

Product Info
Low Pressure Equipment

LOW 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.

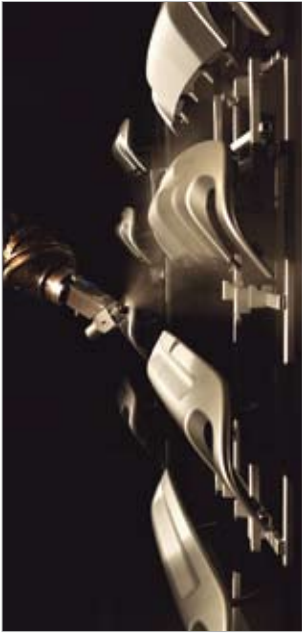
ECCO Finishing AB was founded 1931, almost 80 years ago which ensures great experience and know-how in the industry and to our customers demands. In addition, ECCO Finishing AB is qualified as an Environmental and Quality Management System and is registered by SEMKO Certification AB, as confirming the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



LOW PRESSURE SPRAYING METHODS

The ECCO low pressure spray guns can be used for either conventional or HVLP paint spraying, both methods using compressed air to atomize the paint.

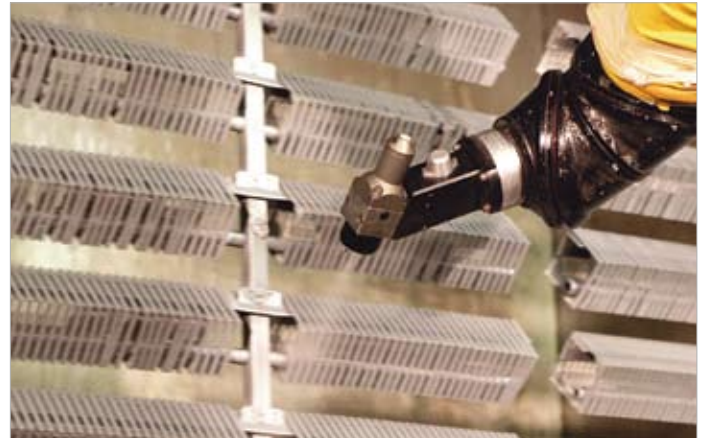
The basics of **conventional spray painting** are to use high velocity air jets to create high atomization. This is suitable for painting where the result must have the best appearance quality. By using the conventional method you will reach high gloss and the best result in colour and DOI (Distinction of Image). The ECCO 35/40S/60AS spray guns can be used with atomizing air pressure up to 7 bar with conventional spray painting.



HVLP (High Volume Low Pressure) uses more air at lower velocity to atomize the paint, compared to the conventional paint spraying. The lower air pressure creates larger paint particles which will give you a lower finish quality. However, it creates less overspray which increases the transfer efficiency.

Three basic methods are used to feed paint to the nozzle of manual guns; **Gravity, Pressure** and **Suction feed**, which of each are suitable for different application areas.

The ECCO 65 spray guns have a restrictor built into the gun body giving an air pressure inside the air cap of 0.7 bar when feeding the gun with 3 bar air pressure at air inlet, using the HVLP method. The same principle can also be used with ECCO 35.



The ECCO 70/75 and 40DA automatic spray guns can be used for either conventional or HVLP spraying by choosing different combinations of fluid nozzles and air caps and by various settings of the air supply.

The ECCO low pressure spray guns are mainly used for industrial applications where top finish and low down time in production are essential.

ADVANTAGES

- First class finish
- Uniformed coat thickness
- Simple and rigid adjustment of fan pattern and paint flow
- Smooth-action operation with excellent view of the results
- Versatile gun for many different applications



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ECCO LOW PRESSURE SPRAY GUNS

- FOR ALL PROFESSIONAL USERS

The ECCO equipment for conventional air atomizing has been developed by skilled engineers in close co-operation with paint manufacturers and industrial users for more than 75 years. This has resulted in a complete spraying concept where both gun body, air cap, fluid nozzle, paint needle and paint/air control details can be combined in many different ways to achieve a spray gun which is unique and fulfills the needs of every customer. The ECCO manual low pressure spray guns are suitable for production as well as for spot- and panel repair.

VERSATILE GUN FOR DIFFERENT APPLICATIONS

The ECCO manual low pressure spray guns can be adapted according to different customers needs by various combinations of

most components. Fan width control can in addition to adjustable control be lockable, preset, quick- or max/min-adjustable. The gun can be used with or without control on the needle, with different sizes of connection nipples, and with different types and materials for the fluid needle, ie tungsten carbide, plastic or stainless steel.

PERFECT FOR METALLIC PAINT

The ECCO manual low pressure spray guns are equipped with a replaceable strainer inside the fluid nozzle which is filtering the paint just before leaving the gun. The strainer will reduce the risk that any contamination caused by the fluid pipes or hoses reaches the surface. The main advantage is that the strainer will homogenize the paint, especially when metallic base coat is applied.

UNIQUE AIR CAPS

The treated aluminum air cap gives a harder surface, extended life and improved spray pattern.

TWIN AIR PASSAGES

Ensuring minimum pressure drop in the gun which is essential to obtain highest atomization.

STAINLESS STEEL FLUID PASSAGES

All parts in contact with the material being sprayed are manufactured from stainless steel, making the gun suitable for solvent or waterbased products.

PROTECTED FLUID NEEDLE

The paint needle is protected from paint build up and possible damage.

BALANCE

Perfect balance, especially in combination with the ECCO Ergotube™ (see page 13).

COMPACT DESIGN

The ECCO manual low pressure spray guns have a light weighted body, making the work easier for the painter. Compact design and smooth surfaces makes the gun easy to clean.



ECCO 35/352

THE GUN THAT FITS EVERY HAND

The ECCO 35 manual spray gun is designed with the firm intention to offer a gun with exceptional ergonomic and high quality. The gun body is made in anodized aluminum in order to optimize balance and weight. ECCO 35 is produced to fulfil the application demands for all types of fluids, or instance, water born paint and high solids. The inside paint channel is designed to be easy to clean, which saves time and solvent when changing colour.

