

PRODUCT CATALOG

INDUSTRIAL PRODUCTS

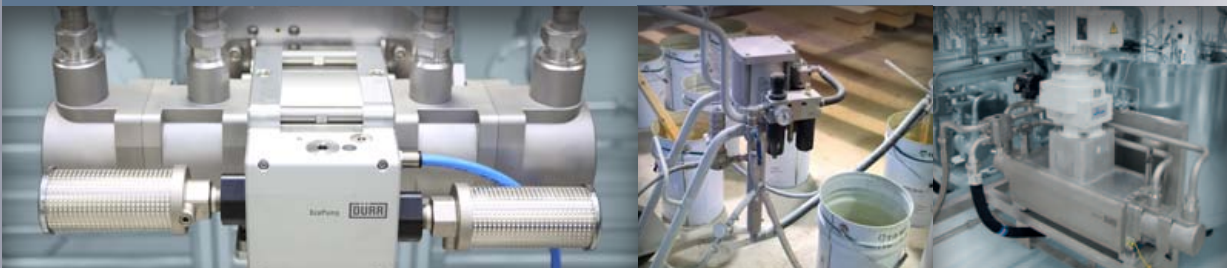


FOUR PRODUCT GROUPS – ENDLESS OPTIONS

APPLICATION



PUMPS & FLUID HANDLING



DOSING UNITS



CONTROL UNITS



Table of content

DÜRR AT GLANCE.....	4
APPLICATION	6
Rotary Atomizers	7
Spray Guns Airspray	10
Spray Guns Airless	20
Spray Guns Air-Assist	24
Color Changers	29
Cleaning Devices	33
Painting Walls & Booths	35
PUMPS & FLUID HANDLING.....	37
Pumps.....	38
Pressure Regulators	54
Pressure Pots	61
Agitators	64
Filters.....	68
Pressure Gauges.....	73
Hoses	76
Dosing units.....	78
Dosing Unit 2K.....	79
Control Units	81
EcoAUC	82
EcoPUC A.....	85
EcoPUC MC	87

RELEASE DATE: 2017/04/07

VISIT OUR PRODUCT CATALOG WEBSITE:

webshop.durr.com

- » Always most upto date product information
- » Product configuration to select right product variant



DÜRR AT A GLANCE

The Dürr Group is one of the world's leading mechanical and plant engineering firms with outstanding automation expertise. Products, systems and services offered by the Group enable highly efficient manufacturing processes in different industries. Dürr supplies not only the automotive industry but also other sectors such as the mechanical engineering, chemical and pharmaceutical industries, and – since the takeover of HOMAG Group AG in October 2014 – the woodworking industry. Dürr has 92 business locations in 28 countries. With 15,200 employees, the Group generated sales of € 3.57 billion in 2016.

DÜRR GROUP BRANDS



As a general contractor we offer everything from a single source: Plant, application and environmental technologies as well as conveyors, control, automation and manufacturing executions systems and last but not least service and modernization solutions. In the high-tech sector of automated paint application, the Application Technology division is the clear world-market and technology leader. Dürr makes a key contribution to reducing air pollution in a wide range of industries. Our customers are companies of the automotive industry, automotive suppliers and manufacturers of commercial vehicles, buses, agricultural machines and special vehicles.

Schenck stands for over 125 years of quality and innovation in balancing and diagnosis technology. Over this time, we have contributed a great deal to their technical development, and are today the world market leader. Our balancing and diagnostic systems ensure that your plane lands safely, that your razor runs quietly and smoothly, and that you can enjoy the comfort of your car for a long time. Jet engines, razors or engines running smoothly and without vibration will not produce excessive noise, which may be transmitted to other components, or cause malfunction. Schenck RoTec provides the technology to ensure this.

We are the world's leading manufacturer of machines and systems for the wood-processing industry and trades. As a global player, we operate international production plants as well as sales and service companies. With around 6000 employees, we have a presence in more than 100 countries and an estimated global market share of just under 30%. Our customers use high-tech machines and systems from the HOMAG Group to produce home and office furniture, kitchens, parquet and laminate flooring, windows, doors, staircases and even complete prefabricated timber-frame buildings.

DÜRR GROUP DIVISIONS

APPLICATION TECHNOLOGY



Paint applications, glueing and seam sealing technology; Products for industrial painting

PAINT AND FINAL ASSEMBLY SYSTEMS



Paint and Final Assembly Systems

MEASURING AND PROCESS SYSTEMS



Balancing, assembly, testing and filling technology.

CLEAN TECHNOLOGY SYSTEMS



Exhaust-air purification systems, energy efficiency technology

WOODWORKING MACHINERY AND SYSTEMS



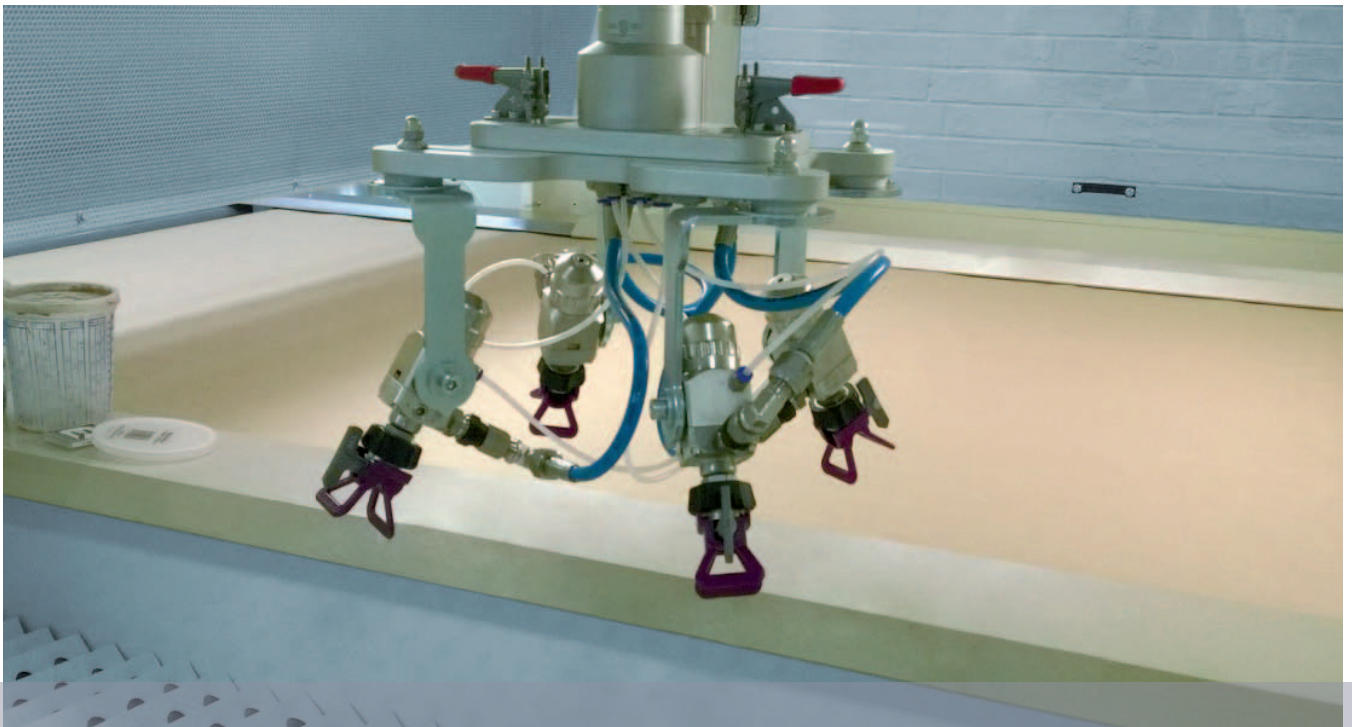
Machinery and plants for woodworking

INDUSTRIAL PRODUCTS



Thanks to the ongoing innovation and global presence, Dürr is the world market leader in application technology for the automotive industry. Dürr will continue with this successful model and transfer it to other sectors.

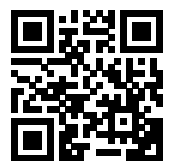
Dürr also offers premium application technology for paint and high-viscosity materials, suitable for all industries where corrosion protection and decorative painting matter. The target group of the "Industrial Products" area created for this purpose includes industries such as plastics, construction, shipbuilding, ceramics, wood and furniture.



APPLICATION

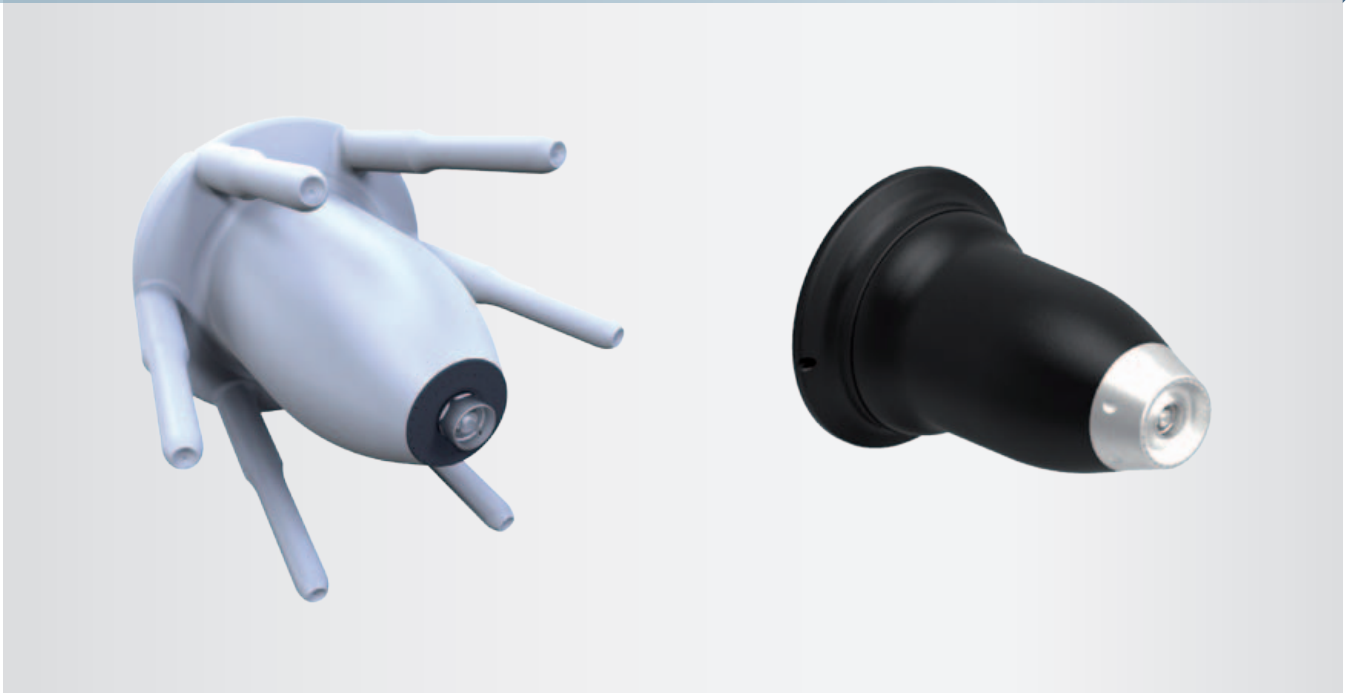
Product Groups

- » Rotary Atomizers..... 7
- » Spray Guns Airspray10
- » Spray Guns Airless.....20
- » Spray Guns Air-Assist24
- » Color Changers29
- » Cleaning Devices.....33
- » Painting Walls & Booths.....35



Rotary Atomizers

State of the art paint application



Product Families

» **EcoBell2 SL** – rotary atomizers with external or direct charge



EcoBell2 SL

Rotary atomizers

Description

EcoBell2 SL is state of the art painting atomizers with electrostatic charging. Unique design and high transfer efficiency make this device perfect choice for every one who is requiring top quality results. The very fine and smooth atomization is suitable even for the highest quality

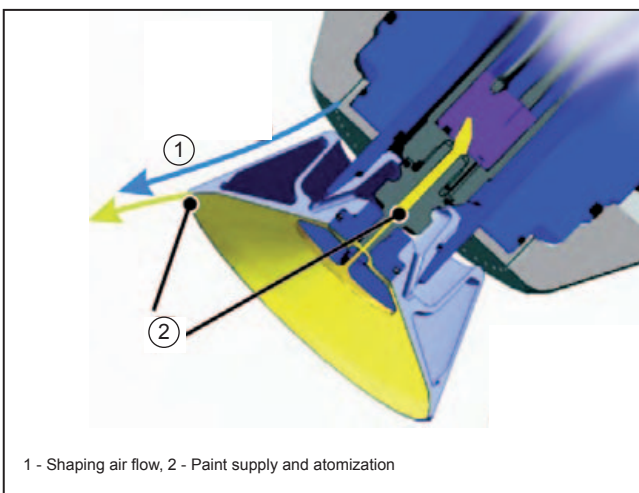
requirements and is moreover characterized by a transfer efficiency that is typically way higher than for pneumatic atomizers. Waterbased, Solventborne as well as UV-Paints can be processed, no matter if they contain metallic flakes or not.

Product Line



Type	EcoBell2 SL EC	EcoBell2 SL DC
Part No.	N34150001	N34150002
Charge	External	Direct
Technical highlights	<ul style="list-style-type: none"> » Rotary atomizer, with dual shaping air technology, one main needle. » External electrodes for charging of atomized paint. 	<ul style="list-style-type: none"> » Rotary atomizer, with dual shaping air technology, one main needle. » Paint charged internally.
Field of use	<ul style="list-style-type: none"> » Suitable for waterbased applications. » Galvanic separation to the paint supply not necessary. 	<ul style="list-style-type: none"> » Suitable for solventborn, waterbased and UV-paint applications well as for non charged applications. » Application of interior parts.

Technical Illustration



Customer Benefits

- » Two independently controllable shaping airs and special designed bell cup (HX-System) allows maximum spray pattern flexibility
- » External high voltage generator with high capacity ensures a stable high voltage supply even under the harshest conditions
- » All rotary atomizers are rated for ATEX Zone 1 by a compliance
- » Wide bell cup profile from aluminium and titanium for every kind of application
- » Well proven quality, reliability and robustness in thousands of automotive applications
- » High efficiency turbine for very low compressed air consumption
- » Isolated paint supply is not needed for external charge applications.

EcoBell2 SL

Rotary atomizers

Bell Disks



Type	D52 O.R. VS-D40	D52 GR0,4 VS-D40	D55 GR0,4 VS-D22	D55 GR0,4 VS-D22
Part No.	N16310020	N16310021	N16310004	N16310005
Compatible atomizer	EcoBell2 SL DC	EcoBell2 SL DC	EcoBell2 SL EC	EcoBell2 SL EC
Diameter	52 mm	52 mm	55 mm	55 mm
Serration	None	Yes	Yes	None
Field of use	Primers base coats.	Clear coats, metallic paints.	Clear coats, metallic paints.	Clear coats, metallic paints.

Accessory - EcoBell2 SL



Type	Add-on unit atomizer 60° with lock	Atomizer seat L140 EcoBell	Mixer complete extern atomizer D6,35L310	Hand earthing stick
Part No.	N34850018	N44050010 (DC) / N44050015 (EC)	N32500026	N65040001
Compatible atomizer	EcoBell2 SL DC / EC	EcoBell2 SL EC / DC	EcoBell2 SL EC / DC	EcoBell2 SL EC / DC
Usage	Robotic installations.	Fixed or reciprocator installations.	2K paints static mixing.	Discharging of EcoBell before maintenance.



Type	Set of installation tools	SPECIAL CUTTER\ GWD-REINIG.	Installation tool Assembly EcoBell2
Part No.	W02100109 (DC) / W02100113 (EC)	W12600018	W02020255
Compatible atomizer	EcoBell2 SL EC / DC	EcoBell2 SL EC / DC	EcoBell2 SL DC
Usage	Tool set to maintain EcoBell atomizer. (f.N34150002 DA)	Tool designed to clean dried paint from the M18 thread.	Allows to make atomizer maintenance works outside of application position (e.g. robot or reciprocator).

Complete list of accessory can be found in the webshop catalog.

Spray Guns Airspray

Manual and automatic spray guns



Product Families

- » **EcoGun AS MAN** – Manual air spray guns
- » **EcoGun AS AUTO** – Automatic air spray guns



EcoGun AS MAN

Manual air spray guns

Description

The Dürr collection of manual air spray guns are designed for all kind of tasks in multiple application areas. There is a line of gravity feed spray guns which are primarily used for coating smaller areas like car body repairs, furniture lacquer application, and other similar areas. There is also

a line of pressure fed spray guns which are primarily used for larger area painting. There available special variants of spray guns for heavy duty application of high solid materials like enamels or glazes.

Product Line



Type	EcoGun AS MAN 1GS (116)	EcoGun AS MAN 1GF (119)	EcoGun AS MAN 2GF (910)
Part No.	N36200006V	N36200005V	N36200003V
Feeding	Gravity	Gravity	Gravity
Connector media	G 3/8" / M16x1.5	G 3/8" / M14x1.5	G 3/8"
Conector air	1/4" UNI	1/4" UNI	G1/4" / 1/4" NPT
Air pressure max.	6.0 bar (87 psi)	6.9 bar (100 psi)	8.0 bar (116 psi)
Nozzle sizes	1.0 / 1.2 / 1.3 / 1.4 / 1.6 / 1.8 / 2.0 / 2.8 / 4.0 mm	1.2 / 1.3 / 1.4 / 1.6 / 1.8 / 2.0 / 2.2 / 2.8 / 4.0 mm	0,5 / 0,8 / 1.0 / 1.2 / 1.3 / 1.4 / 1.5 / 1.6 / 1.8 / 2.0 / 2.5 / 3.0 mm
Technical highlights	<ul style="list-style-type: none"> » Bottom inlet air regulator. » Optional extensions. » Different material connectors available. 	<ul style="list-style-type: none"> » Bottom inlet air regulator. Needle adjustment lock. » Fine quality nozzles. » Different material connectors available. 	<ul style="list-style-type: none"> » Inlet air regulation lever on top » Needle adjustment lock. » Fine quality nozzles. » Bayonete air cap and needle connection system. » Optional air pressure gauge.
Field of use	<ul style="list-style-type: none"> » General paint application. Primers, fillers, top coats in general industry etc. Low duty abrasive materials like glazes, enamels or zinc paints. 	<ul style="list-style-type: none"> » Fine finish coatings. Top coats, clear coats, automotive fillers and primers. High duty abrasive materials like glazes, enamels or zinc paints. 	<ul style="list-style-type: none"> » Fine finish coatings. Top coats, clear coats, automotive fillers and primers.

Feeding cups



Type	600ml G3/8"	600ml M14x1.5	750ml G3/8" Al	125ml G3/8"
Part No.	N08010034	N08010039	N08010035	N08010032
Feeding	Gravity	Gravity	Gravity	Gravity
Material	Nylon	Nylon	Aluminium	Nylon
Volume	600 ml	600 ml	750 ml	125 ml
Connector	G3/8"	M14x1.5	G3/8"	G3/8"
Filter sieve	0.23 mm	0.23 mm	none	0.23 mm

EcoGun AS MAN

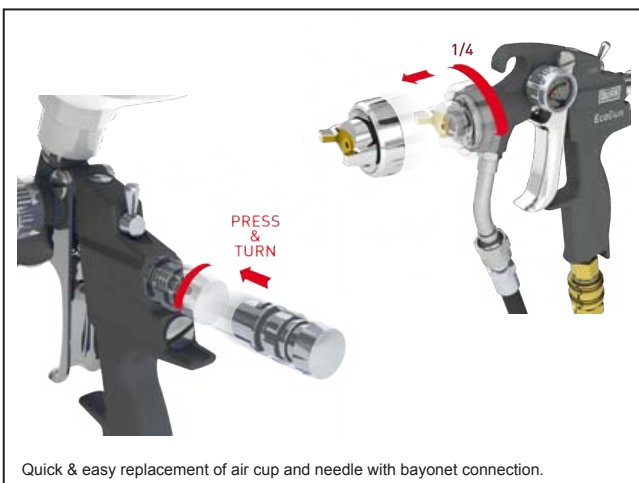
Manual air spray guns

Product Line



Type	EcoGun AS MAN 1PS (246)	EcoGun AS MAN 1PF (249)	EcoGun AS MAN 2PF (910S)
Part No.	N36200008V	N36200007V	N36200001V
Feeding	Pressure	Pressure	Pressure
Connector media	M14x1.5 / 3/8" UNI	M14x1.5 / 3/8" UNI	3/8" NPSM / G3/8"
Conector air	1/4" UNI	1/4" UNI	G1/4" / 1/4" NPT
Air pressure max.	6.0 bar (87 psi)	6.9 bar (100 psi)	8.0 bar (116 psi)
Fluid pressure max.	6.0 bar (87 psi)	6.9 bar (100 psi)	4.0 bar (58 psi)
Nozzle sizes	1.2 / 1.3 / 1.4 / 1.6 / 1.8 / 2.0 / 2.2 / 2.8 / 4.0 mm	0,8 / 1.0 / 1.2 / 1.3 / 1.4 / 1.6 / 1.8 / 2.0 / 2.2 / 2.8 / 4.0 mm	0,5 / 0,8 / 1.0 / 1.2 / 1.3 / 1.4 / 1.5 / 1.6 / 1.8 / 2.0 / 2.5 / 3.0 mm
Technical highlights	<ul style="list-style-type: none"> » Inlet air regulation lever on top. » Different material inlets. » Optional extensions. 	<ul style="list-style-type: none"> » Bottom inlet air regulator. Needle adjustment lock. » Fine quality nozzles. » Different material inlets. high duty hardened nozzles. 	<ul style="list-style-type: none"> » Inlet air regulation lever on top » Needle adjustment lock. » Fine quality nozzles. Bayonete air cap and needle connection system. Optional air pressure gauge.
Field of use	<ul style="list-style-type: none"> » General paint application. Primers, fillers, top coats, stains in general industry etc. Low duty abrasive materials like glazes, enamels or zinc paints. 	<ul style="list-style-type: none"> » Fine finish coatings. Stains, top coats, clear coats, automotive fillers and primers. High duty abrasive materials like glazes, enamels or zinc paints. 	<ul style="list-style-type: none"> » Fine finish coatings. Stains, top coats, clear coats, automotive fillers and primers.

Technical Illustration



Customer Benefits

- » Gravity and pressure feeding
- » Top level quality coating
- » Simple to use, easy to maintain
- » Wide range of nozzle types to cover all applications
- » Stainless steel material path
- » Selection of different material connections

EcoGun AS MAN

Manual air spray guns

Air Caps



Type	AL	EL	GL	PC	RS 1,5
Part No.	M35030162	M35030163	M35030164	M35030091	M35030181
Compatible spray guns	EcoGun 116 / EcoGun 246	EcoGun 116 / EcoGun 246	EcoGun 116 / EcoGun 246	EcoGun 246	EcoGun 116 / EcoGun 246
Nozzle sizes	1.0-2.2 mm	2.8 mm	4.0 mm	1.0-2.2 mm	1.5 mm
Air pressure recom.	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)
Field of use	Top coats, base coats, primers, enamels	General paints, primers or fillers, high flowrate	General paints, primers or fillers, very high flowrate	General paints, primers or fillers	Release and anti-adhesives agents, not suitable for applying paints & lacquers



Type	PS	LA	LW	LH	LE
Part No.	M35030166	M35030079	M35030081	M35030080	M35030086
Compatible spray guns	EcoGun 246	EcoGun 119	EcoGun 119	EcoGun 119	EcoGun 119 EcoGun 249
Nozzle sizes	1.4-2.2 mm	1.2-2.2 mm	1.2-2.2 mm	1.2-2.2 mm	2.8 mm
Air pressure recom.	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-44 psi)	2.0-3.5 bar (29-44 psi)	2.0-3.5 bar (29-43 psi)	2.0-3.5 bar (29-51 psi)
Field of use	Abrasive paints e.g. zinc paints	Solvent borne top coats, clear coats, primers	Water borne top coats, clear coats, primers	Top coats, base coats, primers	General coatings e.g. base coats, primers, fillers, abrasives, glazes, enamels, zinc paints



Type	LG	LP	LS	LC
Part No.	M35030085	M35030082	M35030084	M35030083
Compatible spray guns	EcoGun 249	EcoGun 249	EcoGun 119 EcoGun 249	EcoGun 249
Nozzle sizes	4.0 mm	0.8-1.4 mm	1.4-2.2 mm	1.3-2.2 mm
Air pressure recom.	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)
Field of use	General coatings, high viscosity materials, very high flowrate	Fine finish coating, top coats, clear coats, mordants	Abrasives, glazes, enamels, zinc paints	General coatings e.g. base coats, primers, fillers

EcoGun AS MAN

Manual air spray guns

Air Caps



Type	CF A (0,5-1,2mm)	CF B (1,3-1,6mm)	CF C (1,8-2,5mm)	CF D (3,0mm)
Part No.	M35030069	M35030070	M35030071	M35030072
Compatible spray guns	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S
Nozzle sizes	0.5-1.2	1.3-1.6 mm	1.8-2.5 mm	3.0 mm
Air pressure recom.	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)
Field of use	Top coats, base coats, primers	Top coats, base coats, primers	Top coats, base coats, primers	Top coats, base coats, primers

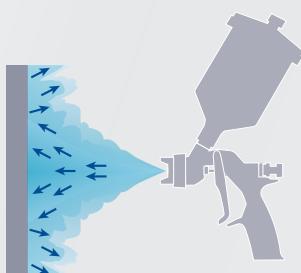


Type	LF A (0,5-1,2mm)	LF B (1,3-1,6mm)	LF C (1,8-2,5mm)	LF D (3,0mm)
Part No.	M35030073	M35030074	M35030075	M35030076
Compatible spray guns	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S	EcoGun 910 / EcoGun 910S
Nozzle sizes	0.5-1.2 mm	1.3-1.6 mm	1.8-2.5 mm	3.0 mm
Air pressure recom.	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)	2.0-3.5 bar (29-51 psi)
Field of use	Top coats, base coats, primers	Top coats, base coats, primers	Top coats, base coats, primers	Top coats, base coats, primers

AIR SPRAY METHODS

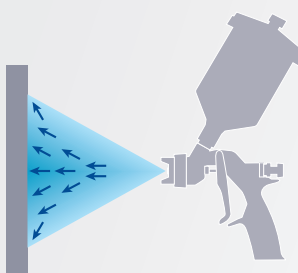
Conventional

Extremely fine atomization and great surface coverage. The higher dynamic energy compared to LVLP (HVLP) technology often keeps the transfer efficiency (TE) considerably below those achieved with LVLP (HVLP) guns. This is due in particular to particle bounce back from the object and increased over spray.



