 214S, -328S, -640S and -1275S.



RETURN FLOW PIPE

6004 0264 09

T-PIECE

T-piece, for connection of two guns to one high pressure pump. Connectors, 2x 1/4"-18 male and 1x 1/4"-18 female, fits the ECCOflex high pressure hoses.

Completely made in stainless steel.



T-PIECE

6102 3057 00

HIGH PRESSURE FILTER

Filter insert in stainless steel, each available in three different sizes.

For use in high pressure filter of the ECCO Power Flow 214S, -328S, -640S and -1275S.

	For pump	Size	Ord. No
FILTER INSERT 60 MESH (STANDARD)	214S/328S	0,250 mm	6004 0265 66
FILTER INSERT 100 MESH	214S/328S	0,150 mm	6004 0265 67
FILTER INSERT 200 MESH	214S/328S	0,075 mm	6004 0265 68
FILTER INSERT 60 MESH (STANDARD)	640S/1275S	0,250 mm	6803 5858 00
FILTER INSERT 100 MESH	640S/1275S	0,150 mm	6803 5867 00
FILTER INSERT 200 MESH	640S/1275S	0,075 mm	6803 5868 00

BASIC SPRAYING TECHNIQUE

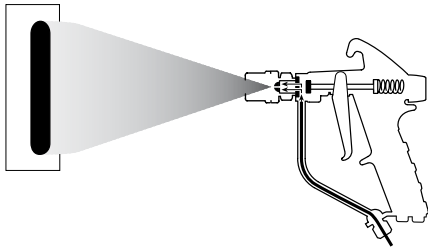
To obtain the best possible finishing result it is important that the correct spraying technique is used. The spray tip and the paint used are factors that will affect the result. The size and shape of the work piece to be sprayed will of course have an influence on the finishing result. A correct balance between paint pressures, the size of the spray tip and the fan width is essential to the result.

The setting of the paint pressure depends on:

- The spray tip
- The viscosity and the nature of the material being sprayed
- The length and dimension of the high pressure hose
- The required production capacity

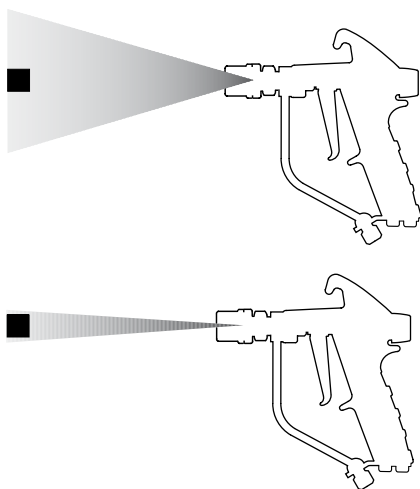
PAINT PRESSURE

The paint pressure shall be set as low as possible with respect to required paint output and finish. If the paint pressure is set too low it could lead to a bad atomization of the paint and a striped spray pattern. If the paint pressure is set too high this will lead to a lot of overspray. Recommended paint pressure in the spray gun directly before the spray tip is 120 to 150 bar. The required pressure from the pump depends on how much the pressure drops from pump to spray gun.



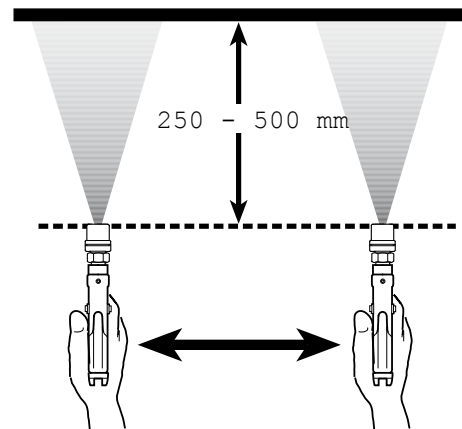
FAN WIDTH

All paint that does not reach the object affects the environment and your paint economy meaning low transfer efficiency (TE). Spray tip shall be chosen according to the size of the object and to required capacity.



DISTANCE TO THE OBJECT

Regardless of the equipment chosen the distance to the object should be maintained as short as possible. This is a factor that will greatly influence your transfer efficiency. Spraying distance shall be chosen so the sharp edges of the spraying pattern (near the spray gun) is not used. This makes overlapping of the different paint layers easier. Recommended distance between spray gun and object is 250 - 500 mm depending on the size and fan width of the spray tip.



CLEANING OF THE SPRAY GUN

At shorter stops, for instance during the night, it is enough that the spray tip is removed and put into solvent and that the outside of the spray gun is cleaned with a soft brush or a rag with solvent. At longer stops or storage always flush the gun through with solvent. Never immerse the gun in solvent since it will dissolve the lubrication oil inside the gun. Please here with your paint supplier for the most effective cleaning solvent to be used.



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