Different control possibilities for the ECCO 35 are; air amount, fluid amount and width of spray pattern. The ECCO 35 spray gun can be equipped with a wide range of paint nozzles, air caps and needles to ensure an optimized application of all normally used materials. The different nozzle combinations also includes a range of HVLP alternatives.

PRESSURE FEED - ECCO 35



Pressure feed spray gun. Fluid supplied from pressure pots, pumps or circulation systems.

Technical data	
Paint nozzles	0.2 - 2.7 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	max. 7 bar
Air consumption	250 - 700 l/min
Weight	521 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	0.9	6509	8611 3540 09
10 - 20	1.1	6511	8611 3540 11
20 - 30	1.4	6514	8611 3540 14
30 - 40	1.8	6518	8611 3540 18
40 - 50	2.1	6521	8611 3540 21
50 - 60	2.7	6527	8611 3540 27

GRAVITY FEED - ECCO 352



Gravity feed spray gun, (see page 15 for alternative cups).

Technical data	
Paint nozzles	0.2 - 2.7 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	max. 7 bar
Air consumption	250 - 700 l/min
Weight	694 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	0.9	6509	8611 3542 09
10 - 20	1.1	6511	8611 3542 11
20 - 30	1.4	6514	8611 3542 14
30 - 40	1.8	6518	8611 3542 18
40 - 50	2.1	6521	8611 3542 21
50 - 60	2.7	6527	8611 3542 27

ECCO 40S/401S/402S CONVENTIONAL

PRESSURE FEED - ECCO 40S



Pressure feed spray gun. Fluid supplied from pressure pots, pumps or circulation systems.

Technical data	
Paint nozzles	0.3 - 6.5 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	max. 7 bar
Air consumption	250 - 700 l/min
Weight	568 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	1.1	T278	8611 4040 11
10 - 20	1.3	T272	8611 4040 13
20 - 30	1.5	T272	8611 4040 15
30 - 40	1.8	T272	8611 4040 18
40 - 50	2.1	T374	8611 4040 21
50 - 100	2.7	T474	8611 4040 27

SUCTION FEED - ECCO 401S



Suction feed spray gun ECCO 401S with 1.0 lit. suction cup, (see page 15 for alternative cups).

Technical data	
Paint nozzles	0.3 - 2.7 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	max. 7 bar
Air consumption	180 - 600 l/min
Weight	949 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	1.2	170	8611 4010 12
10 - 20	1.5	273	8611 4010 15
20 - 30	1.8	271	8611 4010 18

GRAVITY FEED - ECCO 402S



Gravity feed spray gun with 0.5 lit cup with drip guard, (see page 15 for alternative cups).

Technical data	
Paint nozzles	0.8 - 6.5 mm
Air connection	G 1/4
Air pressure	max. 7 bar
Air consumption	200 - 500 l/min
Weight	654 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	1.2	170	8611 4020 12
10 - 20	1.3	273	8611 4020 13
20 - 30	1.8	271	8611 4020 18
30 - 40	2.1	375	8611 4020 21

ECCO 65S/651S/652S HVLP

PRESSURE FEED - ECCO 65S



Pressure feed HVLP-spray gun. Fluid supplied from pressure pots, pumps or circulation system.

Technical data	
Paint nozzles	0.5 - 2.7 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	rec. 3 bar
Air consumption	approx. 260 l/min
Weight	565 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	0.9	6509	8611 6540 09
10 - 20	1.1	6511	8611 6540 11
20 - 30	1.4	6514	8611 6540 14
30 - 40	1.8	6518	8611 6540 18
40 - 100	2.1	6521	8611 6540 21

SUCTION FEED - ECCO 651S



Suction feed HVLP-spray gun ECCO 651S with 1.0 lit. suction cup (see page 15 for alternative cups).

Technical data	
Paint nozzles	1.1 - 2.7 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	rec. 3 bar
Air consumption	approx. 260 l/min
Weight	947 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	1.1	6511	8611 6541 11
10 - 20	1.4	6514	8611 6541 14
20 - 30	1.8	6518	8611 6541 18
30 - 40	2.1	6521	8611 6541 21

GRAVITY FEED - ECCO 652S



Gravity feed HVLP-spray gun with 0.5 lit cup with drip guard (see page 15 for alternative cups).

Technical data	
Paint nozzles	0.9 - 2.7 mm
Air connection	G 1/4
Air pressure	rec. 3 bar
Air consumption	approx. 260 l/min
Weight	653 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0 - 10	0.9	6509	8611 6542 09
10 - 20	1.1	6511	8611 6542 11
20 - 30	1.4	6514	8611 6542 14
30 - 40	1.8	6518	8611 6542 18

ECCO SPRAY PACKS

READY-TO-USE SPRAYING UNITS

ECCO FEED SPRAY PACKS

The ECCO Feed Spray Pack are using air powered piston or diaphragm pump. Compact and light equipment, ready-to-use and easy to clean.

ECCO FEED SPRAY PACK CONSISTS OF:

- Paint feeding pump with silencer and strainer
- Paint pressure regulator with gauge for precise settings of the paint pressure. The regulator also works as a pulsation damper
- Reduction valve with gauge for precise settings of the air pressure
- An ECCO 35 including a paint nozzle and air cap that can handle the most common fluids
- All necessary valves, hoses and couplings
- Earthing device



SPRAY PACK 315 (DIAPHRAGM)

For all types of paint. Mounted on a tubular steel frame, bracke for wall mounting or on a lid for 20 lit. container. Max. air pressure 8 bar. Max paint pressure 8 bar.