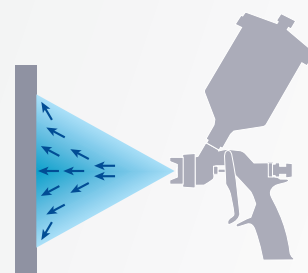
HVLP (High Volume Low Pressure)

Low spray pressure technology. Terminology for an internationally recognized low-pressure technology whereby the transfer efficiency rate has to exceed 65%, while the maximum air cap pressure is below 0.7 bar



LVLP (Low Volume Low Pressure)

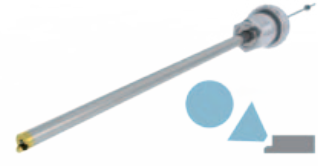
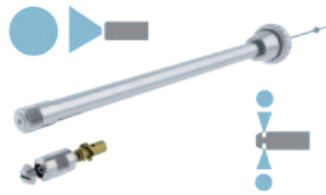
Further development of HVLP technology to achieve a TE comparable to that of HVLP technology but still being able to spray difficult materials with good quality results



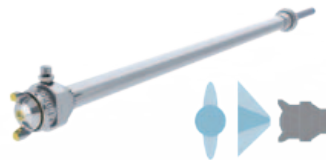
EcoGun AS MAN

Manual air spray guns

Accessory - Extensions



Type	LPS	NP 250	NS 250
Part No.	M19140010 / M19140011 / M19140012 / M19140013	M19140014 / M19140016	M19140015 / M19140017
Length	300 / 600 / 1000 / 1500 mm	250 mm	250 mm
Outer diameter	18 mm	8 / 10 mm	8 / 10 mm
Nozzle diameter	2.2 mm	1.0 / 1.2 mm	1.0 / 1.2 mm
Compatible spray guns	EcoGun 116 / EcoGun 246	EcoGun 116 / EcoGun 246	EcoGun 116 / EcoGun 246
Spray pattern	Direct round spray or circular spray for inner parts of the pipe.	Direct round spray.	Side spray beam.



Type	PN 600	MLP 6
Part No.	M19140025 / M19140026 / M19140027	M19140024
Length	600 mm	1500 mm
Outer diameter	—	6 mm
Nozzle diameter	1.8 / 2.2 mm	— (spiral nozzle)
Compatible spray guns	EcoGun 246	EcoGun 246
Spray pattern	Round to flat, extension use standard nozzles and air caps.	Round spray, flexible hose to reach cavities for anti corrosion protection.

EcoGun AS AUTO

Automatic air spray guns

Description

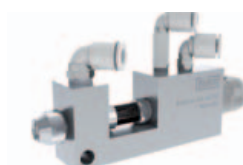
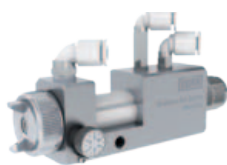
The wide range of automatic air spray guns is tailored to fulfill many kinds of application jobs across all industries. There are spray guns suitable for standard paint applications and special coverage applications in ceramic or glass industry.

There is a selection of spray guns that can be used for dot marking or very small area coating. All automatic spray guns are capable for fully controlled remote operation by the production control systems.

Product Line



Type	EcoGun AS AUTO	EcoGun AS AUTO Pro	EcoGun AS AUTO Pro HD
Part No.	N36210008V	N36210012V	N36210013V
Connector fluid	Hose 6/4mm	G 1/4"	G 3/8"
Connector air Atom./Cont.	Push-in 8mm / Push-in 6mm	Push-in 8mm / Push-in 6mm	Push-in 8mm / Push-in 6mm
Air pressure Atom., max.	6.0 bar (87 psi)	8.0 bar (116 psi)	8.0 bar (116 psi)
Air pressure Cont., max.	4.0 bar (58 psi)	4.0 bar (58 psi)	6.0 bar (87 psi)
Inlet media pressure max.	6.0 bar (87 psi)	4.0 bar (58 psi)	4.0 bar (58 psi)
Nozzle sizes	0.8 / 1.0 / 1.2 / 1.6 / 1.8 / 2.0 / 2.2 mm	0.5 / 0.8 / 1.0 / 1.2 / 1.3 / 1.4 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 mm	0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 4.5 / 6.0 mm
Technical highlights	<ul style="list-style-type: none"> » Two material inlets for circulation. » Optional remote control of spray pattern. » Calibrated bracket. » Stainless steel material path. » Optional extensions. 	<ul style="list-style-type: none"> » Two material inlets for circulation. » Optional remote control of spray pattern. » Stainless steel material path. » Air caps and nozzles for LVLP. 	<ul style="list-style-type: none"> » Two material inlets for circulation. » Optional remote control of spray pattern. » Stainless steel material path. » Hardened nozzles for heavy duty applications
Field of use	» Usual paint application, primers, base coats, top coats, clear coats.	» Usual paint application, primers, base coats, top coats, clear coats.	» Enamels, glazes or other high abrasive materials in ceramic industry.



Type	EcoGun AS AUTO Mini FS	EcoGun AS AUTO Mini RS	EcoGun AS AUTO Mini HD
Part No.	N36210006V	N36210007V	N36210010V
Connector fluid	Push-in 6mm	Push-in 6mm	Hose 8/6mm
Connector air Atom./Cont.	Push-in 6mm / Push-in 6mm	Push-in 6mm / Push-in 6mm	Hose 8/6mm / Hose 8/6mm
Air pressure Atom., max.	5.0 bar (73 psi)	5.0 bar (73 psi)	4.0 bar (58 psi)
Air pressure Cont., max.	5.0 bar (73 psi)	5.0 bar (73 psi)	4.0 bar (58 psi)
Inlet media pressure max.	1.5 bar (22 psi)	1.5 bar (22 psi)	6.0 bar (86 psi)
Nozzle sizes	0.6 / 0.8 / 1.0 / 1.2 mm	0.6 / 0.8 / 1.0 / 1.2 mm	0.5 / 0.8 / 1.0 / 1.2 / 1.5 mm
Technical highlights	<ul style="list-style-type: none"> » Flat to round spray pattern regulation. » Remote or manual horn air regulation. » Stainless steel nozzles. 	<ul style="list-style-type: none"> » Round spray pattern. » Stainless steel nozzles. » Optional extensions. 	<ul style="list-style-type: none"> » Round spray pattern. » Stainless steel nozzles and gun body. » Remote atomization air regulation.
Field of use	» Small area painting, dot marking	» Small area painting, dot marking	» Glues or other demanding coatings.

EcoGun AS AUTO

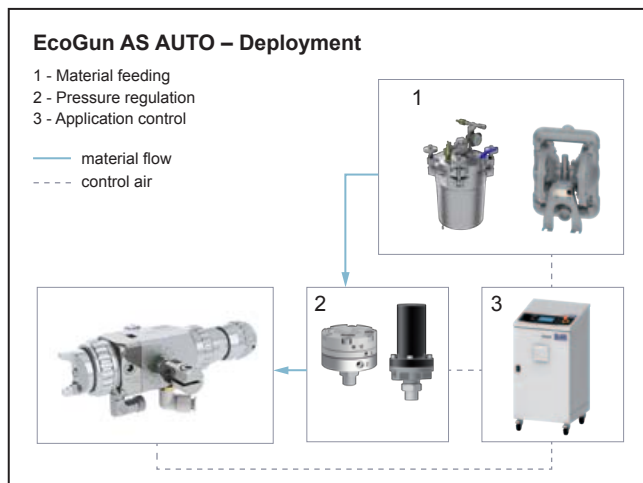
Automatic air spray guns

Product Line



Type	EcoGun2 AS AUTO	EcoGun AS AUTO Uni
Part No.	N36210005V	N36210011V
Connector fluid	G 1/8" (female)	G 1/4" (female)
Connector air Atom./Cont.	Push-in 8mm / Push-in 6mm	G 1/4" (female)
Air pressure Atom., max.	10.0 bar (145 psi)	6.0 bar (87 psi)
Air pressure Cont., max.	8.0 bar (116 psi)	6.0 bar (87 psi)
Inlet media pressure max.	20.0 bar (260 psi)	6.0 bar (87 psi)
Nozzle sizes	1.1 / 1.4 mm	1.0 mm
Technical highlights	<ul style="list-style-type: none"> » Quick and easy detachable fluid section and atomizer section. » Air cup position lock. » Stainless steel nozzles and spray gun body. Two versions 	<ul style="list-style-type: none"> » Single air inlet for needle opening and atomization.
Field of use	<ul style="list-style-type: none"> » Robot paint applications. 	<ul style="list-style-type: none"> » Atomization of water for cooling purposes. Separation coatings application.

Technical Illustration



Customer Benefits

- » Wide range of spray gun types to fit all kinds of applications
- » Top level quality coating
- » Simple to use, easy to maintain
- » Wide range of nozzle types to cover all applications

EcoGun AS AUTO

Automatic air spray guns

Air Caps



Type	CF	LF (LVL)	SF (conv.)
Part No.	M35030174, M35030175, M35030176, M35030177, M35030178	M35030170, M35030171, M35030172, M35030173	M35030179, M35030180
Compatible spray guns	EcoGun AS AUTO pro	EcoGun AS AUTO pro	EcoGun AS AUTO pro
Nozzle sizes	0.5 - 0.8 / 1.0-1.2 / 1.3-1.6 / 1.8-2.5 / 3 mm	0.5 - 1.2 / 1.3-1.6 / 1.8-2.5 / 3 mm	0.5 - 0.8 / 1.0-1.2 mm
Air pressure recom.	2.0-2.5 bar (29-36 psi)	2.0-2.5 bar (29-36 psi)	2.0-2.5 bar (29-36 psi)
Field of use	Top coats, base coats, primers, UV-coats	Top coats, base coats, primers, UV-coats	Top coats, decorative coatings (e.g. cosmetic and glass industry)



Type	circular jet	FLRD	rotary jet
Part No.	M35030144, M35030088, M35030145, M35030146, M35030147, M35030148, M35030149, M35030150, M35030151, M35030135, M35030136	M35030106, M35030107, M35030108, M35030109, M35030110, M35030111, M35030112, M35030113, M35030114, M35030115	M35030128, M35030129, M35030143, M35030130, M35030131, M35030132, M35030133, M35030134
Compatible spray guns	EcoGun AS AUTO pro HD	EcoGun AS AUTO pro HD	EcoGun AS AUTO pro HD
Nozzle sizes	0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 4.5 / 6.0 mm	0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 4.5 / 6.0 mm	1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 4.5 / 6.0 mm
Air pressure recom.	2.0-2.5 bar (29-36 psi)	2.0-2.5 bar (29-36 psi)	2.0-2.5 bar (29-36 psi)
Field of use	Top coats, base coats, decorative coatings	Ceramic glazes, enamels	Ceramic glazes, enamels, heavily atomized materials like adhesives

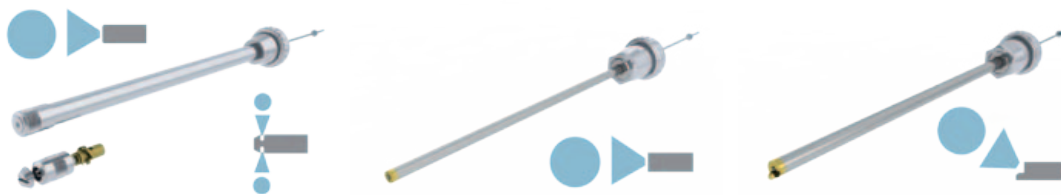


Type	Air cap PC	Air cap HM	Air cap PL	797CS	797CS RP
Part No.	M35030091	M35030092	M35030087	M35030056	M35030038
Compatible spray guns	EcoGun AS AUTO	EcoGun AS AUTO	EcoGun AS AUTO	EcoGun2 AS AUTO	EcoGun2 AS AUTO
Nozzle sizes	1.0 - 2.2 mm	1.0 - 1.2 mm	0.8 - 1.2 mm	1.1 / 1.4 mm	1.1 / 1.4 mm
Air pressure recom.	2.5-3.5 bar (36-51 psi)	2.5-3.5 bar (36-51 psi)	2.5-3.5 bar (36-51 psi)	4.8 bar (70 psi)	4.8 bar (70 psi)
Field of use	General paints, primers or fillers	Top coats, mordants (lower viscosity)	Fine finish coatings, top & clear coats	Primers, base and clear coats, top coats	Primers, base and clear coats, top coats

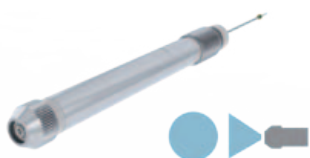
EcoGun AS AUTO

Automatic air spray guns

Accessory - Extensions



Type	LPS	NP 250	NS 250
Part No.	M19140022 / M19140023	M19140018 / M19140020	M19140019 / M19140021
Length	300 / 500 mm	250 mm	250 mm
Outer diameter	18 mm	8 / 10 mm	8 / 10 mm
Nozzle diameter	—	1.0 / 1.2 mm	1.0 / 1.2 mm
Compatible spray guns	EcoGun AS AUTO	EcoGun AS AUTO	EcoGun AS AUTO
Spray pattern	Direct round spray or circular spray for inner parts of the pipe.	Direct round spray.	Side spray beam.



Type	DSA 100
Part No.	M19140006 / M19140007 / M19140008 / M19140009
Length	100 mm
Outer diameter	13 mm
Nozzle diameter	0.6 / 0.8 / 1.0 / 1.2 mm
Compatible spray guns	EcoGun AS AUTO Mini RS
Spray pattern	Direct round spray.

Spray Guns Airless

Manual and automatic airless spray guns



Product Families

- » **EcoGun AL MAN** – Manual airless spray guns
- » **EcoGun AL AUTO** – Automatic airless spray guns



EcoGun AL MAN

Manual airless spray guns

Description

Manual airless spray guns are suitable for high pressure paint application. They can be used for anticorrosion protection coating of large steel structures or coating of wood structures. Functionality can be extended by using extensions which can help to paint difficult to reach areas.

Product Line



Type	EcoGun AL MAN 300
Part No.	N36240002V
Max. Fluid Pressure	300 bar (4.350 psi)
Connector media	M16x1.5 / 1/4" NPSM
Nozzle bracket connector	11/16" -16 UN / 7/8" - 14 UNF / 11/16"-24 UNEF
Nozzle sizes	0.18 / 0.23 / 0.28 / 0.33 / 0.38 / 0.43 / 0.48 / 0.53 / 0.58 / 0.63 / 0.68 / 0.73 / 0.78 mm *
Technical highlights	<ul style="list-style-type: none"> » External material inlet, suitable for paint heating. » Wide options for material inlet.
Field of use	<ul style="list-style-type: none"> » Anticorrosion protection, penetration applications. Wood or Building industry.

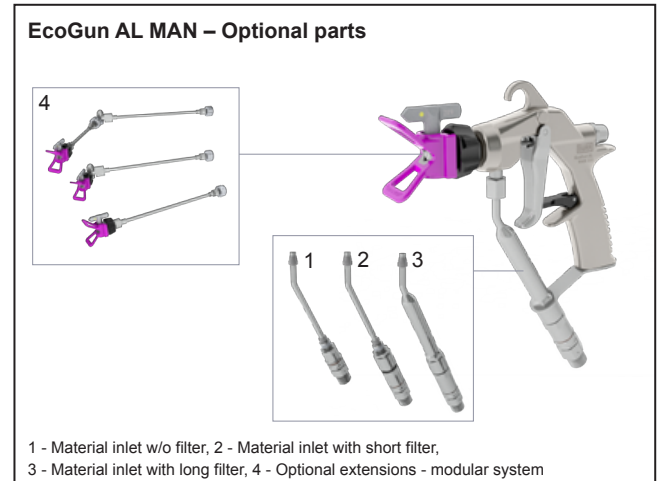
* see complete range of nozzles on page no. 23

Modular design of these extensions allows to assemble variety of lengths and angles. Airless spray guns use reversible nozzles available in a large number of bores and angles.

Customer Benefits

- » Perfectly balanced ergonomic shape of spray gun body that minimizes fatigue
- » Parts contacted with media are stainless steel
- » External material supplying part allows application of heated paint
- » Wide range of turnable spray nozzles
- » Optional extensions available (up to 900mm)
- » Three material inlet versions
- » Easy cleaning and maintenance
- » ATEX EX II 2G T60°C X

Technical Illustration



EcoGun AL AUTO

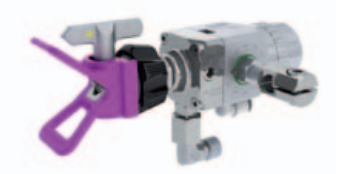
Automatic airless spray guns

Description

Automatic airless spray guns are suitable for high pressure paint application. They can be used for anticorrosion protection coating of large steel structures or penetration of wood structures. Functionality can be extended by using extensions which can help to paint

difficult to reach areas. Modular design of these extensions allows to assemble variety of lengths and angles. Airless spray guns use reversible nozzles which are provided in a large number of bores and angles.

Product Line



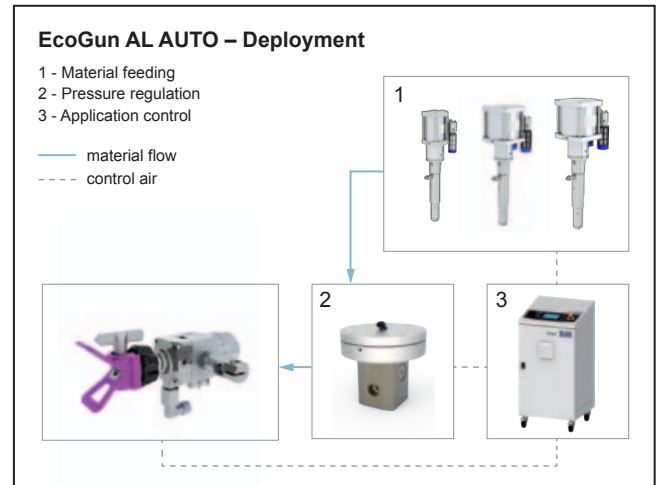
Type	EcoGun AL AUTO
Part No.	N36250001V
Connector fluid	M14x1.5
Connector air control	Push-in 6mm
Air pressure cont., max.	5.0 bar (72 psi)
Max. Fluid Pressure	300 bar (4,350 psi)
Nozzle bracket connector	11/16" -16 UN / 7/8" - 14 UNF / 11/16"-24 UNEF
Nozzle sizes	0.18 / 0.23 / 0.28 / 0.33 / 0.38 / 0.43 / 0.48 / 0.53 / 0.58 / 0.63 / 0.68 / 0.73 / 0.78 mm *
Technical highlights	<ul style="list-style-type: none"> » Two options for closing valve diameter (large for very high viscosity material). » Two material inlet for circulation. » Spray gun bracket for secure repositioning.
Field of use	<ul style="list-style-type: none"> » Anticorrosion coating. » Penetration application.

* See complete range of nozzles on page no. 23.

Customer Benefits

- » Parts contacted by media in stainless steel
- » Wide range of reversible nozzles
- » Optional extensions
- » Max. fluid pressure 300bar
- » Two material inlets (circulation possible)
- » Easy cleaning and maintenance
- » ATEX Ex II 2G T6 X

Technical Illustration



Extensions for EcoGun AL



Type	Extension pipes	Rotary joint	Direct joint
Part No.	M19140001 / M19140002 / M19140003 / M19140004 / M19140005	M22150012	M01010201
Length	150 / 300 / 450 / 600 / 900 mm	—	—
Thread	11/16" -16 UN	11/16" -16 UN	11/16" -16 UN
Max. Fluid Pressure	250 bar (3,600 psi)	250 bar (3,600 psi)	250 bar (3,600 psi)
Usage	Extension tube with different lengths. Using connecting joints pipes can be connected together and make any other length.	Rotary joint allows bending spray beam in any angle.	Direct joint is used to connect spray tip bracket with extension for straight spraying.

EcoGun AL

Airless Spray Nozzles



Material No.	Bore	Angle
M09020475	0.18 mm (0.008")	10°
M09020476	0.18 mm (0.008")	20°
M09020477	0.23 mm (0.01")	10°
M09020478	0.23 mm (0.01")	20°
M09020479	0.23 mm (0.01")	30°
M09020480	0.23 mm (0.01")	40°
M09020481	0.28 mm (0.012")	10°
M09020482	0.28 mm (0.012")	20°
M09020483	0.28 mm (0.012")	30°
M09020484	0.28 mm (0.012")	40°
M09020485	0.28 mm (0.012")	50°
M09020486	0.28 mm (0.012")	60°
M09020487	0.33 mm (0.013")	10°
M09020488	0.33 mm (0.013")	20°
M09020489	0.33 mm (0.013")	30°
M09020490	0.33 mm (0.013")	40°
M09020491	0.33 mm (0.013")	50°
M09020492	0.33 mm (0.013")	60°
M09020493	0.33 mm (0.013")	70°
M09020494	0.33 mm (0.013")	80°
M09020495	0.38 mm (0.015")	10°
M09020496	0.38 mm (0.015")	20°
M09020497	0.38 mm (0.015")	30°
M09020498	0.38 mm (0.015")	40°
M09020499	0.38 mm (0.015")	50°
M09020500	0.38 mm (0.015")	60°
M09020501	0.38 mm (0.015")	70°
M09020502	0.38 mm (0.015")	80°
M09020503	0.43 mm (0.017")	10°

Material No.	Bore	Angle
M09020504	0.43 mm (0.017")	20°
M09020505	0.43 mm (0.017")	30°
M09020506	0.43 mm (0.017")	40°
M09020507	0.43 mm (0.017")	50°
M09020508	0.43 mm (0.017")	60°
M09020509	0.43 mm (0.017")	70°
M09020510	0.43 mm (0.017")	80°
M09020511	0.48 mm (0.019")	20°
M09020512	0.48 mm (0.019")	30°
M09020513	0.48 mm (0.019")	40°
M09020514	0.48 mm (0.019")	50°
M09020515	0.48 mm (0.019")	60°
M09020516	0.48 mm (0.019")	70°
M09020517	0.48 mm (0.019")	80°
M09020518	0.53 mm (0.021")	30°
M09020519	0.53 mm (0.021")	40°
M09020520	0.53 mm (0.021")	50°
M09020521	0.53 mm (0.021")	60°
M09020522	0.53 mm (0.021")	70°
M09020523	0.53 mm (0.021")	80°
M09020524	0.53 mm (0.021")	90°
M09020525	0.58 mm (0.023")	30°
M09020526	0.58 mm (0.023")	40°
M09020527	0.58 mm (0.023")	50°
M09020528	0.58 mm (0.023")	60°
M09020529	0.58 mm (0.023")	70°
M09020530	0.58 mm (0.023")	80°
M09020531	0.58 mm (0.023")	90°
M09020532	0.63 mm (0.025")	30°

Material No.	Bore	Angle
M09020533	0.63 mm (0.025")	40°
M09020534	0.63 mm (0.025")	50°
M09020535	0.63 mm (0.025")	60°
M09020536	0.63 mm (0.025")	70°
M09020537	0.63 mm (0.025")	80°
M09020538	0.63 mm (0.025")	90°
M09020539	0.68 mm (0.027")	30°
M09020540	0.68 mm (0.027")	40°
M09020541	0.68 mm (0.027")	50°
M09020542	0.68 mm (0.027")	60°
M09020543	0.68 mm (0.027")	70°
M09020544	0.68 mm (0.027")	80°
M09020545	0.68 mm (0.027")	90°
M09020546	0.73 mm (0.029")	30°
M09020547	0.73 mm (0.029")	40°
M09020548	0.73 mm (0.029")	50°
M09020549	0.73 mm (0.029")	60°
M09020550	0.73 mm (0.029")	70°
M09020551	0.73 mm (0.029")	80°
M09020552	0.73 mm (0.029")	90°
M09020553	0.78 mm (0.031")	30°
M09020554	0.78 mm (0.031")	40°
M09020555	0.78 mm (0.031")	50°
M09020556	0.78 mm (0.031")	60°
M09020557	0.78 mm (0.031")	70°
M09020558	0.78 mm (0.031")	80°
M09020559	0.78 mm (0.031")	90°

Accessory - Airless & Air Assist



Type	Filters - long	Filters - short	Nozzle guard
Part No.	<ul style="list-style-type: none"> » 200msh red (M13060010) » 100msh yellow (M13060011) » 50msh white (M13060012) » 30msh green (M13060013) 	<ul style="list-style-type: none"> » 100msh (M13060017) » 200msh (M13060018) » 100msh lamellar (M13100241) » 60msh lamellar (M13100242) 	<ul style="list-style-type: none"> » M60020001 » Reversible nozzles » Thread: 11/16" -16 UN » Safety guard
Compatible spray guns	<ul style="list-style-type: none"> » EcoGun AL MAN 300 » EcoGun AA MAN 	<ul style="list-style-type: none"> » EcoGun AL MAN 300 » EcoGun AA MAN 	<ul style="list-style-type: none"> » EcoGun AL MAN 300 » EcoGun AL AUTO

Spray Guns Air-Assist

Manual and automatic air-assist spray guns



Product Families

- » **EcoGun AA MAN** – Manual air-assist spray guns
- » **EcoGun AA AUTO** – Automatic air-assist spray guns



EcoGun AA MAN

Manual air-assist spray guns

Description

Manual air assisted spray guns are the perfect choice for application of high viscosity material with high demand for surface quality. Typical users are woodcrafters where they can be used to provide perfect finishing for solid

wood furniture by solvent and water based lacquers. The wide range of nozzles make this spray guns versatile tool. Spray guns can be fed by **EcoPump** VP packages.