The Spray Pack consists of:

- Paint feeding unit: ECCO PSU AL15
- Spray gun: ECCO 35
- ECCO Ergotube: 5 m

With spray gun ECCO 35:	Ord. No.
Spray Pack 315 (steel frame)	8613 2311 61
Spray Pack 315L (lid for container 20 lit.)	8613 2311 62
Spray Pack 315B (for wall mounting)	8613 2311 63

Optional equipment:	Ord. No.
Wheel set	6004 0169 70

SPRAY PACK 317 (PISTON)

For all types of paint. Mounted on a tubular steel frame, bracket for wall mounting or on a lid for 20 lit. container. Max. air pressure 8 bar. Max paint pressure 4 bar.

The Spray Pack consists of:

- Paint feeding unit: ECCO PSU A2
- Spray gun: ECCO 35
- Paint Hose 8 m
- Air hose: 8 m

With spray gun ECCO 35	Ord. No.
Spray Pack 317 (steel frame)	8613 2311 70
Spray Pack 317L (lid for container 20 lit.)	8613 2311 71
Spray Pack 317B (for wall mounting)	8613 2311 72

Optional equipment:	Ord. No.
Wheel set	6004 0169 70

ECCO SPRAY PACKS

An ECCO Spray Pack equipment is based on the ready-to-use principle. A Spray Pack consists of all the equipment necessary to start to spray.

SPRAY PACK 313E

	Ord. No.
Spray Pack 313E	8613 2311 50
Spray gun ECCO 35	8611 3548 14
Pressure Cup PRC mini 2,0 l	8622 0200 00
ECCO Ergotube 1,5m	6003 9900 61

SPRAY PACK 314B

	Ord. No.
Spray Pack 314B	8613 2311 51
Spray gun ECCO 35	8611 3548 14
Pressure Tank P10R	8622 0216 09
ECCO Ergotube 5 m	6003 9796 05

ECCO PRESSURE FEED TANKS

CLOSED AND SAFE HANDLING

The ECCO pressure feed tanks are suitable for all sprayable material and provide safe storage. Having almost no wearing parts they are first choice for paints with abrasive pigments. To prevent the build up static charge all of the tanks have an earthing device.

COMPLETE, READY FOR START UP

The tanks are made of galvanized steel and as standard equipped with regulator, pressure gauge, safety relief valve, re-filling port and ball valves for air and paint. All you have to do is fill with paint and connect to your air supply and spray gun. Volume 9 - 90 litres.

PNEUMATIC STIRRER

For continuous stirring ECCO pressure feed tanks with a manual stirrer can easily be equipped with an oilfree air motor.

TOP OR BOTTOM FEED

For more viscous materials ECCO pressure feed tanks with bottom outlet should be used.

PRESSURE FEED TANK

Air connection: G 1/4 male. Paint connection: G 3/8 male.



TOP FEED

Type	Volume litre	Air pressure max., bar	Height mm	Inner Ø mm	Width mm	Weight kg	Ord. No.
P10R(S)-2.4	9	2.4	520	210	330	8	8622 0216 09
P12R-6	12	6	545	245	350	25	8622 0116 12
P12RA-6*	12	6	695	245	350	27	8622 0116 13
P24R-6*	24	6	945	245	350	32	8622 0116 24
P45R-4*	45	4	885	360	470	46	8622 0116 45
P45R-6*	45	6	885	360	470	46	8622 0116 46
P90R-6*	90	6	1165	360/440	470	63	8622 0116 90

* With manual stirrer.

BOTTOM FEED

Type	Volume litre	Air pressure max., bar	Height mm	Inner Ø mm	Width mm	Weight kg	Ord. No.
P24RP-6	24	6	795	245	525	30	8622 0116 25
P45RP-4	45	4	735	360	645	44	8622 0116 47
P45RP-6	45	6	735	360	645	44	8622 0116 48

For stainless steel versions, please contact your nearest retailer of ECCO Products.

AIR MOTOR FOR STIRRER

Explosion proof air powered motor for ECCO tanks with stirrers. Including bracket, quick coupling for air hose, speed control valve and silencer. Air consumption at 100 - 150 rpm: 150 - 200 l/min.



ELM 33 P Ord. No. **8610 0110 60**

OVERFLOW PROTECTOR

Facilitates the filling of ECCO Pressure Feed Tank 12 - 500 litres.



StopFlow Ord. No. **6003 9157 00**

ECCO PSU-20

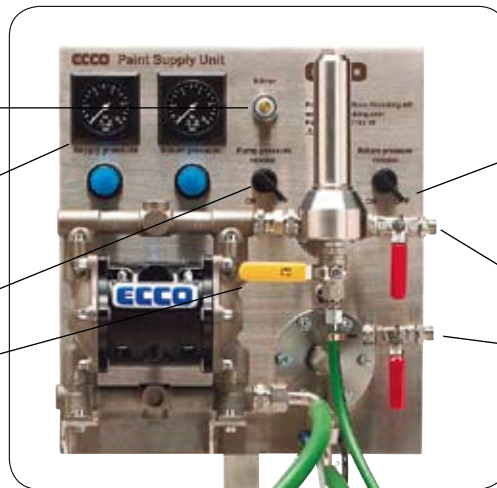
READY TO USE PAINT SUPPLY UNIT

The Paint Supply Unit has all its functions located on the panel. This gives a very clear overview of the settings in minimum of time. All functions are located and prepared for production or cleaning/flushing settings. No risk of using wrong settings after cleaning of filling the system. Just operate by a switch. All parts have been designed to reduce trapped paint pigments internally, and to reduce paint volume. Even change of paint filter can be done without one drop of paint spilled on external surfaces.

One pump for all needs in low pressure systems for paint feeding, local or central. Suitable for all type of primer-, base- clear coat and catalyst. The same type of panel with stand is used for the different

systems. This gives an easy installation and makes it easy to keep clean during operation. All parts in the stand and paint systems are made in stainless steel for optimal function. The construction gives a very clean surface around the paint systems, all the hoses and connections are placed in the same height as the pump panel and is protected by this. The whole design gives a very low sound-level and operative cost, often reduced by 50% or more.