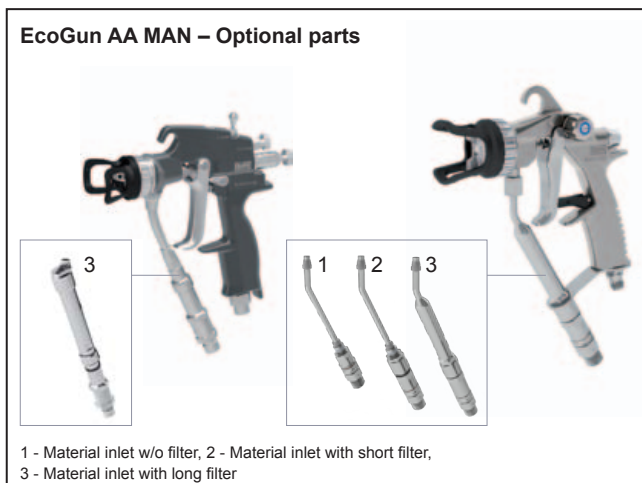
Product Line



Type	EcoGun AA MAN 1P (256)	EcoGun AA MAN 2P (2100)
Part No.	N36220001V	N36220002V
Max. Fluid Pressure	250 bar (3,600 psi)	250 bar (3,600 psi)
Connector media	M16x1,5 / 1/4" NPSM	M16x1,5 / 1/4" NPSM / G 1/4"
Nozzle sizes	0.18 / 0.23 / 0.28 / 0.33 / 0.38 / 0.43 / 0.48 / 0.53 mm *	0.18 / 0.23 / 0.28 / 0.33 / 0.38 / 0.43 / 0.48 / 0.53 / 0.60 / 0.70 mm **
Technical highlights	<ul style="list-style-type: none"> » External material inlet with optional filtration (long or short filter). » Flat to round regulation. 	<ul style="list-style-type: none"> » External material inlet with optional filtration (long or short filter). » Flat to round regulation. » Atomization air regulation. » Trigger force regulator.
Field of use	<ul style="list-style-type: none"> » Wood protection application. » Solvent or water based wood lacquers. » High viscosity paints. 	<ul style="list-style-type: none"> » Wood protection application. » Solvent or water based wood lacquers . » High viscosity paints.

* See complete range of nozzles on page no. 27. ** See complete range of nozzles on page no. 28.

Technical Illustration



Customer Benefits

- » External paint feed (allows paint heating)
- » Material filter options (long and short filter)
- » Wide range of nozzle sizes available
- » Several options for material and air connector sizes

EcoGun AA AUTO

Automatic air-assist spray guns

Description

Automatic air-assist spray guns are often used in batch paint application where is a part of the automated painting process. It is characterized by a material path

made of stainless steel and the separate air regulation for round and flat spray patterns, whilst the seal packing is externally adjustable.

Product Line



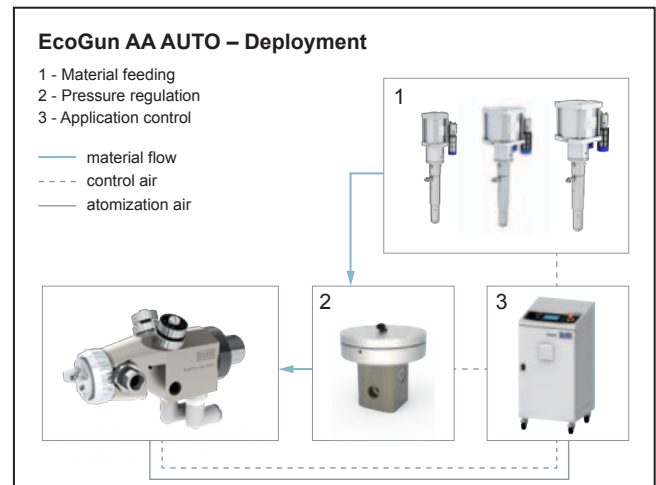
Type	EcoGun AA MAN
Part No.	N36230001V
Connector fluid	G 1/4"
Connector air Atom./Cont.	Push-in 6/8mm
Air pressure Atom., max.	8.0 bar (116 psi)
Air pressure Cont., max.	6.0 bar (87 psi)
Max. Fluid Pressure	250 bar (3,600 psi)
Nozzle sizes	0.18 / 0.23 / 0.28 / 0.33 / 0.38 / 0.43 / 0.48 / 0.53 / 0.60 / 0.70 mm
Technical highlights	<ul style="list-style-type: none"> » Two material inlets. » Separate round/flat spray regulation » Needle seal accessible from the outside
Field of use	» Flat bed machines for furniture parts coating

* See complete range of nozzles on page no. 28.

Customer Benefits

- » Air-assist and airless work mode possible
- » Material pressure up to 250bar (3000psi)
- » Material path completely made of stainless steel
- » Needle seal accessible from the outside
- » Separate round/flat spray regulation
- » Wide range of nozzles available
- » Material circulation or one line operation mode possible
- » High pressure material filters available

Technical Illustration



EcoGun AA

Automatic air-assist spray guns

Air Assist Air Caps



Type	Air cap	Air cap 10-30°	Air cap 40-130°
Part No.	M35030090	M35030077	M35030078
Compatible spray guns	EcoGun 256	EcoGun 2100, EcoGun AA AUTO	EcoGun 2100, EcoGun AA AUTO
Spray angle	10 - 90°	10 - 30°	40 - 130°
Field of use	Primers, base coats, clear coats, UV-coats	Primers, base coats, clear coats, UV-coats	Primers, base coats, clear coats, UV-coats

Spray Tips for EcoGun 256



Material No.	Bore	Angle	Marking
M09020451	0.18 mm (0.008")	10°	E107
M09020463	0.18 mm (0.008")	10°	E107L
M09020452	0.18 mm (0.008")	20°	E207
M09020464	0.18 mm (0.008")	20°	E207L
M09020453	0.18 mm (0.008")	30°	E307
M09020454	0.18 mm (0.008")	40°	E407
M09020455	0.23 mm (0.01")	10°	E109
M09020465	0.23 mm (0.01")	10°	E109L
M09020456	0.23 mm (0.01")	20°	E209
M09020466	0.23 mm (0.01")	20°	E209L
M09020457	0.23 mm (0.01")	30°	E309
M09020467	0.23 mm (0.01")	30°	E309L
M09020458	0.23 mm (0.01")	40°	E409
M09020660	0.23 mm (0.01")	50°	E509
M09020665	0.23 mm (0.01")	60°	E609
M09020571	0.28 mm (0.012")	20°	E211
M09020459	0.28 mm (0.012")	30°	E311
M09020468	0.28 mm (0.012")	30°	E311L
M09020460	0.28 mm (0.012")	40°	E411
M09020661	0.28 mm (0.012")	50°	E511
M09020666	0.28 mm (0.012")	60°	E611
M09020668	0.28 mm (0.012")	70°	E711
M09020579	0.33 mm (0.013")	20°	E213
M09020649	0.33 mm (0.013")	30°	E313
M09020461	0.33 mm (0.013")	40°	E413
M09020469	0.33 mm (0.013")	40°	E413L
M09020662	0.33 mm (0.013")	50°	E513
M09020470	0.33 mm (0.013")	60°	E613
M09020471	0.33 mm (0.013")	70°	E713

Material No.	Bore	Angle	Marking
M09020645	0.33 mm (0.013")	80°	E813
M09020648	0.38 mm (0.015")	20°	E215
M09020650	0.38 mm (0.015")	30°	E315
M09020657	0.38 mm (0.015")	40°	E415
M09020462	0.38 mm (0.015")	50°	E515
M09020472	0.38 mm (0.015")	60°	E615
M09020473	0.38 mm (0.015")	70°	E715
M09020670	0.38 mm (0.015")	80°	E815
M09020673	0.38 mm (0.015")	90°	E915
M09020655	0.43 mm (0.017")	30°	E317
M09020658	0.43 mm (0.017")	40°	E417
M09020474	0.43 mm (0.017")	50°	E517
M09020651	0.43 mm (0.017")	60°	E617
M09020643	0.43 mm (0.017")	70°	E717
M09020671	0.43 mm (0.017")	80°	E817
M09020674	0.43 mm (0.017")	90°	E917
M09020656	0.48 mm (0.019")	30°	E319
M09020659	0.48 mm (0.019")	40°	E419
M09020663	0.48 mm (0.019")	50°	E519
M09020667	0.48 mm (0.019")	60°	E619
M09020646	0.48 mm (0.019")	70°	E719
M09020672	0.48 mm (0.019")	80°	E819
M09020675	0.48 mm (0.019")	90°	E919
M09020664	0.53 mm (0.021")	50°	E521
M09020647	0.53 mm (0.021")	60°	E621
M09020669	0.53 mm (0.021")	70°	E721
M09020644	0.53 mm (0.021")	80°	E821
M09020676	0.53 mm (0.021")	90°	E921

EcoGun AA

Automatic air-assist spray guns



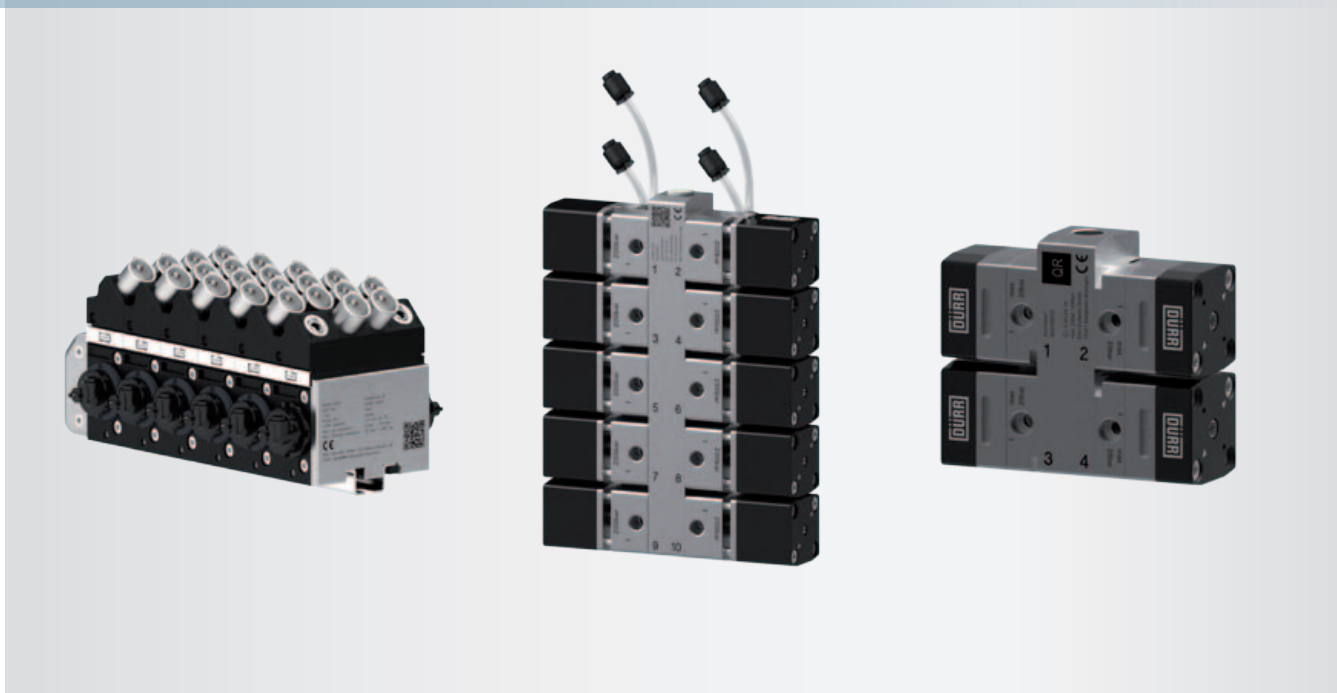
Spray Tips for EcoGun 2100 and Ecogun AA AUTO

Material No.	Bore	Angle	Marking
M09020372	0.18 mm (0.008")	10°	108
M09020373	0.18 mm (0.008")	20°	208
M09020374	0.18 mm (0.008")	30°	308
M09020375	0.18 mm (0.008")	40°	408
M09020376	0.23 mm (0.01")	10°	110
M09020377	0.23 mm (0.01")	20°	210
M09020378	0.23 mm (0.01")	30°	310
M09020379	0.23 mm (0.01")	40°	410
M09020380	0.23 mm (0.01")	50°	510
M09020381	0.23 mm (0.01")	60°	610
M09020382	0.28 mm (0.012")	10°	112
M09020383	0.28 mm (0.012")	20°	212
M09020384	0.28 mm (0.012")	30°	312
M09020385	0.28 mm (0.012")	40°	412
M09020386	0.28 mm (0.012")	50°	512
M09020387	0.28 mm (0.012")	60°	612
M09020388	0.28 mm (0.012")	70°	712
M09020389	0.33 mm (0.013")	10°	113
M09020390	0.33 mm (0.013")	20°	213
M09020391	0.33 mm (0.013")	30°	313
M09020392	0.33 mm (0.013")	40°	413
M09020393	0.33 mm (0.013")	50°	513
M09020394	0.33 mm (0.013")	60°	613
M09020395	0.33 mm (0.013")	70°	713
M09020396	0.33 mm (0.013")	80°	813
M09020397	0.38 mm (0.015")	10°	115
M09020398	0.38 mm (0.015")	20°	215
M09020399	0.38 mm (0.015")	30°	315
M09020400	0.38 mm (0.015")	40°	415
M09020401	0.38 mm (0.015")	50°	515
M09020402	0.38 mm (0.015")	60°	615
M09020403	0.38 mm (0.015")	70°	715
M09020404	0.38 mm (0.015")	80°	815
M09020405	0.38 mm (0.015")	90°	915
M09020406	0.43 mm (0.017")	10°	117
M09020407	0.43 mm (0.017")	20°	217
M09020408	0.43 mm (0.017")	30°	317
M09020409	0.43 mm (0.017")	40°	417
M09020410	0.43 mm (0.017")	50°	517
M09020411	0.43 mm (0.017")	60°	617

Material No.	Bore	Angle	Marking
M09020412	0.43 mm (0.017")	70°	717
M09020413	0.43 mm (0.017")	80°	817
M09020414	0.43 mm (0.017")	90°	917
M09020415	0.48 mm (0.019")	10°	119
M09020416	0.48 mm (0.019")	20°	219
M09020417	0.48 mm (0.019")	30°	319
M09020418	0.48 mm (0.019")	40°	419
M09020419	0.48 mm (0.019")	50°	519
M09020420	0.48 mm (0.019")	60°	619
M09020421	0.48 mm (0.019")	70°	719
M09020422	0.48 mm (0.019")	80°	819
M09020423	0.48 mm (0.019")	90°	919
M09020424	0.53 mm (0.021")	10°	121
M09020425	0.53 mm (0.021")	20°	221
M09020426	0.53 mm (0.021")	30°	321
M09020427	0.53 mm (0.021")	40°	421
M09020428	0.53 mm (0.021")	50°	521
M09020429	0.53 mm (0.021")	60°	621
M09020430	0.53 mm (0.021")	70°	721
M09020431	0.53 mm (0.021")	80°	821
M09020432	0.53 mm (0.021")	90°	921
M09020433	0.60 mm (0.024")	10°	124
M09020434	0.60 mm (0.024")	20°	224
M09020435	0.60 mm (0.024")	30°	324
M09020436	0.60 mm (0.024")	40°	424
M09020437	0.60 mm (0.024")	50°	524
M09020438	0.60 mm (0.024")	60°	624
M09020439	0.60 mm (0.024")	70°	724
M09020440	0.60 mm (0.024")	80°	824
M09020441	0.60 mm (0.024")	90°	924
M09020442	0.70 mm (0.028")	10°	128
M09020443	0.70 mm (0.028")	20°	228
M09020444	0.70 mm (0.028")	30°	328
M09020445	0.70 mm (0.028")	40°	428
M09020446	0.70 mm (0.028")	50°	528
M09020447	0.70 mm (0.028")	60°	628
M09020448	0.70 mm (0.028")	70°	728
M09020449	0.70 mm (0.028")	80°	828
M09020450	0.70 mm (0.028")	90°	928

Color Changers

Low pressure or high pressure color changer



Product Families

- » **EcoMCC3 20** – low pressure color changer with needle valves
- » **EcoMCC 200** – high pressure color changer with needle valves
- » **EcoValve7 20** – low pressure color changer with diaphragm valves



EcoMCC3 20

Low pressure color changer

Description

The **EcoMCC3 20** Color Changer has been designed for rapid color changes in atomizer color supply. During design, great emphasis was focused on an optimal feed to realize a minimum of loss of color and maximum maintenance friendliness. This color change valve generation can be used with all the conventional filters

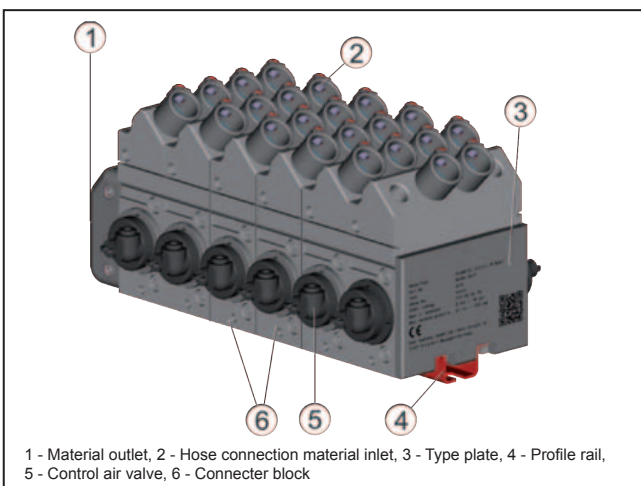
for water or solvent borne primer paints, top coating, and 1K clear varnishes in the automotive supply industry. Rails and control valves are supplied in synthetic material to enable weight optimization. The **EcoMCC3 20** can be utilized alone or in combination with **EcoBell** or **EcoGun** product package.

Product Line



Type	EcoMCC3 20 2C C PM	EcoMCC3 20 4C C PM	EcoMCC3 20 6C C PM	EcoMCC3 20 8C C PM	EcoMCC3 20 10C C PM
Part No.	N14800001	N14800002	N14800003	N14800004	N14800005
No. of Colors	2	4	6	8	10
Material Pressure, max.	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)
Operating temperature	10-40 °C (50-104 °F)	10-40 °C (50-104 °F)	10-40 °C (50-104 °F)	10-40 °C (50-104 °F)	10-40 °C (50-104 °F)
Materials contacted by media	Polyoxymethylene (POM), Titanium, Stainless Steel	Polyoxymethylene (POM), Titanium, Stainless Steel	Polyoxymethylene (POM), Titanium, Stainless Steel	Polyoxymethylene (POM), Titanium, Stainless Steel	Polyoxymethylene (POM), Titanium, Stainless Steel

Technical Illustration



Customer Benefits

- » Each color connected to an **EcoMCC3 20** color changer can be used as either as a deadend or circulation system by selecting / changing the valve, instead of changing the valve block design as it is common for competitors products.

EcoMCC 200

High-pressure color changer

Description

The **EcoMCC 200** is a color changer solution for airless or air-assisted varnishing of water and solvent based paint. Due to its short switching times the **EcoMCC 200** is also suitable as a dosing valve in 2K application. The color change is effected quickly thanks to short

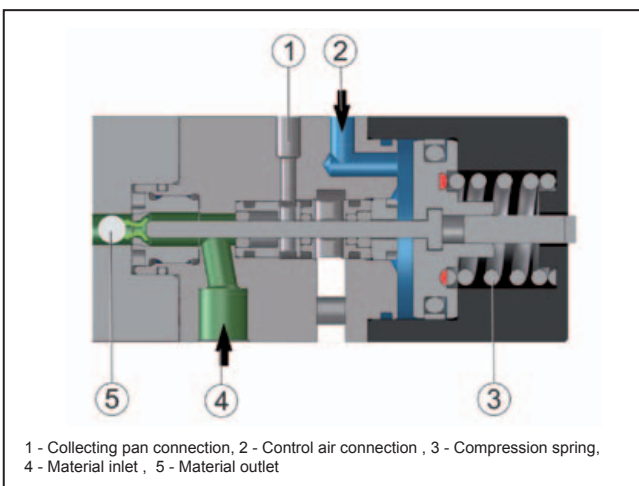
flushing and low dead space. An additional chamber is distinguished to allow a plasticizer that prevents both, hardening of the media on the valve needle, and higher wear and tear.

Product Line



Type	EcoMCC 200 2C D SST	EcoMCC 200 4C D SST	EcoMCC 200 6C D SST	EcoMCC 200 8C D SST	EcoMCC 200 10C D SST
Part No.	N14100001	N14100002	N14100003	N14100004	N14100005
No. of Colours	2	4	6	8	10
Material Pressure, max.	200 bar (2,900 psi)	200 bar (2,900 psi)	200 bar (2,900 psi)	200 bar (2,900 psi)	200 bar (2,900 psi)
Operating temperature	15-40 °C (59-104 °F)	15-40 °C (59-104 °F)	15-40 °C (59-104 °F)	15-40 °C (59-104 °F)	15-40 °C (59-104 °F)
Materials contacted by media	Stainless steel, Carbide	Stainless steel, Carbide	Stainless steel, Carbide	Stainless steel, Carbide	Stainless steel, Carbide

Technical Illustration



Customer Benefits

- » Standard offer includes up to 10 valves
- » Material pressure up to 200 bar
- » Carbide valve seat and needle for longer downtime periods
- » Minimal flushing due to reduction of dead space
- » Second chamber for plasticizers
- » Faster valve change during maintenance
- » ATEX Marking Ex II 2G IIA T6

EcoValve7 20

Low pressure color changer

Description

EcoValve7 20 is a low pressure color changer, designed for advanced 2K application. In contrary to classical valves design, the **EcoValve7 20** is equipped with a diaphragm seal between needle and piston. Therefore leakages are impossible. In addition, the valve opens automatically in

an overpressure situation. The diaphragm valve is characterized by its extremely high lifetime, its easy to clean surface and its integrated needle seat which guarantees a fast maintenance.

Product Line

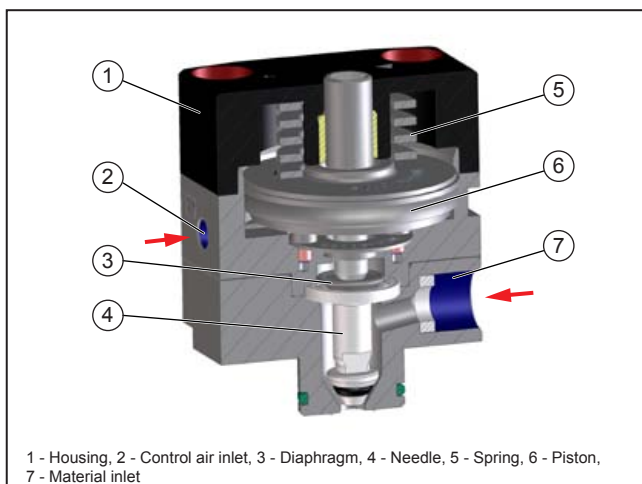


Type	EcoValve7 20 1C	EcoValve7 20 2C	EcoValve7 20 3C
Part No.	N32350010	N32350011	N32350014
No. of Colors	1	2	3
Material Pressure, max.	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)
Media temperature	15-50 °C (59-122 °F)	15-50 °C (59-122 °F)	15-50 °C (59-122 °F)
Materials contacted by media	Stainless steel, Titanium	Stainless steel, Titanium	Stainless steel, Titanium



Type	EcoValve7 20 4C	EcoValve7 20 5C	EcoValve7 20 6C
Part No.	N32350012	N32350015	N32350016
No. of Colors	4	5	6
Material Pressure, max.	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)
Media temperature	15-50 °C (59-122 °F)	15-50 °C (59-122 °F)	15-50 °C (59-122 °F)
Materials contacted by media	Stainless steel, Titanium	Stainless steel, Titanium	Stainless steel, Titanium

Technical Illustration



Customer Benefits

- » Diaphragm technology of **EcoValve7 20** ensures a high lifetime and prevents the system from bursting hoses
- » Flat surfaces allow easy cleaning
- » Special industrial design of **EcoValve7 20** increased robustness by high value covers and surfaces

Cleaning Devices

Application equipment cleaning



Product Families

- » **EcoGun Cleaner M** – automatic cleaning device for manual spray gun



EcoGun Cleaner M

Spray gun cleaning device

Description

Cleaning device to perform an automatic color change with a pneumatic trigger to activate the manual gun

Product Line



Type	EcoGun Cleaner M
Part No.	N05010120
Comaptible spray guns	EcoGun 246, EcoGun 249, EcoGun 910S, EcoGun 2100, Graco Pro XP 40, Graco Air Pro, SataJet 3000 KRP, Iwata W200 *
Compatible controls	EcoDose 2K
Max. paint temperature	65 °C [149 °F]
Field of use	1K or multicomponent paint applications with or without high voltage. Mainly for flushing of manual guns e.g. in combination with EcoDose 2K

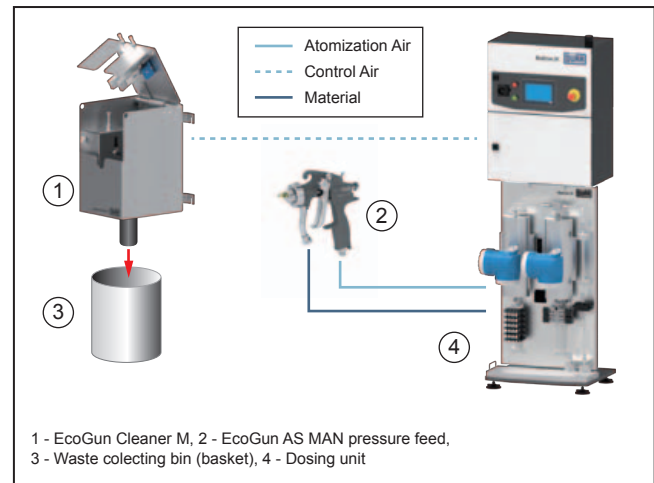
* Other spray gun models on request.

release. Suitable for multi-component solventborne and waterbased paint with a pressure of maximum 200 bar.

Customer Benefits

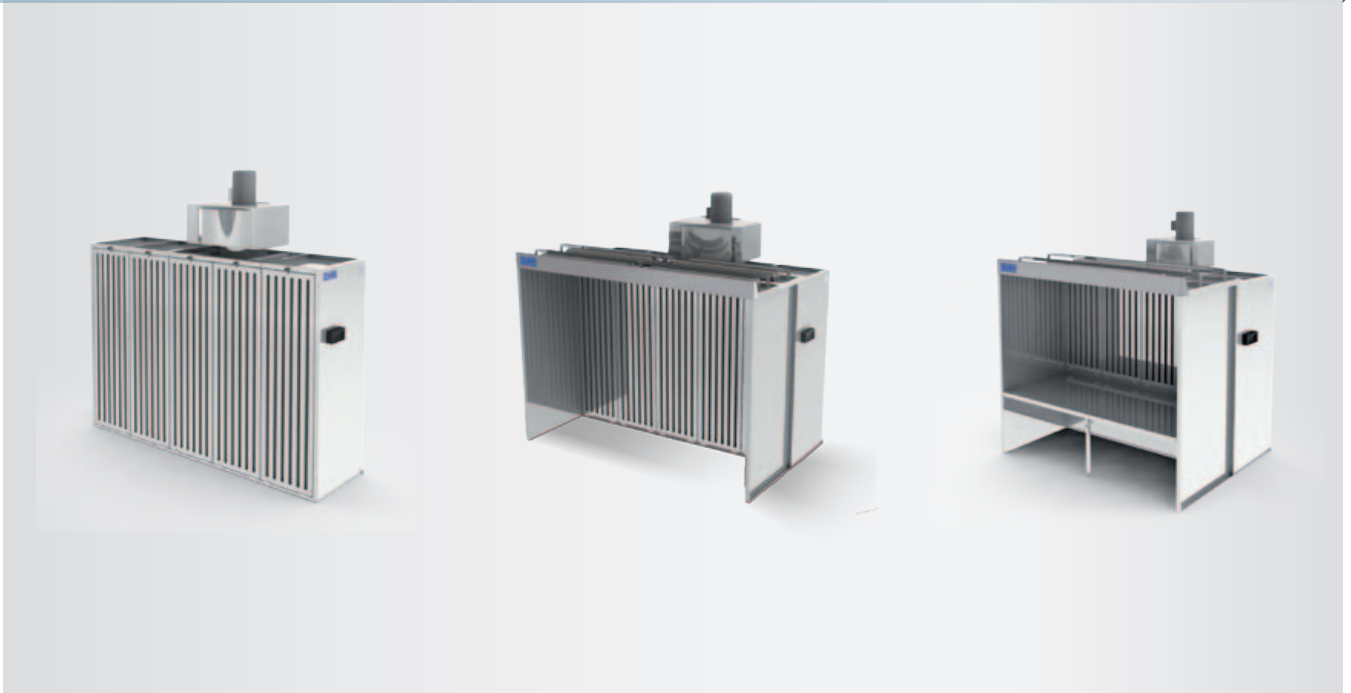
- » Automatic cleaning of manual spray guns
- » Pneumatically controlled
- » Direct control from 2K dosing with pot time control

Technical Illustration



Painting Walls & Booths

Paint efficiently



Product Families

- » Painting Walls and Booths - with dry filtration system

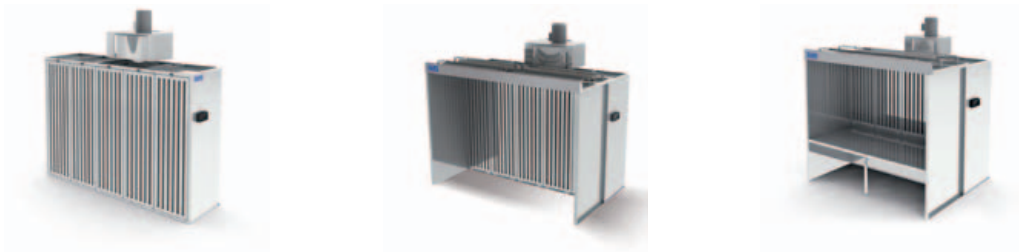
Painting Walls and Booths with dry filtration system

Description

Painting walls and booths with floor or table work area are the perfect solution for paint application of large or small workpieces in many industries like woodworking or steel manufacturing. Control unit can be situated on

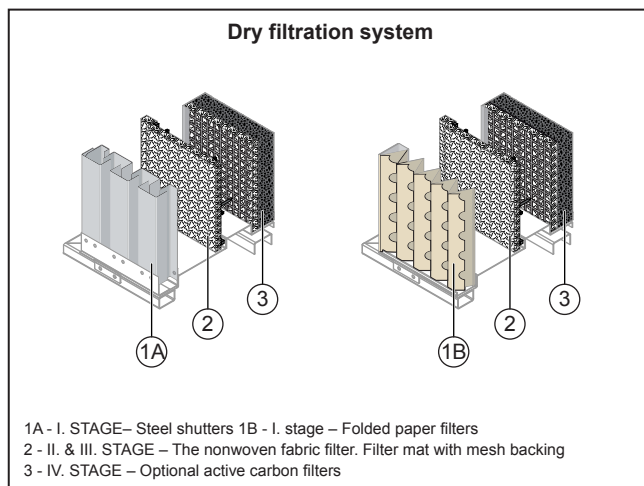
sidewall or in any other location just to be in the proper position for the user. Optionally, the painting wall can be equipped with a standby module which significantly saves heating energy in winter time.

Product Line



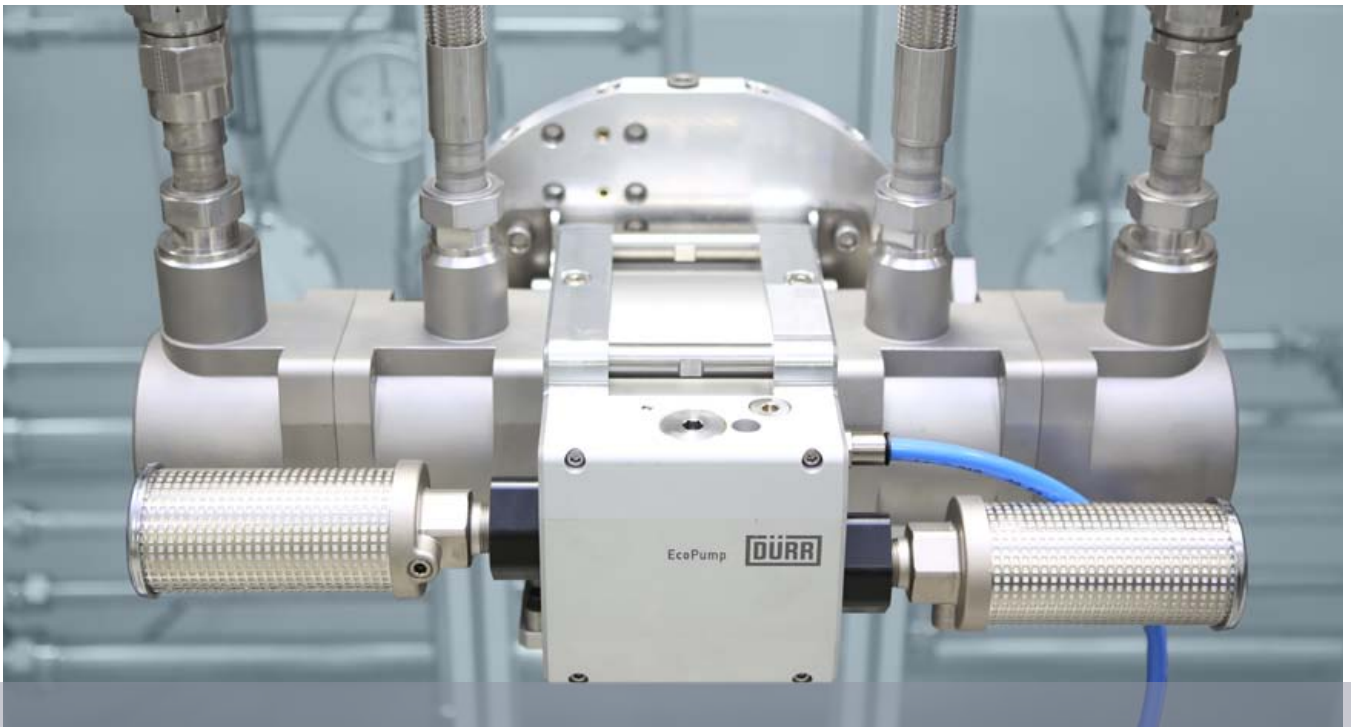
Type	OPW	OPB	OPT
Part No.	N52140001V	N52140001V	N52140001V
Working area type	floor, open	floor, side walls	table, side walls
Working area width	1200 / 1800 / 2400 / 3000 mm	1200 / 1800 / 2400 / 3000 mm	1200 / 1800 / 2400 mm
Illumination	none	yes	yes
Amount of exhaust air	4,700 – 11,600 m³/h	4,700 – 11,600 m³/h	3,000 – 6,000 m³/h
Electric motor, fan	2.5 – 4.8 kW	2.5 – 4.8 kW	1.4 – 3.6 kW
Typical use	Large subjects coating, gluing or sealing	Coating, gluing or sealing of big or mid size subjects	Small subjects coating, gluing, sealing

Technical Illustration



Customer Benefits

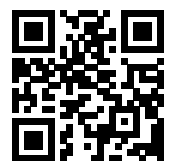
- » Dry filtration system easy to maintain
- » Optional carbon coal filters
- » Modular design
- » Optional functions like energy saver or maintenance unit.
- » Control panel for Zone 1



PUMPS & FLUID HANDLING

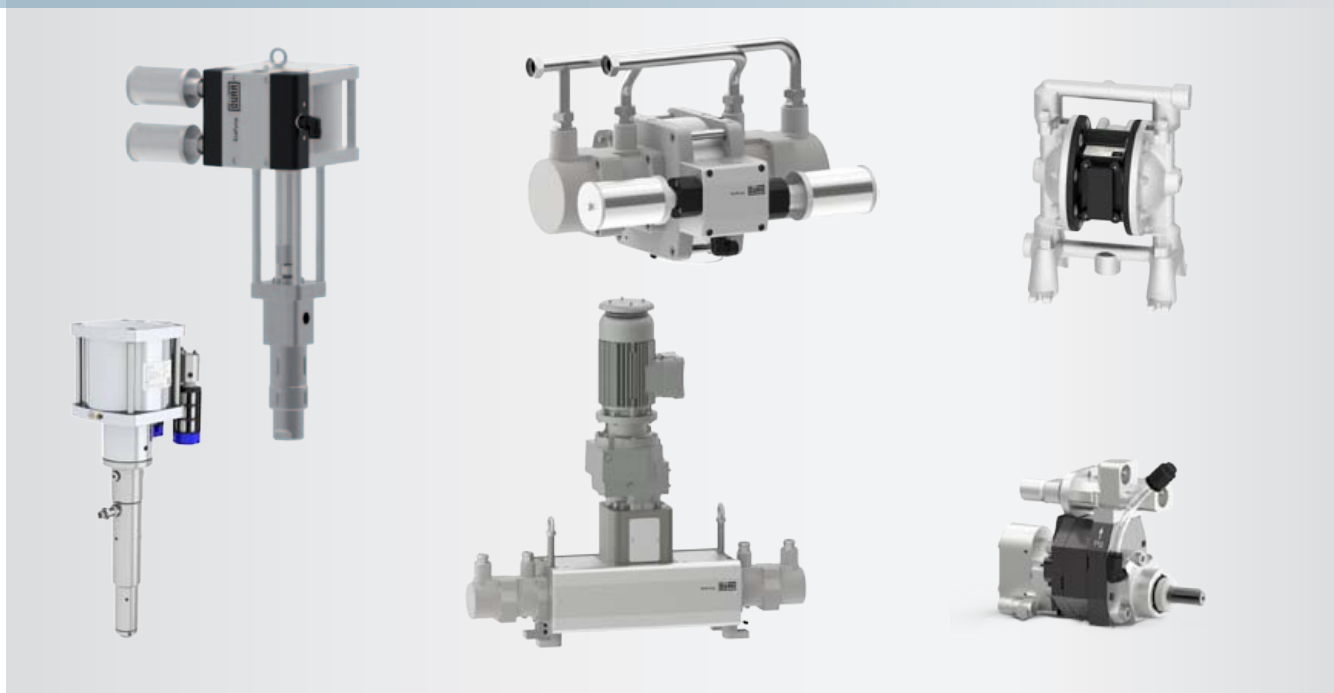
Product Groups

» Pumps	38
» Pressure Regulators	54
» Pressure Pots	61
» Agitators	64
» Filters	68
» Pressure Gauges	73
» Hoses	76



Pumps

Pump solutions for any kind of application



Product Families

- » **EcoPump VP** – Air operated vertical piston pumps
- » **EcoPump HP** – Air operated horizontal piston pumps
- » **EcoPump HPE** – Electrical driven horizontal piston pumps
- » **EcoPump GW** – Gear wheel dosing pumps
- » **EcoPump AD** – Air operated diaphragm pumps
- » **EcoPump packages** – ready to spray kits



EcoPump VP

Air operated vertical piston pumps

Description

The **EcoPump VP** is a pneumatically driven vertical piston pump for medium and high-pressure applications. Proven design and long term durability make these pumps a perfect choice for small and middle applications of paint, mastics and adhesives to furniture, steel structures or

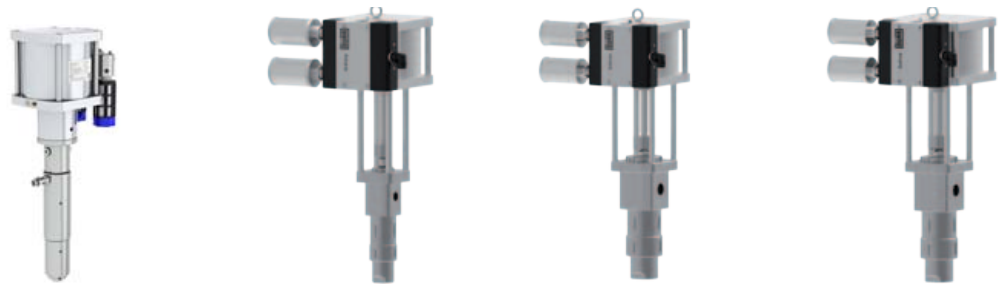
walls, car bodies and other objects. The **EcoPump VP** is suitable for airless or air-assisted application and is available in numerous configurations with various air inlet modules, pressure relief valves, trolleys and adjacent devices.

Product Line



Type	EcoPump VP 55 200	EcoPump VP 55 310	EcoPump VP 55 445	EcoPump VP 90 280
Part No.	N24170005	N24170006	N24170007	N24170008
Weight	13.1 kg	14.8 kg	17.0 kg	18.7 kg
Connector inlet / outlet	M30 / M16×1.5	M30 / M16×1.5	M30 / M16×1.5	M30 / M16×1.5
Connector air	G 3/8"	G 1/2"	G 1/2"	G 1/2"
Displacement	55 cc/cycle	55 cc/cycle	55 cc/cycle	90 cc/cycle
Ratio	25:1	39:1	64:1	40:1
Max. pressure	200 bar (2.900 bar)	310 bar (4.490 psi)	445 bar (6.450 psi)	280 bar (4.060 psi)
Flow rate @ rec. cycles	2.8 l/min (0.74 gal/m)	2.8 l/min (0.74 gal/m)	2.8 l/min (0.74 gal/m)	4.5 l/min (1.19 gal/m)
Recommended cycles*	30 cyc/min	30 cyc/min	25 cyc/min	25 cyc/min
Air Pressure max.	8 bar (116 psi)	8 bar (116 psi)	7 bar (101 psi)	7 bar (101 psi)

* cycles for continuous operation and partial load



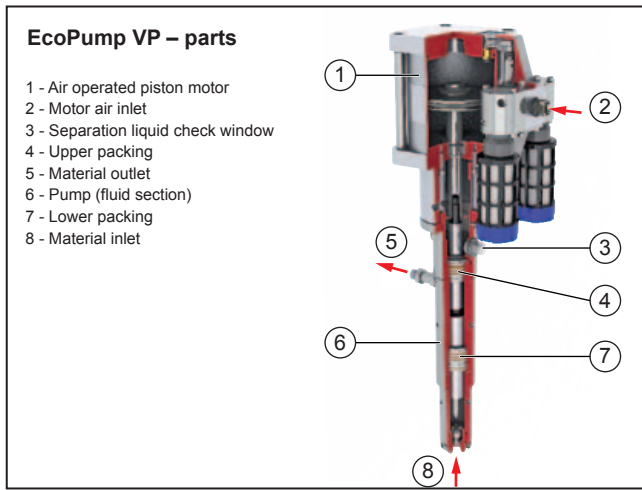
Type	EcoPump VP 110 225	EcoPump VP 250 360	EcoPump VP 1000 90	EcoPump VP 1000 135
Part No.	N24170009	N24170014	N24170013	N24170012
Weight	18.7 kg	81.5 kg	113.0 kg	124.5 kg
Connector inlet / outlet	M30 / M16×1.5	G 1 1/2" / G 1"	G 2" / G 1 1/2"	G 2" / G 1 1/2"
Connector air	G 1/2"	G 3/4"	G 3/4"	G 3/4"
Displacement	110 cc/cycle	250 cc/cycle	1000 cc/cycle	1000 cc/cycle
Ratio	32:1	60:1	15:1	23:1
Max. pressure	225 bar (3.260 psi)	330 bar (4,786 psi)	80 bar (1,160 psi)	120 bar (1,740 psi)
Flow rate @ rec. cycles	5.5 l/min (1.45 gal/m)	2.50 l/min (0,66 gal/m)	10.00 l/min (2,6 gal/m)	10.00 l/min (2,6 gal/m)
Recommended cycles *	25 cyc/min	10 cyc./min	10 cyc./min	10 cyc./min
Air Pressure max.	7 bar (101 psi)	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)

* cycles for continuous operation and partial load

EcoPump VP

Air operated vertical piston pumps

Technical Illustration

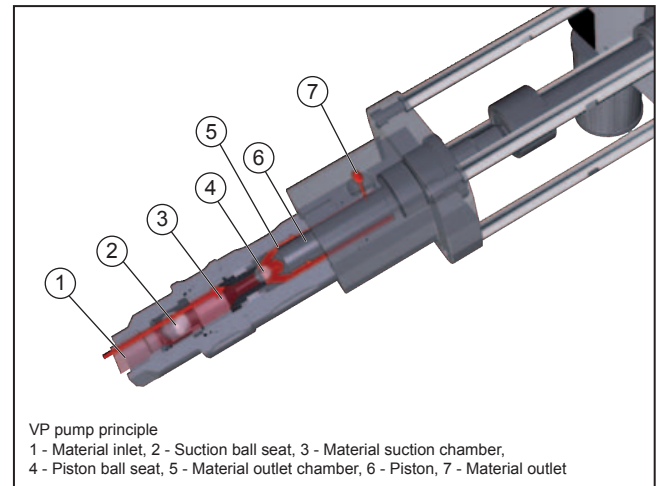


Customer Benefits

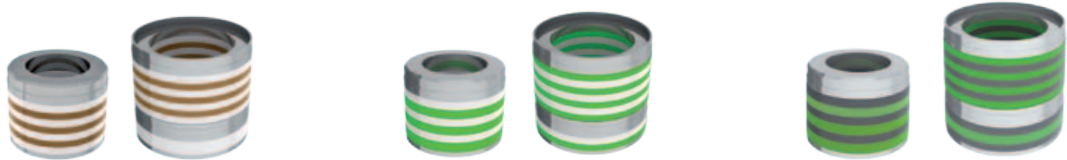
- » Balanced pressure variations
- » Wide range of accessories available
- » Tip cleaning aid (optional part of air inlet)
- » Material supplying parts in stainless steel
- » Suitable for airless and air assisted applications
- » Modular design
- » ATEX Ex II 2G IIA T6

Functional principle

A piston is moving back and forth within a chamber sucking a paint from a supply line and pumping it into a paint line. In both cases the change-over from sucking to pumping is controlled by a 5/2 valve. Piston pumps can be either designed vertically or horizontally. Vertical pumps work against / with gravity. Horizontal pumps do not have this limitation.



VP pump packings



Packing type	Standard	UF	UE
Usage	Standard paints or other materials	2K media (mixed resin and catalyst).	Abrasive materials like zinc or aluminum paints.
Pumps	EcoPump VP 55 200 (N24170005) EcoPump VP 55 310 (N24170006) EcoPump VP 55 445 (N24170007) EcoPump VP 90 280 (N24170008) EcoPump VP 110 225 (N24170009)	EcoPump VP 55 200 UF (N24170015) EcoPump VP 55 310 UF (N24170017) EcoPump VP 55 445 UF (N24170019) EcoPump VP 90 280 UF (N24170021) EcoPump VP 110 225 UF (N24170022)	EcoPump VP 55 200 UE (N24170016) EcoPump VP 55 310 UE (N24170018) EcoPump VP 55 445 UE (N24170020)

EcoPump HP

Air operated horizontal piston pumps

Description

The **EcoPump HP** is an air-driven horizontal piston pump. It has been manufactured and tested according to Dürr's well-proven quality standards. Performance and durability are further distinguishing characteristics in order to meet the highest demands. With a concealed shaft seal this **EcoPump HP** is primarily designed for paint circulation systems as well as fluid transfer and

supply. A horizontal two piston design guarantees equal thrust on both strokes and a rapid pump change-over with a quick release valve for reduced surge. Its modular design enables easy maintenance. Typically handled fluids are water and solvent borne paints, varnishes, enamels and lacquers.