The unit is very user friendly, easy to install and service. The operator has all information clearly displayed and labelled and all service can be done rapidly on the functional parts without any risk of splashing paint or solvent.



Speed control valve for stirrers air motor.

Pressure regulators and gauges for paint pressure, in/out. Alternative for Nitrogen in hardener system.

Relief valve for outgoing paint pressure.

Drainage valve for filter and pump.

Relief valve for return paint pressure.

- Shut-off valves for:
- Paint feeding
 - Return paint feeding

Base / Clear coat system
6004 0163 70



Base / Clear coat system
6004 0163 71



Solvent system
6004 0163 80



Catalyst / Nitrogen
6004 0163 90



Technical data

	Base / Clear coat system 6004 0163 70	Base / Clear coat system 6004 0163 71	Solvent system 6004 0163 80	Catalyst / Nitrogen 6004 0163 90
Pump in SS	•	•	•	•
Filter house and cartridge in SS	•	•	•	•
Paint pressure regulator in SS	•	•	•	•
Back pressure regulator in SS	•	•	•	•
Stand and spillage tray for container (20 lit.)	•	•	•	•
Air motor with gear box for stirrer	•	•	•	•
Cover (can be opened 1/3)	•	•	•	•
Suspension device for cover in stand	•	•	•	•
Propeller stirrer	•	•	•	•
Disc stirrer	•	•	•	•
Shut-off valves for paint in/out	•	•	•	•
Nitrogen pressure regulator	•	•	•	•
Nitrogen container (40 lit.)	•	•	•	•
Adjustable flow valve for circulation	•	•	•	•

ECCO LOW PRESSURE PUMPS - DIAPHRAGM

ECCO FLOW CT15 / PN15 / ALT25

Lubrication free diaphragm pumps with non freeze and non stalling air system. The pumps have modular design, are easy to maintain and have high air efficiency. The CT15 is a conductive plastic pump with diaphragms in PTFE, suitable for many pumpable fluids in temperature range 0-66 C°. The PN15 is a polypropylene pump with PTFE diaphragms,

same temperature range as CT15. The polypropylene pump can handle many of the fluids which the CT15 cannot. The ALT25 is a pump in aluminum with PTFE diaphragms, valve seat in Nylon and ball in PTFE other material available as option, and can handle fluid temperature up to 93 C°.

	ECCO FLOW CT15 8621 0312 09	ECCO FLOW PN15 8621 0310 01	ECCO FLOW ALT25 8621 0312 10
Pressure Ratio	1:1	1:1	1:1
Capacity l/min	0-64	0-64	0-156
Inlet Air Pressure bar min/max	1,3 - 8,2	1,3 - 8,2	1,3 - 8,2
Air consumption at 8 bar, l/min	0-approx.565	0-approx.565	0-approx.1100
Self-Priming	Yes	Yes	Yes
Dry lift capacity at 6.8 bar	3,2	4,5	3,2
Max pumpable particle size mm	3,2 mm	3,2 mm	6,2 mm
Air inlet	G 1/4 ext.	G 1/4 ext.	G 1/4 ext.
Liquid inlet	G 1/2" int.	G 1/2" int.	G 1" int.
Liquid outlet	G 1/2" int.	G 1/2" int.	G 1" int.
Adjustable liquid connections	yes	yes	yes
Weight, kg	5,4	4,1	10,5
Housing material	Nylon	PP	Aluminum
Diaphragm material, wet site/dry site	PTFE/Santopren	PTFE/Geolast	PTFE/Santopren
Sealing rings	PTFE	Nitril	PTFE

ECCO FLOW AL15 / SS15

Metallic diaphragm pumps with small dimensions, but high performance. All components in direct contact with the fluid, such as valves, diaphragms, covers and manifolds, have been manufactured using materials which are highly resistant to physical and chemical wear, thus allowing you to handle the most of the existing liquids.

	ECCO FLOW AL15 8621 0520 01	ECCO FLOW SS15 8621 0510 01
Pressure Ratio	1:1	1:1
Capacity l/min	0-52	0-52
Inlet Air Pressure bar min/max bar	1-8	1-8
Air consumption at 8 bar, l/min	0-approx.375	0-approx.375
Self-Priming	Yes	Yes
Dry lift capacity at 6.8 bar	4,9	4,9
Max pumpable particle size mm	2,0 mm	2,0 mm
Air inlet	G 1/4 ext.	G 1/4 ext.
Liquid inlet	G 1/2 int.	G 1/2 int.
Liquid outlet	G 1/2 int.	G 1/2 int.
Adjustable liquid connections	yes	yes
Weight, kg	3,8	6,1
Housing material	Aluminum	Stainless Steel (SS)
Diaphragm material	PTFE	PTFE
Sealing rings	PTFE	PTFE
Valve seat/ball	SS/SS	SS/SS



ECCO LOW PRESSURE PUMPS - PISTON

COMPACT PISTON PUMPS FOR TRANSFERRING FLUIDS

For transferring and circulating anything that flows.

- Air-powered transfer pumps for small and high flow rates
- Circulation pumps and regulators for long lines
- Complete Transfer Packs
- Air-powered stirrers for large and small containers
- Combined pumps and stirrers

WIDE RANGE OF APPLICATIONS

ECCO Flow M2P are small, handy pumps designed for transferring fluids. The applications are for all fluids that needs to be transferred. Suitable for all industries.

SMALL SIZE AND HIGH VERSATILITY

A M2P pump has low weight and small dimensions which makes it easy to handle and easy to install. The wide range of accessories makes it easy to alternate between different jobs.

DESIGNED FOR SAFETY

ECCO Flow M2P can be driven against closed valve to a standstill without damage. This feature can also be utilized as a remote control as it makes the pump stop and start without manual attention when the valve is opened or closed.