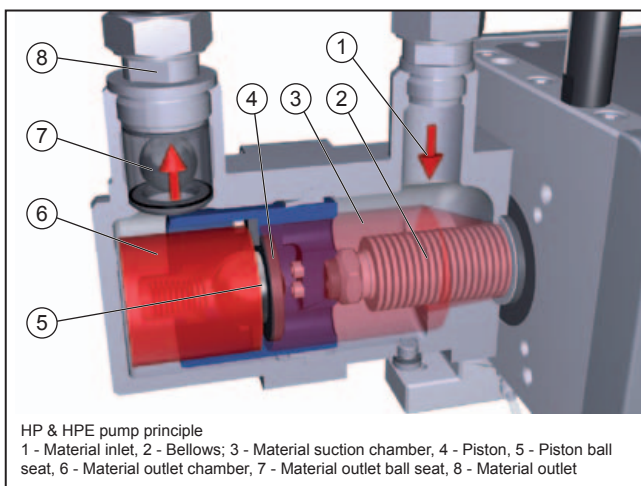
Product Line



Type	EcoPump HP 400 21	EcoPump HP 800 21	EcoPump HP 1600 21
Part No.	N24160001	N24160002	N24160003
Weight	45.0 kg	62.0 kg	94.0 kg
Connector inlet / outlet	EcoTube DN25 / EcoTube DN25 *	EcoTube DN25 / EcoTube DN25 *	EcoTube DN25 / EcoTube DN25 *
Connector air	G 3/8"	G 3/8"	G 3/8"
Displacement	400 cc/cycle	800 cc/cycle	1600 cc/cycle
Ratio	3.5:1	3.5:1	3.5:1
Max. pressure	21 bar (305 psi)	21 bar (305 psi)	21 bar (305 psi)
Flow rate @ rec. cycles	8 l/min (2.1 gal/m)	16 l/min (4.2 gal/m)	32 l/min (8.5 gal/m)
Recommended cycles	20 cyc/min **	20 cyc/min **	20 cyc/min **
Air Pressure max.	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)

* sanitary type fluid ports are available as an option ** cycles for continuous operation and partial load

Technical Illustration



Customer Benefits

- » Balanced pressure variations
- » Stainless steel fluid section
- » Tested according to DIN EN 12162 and well-proven Dürr quality standards
- » Low ice change-over by thermal isolation of the muffler and optimized air flow
- » Four-ball design
- » No exposed shaft seal
- » Lubricant free
- » Horizontal two-piston design guarantees equal thrust on both strokes
- » Rapid pump change-over with quick release valve for reduced surge
- » Modular pump design, easy to maintain
- » Wide range of accessories available

EcoPump HPE

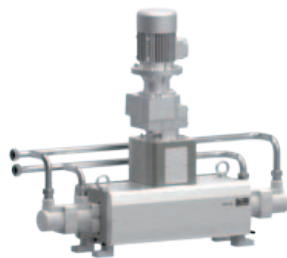
Electrical operated horizontal piston pumps

Description

The **EcoPump HPE** is a horizontal piston pump with an electric drive to achieve superior performance with lower operating costs. It has been manufactured according to Dürr's well-proven quality standards. Durability and reliability are further distinguishing characteristics in order to meet the highest of demands. The **EcoPump HPE** has been designed primarily for paint circulation as well as fluid transfer and supply. With a concealed shaft seal the **EcoPump HPE** is primarily designed for paint

circulation systems as well as fluid transfer and supply. A horizontal two piston design guarantees equal thrust on both strokes and a rapid pump change-over with a quick release valve for reduced surge. Its modular design enables easy maintenance. Typically handled fluids include water and solvent borne paints, varnishes, enamels and lacquers. The **EcoPump HPE** has been tested according to DIN EN 12162

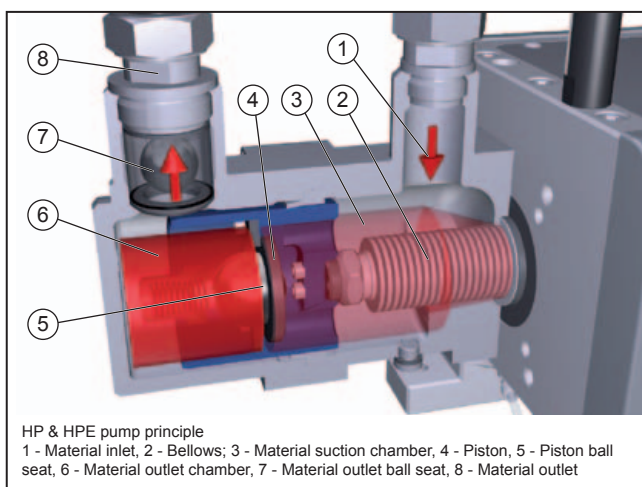
Product Line



Type	EcoPump HPE 400 21	EcoPump HPE 800 21
Part No.	N24260002	N24260003
Weight	158 kg	188 kg
Connector inlet / outlet	EcoTube DN25 / EcoTube DN25 *	EcoTube DN25 / EcoTube DN25 *
Displacement	400 cc/cycle	800 cc/cycle
Parts contacted by media	Stainless steel	Stainless steel
Max. pressure	21 bar (305 psi)	21 bar (305 psi)
Flow rate @ rec. cycles	8 l/min (2.1 gal/m) **	16 l/min (4.2 gal/m) **
Rated Power	0.75 kW	1.50 kW

* sanitary type fluid ports are available as an option ** cycles for continuous operation and partial load

Technical Illustration



Customer Benefits

- » Tested according to DIN EN 12162 and well-proven
- » Dürr quality standards
- » Electrical drive provides superior performance with lower operating costs
- » Stainless steel fluid sections
- » Four-ball design
- » No exposed shaft seal
- » Lubricant free
- » Horizontal two-piston design guarantees equal thrust on both strokes
- » Modular pump design, easy to maintain
- » ATEX Ex II 2G IIA T4

EcoPump AD

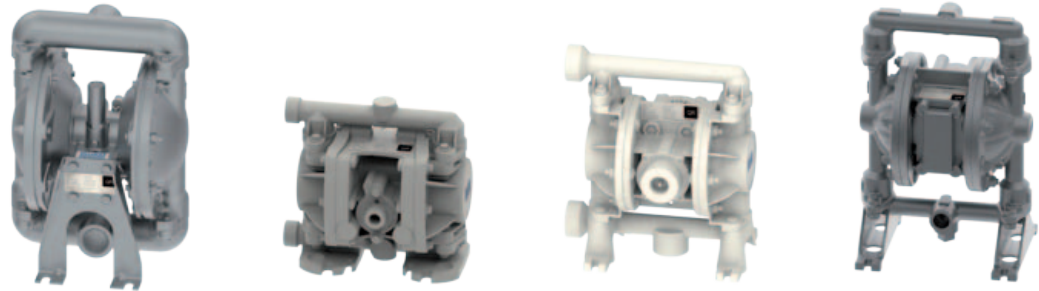
Air operated diaphragm pumps

Description

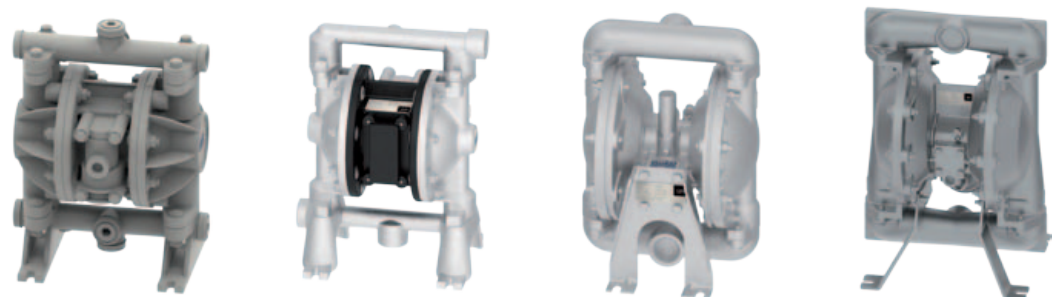
A wide choice of manufacturing materials for the pump housing makes the **EcoPump AD** the best solution for different kinds of fluid handling such as abrasive and particle containing fluids. The typical field of application of the **EcoPump AD** is to handle oil, water, waste liquids

with and without solid particle debris, water and solvent borne paints, varnishes, enamels and lacquers. The **EcoPump AD** pump will operate in circulation or direct fluid delivery mode. The simple design of **EcoPump AD** allows easy maintenance and service.

Product Line



Type	EcoPump AD 600 8.3 SST PTFE 1"	EcoPump AD 72 8.3 Ace PTFE 1/4"	EcoPump AD 83 6.9 Ace PTFE 3/8"	EcoPump AD 150 6.9 SST PTFE 1/2"
Part No.	N24140004	N24140005	N24140006	N24140007
Weight	16.3 kg	1.6 kg	1.9 kg	6.6 kg
Connector inlet / outlet	1" BSP / 1" BSP	1/4" BSP / 1/4" BSP	3/8" BSP / 3/8" BSP	1/2" BSP / 1/2" BSP
Connector air	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Displacement	600 cc/cycle	72 cc/cycle	83 cc/cycle	150 cc/cycle
Ratio	1:1	1:1	1:1	1:1
Max. pressure	8.3 bar (120 psi)	8.6 bar (125 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
Flow rate	133 l/min (35.1 gal/min)	20 l/min (5,3 gal/min)	40 l/min (10,6 gal/min)	49 l/min (12,9 gal/min)
Parts contacted by media	Stainless steel, PTFE	Acetal, PTFE	Acetal, PTFE	Stainless steel, PTFE



Type	EcoPump AD 150 6.9 Acetal/Teflon 1/2"	EcoPump AD 150 6.9 Al PTFE/Teflon 1/2"	EcoPump AD 600 8.3 Al PTFE/Teflon 1"	EcoPump AD 2420 8.3 SST PTFE/Tefl 1 1/2"
Part No.	N24140008	N24140009	N24140010	N24140011
Weight	4.0 kg	3.8 kg	8.6 kg	38.3 kg
Connector inlet / outlet	1/2" BSP / 1/2" BSP	1/2" BSP / 1/2" BSP	1" BSP / 1" BSP	1 1/2" BSP / 1 1/2" BSP
Connector air	1/4" NPT	1/4" NPT	1/4" NPT	1/2" NPT
Displacement	150 cc/cycle	150 cc/cycle	600 cc/cycle	2420 cc/cycle
Ratio	1:1	1:1	1:1	1:1
Max. pressure	6.9 bar (100 psi)	6.9 bar (100 psi)	8.3 bar (120 psi)	8.3 bar (120 psi)
Flow rate	49 l/min (12,9 gal/min)	49 l/min (12,9 gal/min)	133 l/min (35,1 gal/min)	340 l/min (89,8 gal/min)
Parts contacted by media	Acetal, PTFE	Stainless steel, Al, PTFE	Stainless steel, Al, PTFE	Stainless steel, PTFE

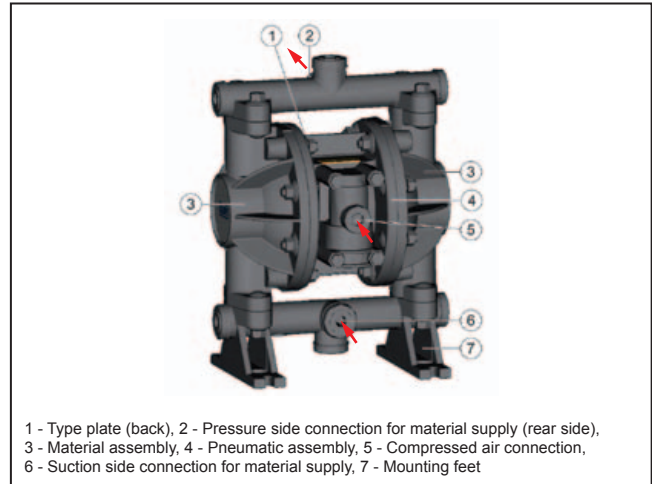
EcoPump AD

Air operated diaphragm pumps

Customer Benefits

- » Selected choice of materials for housing
- » Easy maintenance and service
- » Highly flushable
- » Suitable for abrasive fluids and media containing solids

Technical Illustration



EcoPump9 GW 20

Gear wheel pump

Description

The **EcoPump9 GW** is a highly efficient gearwheel pump, cavity-free in a compact configuration, achieving a perfect color change with a very low purging time. It has been manufactured and tested in compliance with to Dürr's well-proven quality standards. Based on decades

of experience in the area of paint application, the **EcoPump9 GW** has emerged as the perfect device for 1K and 2K dosing of water and solvent based paint.

Product Line



Type	EcoPump9 GW 20 3.0 Bypass SHV	EcoPump9 GW 20 4.5 Bypass SHV	EcoPump9 GW 20 1.0
Part No.	N24190001	N24190002	N24190003
Flow per Revolution	3,00 cm ³	4,50 cm ³	1,00 cm ³
Speed min./max.	20/200 rpm	20/200 rpm	20/200 rpm
Connector inlet / outlet	Dürr Paint Fitting	Dürr Paint Fitting	Dürr Paint Fitting
Max. pressure	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)
Dosing Accuracy (+/-)	2,0 %	2,0 %	2,5 %
Bypass	Yes	Yes	None
Overpressure valve	Yes	Yes	None
Pressure gage	None	None	Yes
DLC coating	Yes	Yes	None

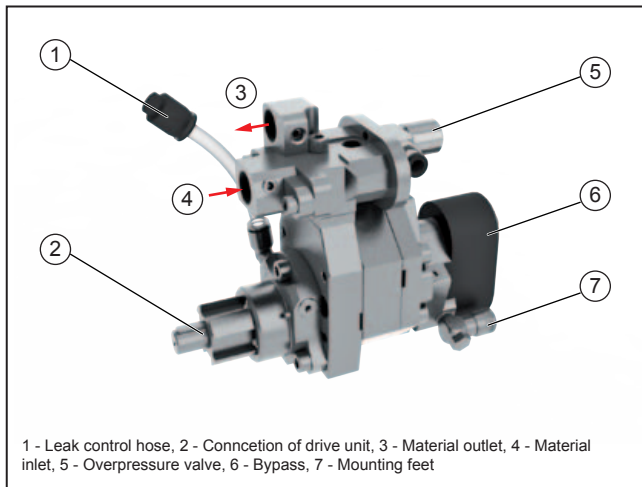


Type	EcoPump9 GW 20 2.0	EcoPump9 GW 20 4.5 SHV	EcoPump9 GW 20 0,45
Part No.	N24190004	N24190005	N24190006
Flow per Revolution	2,00 cm ³	4,50 cm ³	0,45 cm ³
Speed min./max.	20/200 rpm	20/200 rpm	20/200 rpm
Connector inlet / outlet	Dürr Paint Fitting	Dürr Paint Fitting	Dürr Paint Fitting
Max. pressure	20 bar (290 psi)	20 bar (290 psi)	20 bar (290 psi)
Dosing Accuracy (+/-)	2,5 %	2,0 %	3,0 %
Bypass	None	None	None
Overpressure valve	None	Yes	None
Pressure gage	Yes	None	Yes
DLC coating	None	Yes	None

EcoPump9 GW 20

Gear wheel pump

Technical Illustration



Customer Benefits

- » Low instalation space required due to small footprint
- » Minimal purging time
- » Targeted purging of the shafts and bearing bore by patented wash-up system
- » Fast pre-paint bypass valve (with purgable pump)
- » High stability due to patented construction
- » Usage of hardened stainless steel with DLC coating to reduce friction and abrasion
- » Modular pump concept
- » Quick disassembly of paint hoses
- » Large operating range
- » Simplified service & maintenance
- » Tested according to Dürr quality standards

Accessory - Gear Wheel pumps



Type	Metering unit GW 20 w/o drive EC	Metering unit GW 20 w/o drive IC	Digital servomotor 0,8Nm 9000rpm	Digital servomotor 0,8Nm 9000U 2G	Digital servomotor 0,8Nm 9000U UL
Part No.	N10190001	N10190002	N23150057	N23150066	N23150067
Compatible pumps	all GW pumps	all GW pumps	all GW pumps	all GW pumps	all GW pumps
Description	Nonisolated transmission unit to connect servomotor with gear wheel pump. Suitable for external charge installations.	Isolated transmission unit to connect servomotor with gear wheel pump. Suitable for direct charge installations	Servomotor for actuation of gear wheel pumps.	Servomotor for actuation of gear wheel pumps. Ex certification.	Servomotor for actuation of gear wheel pumps. US certification.



Type	Elbow screw con. cpl. 4x6 D3,3 90°	Elbow screw con. cpl. 6x9 D5 90°	Insertion nipple cpl. 6x9 L26,9	Insertion nipple cpl. 4x6 L24
Part No.	M57030038	M57030039	M58030134	M58030136
Compatible pumps	all GW pumps	all GW pumps	all GW pumps	all GW pumps
Description	Elbow connector for 4/6 material hoses.	Elbow connector for 6/9 material hoses.	Direct connector for 6/9 material hoses.	Direct connector for 4/6 material hoses.

EcoPump Packages

Ready to use painting devices

Description

The pump packages are fully assembled portable coating module that is ready to use. The modular design ensures a use in multiple industry including wood finishing and exterior painting. There is equipment for high-pressure coating based on **EcoPump VP** pumps and low pressure coating devices which use a line of diaphragm pumps

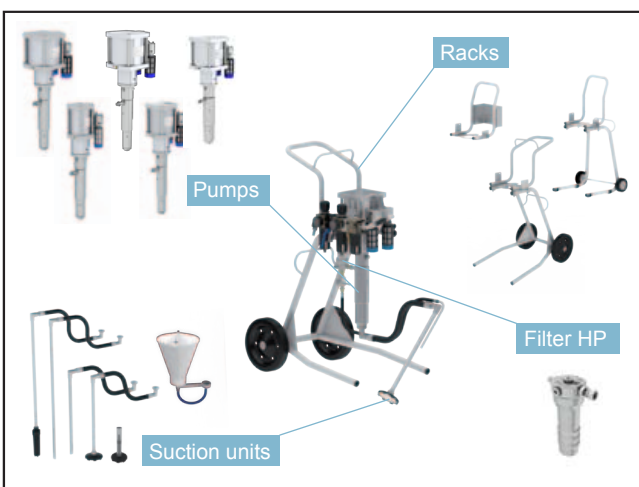
EcoPump AD pumps. Variability is ensure by wide configuration options where the selection is made between different assembly modules like carriage, suction type or optional accessory to extend user's comfort.

Product Line



Type	EcoPump AD - package	EcoPump VP - package
Part No.	N92120001V	N92110001V
Weight	19.0 - 37.0 kg	16.0 - 45.0 kg
Pressure category	Low presure	High pressure
No. of pumps	5 types	5 types
Suction units	Direct / Hose / Hopper 5L	Direct / Hose / Hopper 5L
Racks	Trolley / Mobile stand / Wall mount	Trolley / Mobile stand / Wall mount

Technical Illustration



Customer Benefits

- » Modular design to bring great versatility
- » Low pressure or high pressure variant
- » Filtration on inlet and outlet (optional)
- » Flow regulator (optional for AD pumps only)
- » Electronic control unit (optional for VP pumps only)
- » Wide range of accessories

EcoPump VP package

Modules overview

1 Pneumatic motor & Pumps

Pump is delivered in different ratios and displacement volume.

2 Maintenance units

Used for inlet air regulation. Units are attached according to motor type and application method used (Airless, Air Assist).



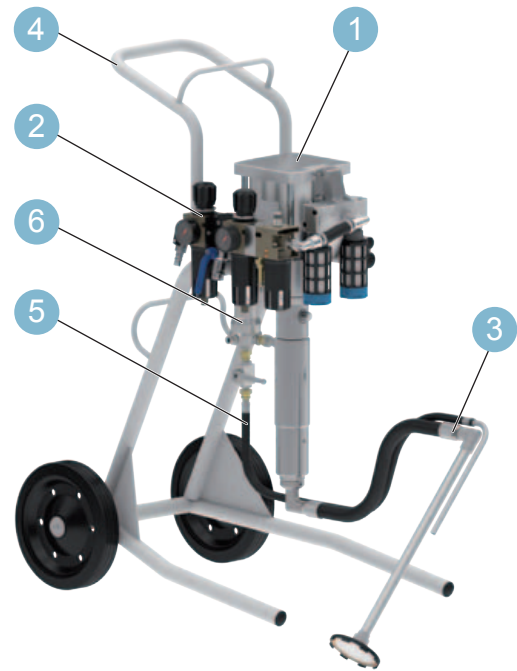
3 Material feeding

- » Direct Suction
- » Flexible Suction
- » Hopper (5 liters)



4 Racks

- » Trolley
- » Mobile Stand
- » Wall Mount



5 Pressure release units

Used for safe release of pressure from fluid section. There are different variants depending on package configuration.

6 High pressure filter

High-pressure filter is used for filtration of fluid on pump outlet. It has also a function of pulse dumper.



Pumps available



Type	EcoPump VP 55 200	EcoPump VP 55 310	EcoPump VP 55 445	EcoPump VP 90 280	EcoPump VP 110 225
Part No.	N24170005	N24170006	N24170007	N24170008	N24170009
Weight	13.1 kg	14.8 kg	17.0 kg	18.7 kg	18.7 kg
Displacement	55 cc/cycle	55 cc/cycle	55 cc/cycle	90 cc/cycle	110 cc/cycle
Ratio	1:25	1:39	1:64	1:40	1:32
Max. pressure	200 bar (2,900 psi)	310 bar (4,490 psi)	445 bar (6,450 psi)	280 bar (4,060 psi)	225 bar (3,260 psi)
Flow rate @ rec. cycles	2.8 l/min (0.74 gal/m)	2.8 l/min (0.74 gal/m)	2.8 l/min (0.74 gal/m)	4.5 l/min (1.19 gal/m)	5.5 l/min (1.45 gal/m)
Recommended cycles*	30 cyc/min	30 cyc/min	25 cyc/min	25 cyc/min	25 cyc/min
Air Pressure max.	8 bar (116 psi)	8 bar (116 psi)	7 bar (101 psi)	7 bar (101 psi)	7 bar (101 psi)

More information on **EcoPump VP** pumps on page no. 39

EcoPump AD package

Modules overview

1 Diaphragm pumps

Air operated diaphragm pumps are available in different design configurations.

2 Maintenance units

Used for inlet air regulation. Regulator can be also used to control air pressure for connected spray gun.

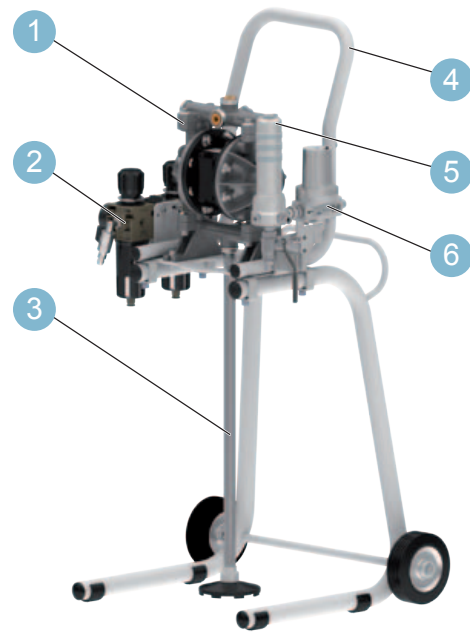
3 Material feeding

- » Direct Suction
- » Flexible Suction
- » Hopper (5 liters)



4 Racks

- » Trolley
- » Mobile Stand
- » Wall Mount



5 High pressure filter

High-pressure filter is used for filtration of fluid on pump outlet. It has also a function of pulse dumper.



6 Fluid regulator

Optional fluid regulator allows precisely adjust outlet material pressure. Optionally can be equipped with manometer.



Pumps available



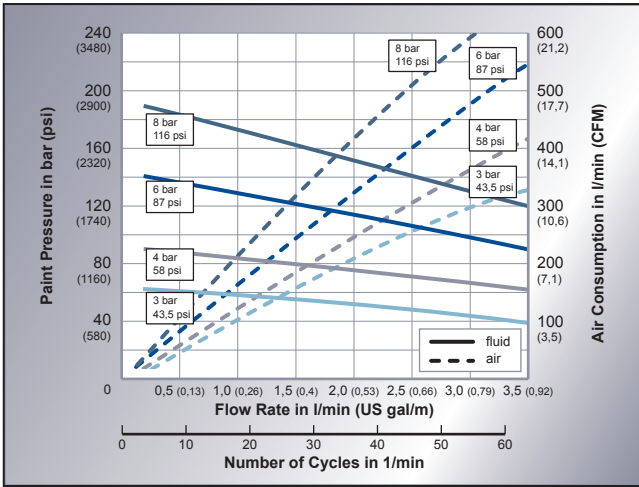
Type	EcoPump AD 72 8,3 Ace PTFE 1/4"	EcoPump AD 83 6,9 Ace PTFE 3/8"	EcoPump AD 150 6,9 SST PTFE 1/2"	EcoPump AD 150 6,9 Acetal/Teflon 1/2"	EcoPump AD 150 6,9 Al PTFE/Teflon 1/2"
Part No.	N24140005	N24140006	N24140007	N24140008	N24140009
Displacement	72 cc/cycle	83 cc/cycle	150 cc/cycle	150 cc/cycle	150 cc/cycle
Max. pressure	8.6 bar (125 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
Flow rate	20 l/min (5,3 gal/min)	40 l/min (10,6 gal/min)	49 l/min (12,9 gal/min)	49 l/min (12,9 gal/min)	49 l/min (12,9 gal/min)
Parts contacted by media	Acetal, PTFE	Acetal, PTFE	Stainless steel, PTFE	Acetal, PTFE	Stainless steel, Al, PTFE

More information on **EcoPump AD** pumps on page no. 43

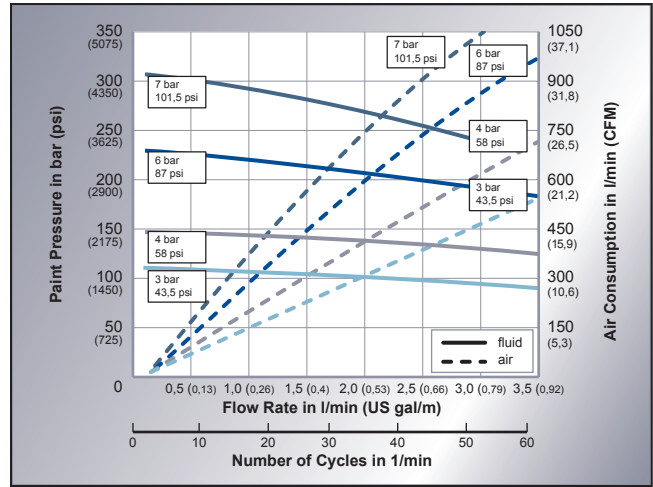
EcoPump Selection Guide

Characteristics overview

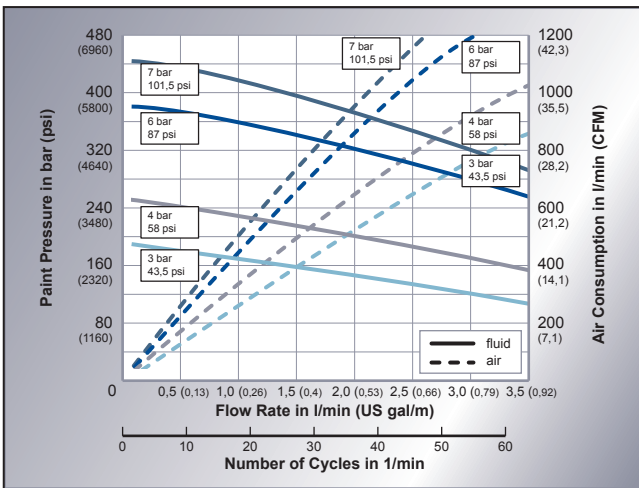
EcoPump VP



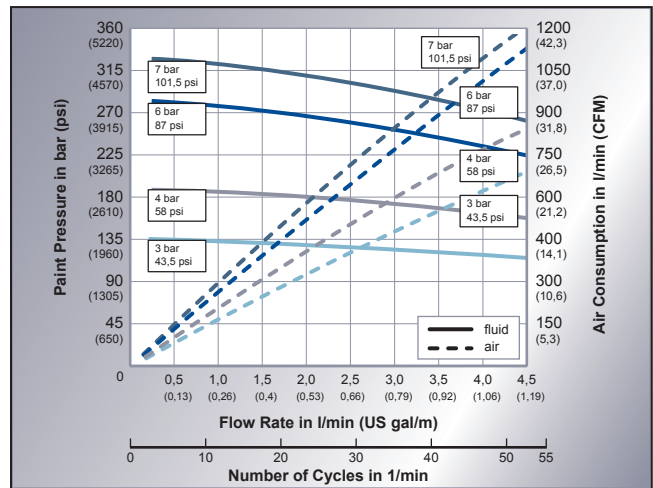
EcoPump VP 55 200 (N24170005)



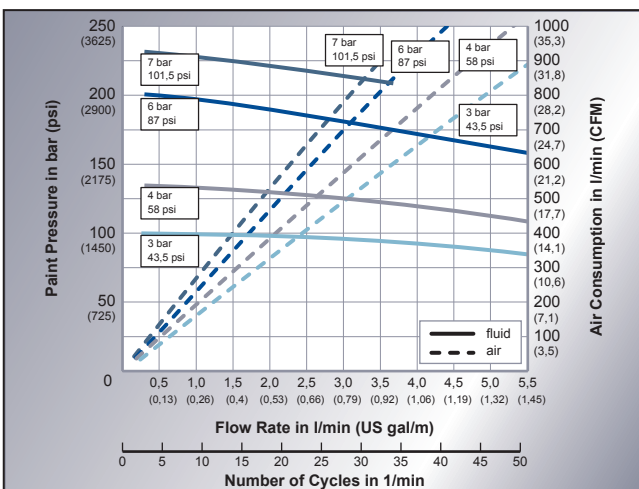
EcoPump VP 55 310 (N24170006)



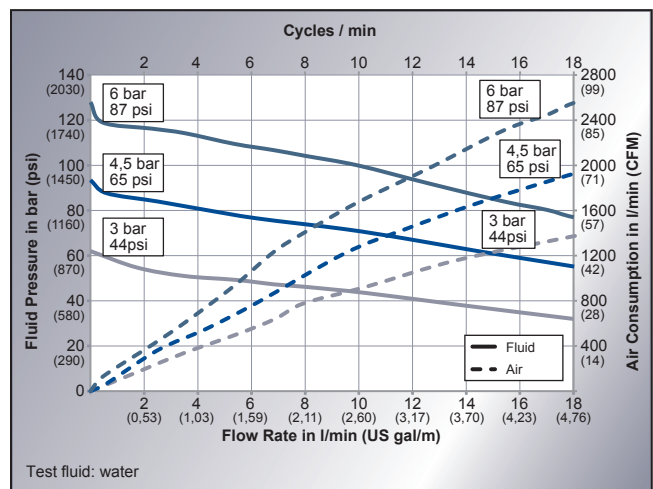
EcoPump VP 55 445 (N24170007)



EcoPump VP 90 280 (N24170008)



EcoPump VP 110 225 (N24170009)

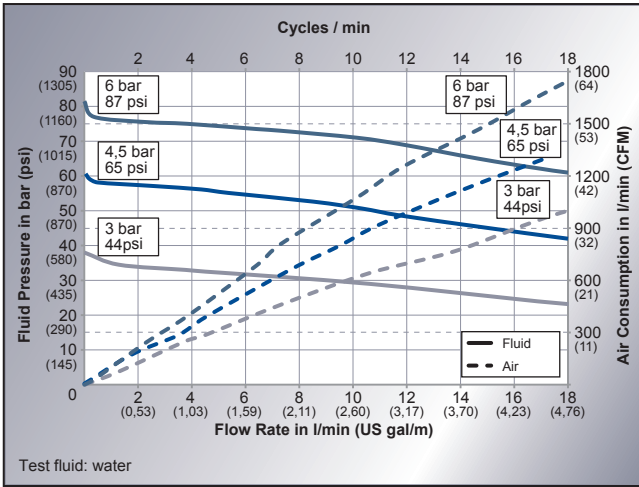


EcoPump VP 1000 135 (N24170012)

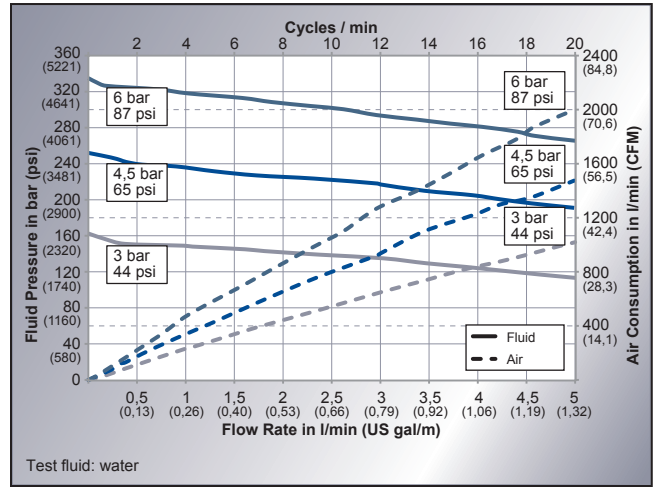
EcoPump Selection Guide

Characteristics overview

EcoPump VP

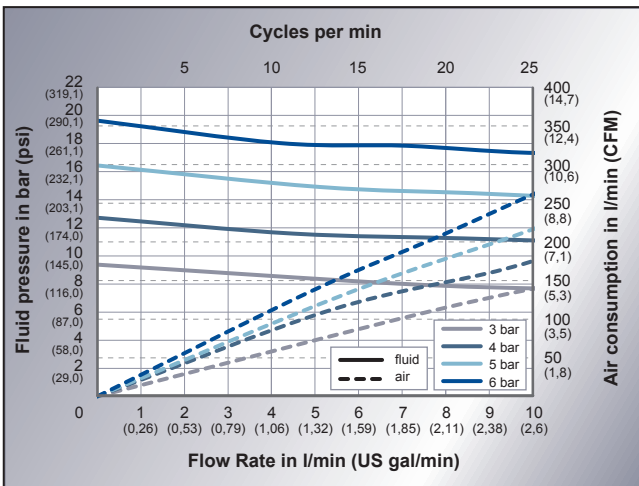


EcoPump VP 1000 90 (N24170013)

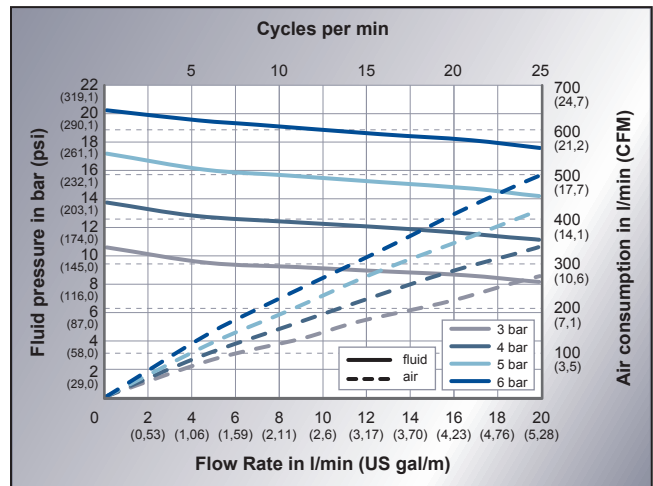


EcoPump VP 250 360 (N24170014)

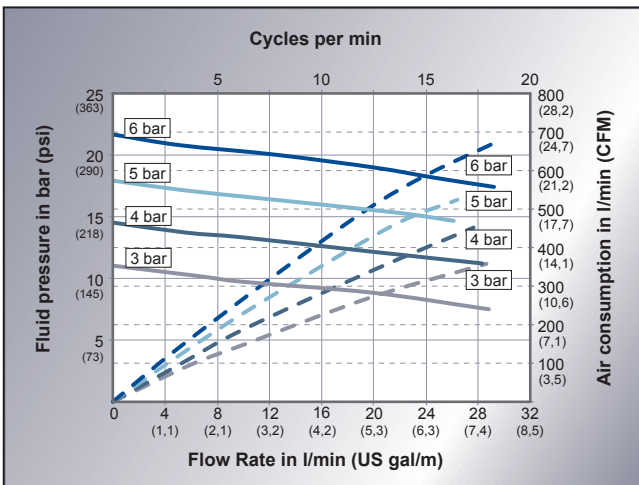
EcoPump HP



EcoPump HP 400 21 (N24160001)



EcoPump HP 800 21 (N24160002)

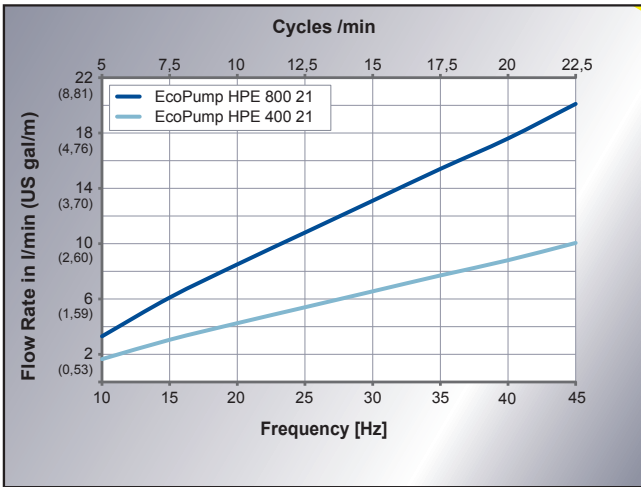


EcoPump HP 1600 21 (N24160003)

EcoPump Selection Guide

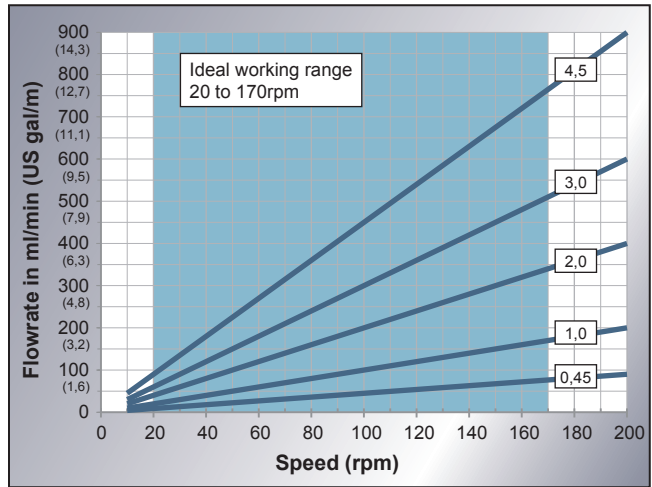
Characteristics overview

EcoPump HPE



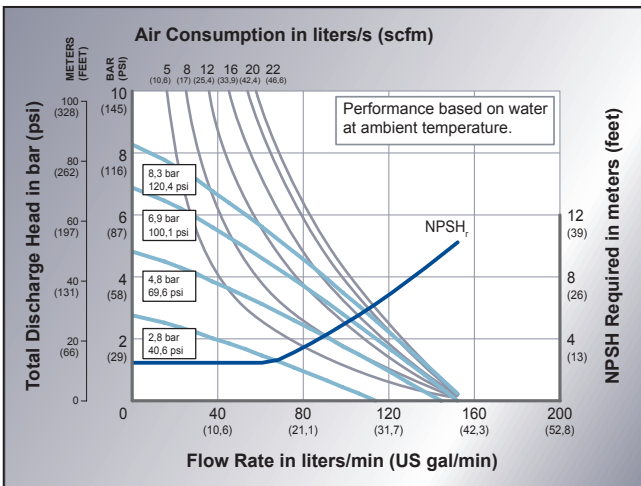
EcoPump HPE (N24260002-0003)

EcoPump9 GW

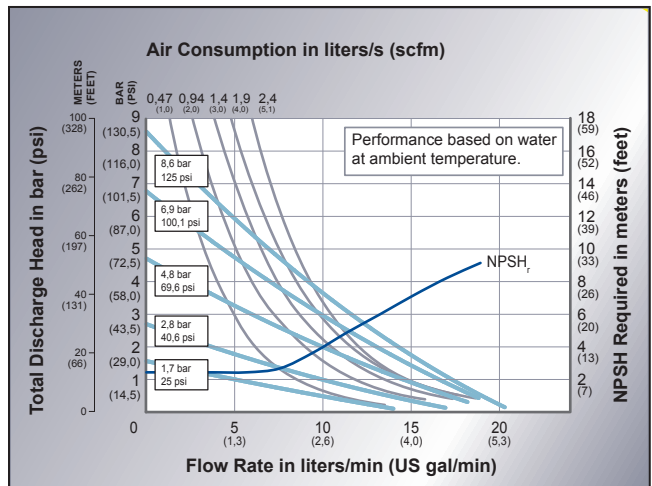


EcoPump9 GW 20 (N24190001-0006)

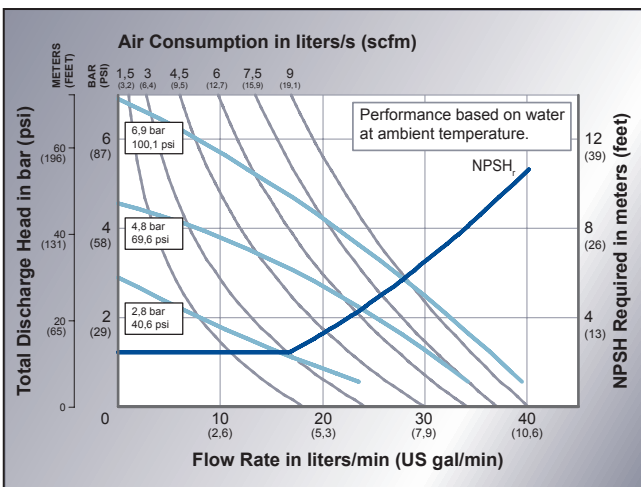
EcoPump AD



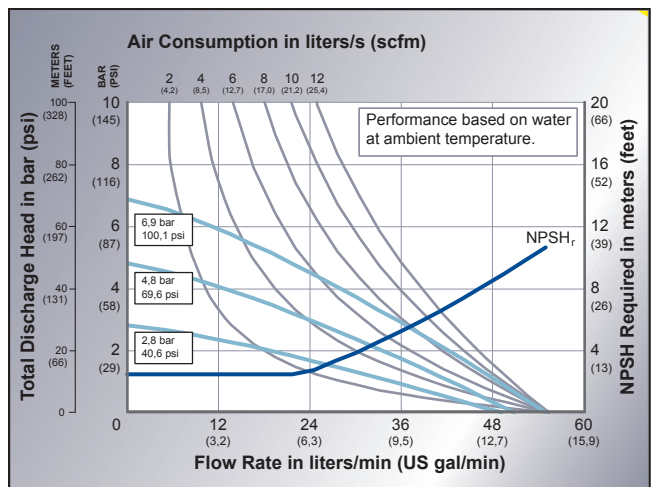
EcoPump AD 600 8,3 SST PTFE 1" (N24140004)



EcoPump AD 72 8,3 Ace PTFE 1/4" (N24140005)



EcoPump AD 83 6,9 Ace PTFE 3/8" (N24140006)

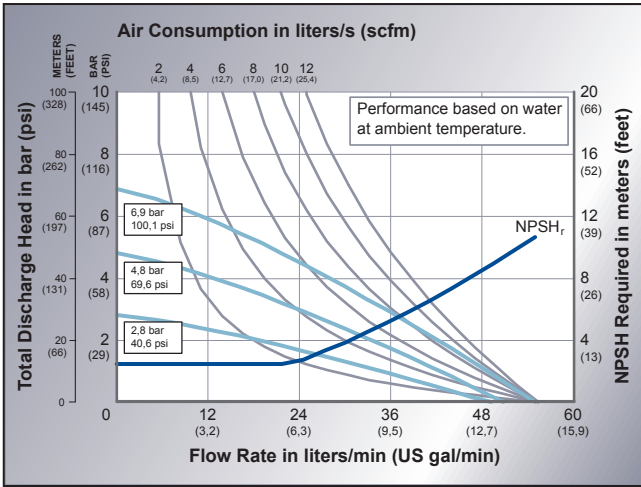


EcoPump AD 150 6,9 SST PTFE 1/2" (N24140007)

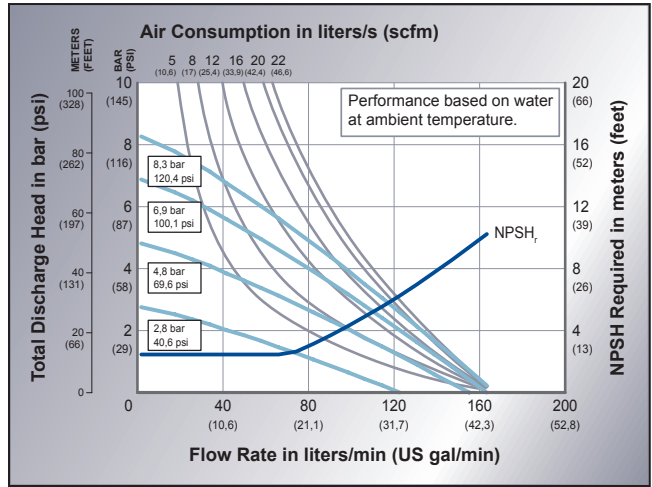
EcoPump Selection Guide

Characteristics overview

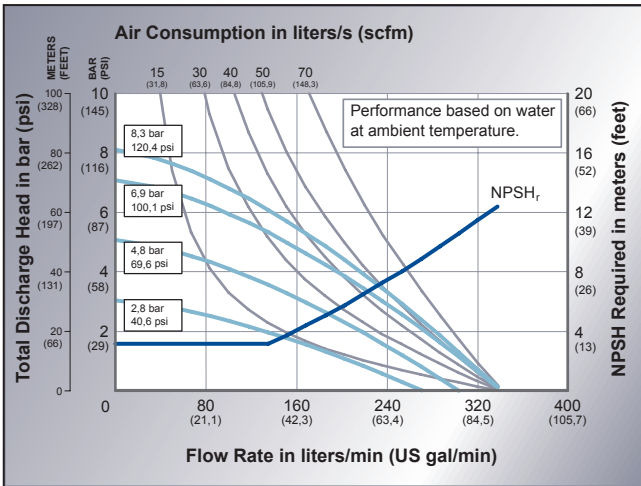
EcoPump AD



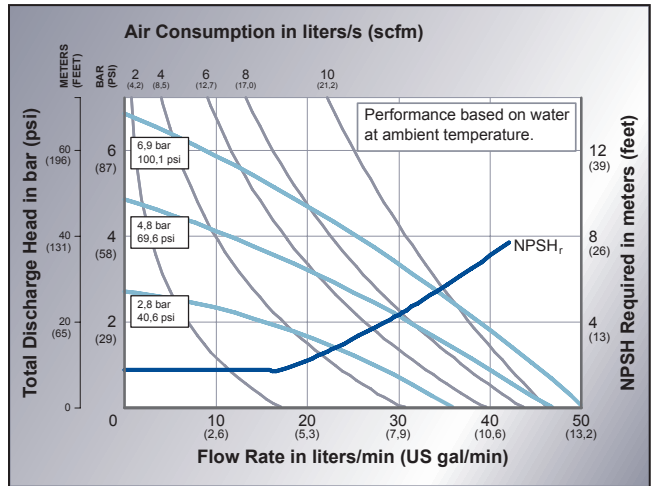
EcoPump AD 150 6,9 Alu PTFE 1/2" (N24140009)



EcoPump AD 600 8,3 Alu PTFE 1" (N24140010)



EcoPump AD 2420 8,3 SST PTFE 1 1/2" (N24140011)



EcoPump AD 150 6,9 Ace PTFE 1/2" (N24140008)

Pressure Regulators

Fluid regulation for paint process systems



Product Families

- » **EcoFlow LPF** – Low pressure fluid regulators
- » **EcoFlow LPR** – Return low pressure fluid regulators
- » **EcoFlow HPF** – High pressure fluid regulators
- » **EcoFlow HPR** – Return high pressure fluid regulators



EcoFlow LPF

Low pressure fluid regulators

Description

The **EcoFlow LPF** is a low pressure flow regulator designed to maintain downstream pressure in paint supply systems. By controlling the fluid pressure to the required working pressure, applicator equipment is protected against pressure surge and pulsation from the

material supply, while maintaining the required flow characteristics for the application process. Typically handled materials are water and solvent borne paints, varnishes, enamels and lacquers.