Material - ECCO M2P 18B/20B

	M2P 18B	M2P 20B
Pressure ratio:	M2P 18B	M2P 20B
Piston rod	Hard-chromed plated stainless steel	Brass
Piston rod packing	Teflon	Teflon
Piston packing	Glas-fibre reinforced teflon	Glas-fibre reinforced teflon
Cylinder	Nitride hardened stainless steel	Brass
Pump hosing	Glass-fibre reinforced polyamide	Glas-fibre reinforced polyamide

Technical data

Pressure ratio:	1:2	
Max fluid pressure:	3.7 bar	
Capacity	- water	40 l/min
	- 35 sec viscosity	25 l/min
Fluid intake:	G 1 int.	
Fluid outlet:	G 1/2 int.	
Max working pressure for air:	7.5 bar	
Air consumption at an air pressure of 6 bar	0 - approx. 200 l/min	
Air connection	- M2P 18B	G 1/4 ext.
	- M2P 20B	Quick coupling/air hose 3/8" int.
Sound level	60 dB(A)	

ECCO FLOW M2P 18B

ECCO Flow M2P 18B can handle all materials which can be pumped with M2P 20B and abrasive materials. Suitable for paints and solvents. To manage the strains the piston rod is manufactured from hard-chromed plated stainless steel and the cylinder from nitride hardened stainless steel. The pump is equipped with non-return valve.



Ord. No.

ECCO Flow M2P 18B

8621 0111 57

ECCO FLOW M2P 20B

ECCO Flow M2P 20B is suitable for non-abrasive materials like alcohol, butanol, cleaning fluid and soap solution, petrol and diesel oil, ethanol, ether, glycerine, glycol, methanol, mineral-, synthetic and vegetable oil, paraffi, cold and warm water. Pumping of foodstuff is not recommended. The pump is equipped with a valve for air and quick-coupling.



Ord. No.

ECCO Flow M2P 20B

8621 0110 09

ECCO HOSES FOR LOW PRESSURE

ECCO ERGOTUBE™ - THE NEW WAY OF SUPPLYING PAINT

ECCO Ergotube™ is a unique system to supply air and paint to the spray gun through a patented combo-hose, where the paint hose is placed inside the air hose. The ECCO Ergotube™ solution reduces the total weight and twist torque, making the handling of the gun much easier for the painter. The ECCO Ergotube™ hose can be used for most types of paint (primer, base-, top- and clear coat) as the material of the paint hose reduces the risk of contamination in the final coating of the surface. The paint hose in teflon (FEP as standard in Ø 4-6 mm internal) makes flushing easier and reduces the use of solvent. The special finish on the outer surface of the air hose prevents paint from adhering to it, making cleaning easier.

Length, m	Rec fluid viscosity, sec. SIS/DIN 4	Dimension air hose/paint hose	Ord. No.
2	0-50	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 02
3	0-30	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 03
4	0-45	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 04
5	0-30	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 05
6	0-27	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 06
6	0-40	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 06
7	0-25	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 07
8	0-30	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 08
10	0-25	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 10

Other sizes available on request.

Paint connecting nipple for Ergotube™	Dimension hose	Ord. No.
	Ø 4/6 mm	6101 5021 91
	Ø 6/8 mm	6101 5021 92



AIR HOSE/COUPLING

Despite its strength it is flexible enough to accompany the gun movements. Per metre or in standard 8 m lengths incl. couplings G 1/4 female with cap nut.



Inside Ø mm/inch	Ord. No. per metre	Ord. No. coupling G 1/4	Ord. No. compl. 8 m
6.3 1/4	6803 6686 00	6001 1235 00	
8.0* 5/16	6003 7346 00	6003 7338 00	6003 7363 08
9.5 3/8	6803 6687 00	6001 1239 00	6203 1460 08

* Recommended.

PAINT HOSE/COUPLING

ECCOflex is resistant to paints solvents, weak acids or water at temperatures of up to +100°C. Outer sheathing of reinforced polyester and the inner hose of nylon. Per metre or L= 8 m, incl. coupling G 3/8 female with cap nut.



Inside Ø mm/inch	Ord. No. per metre	Ord. No. coupling G 3/8	Ord. No. compl. 8 m
6.3* 1/4	6803 6684 00	6003 5629 00	6003 7366 08
9.5 3/8	6803 6685 00	6001 1241 00	6003 7369 08

* Recommended.

THROTTLE VALVE

To be mounted on the air inlet of the gun. Connection threads: G 1/4 female - G 1/4 male.



Ord. No.

For ECCO spray guns 40S/401S/402S/65S/651S/652S

6003 8002 00

PAINT AND AIR VALVES



Connection thread	Hole Ø mm	Max. working pressure, bar	Ord. No.
G 1/4 male	6	40	6803 0300 00
G 3/8 male	9	40	6803 0301 00
G 1/4 female	7	40	6003 7774 00

CONNECTING NIPPLE

Joining nipples with cone for hose coupling.



Thread male	Hole Ø mm	Material	Ord. No.
G 1/4 - G 1/2	7	Stainless Steel	6002 0236 46
G 3/8 - G 1/4	7	Stainless Steel	6002 0238 46
M 14x1 - G 1/4	8	Stainless Steel	6102 9314 46

ACCESSORIES - ECCO MANUAL SPRAY GUNS

NOZZLE SET - ECCO 35/352

Consists of air cap, fluid nozzle in stainless steel and paint needle in tungsten carbide. For all manual ECCO 35 spray guns.



Paint nozzle Ø mm	ECCO 35	ECCO 352
1.3	6004 0279 13 (T272)	
1.4		6004 0278 14 (6514)
1.8	6004 0279 18 (T274)	6004 0278 18 (6518)
2.1	6004 0279 21 (T374)	6004 0278 21 (6521)
2.7	6004 0279 27 (T474)	6004 0278 27 (6527)

For ordering separate parts, see spare part lists.

Paint needle also available in nylon or stainless steel.

NOZZLE SET - ECCO 40S/401S/402S

Consists of air cap, fluid nozzle in stainless steel and paint needle in nylon. For all manual ECCO 40 spray guns.