Product Line



Type	EcoFlow LPF P 7 2.5 G1/8" SST	EcoFlow LPF M 9 2.5 G1/8" SST	EcoFlow LPF M 15 8 G3/8" SST	EcoFlow LPF P 5 8 G3/8" SST	EcoFlow LPF P 15 8 G3/8" SST
Part No.	N26010101	N26010068	N26210001	N26210002	N26210003
Operation	Pneumatic	Manual	Manual	Pneumatic	Pneumatic
Connector inlet / outlet	G 1/8"	G 1/8"	G 3/8"	G3/8"	G3/8"
Connector air	Push-in 6 mm	None	None	Push-in 6 mm	Push-in 6 mm
Fluid Pressure max.	20.0 bar (290 psi)	20.0 bar (290 psi)	16.0 bar (232 psi)	8.0 bar (116 psi)	16.0 bar (232 psi)
Flowrate Fluid max.	2.5 l/min (0.66 gal/m)	2.5 l/min (0.66 gal/m)	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)
Material Housing	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Pressure Gauge	None	None	None	None	None



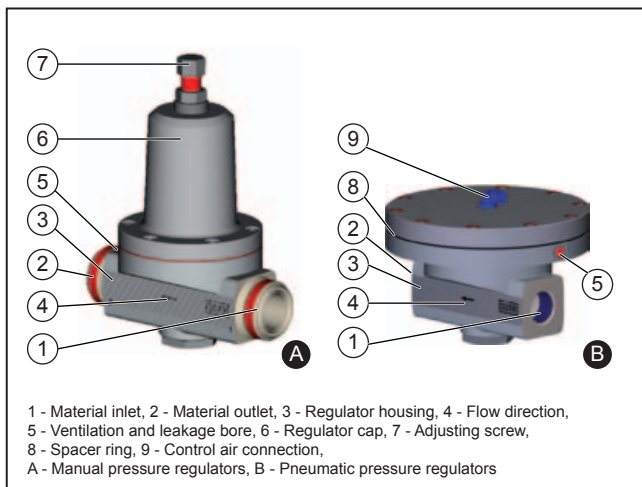
Type	EcoFlow LPF M 5 8 G3/8" SST	EcoFlow LPF M 15 8 G3/8" SST G1/8"	EcoFlow LPF M 5 8 G3/8" SST G1/8"	EcoFlow LPF P 5 8 G3/8" SST G1/8"	EcoFlow LPF P 15 8 G3/8" SST G1/8"
Part No.	N26210004	N26210005	N26210006	N26210007	N26210008
Operation	Manual	Manual	Manual	Pneumatic	Pneumatic
Connector inlet / outlet	G 3/8"	G 3/8"	G 3/8"	G3/8"	G3/8"
Connector air	None	None	None	Push-in 6 mm	Push-in 6 mm
Fluid Pressure max.	10.0 bar (145 psi)	16.0 bar (232 psi)	10.0 bar (145 psi)	8.0 bar (116 psi)	16.0 bar (232 psi)
Flowrate Fluid max.	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)	8.0 l/min (2.11 gal/m)
Material Housing	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Pressure Gauge	None	Optional (G 1/8") *	Optional (G 1/8") *	Optional (G 1/8") *	Optional (G 1/8") *

* See pressure gauge range on page no. 74

EcoFlow LPF

Low pressure fluid regulators

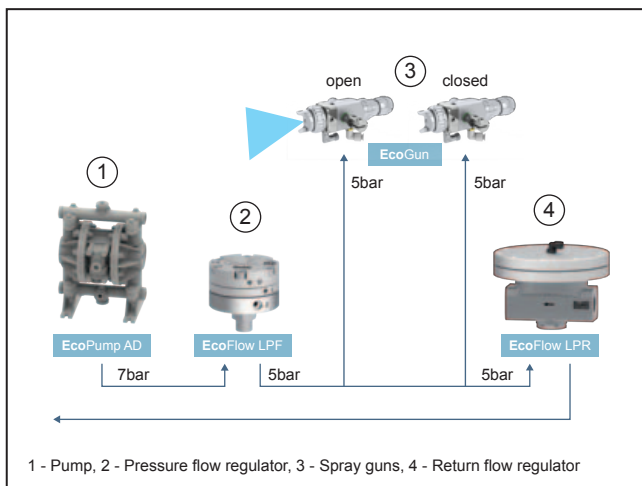
Technical Illustration



Customer Benefits

- » Precision control
- » Excellent dynamics during pressure changes
- » 100% tight sealing function
- » Compact dimensions
- » High performance diaphragm
- » Easy to maintain
- » Tested according to Dürr quality standards

Connection Scheme



Functional principle

Pressure regulators are either used to limit the pressure of the paint after the regulator (flow regulator) or to maintain a certain pressure level before the regulator (backpressure regulators). In flow regulators either a spring or compressed air on a diaphragm holds a valve open. If a pressure higher than the force of the springs operates on a diaphragm, the valve starts to close and reduces the pressure. In a backpressure regulator, the springs holds the valve closed until the pressure on the inlet of the regulator exceeds the force of the spring. The valve starts to open, paint flows and the pressure before the regulator decreases.

EcoFlow LPR

Return low pressure fluid regulators

Description

The **EcoFlow LPR** is a low pressure return regulator that has been designed to maintain consistent back pressure in application supply systems. By controlling the fluid pressure to the required working pressure, applicators are protected against pressure surge and pulsation from the material supply, whilst perfect flow

characteristics for the application process are ensured. **EcoFlow LPR** is easy to maintain with a 100% tight sealing function and compact dimensions. Typically handled materials are water and solvent-borne paints, varnishes, enamels and lacquers.

Product Line



Type	EcoFlow LPR P 16 15 DN25 SST	EcoFlow LPR P 16 25 DN25 SST	EcoFlow LPR P 16 30 G3/4" SST
Part No.	N26220001	N26220002	N26220003
Operation	Pneumatical	Pneumatical	Pneumatical
Connector inlet / outlet	EcoTube DN25 *	EcoTube DN25 *	G3/4"
Connector air	Push-in 6 mm	Push-in 6 mm	Push-in 6 mm
Fluid Pressure max.	16.0 bar (230 psi)	16.0 bar (230 psi)	16.0 bar (230 psi)
Flowrate Fluid max.	15 l/min (3.96 gal/m)	25 l/min (6.6 gal/m)	30 l/min (7.93 gal/m)
Material Housing	Stainless steel	Stainless steel	Stainless steel
Pressure Gauge	None	None	None

* sanitary type fluid ports are available as an option



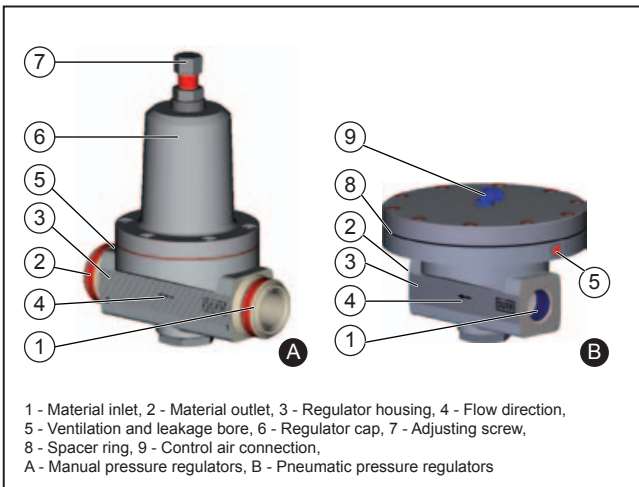
Type	EcoFlow LPR M 14 15 DN25 SST	EcoFlow LPR M 14 25 DN25 SST	EcoFlow LPR M 14 30 G3/4" SST
Part No.	N26220004	N26220005	N26220006
Operation	Manual	Manual	Manual
Connector inlet / outlet	EcoTube DN25 *	EcoTube DN25 *	G3/4"
Connector air	None	None	None
Fluid Pressure max.	16.0 bar (230 psi)	16.0 bar (230 psi)	16.0 bar (230 psi)
Flowrate Fluid max.	15 l/min (3.96 gal/m)	25 l/min (6.6 gal/m)	30 l/min (7.93 gal/m)
Material Housing	Stainless steel	Stainless steel	Stainless steel
Pressure Gauge	None	None	None

* sanitary type fluid ports are available as an option

EcoFlow LPR

Return low pressure fluid regulators

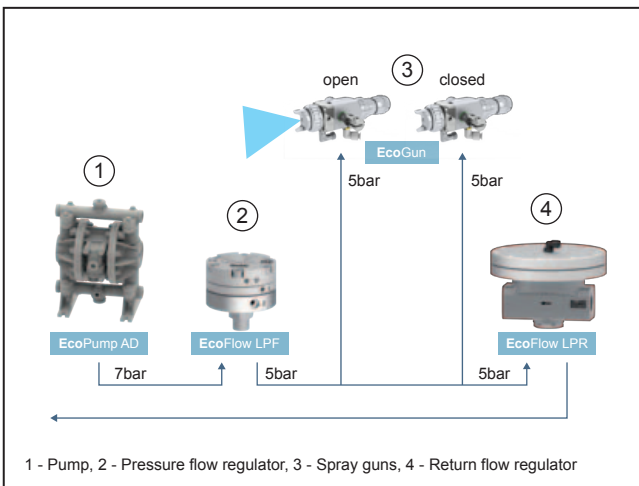
Technical Illustration



Customer Benefits

- » Precision control
- » Excellent dynamics during pressure changes
- » 100% tight sealing function
- » Compact dimensions
- » High performance diaphragm
- » Easy to maintain
- » Tested according to Dürr quality standards

Connection Scheme



EcoFlow HPF

High-Pressure Regulator Flow

Description

The **EcoFlow HPF** is a high pressure flow regulator designed to maintain downstream pressure in application supply systems. By controlling the media pressure to the required working pressure, connected applicators are protected against pressure surge and pulsation from the

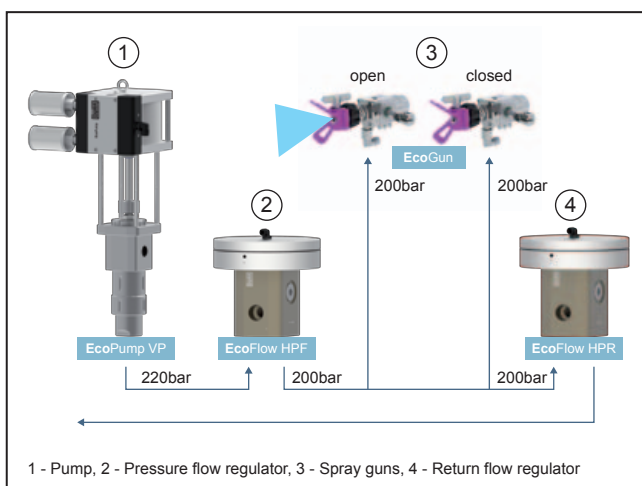
material supply, while maintaining the required pressure and flow characteristics for the application process. Typically handled materials are highly viscose media such as mastics, sealers, pastes, adhesives or glues.

Product Line



Type	EcoFlow HPF P 310 5 G3/4" ALU	EcoFlow HPF P 310 5 G3/4" SST G1/2"
Part No.	N26070021	N26230002
Operation	Pneumatical	Pneumatical
Connector inlet / outlet	G 3/4"	G 3/4"
Connector air	Push-in 6 mm	Push-in 6 mm
Fluid Pressure max.	310 bar (4,490 psi)	310 bar (4,490 psi)
Flowrate Fluid max.	5 l/min (1,32 gal/min)	5 l/min (1,32 gal/min)
Material Housing	Aluminium	Stainless Steel

Technical Illustration



Customer Benefits

- » Large regulation range at high flow rate
- » Pneumatic or manual variant available
- » Sensitive precision control
- » Excellent dynamics during pressure changes
- » 100% tight sealing function
- » Compact dimensions
- » High performance diaphragm
- » Easy to maintain
- » Tested according to Dürr quality standards

EcoFlow HPR

High-Pressure Regulator Return

Description

The **EcoFlow HPR** is a high pressure return regulator designed to maintain consistent back pressure in application supply systems. By controlling the fluid pressure to the required working pressure, applicators are protected against pressure surge and pulsation from the material supply, while maintaining the

required flow characteristics for the application process. The **EcoFlow HPR** is easy to maintain with a 100% tight sealing function and compact dimensions. Typically handled materials are highly viscose media such as mastics, sealers, pastes, adhesives or glues.

Product Line

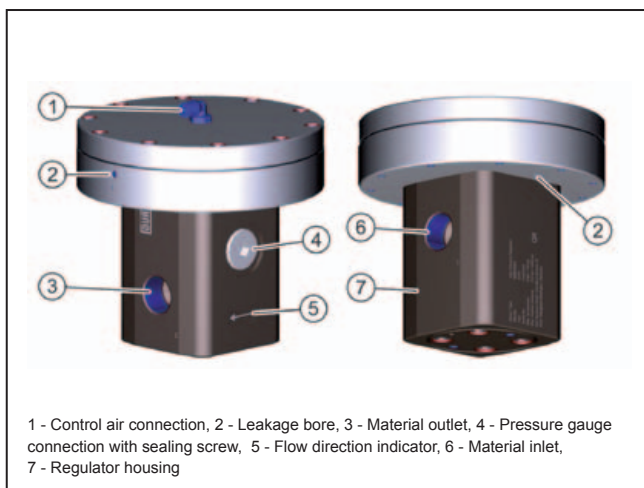


Type	EcoFlow HPR P 310 20 G3/4" ALU
Part No.	N26240001
Operation	Pneumtical
Connector inlet / outlet	G 3/4"
Connector air	Push-in 6 mm
Fluid Pressure max.	310 bar (4,490 psi)
Flowrate Fluid max.	20 l/min (5,28 gal/min)
Material Housing	Aluminium

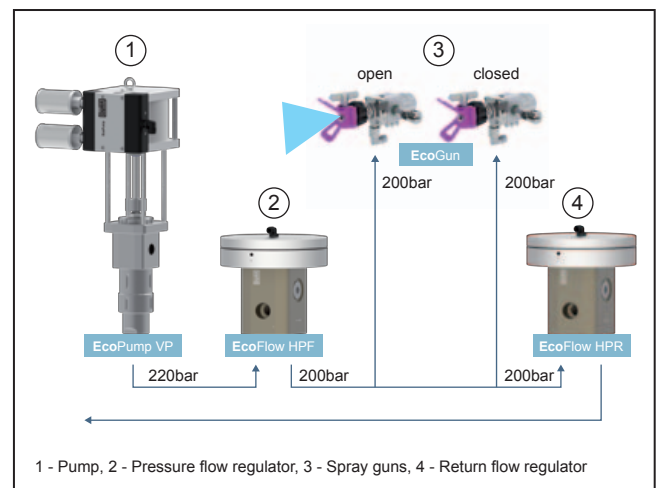
Customer Benefits

- » Large regulation range at high flow rate
- » Pneumatic variant available
- » Precision control
- » Excellent dynamics during pressure changes
- » Easy to maintain
- » 100% tight sealing function
- » Compact dimensions
- » High performance diaphragm
- » Low weight
- » Tested according to Dürr quality standards

Technical Illustration



Connection Scheme



Pressure Pots



Product Families

- » **Pressure Pots 10** – pressure pots with volume up to 10 liters
- » **Pressure Pots 20** – pressure pots with volume up to 20 liters
- » **Pressure Pots 40** – pressure pots with volume up to 40 liters
- » **Pressure Pots 60** – pressure pots with volume up to 60 liters



Pressure Pots

Material pressure feeding

Description

The Dürr pressure pot product group is available with or without pneumatic agitators. Pressure pots are suitable for all fluids and solvents supplying manual or automatic spray guns or other equipment. Great advantage of

pressure pots is smooth material delivery without pulsations. There is a line of pressure pots with different volumes available.

Product Line



Type	Pressure Pot 10 A	Pressure Pot 10	Pressure Pot 20	Pressure Pot 20 A
Part No.	N08140002	N08140001	N08140003	N08140004
Volume	9.9 l	7.5 l	20 l	20 l
Material contacted by media	Alluminium. Stainless steel	Alluminium (optional SST inner container)	Highgrade Steel. SST	Highgrade Steel. SST
Integrated agitator	None	Yes	None	Yes
Material connector	M14x1.5	M14x1.5	G 3/8"	G 3/8"
Air connector - inlet	Push-in 8mm	Push-in 8mm	Quick Coupling D7.2 d10	Quick Coupling D7.2 d10
Air connector - outlet	G 1/4"	G 1/4"	G 1/4"	G 1/4"
Air pressure. max.	6.00 bar (87 psi)	6.00 bar (87 psi)	2.50 bar (36 psi)	2.50 bar (36 psi)
ATEX Marking	Ex II 2G T6	Ex II 1 Gc/2Gpy b T5	None	None

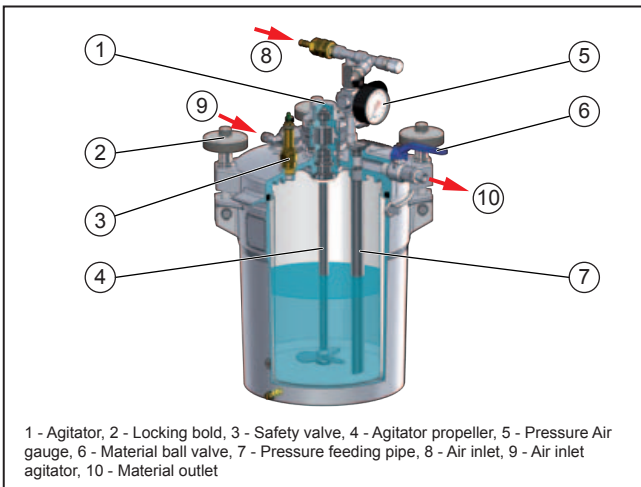


Type	Pressure Pot 40	Pressure Pot 40 A	Pressure Pot 60	Pressure Pot 60 A
Part No.	N08140005	N08140006	N08140007	N08140008
Volume	40 l	40 l	60 l	60 l
Material contacted by media	Highgrade Steel. SST	Highgrade Steel. SST	Highgrade Steel. SST	Highgrade Steel. SST
Integrated agitator	None	Yes	None	Yes
Material connector	G 3/8"	G 3/8"	G 3/8"	G 3/8"
Air connector - inlet	Quick Coupling D7.2 d10	Quick Coupling D7.2 d10	Quick Coupling D7.2 d10	Quick Coupling D7.2 d10
Air connector - outlet	G 1/4"	G 1/4"	G 1/4"	G 1/4"
Air pressure. max.	2.50 bar (36 psi)	2.50 bar (36 psi)	2.50 bar (36 psi)	2.50 bar (36 psi)
ATEX marking	None	None	None	None

Pressure Pots

Material pressure feeding

Technical Illustration



Customer Benefits

- » Suitable for paint shop use
- » Simple and robust design
- » Easy operation

Accessory - Pressure Pots



Type	Transport carriage	Container inside 7,5L SST	Connection lower outlet	Earthing line
Part No.	N25090026	M38060013	M01010198	E04030004
Pressure pot type	Pressure Pot 10, Pressure Pot 10 A	Pressure Pot 10, Pressure Pot 10 A	Pressure Pot 10	Pressure Pot 10, Pressure Pot 10 A
Description	Allows easier carriage of pressure pot.	7,5 liter inner pot made of stainless steel.	Kit for bottom material outlet. Requires transport carriage, pressure pot without container inside.	Earthing line length 5m with clamp, cable lug 10x5.

Agitators

Air operated agitators



Product Families

- » **Agitators A MAN** – manual air operated agitators
- » **Agitators A FIX** – fix mounted air operated agitators



Agitators A MAN

Manual air operated agitators

Description

Dürr has developed a group of pneumatic Agitators A MAN R for use in the preparation of paint before application or to prevent settling of the paint during spraying. Various shaft lengths are available. Optional

stand is available to allow mixing without assistance of the operator. The pneumatic drive allows safe use in a paint shop environment.

Product Line



Type	Agitator A MAN R PR 75 330	Agitator A MAN R PR 75 450	Agitator A MAN R PR 75 550	Agitator A MAN R PR 75 650
Part No.	N68040327	N68040328	N68040329	N68040330
Shaft length	330 mm	440 mm	550 mm	650 mm
Propeller diameter	75 mm	75 mm	75 mm	75 mm
Geometry blades	Propeller	Propeller	Propeller	Propeller
Rated power	0.07 kW	0.07 kW	0.07 kW	0.07 kW
Air pressure. recom.	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)
Rotation speed. max.	800 rpm	800 rpm	800 rpm	800 rpm

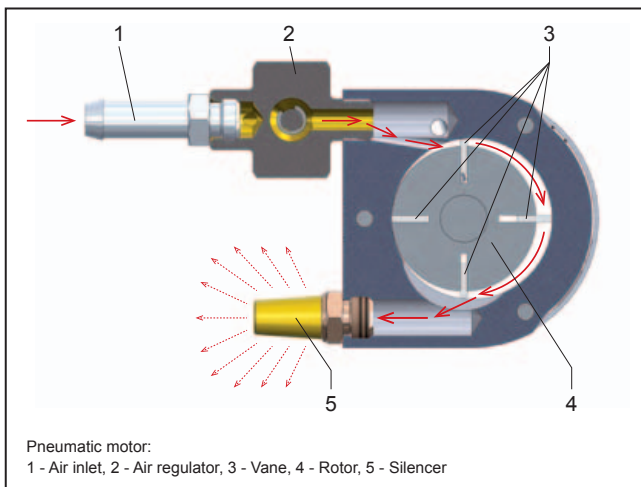


Type	Agitator A MAN R PR 100 330	Agitator A MAN R PR 100 450	Agitator A MAN R PR 100 550	Agitator A MAN R PR 100 650
Part No.	N68040331	N68040332	N68040333	N68040334
Shaft length	330 mm	440 mm	550 mm	650 mm
Propeller diameter	100 mm	100 mm	100 mm	100 mm
Geometry blades	Propeller	Propeller	Propeller	Propeller
Rated power	0.07 kW	0.07 kW	0.07 kW	0.07 kW
Air pressure. recom.	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)
Rotation speed. max.	800 rpm	800 rpm	800 rpm	800 rpm

Agitators A MAN

Manual air operated agitators

Technical Illustration



Customer Benefits

- » Suitable for paint shop
- » Manual speed regulation
- » Optional stand
- » Stainless steel shaft and propeller
- » Wide range of shaft lengths available
- » Easy operation & maintenance

Accessories



Type	Stand 330	Stand 440-650
Part No.	N25220003	N25220004
Agitator type	Agitator A MAN	Agitator A MAN
Agitator length	330 mm	440 - 650 mm
Usage	Agitator support while mixing material in pot. Made of stainless steel.	Agitator support while mixing material in pot. Made of stainless steel.

Agitators A FIX

Fix mounted air operated agitators

Description

Good preparation is essential for high quality application of the material (paint, glue, penetration etc.). For large containers agitation, Dürr has developed a line of fixed mounted agitators. They are available for 60 or 200 liter

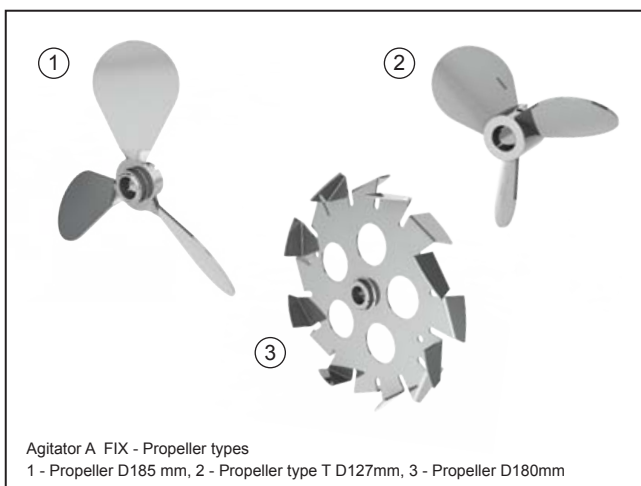
(15 or 60 gallon) tanks. The agitators are air operated and are usually fixed to lid of the container. There are multiple propellers available selected by the material used.

Product Line



Type	Agitator A FIX R PR 185 560	Agitator A FIX R PR 185 860
Part No.	N68040285	N68040286
Shaft Length	580 mm	860 mm
Propeler diameter	185 mm	185 mm
No. of propellers	1	2
Barell volume	60 liters (15 gallons)	200 liters (60 gallons)
Rated power	0.7 kW	0.7 kW
Air pressure, range	1-7 bar (14-101 psi)	1-7 bar (14-101 psi)
Rotation speed, max.	1000 rpm	1000 rpm

Technical Illustration



Customer Benefits

- » Propeller made of stainless steel
- » Usable in explosive hazardous environment
- » Multiple propeller sizes and types
- » Air inlet regulator for speed control

Filters

Material filtering



Product Families

- » **Filters HP** – High pressure material filters
- » **Filters LP** – Low pressure material filters



Filters HP

High pressure material filters

Description

High pressure filters can be used for the filtration of paint or any other kind of fluid. Several different filters sizes are available. The filter design allows a tool free filter maintenance. Up to 4 devices can be connected (three on the sides, one on the bottom). Due to its robust design the

filter can be used in low- and high pressure applications with a maximum fluid pressure of up to 500 bar (7.250psi). Additionally the filter helps to reduce the fluids' pressure pulsation.