Paint nozzle Ø mm	ECCO 40	ECCO 401, 402
1.3	6003 9772 13 (T272)	6003 9771 13 (273)
1.5	6003 9772 15 (T272)	6003 9771 15 (273)
1.8	6003 9772 18 (T272)	6003 9771 18 (271)
2.1	6003 9772 21 (T374)	6003 9771 21 (375)
2.7	6003 9772 27 (T474)	

For ordering separate parts, see spare part lists.

Paint needle also available in stainless steel or tungsten carbide.

NOZZLE SET - ECCO 65S/651S/652S

Consists of air cap, fluid nozzle in stainless steel and paint needle in nylon. For all manual ECCO 65 spray guns.



Paint nozzle Ø mm	ECCO 65, 651, 652
1.1	6003 9235 11
1.4	6003 9237 14
1.8	6003 9239 18
2.1	6003 9242 21
2.7	6003 9246 27

For ordering separate parts, see spare part lists.

Paint needle also available in stainless steel or tungsten carbide.

SERVICE KIT

Contains gaskets, seals and other wear components. Detailed installation instructions included.



	Ord. No.
For gun ECCO 35/352	6003 9095 35
For gun ECCO 40S/65S	6003 9095 00

STRAINER INSERT

Strainer made of nylon. Fits behind the paint nozzle.

For manual ECCO 40, ECCO 65 models and for ECCO 70.



Mesh size mesh / µm	Colour	Qty per set	Ord. No.
60 250	White	10	6103 3200 00
100 150	Yellow	10	6103 3201 00
200 70	Black	10	6103 3202 00

VISCOSITY CUP DIN 4

Cup made of plastic or aluminum for measuring the viscosity.



	Ord. No.
Plastic	6803 3567 00
Aluminum	6003 7582 00

CLEANING BRUSH

For cleaning nozzles and paint channels.



Diameter, mm	Ord. No.
10	6000 8004 00
17	6000 8001 00

ACCESSORIES - ECCO MANUAL SPRAY GUNS

PRC 4, PAINT CUP

New pressure pot with quick coupling for the lid. All internal and external surfaces have been optimised for efficient cleaning and colour change. PRC4 has most of the necessary functions built into the cover: safety valve, connection for Ergotube, non return valve and connections for air supply.



Technical data	
Paint volume	4.0 lit.
Weight	3.5 kg
Material	Coated Aluminum
Sealing	Viton/Teflon/Peflour

	Ord. No.
PRC 4	8622 0104 04

Optional equipment		Ord. No.
Liner		6004 0165 15
Paint volume	3.6 lit.	
Material	PP	

Ergotube for PRC 4

Length, m	Dimension air hose / paint hose	Ord. No.
4.0	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 40
5.6	Ø 10 mm (3/8") / Ø 6/4 mm	6003 9796 56
4.0	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 40
7.0	Ø 10 mm (3/8") / Ø 8/6 mm	6003 9798 70

For more information about Ergotube see ECCO Hoses for low pressure page 13.



Suction cups for ECCO Manual Low Pressure spray guns

	Ord. No.
SD 10 aluminum, 1.0 lit., 530 g	6803 4867 00
SD 15 aluminum, 1.0 lit.	6003 9714 00
Drop-free diaphragm for SD15 (set of 5 pcs)	6003 9684 00



Suction cups for ECCO Manual Low Pressure spray guns

	Ord. No.
Plastic cup G5, 0.5 lit.	6101 5560 00
Plastic cup G1, 0.125 lit.	6101 5560 95
Paint filter for gravity cup 100 Mesh	6003 9752 05
Adapter for 3M Cup	6004 0065 00

AIR FILTER/PRESSURE REGULATOR



Dry and clean air at a constant pressure is an important factor to achieve a good result when spraying. LR 510 R is an efficient combined air filter, water trap and pressure regulator. Compact design and easy maintenance ensures high reliability. It is easy to install, and is equipped with air regulator and gauge. Two guns can be connected at the same time. The air filter will collect particles larger than 15 µm.

Technical data	
Inlet connection thread	G1/2 female
Outlet connection thread	G 1/4 male
Max. working pressure	- primary 14 bar - secondary 8 bar
Capacity at a primary circuit pressure at 6 bar	1 500 l/min

	Ord. No.
LR 510 R	8202 0212 52

STRAINER SET FOR PAINT CUPS

Fits on the suction pipe with outside diam. 9 - 12 mm.
Size 80 mesh, 10 pcs. per set.

	Ord. No.
For cup PRC2, SD10, SD 15	6003 7886 00

PRC MINI & PRC 2, PAINT CUPS



Pressure cup for ECCO Manual Low Pressure spray guns

	Ord. No.
PRC Mini, 2.0 lit.	8622 0200 00
PRC 2, 2.5 lit.	8622 0100 00

PERSONAL PROTECTION

FRESH AIR HOOD JUNIOR

Junior is recommended for spray painting. The hood will protect the wearer against dust and fumes. The large window which can be raised is covered by protective foil. The Fresh air hood Junior includes innerhood, protecting foil (10 pcs.), air hose and belt with throttle valve with nipple for connection to air hose Ø 6.3 mm (1/4") female. Air consumption: 150 - 200 l/min.



	Ord. No.
Fresh air hood Junior	8615 0133 35
Innerhood, set of 10 pcs.	6803 6678 00
Protecting foil, set of 100 pcs	6803 6679 00

AIR THERMOSTAT VORTEX

For air conditioning of fresh air helmets and hoods. The temperature of the breathing air (warm/cold) is adjustable. An air thermostat Vortex includes hose nipple Ø 1/4" female. To be installed between air filter and helmet.



	Ord. No.
Air thermostat Vortex	8615 0133 70

HOSE FOR BREATHING AIR

Air hose made of wear resistant PVC. Delivered per metre. Outer diam. 11 mm.

	Ord. No.
Air hose, inner diam. 1/4"	6003 9598 00
Coupling G 1/4 with cap nut and hose clamp	6001 1235 00
Quick coupling QIC 10A H06	8202 1302 02
Nipple NIP 10A H06	8202 1202 11
Hose clamp	0347 0122 07

AIR FILTER

Air filter for breathing air, can be connected directly to the air supply. The filter will remove particles larger than 0.01 µ, oil fumes and odours. The filter will not remove methane, carbon monoxide or other toxic gases. Normal work pressure.



Technical data	
Working pressure	max. 6 bar
Normal working pressure to safety helmet	3 bar
Air capacity	360 l/min
Air connections	G 1/4 female
Air connections	6/8 mm hose
Weight	2.5 kg

	Ord. No.
Air filter AFR 6	8202 0217 60
Bracket for wall-mounting	6003 6764 00
Ceramic filter, AFR13 before 2007-10	1202 6257 01
Ceramic filter, AFR13 after 2007-10	1202 6257 02
Ceramic filter, AFR6	1202 6257 06
Chemical filter, AFR13 before 2007-10	1202 6281 01
Chemical filter, AFR13 after 2007-10	1202 6281 02
Chemical filter, AFR6	1202 6281 06

ECCO AUTOMATIC SPRAY GUNS

THE WORLDS MOST RELIABLE AUTOMATIC SPRAY GUN

- For mounting on robots or reciprocators
- External control of spraying parameters
- Durable spray gun ensure excellent finish to meet high production levels
- Unique technology in air cap design and manufacturing gives a controlled spraying process
- Service friendly
- Simple and rigid mounting
- Suitable for all types and flow rates of paint or liquids
- Large variability in types, sizes and materials of fluid nozzles, air caps and fluid needles (SS, tungsten carbide, zirconium and titanium)

ECCO 70A/70AS/70AP/75AP

ECCO 70A / 70 AS / 70AP



For use with water or solvent borne materials on all types of robots and reciprocators. ECCO 70 ensures a uniform spray pattern even after replacement of air cap and fluid nozzle. Due to reduced internal pressure drop of atomizing and fan air, the ECCO 70 can stabilize the output parameters. Atomizing and fan air is completely separated from the inlet to the air cap. Exterior surfaces are easy to clean and treated to ensure minimum dirt collection. For mounting plate for reciprocator or robot, see page 19 for strainer inserts 70 µ - 250 µ, see page 14.



The AP version is an improved ECCO 70AS for sensitive applications with high demands on purging and colour changing efficiency. The internal paint volume is reduced by 70% and all the threads in contact with paint is eliminated. Angles of paint channels is optimized for best possible cleaning effect. The seal arrangement between gun and manifold are designed to prevent paint from being trapped, this to reduce the risk of contamination of the paint e.g. after a colour change. New type of piston and piston sealing (UHMW) used for improved performance.

Technical data	ECCO 70A	ECCO 70AS	ECCO 70AP
Weight	570 g	960 g	960g
Housing	Alu/Tuf*	SS	SS
Cylinder	Alu/Tuf*	Alu/Tuf*	Alu/Tuf*
Nozzle	SS or TC**	SS or TC**	SS or TC**
Air cap	Alu/Tuf*	Alu/Tuf*	Alu/Tuf*
Needle	4 mm SS or TC**	4 mm SS or TC**	4 mm SS or TC**
Sealings	Teflon/Perfl.***	Teflon/Perfl.***	Teflon/Perfl.***

* Tuf is a unique process of hardening and reducing friction on aluminum

** Tungsten Carbide *** Perfluor 128 is equal to Kalrez 4079

	Ord. No.
ECCO 70A	8611 6170 XX
ECCO 70AS	8611 6171 XX
ECCO 70AP	8611 6174 XX

When ordering please state fluid nozzle, air cap and fluid needle (see spare part list).

ECCO 75AP



The ECCO 75 AP has the same functions as the ECCO 70AP but is designed for applications where the areas are small and narrow. ECCO 75AP represent the latest development in automatic guns. Well-known technology has been used in the air caps and nozzles, in combination with new design on the gun body. The result is a very compact unit with highest possible core values in performance. TCP and interface is equal to the ECCO 70 models.

Technical data	ECCO 75AP
Weight	490g
Body	SS
Nozzle	SS, TC**
Air cap	Alu/Tuf**
Needle	4 mm SS, TC.**, Ceramic
Sealings	Teflon/Perfl.*, UHMV

* Tuf is a unique process of hardening and reducing friction on aluminum

** Tungsten Carbide *** Perfluor 128 is equal to Kalrez 4079

	Ord.No.
ECCO 75AP	8611 6175 XX

AIR CAP GUIDE LINE

Air cap	Paint nozzle	Automotive	Leather	Ceramic	Plastic	Glue	Wood	General Industry
T272	0.3-1.8		•				•	•
T274	0.3-1.8	•	•		•		•	•
T278	0.3-1.8	•	•		•		•	•
T297	0.3-1.8	•	•	•	•			
T374	2.1-2.7	•		•		•		•
T378	2.1-2.7	•		•				•
T474	2.7	•	•	•		•		•
M370	2.1					•		
M470	2.7			•		•		

ECCO 60AS/65AS/40DA

ECCO 60AS CONVENTIONAL, ECCO 65AS HVLP

The ECCO 60AS and ECCO 65AS are compact and well suited for mounting on robot arms. The paint needle has air operated opening and closing by spring action. The short reaction time ensures a perfect spraying result and low paint consumption. The needle seal is adjustable during operation. Simple and rigid mounting. Precise alignment by locating pin. Large paint supply control with exact setting with stepped positions. ECCO 60AS/65AS are stainless steel versions for abrasive and corrosive fluids. The guns are service friendly, requiring only standard tools.



Technical data - ECCO 60AS CONVENTIONAL

Paint nozzles	0.3 - 2.7 mm
Paint connection	G 3/8
Air connection	Ø 8 and 10 mm
Air pressure	max. 7 bar
Air consumption	250 - 700 l/min
Weight	837 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0-10	1.1	T278	8611 6160 62
0-15	1.3	T272	8611 6160 63
0-20	1.5	T272	8611 6160 67
0-30	1.8	T272	8611 6160 68
0-40	2.1	T374	8611 6160 69
0-50	2.7	T474	8611 6160 70

Accessories	Ord. No.
Kit for remote fan width control (ECCO 60AS)	6003 6691 80
Kit for remote fan width control (ECCO 65AS)	6003 9697 80
Service kit for gun ECCO 60AS/65AS	6003 6572 00



Technical data - ECCO 65AS HVLP

Paint nozzles	0.3 - 2.7 mm
Paint connection	G 3/8
Air connection	Ø 8 and 10 mm
Air pressure	rec. 3 bar
Air consumption	approx. 260 l/min
Weight	828 g

Viscosity SIS/DIN 4 (sec.)	Paint nozzle Ø mm	Air cap	Ord. No.
0-10	0.9	6509	8611 6560 09
0-15	1.1	6511	8611 6560 11
0-20	1.4	6514	8611 6560 14
0-30	1.8	6518	8611 6560 18
0-40	2.1	6521	8611 6560 21

ECCO 40DA



Technical data	
Paint nozzle diam.	0,3 - 2.1 mm
Paint connection	G 3/8
Air connection	G 1/4
Air pressure	max. 6 bar
Air consumption	250 - 700 l/min
Weight	305 g

Paint nozzle Ø mm	Air cap	Ord. No.
1.3	T272	8611 5210 25
1.5	T272	8611 5210 10
1.8	T274	8611 5210 66
2.1	T374	8611 5210 67

The ECCO 40DA is an automatic spray gun for spraying abrasive and other similar material (i.e. vitreous enamel). The gun has no paint needle. The material flow is accurately controlled by a diaphragm, sealing against a tungsten carbide seat. ECCO 40DA is small and easy to install.

For more combinations see spare parts list.

ACCESSORIES - ECCO AUTOMATIC SPRAY GUNS

GUN ADAPTERS FOR ROBOT

All gun adapters are produced in aluminum coated for mechanical and chemical resistance to all types of paints and solvents. The aluminum also gives a better sealing surface to the gun and the hose kit, compared to plastic adapters. TCP remains unchanged to standard gun adapters. Interface for all ECCO 70 and 75 guns.



	Ord. No.
Gun adapter for robot (60°) ABB	6004 0099 00

GUN ADAPTER WITH VALVE

Gun adapter with dump valve, compl. for robot (60°) ABB



	Ord. No.
Gun adapter with dump valve, compl. for robot (60°) ABB	6004 0099 50

HOSE KITS FOR ROBOTS

The hose kits are made to fit hollow wrist painting robots. Fluid hoses in FEP and air hoses in PU. Standard length: 4,2 meter. Sealings in PF 128 (equal to Kalrez).

	Ord. No.
Hose kit for ABB 580/5400	6004 0100 00
Hose kit for ABB 580/5400 with dump valve	6004 0100 50

MOUNTING PLATE

This universal mounting plate is produced in SS or aluminum with coating. Interface for all ECCO 70 and 75 guns. Can be used for mounting on robots, reciprocators or other installations. Is prepared for paint circulation.



	Ord. No.
Mounting plate SS	6003 9770 20
Mounting plate Aluminum	6003 9770 25

PAINT CONNECTIONS

Larger sized paint connections for mounting plate **6003 9770 20-25**

	Ord. No.
Paint connection 3/8"	6003 9770 51

ECCO CAP CLEANER

The ECCO cap cleaner is the perfect choice to be used with ECCO 70/75 range of automatic guns. With this device you are securing production quality by knowing that the air cap is always clean. The 4+4 nozzles clean and dry the air cap in just a few seconds. Solvent and dumped paint material can also easily be collected for reducing waste handling in the booth. The cap cleaner is available in alternative models for single, dual or triple guns.



	Ord. No.
ECCO cap cleaner	6004 0101 00
ECCO cap cleaner twin	6004 0101 40
ECCO cap cleaner triple	6004 0101 50

PAINT SUPPLY

ECCO FLOW COL 06 AP & SP

Paint pressure regulator with pneumatic or spring controlled regulation of the paint pressure. This new generation of paint pressure regulators will give you high accuracy on the paint pressure and will reduce the pulsations in your system to a minimum. All parts in contact with paint are in stainless steel which makes it suitable for waterborne paint.



ECCO Flow Col 06 AP
(Air controlled pressure)



ECCO Flow Col 06 SP
(Spring controlled pressure)

Technical data	
Max primary pressure	10 bar
Max secondary pressure	8 bar
Min secondary pressure	0,5 bar
Max paint flow	Depends on viscosity, system pressure, hose size etc.
Type	Ord. No.
ECCO Flow Col 06 AP	8623 0136 46
ECCO Flow Col 06 SP	8623 0136 47
Wall bracket	6004 0225 15

ECCO LP CCM

ECCO LP CCM is a pneumatically operated colour change system. The system is modular and can be built according to customer needs. All material in contact with liquid are produced in high grade stainless steel. Sealings and o-ring are from UHMW and Perflour 128 to withstand all known paints and solvents. ECCO LP CCM can be equipped with a free number of colour changing valves (CCV). The modules are prepared for circulation. The use of specially designed fittings obtain a dead end free connection all the way from the plastic hose to the valve. This will give trouble free operation and optimum conditions for the circulated materials.



Technical data	
Max paint pressure	20 bar
Recommended paint pressure	2-6 bar
Max paint flow	Depends on viscosity, system pressure, etc.
Recommended pilot air pressure	5-9 bar
Max air pressure, for flushing/purging	20 bar
Max solvent pressure, for flushing/purging	20 bar
Max operating frequency	60 cycles/minute intermittent
Type	Ord. No.
ECCO LP CCM	8611 4710 00-90



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