Product Line



Type	HP filter 500µm 500bar M16/16	HP filter 250µm 500bar M16/16	HP filter 149µm 500bar M16/16
Part No.	N35430015	N35430019	N35430023
Max. fluid pressure	500.0 bar (7.250 psi)	500.0 bar (7.250 psi)	500.0 bar (7.250 psi)
Connerctor in/out	M16x1.5 / M16x1.5	M16x1.5 / M16x1.5	M16x1.5 / M16x1.5
Filter type	Screen filter	Screen filter	Screen filter
Filter mesh	500µm	250µm	149µm

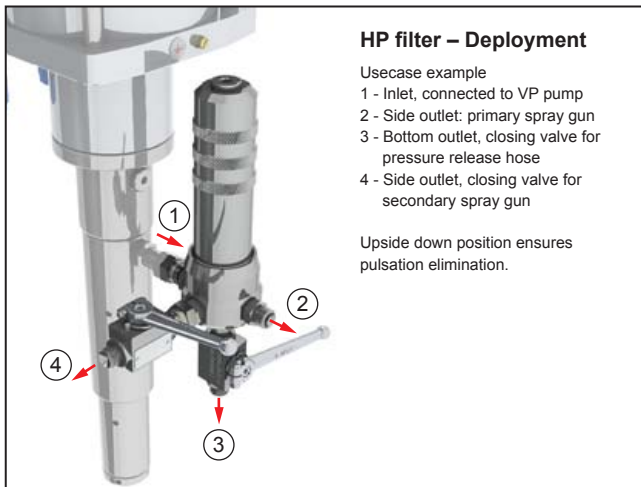


Type	HP filter 74µm 500bar M16/16	HP filter 105µm 500bar M16/16	HP filter 149µm 500bar M16/16
Part No.	N35430027	N35430031	N35430030
Max. fluid pressure	500.0 bar (7,250 psi)	500.0 bar (7,250 psi)	400.0 bar (5,800 psi)
Connerctor in/out	M16x1.5 / M16x1.5	M16x1.5 / M16x1.5	G 3/4" / G 3/4"
Filter type	Screen filter	Screen filter	Screen filter
Filter mesh	74µm	105µm	500µm

Filters HP

High pressure material filters

Technical Illustration



Customer Benefits

- » Suitable for low- and high pressure applications of up to 500 bar (7.250psi)
- » Up to four fluid outlets
- » Tool less filter cartridge exchange
- » Multiple filtration elements
- » Reduction of pulsation
- » Made of stainless steel

Filters LP

Low pressure material filters

Description

Low pressure filters can be used for the filtration of paint or any other kind of fluid. There is several different filters

types available. The low pressure filters are available with either a "bag" or cartridge element.

Product Line



Type	Filter housing DN25 GR4 T-BAR PN25	Filter housing DN25 10" 28bar	Filter housing DN25 5" 28bar	Filter housing DN20 GR3 T-BAR PN25
Part No.	M16090113	M16090114	M16090115	M16090116
Max. fluid pressure	10 bar (145 psi)	28 bar (406 psi)	28 bar (406 psi)	28 bar (406 psi)
Connerctor in/out	M42x2 (DN25)	M42x2 (DN25)	M42x2 (DN25)	M36x2 (DN20)
Filter type / Size	Bag filter / Size 4	Cartridge filter / 10"	Cartridge filter / 5"	Bag filter / Size 3
Filter mesh	5 µm	5 µm	5 µm	5 µm
Weight	8,500 g	3,600 g	3,200 g	6,200 g

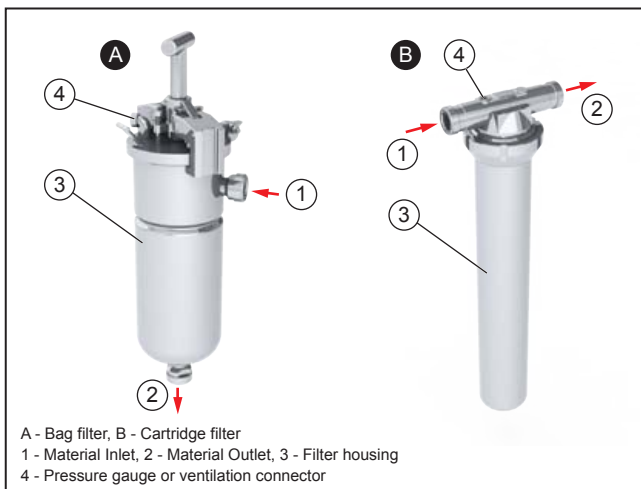


Type	Filter housing DN32 GR4 T-BAR PN25	Filter housing DN25 ECOT20" 28bar cartri	Filter housing DN18 G1/2" 5" 10bar cartr.
Part No.	M16090117	M16090124	M16090126
Max. fluid pressure	28 bar (406 psi)	28 bar (406 psi)	10 bar (145 psi)
Connerctor in/out	M48x2 (DN32)	M42x2 (DN25)	1/2" BSP
Filter type / Size	Bag filter / Size 4	Cartridge filter / 20"	Screen filter / 5"
Filter mesh	5 µm	5 µm	5 µm
Weight	8,500 g	4,600 g	1,300 g

Filters LP

Low pressure material filters

Technical Illustration



Customer Benefits

- » Suitable for low pressure applications of up to 28 bar (400psi)
- » Available cartridge or bag filter inserts
- » Different filtration sieve and meshes
- » Made of stainless steel

Pressure Gauges

Material pressure measurement



Product Families

- » **Pressure gauges** – vertical, horizontal, bottom or back connection



Pressure Gauges

Material pressure measurement

Description

Dürr has a broad range of gauges for paint material pressure measurement. Whichever you choose you can rely on high quality reliability of these parts.

Product Line



Type	Pressure gauge 0-25bar D63 G1/4" down VA	Pressure gauge 0-10bar D63 G1/4" back	Pressure gauge 0-10bar D63 G1/8" down VA	Pressure gauge 0-10bar D63 G1/8" back VA
Part No.	W07010198	W07010199	W07010200	W07010201
Range	0-25bar (0-360psi)	0-10bar (0-145psi)	0-10bar (0-145psi)	0-10bar (0-145psi)
Connector	G 1/4"	G 1/4"	G 1/8"	G 1/8"
Diameter	63 mm (2.5 inch)	63 mm (2.5 inch)	63 mm (2.5 inch)	63 mm (2.5 inch)
Filling liquid	Glycerine	Glycerine	Glycerine	Glycerine
Connector position	down	back	down	back



Type	Pressure gauge 0-10bar D63 G1/4" down	Pressure gauge 0-25bar DN25 vertical	Pressure gauge 0-25bar DN25 horizontal	Pressure gauge 0-25bar D63 G1/4" back VA
Part No.	W07010202	W07010223	W07010238	W07010242
Range	0-10bar (0-145psi)	0-25bar (0-360psi)	0-25bar (0-360psi)	0-25bar (0-360psi)
Connector	G 1/4"	DN25	DN25	G 1/4"
Diameter	63 mm (2.5 inch)	101 mm (4 inch)	101 mm (4 inch)	63 mm (2.5 inch)
Filling liquid	Glycerine	Glycerine	Glycerine	Glycerine
Connector position	down	vertical	horizontal	back



Type	Pressure gauge 0-16bar D63 G1/8" centr.	Pressure gauge 0-400bar G1/2" - filled	Pressure gauge 0-400bar G1/2"
Part No.	W07010261	W07010287	W07010293
Range	0-16bar (0-230psi)	0-400bar (0-5800psi)	0-400bar (0-5800psi)
Connector	G 1/8"	G1/2"	G1/2"
Diameter	63 mm (2.5 inch)	68 mm (2.5 inch)	68 mm (2.5 inch)
Filling liquid	Glycerine	Glycerine	none
Connector position	center	back	back

Pressure Gauges

Material pressure measurement

Product Line

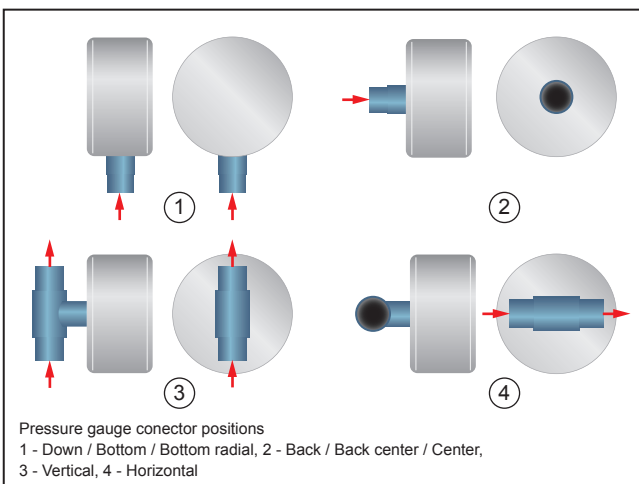


Type	Pressure gauge 0-16bar D63 G1/8"	Pressure gauge 0-250bar D63 G1/4"RADIAL	Pressure gauge 0-250bar D63 G1/4" CENTR.	Pressure gauge 0-400bar D63 G1/2"RADIAL
Part No.	W07010353	W07010354	W07010355	W07010356
Range	0-16 bar (0-230psi)	0-250 bar (0-3,600psi)	0-250 bar (0-3,600psi)	0-400 bar (0-5,800psi)
Connerctor	G 1/8"	G 1/4"	G 1/4"	G 1/2"
Diameter	68 mm (2.75 inch)	68 mm (2.75 inch)	68 mm (2.75 inch)	68 mm (2.75 inch)
Filling liquid	Glycerine	Glycerine	Glycerine	Glycerine
Connector position	Bottom connection radial	Bottom connection radial	Back center connection	Bottom connection radial



Type	Pressure gauge 0-500bar D63 G1/2"RADIAL	Pressure gauge 0-500bar D63 G1/2"ZENTR.
Part No.	W07010357	W07010358
Range	0-500 bar (0-7,250psi)	0-500 bar (0-7,250psi)
Connerctor	G 1/2"	G 1/2"
Diameter	68 mm (2.75 inch)	68 mm (2.75 inch)
Filling liquid	Glycerine	Glycerine
Connector position	Bottom connection radial	Bottom connection radial

Technical Illustration



Customer Benefits

- » Silicon free
- » Wide pressure range
- » Robust design
- » Made from stainless steel
- » Suitable ATEX Zone 1 and 2
- » High overload capability

Hoses

Air & Paint Hoses



Product Families

- » **Hoses** – for air, material, low pressure or high pressure systems



Hoses

Air & Paint Hoses

Description

Every application requires some sort of media connection. There are hoses which can be used for pneumatic motor air supply and atomization air for air spray guns. On other hand there are hoses for fluid supply (paint, glue etc.) from pressure pots to automatic air spray guns. High

pressure hoses are used for delivery of high viscose materials from high pressure pumps. There is a wide range of Dürr hoses that fit into any possible application. Easy configuration on our webshop helps you to select right hose for your needs.

Product Line



Order Code	APH -1B-A-PA	APH -2B-A-ET-DN9-NR	APH -2B-P-PPP-DN6-NR	APH -25B-P-TP
Part No.	W40650001V	W40650001V	W40650001V	W40650001V
Media	Air	Air	Paint	Paint
Pressure max.	10 bar (145 psi)	20 bar (290 psi)	20 bar (290 psi)	250 bar (3,620 psi)
Material	PA	EPDM-Textile	PA-PU-PA	Textile-PA
Inner Diameter	2 / 4 / 6 / 8 / 9 mm	3/8"	1/4"	3/16" / 1/4"
Connectors	None	1/4" BSP / 1/4" NPSM	M16x1,5 / M14x1,5 / 1/4" BSP / 1/4" NPSM / 3/8" BSP / 3/8" NPSM	M16x1,5 / 1/4" BSP / 1/4" NPSM
Lengths	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 m

1 meter = 3,28 feet



Order Code	APH -27B-P-TP-DN3-NR	APH -32B-P-SP-DN6-NR	APH -35B-P-SP-DN5-NR	APH -45B-P-SP-DN6-NR
Part No.	W40650001V	W40650001V	W40650001V	W40650001V
Media	Paint	Paint	Paint	Paint
Pressure max.	270 bar (3,900 psi)	320 bar (4,640 psi)	350 bar (5,070 psi)	450 bar (6,520 psi)
Material	Textile-PA	Steel-PA	Steel-PA	Steel-PA
Inner Diameter	1/8"	1/4"	3/16"	1/4"
Connectors	M16x1,5 / 1/4" BSP / 1/4" NPSM	M16x1,5 / M14x1,5 / 1/4" NPSM	M16x1,5 / M14x1,5 / 1/4" NPSM	M16x1,5 / 1/4" BSP / 1/4" NPSM
Lengths	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 / 17.5 / 20 / 22.5 / 25 / 30 / 40 / 45 / 50 / 60 / 70 / 80 / 90 / 100 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 m	1.0 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 12.5 / 15 / 17.5 / 20 / 22.5 / 25 / 30 / 40 / 45 / 50 / 60 / 70 / 80 / 90 / 100 m

1 meter = 3,28 feet

Accessories

Material No.	Description
M55070363	Screw-in fitting WJ, M16x1,5 (M) - G1/4" (M)
M55070370	Screw-in fitting, M16x1,5 (M) - G1/2" (M)
M55070368	Screw-in fitting WT, M16x1,5 (F) - G3/8" (M)

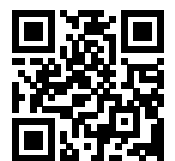
Material No.	Description
M55100169	Reducing screw con. M16x1,5 (F) - 1/4" NPS (M)
M55070374	Screw-in fitting, M14x1,5 (F) - 1/4"NPSM (M) d6
M55070375	Screw-in fitting M14x1,5 (F) - 1/4"NPSM (M) d8



DOSING UNITS

Product groups

- » Dosing Unit 2K79



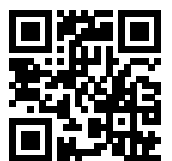
Dosing Unit 2K

Solution for 2K paint application



Product Families

- » **EcoDose 2K** – 2K material dosing and application



EcoDose 2K

Dosing unit for two component materials

Description

The Dürr **EcoDose 2K** unit is an electronic dosing system suitable for high and low pressure applications. It can be used in manual and automatic processes. Optimized for quick color changes and easy flushing, it enhances resource utilization and contributes to higher application

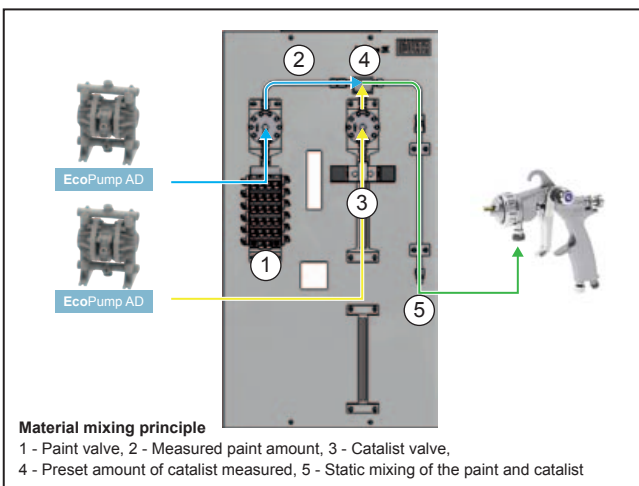
efficiency. Fluids are measured consistently and precisely, even media with different viscosities. Typical fluids handled are 1 or 2K materials, water and solvent based paints, varnishes, lacquers and monolayer paints.

Product Line



Type	EcoDose 2K - LP - CO	EcoDose 2K - HP - CO	EcoDose 2K - LP - GF	EcoDose 2K - HP - GF
Part No.	N10100002V	N10100002V	N10100002V	N10100002V
Max. pressure	20 bar (290 psi)	200 bar (2,900 psi)	20 bar (290 psi)	200 bar (2,900 psi)
Flow meter type	Coriolis	Coriolis	Gear wheel	Gear wheel
Viscosity measuring	Yes	Yes	None	None
Temperature measuring	Yes	Yes	None	None

Technical Illustration



Customer Benefits

- » Flow rate measuring by coriolis or gear flowmeter
- » Exact volume controlled dosing of both components
- » High and constant mixing ratio accuracy
- » Monitoring of all dosing functions such as pot life, catalyst ratio and components A & B with dedicated alarm
- » Automatic color change controlled by volume
- » Independent flushing circuits for both components
- » No premixing chamber
- » Smooth start-up procedure
- » Intuitive user interface for quick programming of individual settings
- » High process reliability



CONTROL UNITS

Product groups

» EcoAUC.....	82
» EcoPUC A.....	85
» EcoPUC MC	87



EcoAUC

Automated application control



Product Families

- » **EcoAUC** – Control unit for spray process control



EcoAUC

Control units for spray process control

Description

Fill your application products with new life with the **EcoAUC** control system. PLC and valve technology allows the operating of color change systems from the **EcoMCC** family with up to 10 colors. Dosing is carried out using the highly efficient gear dosing pump **EcoPump9 GW** or the compact paint pressure regulator **EcoFlow**. To maximize efficiency, the integrated control for a high-speed rotary

atomizer can be extended by a high tension cascade for external or direct charge. **EcoAUC** can also control line of automatic spray guns for air spray, airless or air assist application technology. Despite numerous features the operation of the **EcoAUC** always remains straightforward and simple due to a modern interface.

Product Line



Type	EcoAUC	EcoAUC	EcoAUC	EcoAUC	EcoAUC
Part No.	F30310001	F30310002	F30310003	F30310004	F30310005
No. of colors	2-10	2-10	2-10	2-10	2-10
Suitable atomizer	EcoBell2 SL DC	EcoBell2 SL EC	EcoBell2 SL unchar.	EcoBell2 SL DC	EcoBell2 SL EC
Process	1K	1K	1K	1K	1K
Dosing	EcoFlow LPF	EcoFlow LPF	EcoFlow LPF	EcoPump9 GW 20	EcoPump9 GW 20



Type	EcoAUC	EcoAUC	EcoAUC	EcoAUC	EcoAUC
Part No.	F30310006	F30310007	F30310008	F30310009	F30310010
No. of colors	2-10	2-10	2-10	2-10	2-10
Suitable atomizer	EcoBell2 SL unchar.	EcoBell2 SL DC	EcoBell2 SL EC	EcoBell2 SL unchar.	EcoGun AS Auto
Process	1K	2K	2K	2K	1K
Dosing	EcoPump9 GW 20	EcoPump9 GW 20	EcoPump9 GW 20	EcoPump9 GW 20	EcoFlow LPF

EcoAUC

Control units for spray process control

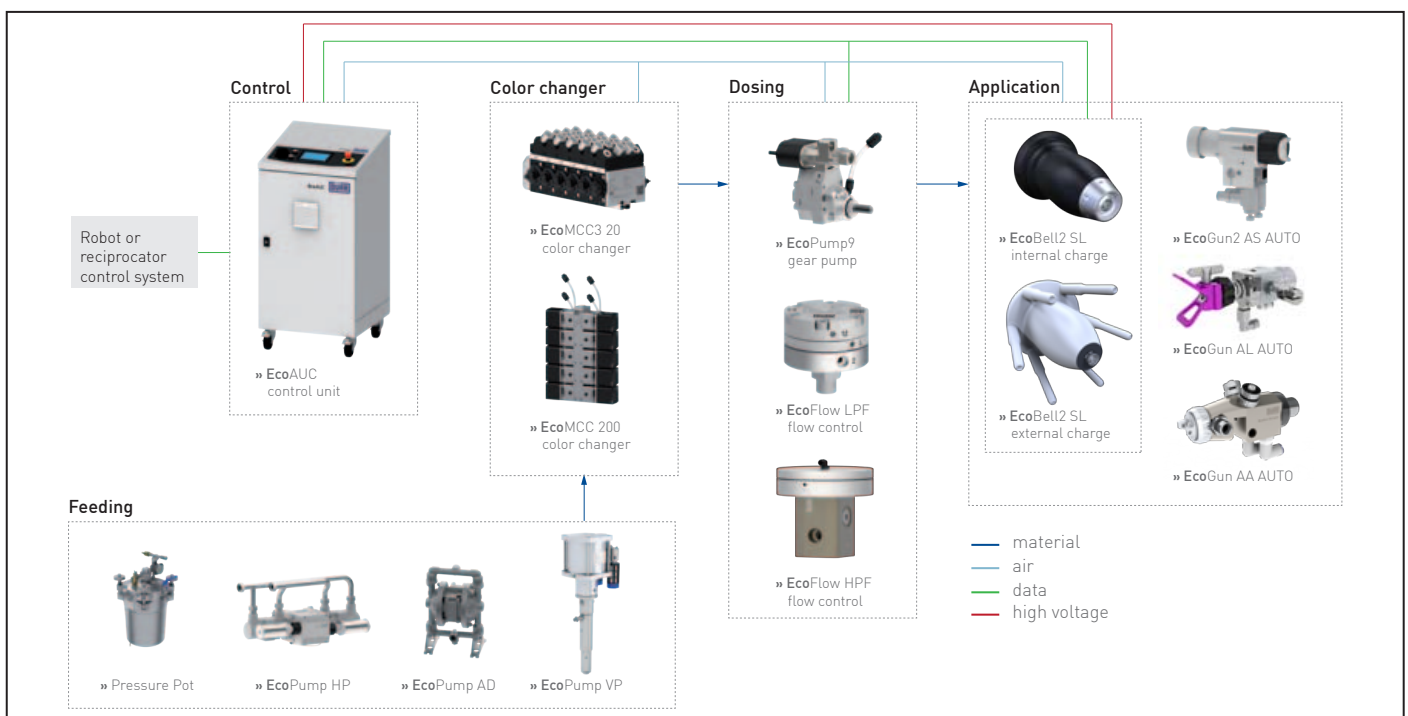


Type	EcoAUC	EcoAUC	EcoAUC
Part No.	F30310011	F30310012	F30310013
No. of colors	2-10	2-10	2-10
Suitable atomizer	EcoGun AL / AA Auto	EcoGun AS Auto	EcoGun AS Auto
Process	1K	1K	2K
Dosing	EcoFlow LPF	EcoPump9 GW 20	EcoPump9 GW 20

Customer Benefits

- » Compact structure with modern design
- » Colored 7" touchscreen for ease of use
- » Various interfaces (emergency shutdown, ethernet, released for process technology etc.)
- » Quick start with default brushes and automatic sequences for purging and pre-charging
- » Simplified service and maintenance
- » Control of color changer with 2-10 colors
- » Control of high speed rotating atomizer with external or direct charge
- » Control of automatic spray guns or High Rotational Atomizers
- » Dosing via dosing pump or paint pressure regulator

Technical Illustration



EcoPUC A

Control your air operated pump



Product Families

» **EcoPUC Air** – Control units for air operated pumps



EcoPUC A

Control units for air operated pumps

Description

The **EcoPUC A** is an intrinsically safe control unit, used to monitor pneumatic pumps (e.g. **EcoPump VP** or **EcoPump HP**) while in operation. A reed-sensors enables the **EcoPUC A** to count the pumps current number of cycles. Additionally an intelligent algorithm identifies when the pump runs dry. The integrated solenoid valve stops the

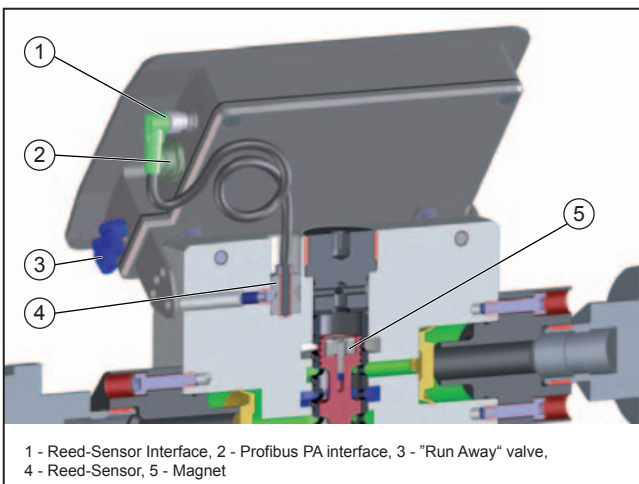
pump when running dry, to avoid excessive wear. The **EcoPUC A** also reminds the maintenance personnel when the pump seals have to be exchanged. An Profibus PA interface allows to intercommunicate with external PLCs.

Product Line



Type	EcoPUC A	EcoPUC A RA	EcoPUC A RA BUS
Part No.	F30300001	F30300002	F30300003
Pumps applicable	EcoPump VP / EcoPump HP	EcoPump VP / EcoPump HP	EcoPump VP / EcoPump HP
Proximity switch with reed switch	Yes	Yes	Yes
Control air	No	Yes	Yes
Profibus PA	No	No	Yes
Functions	Flow rate / Wear monitoring	Flow rate / Wear monitoring	Flow rate / Wear monitoring

Technical Illustration



Customer Benefits

- » Prevention of dry run situations
- » Predictive maintenance
- » Status surveillance on external PLCs
- » Easy-to-use menu structure
- » Worldwide language support

EcoPUC MC

Control your electrically operated pump



Product Families

- » **EcoPUC MC** – Control units for electrically operated pumps



EcoPUC MC

Control units for electrically operated pumps

Description

The **EcoPUC MC** is a control cabinet, used to monitor and control electrical pumps (e.g. **EcoPump HPE**). An integrated frequency drive connected to a pressure sensor via a PLC allows a closed loop regulation of the pump, together with a backpressure regulator. Extensions

cabinets increase the field of use, to maximum 4 pumps per main control unit. Each main control unit is equipped with a 7" colored touch display to set all parameters, check alarms and get the latest information on upcoming maintenances.

Product Line



Type	EcoPUC MC	EcoPUC MC	EcoPUC MC
Part No.	F30300007	F30300008	F30300009
Pumps applicable	EcoPump HPE 400	EcoPump HPE 800	EcoPump HPE 1600
Touch display	7 inch	7 inch	7 inch
Function	Main control unit	Main control unit	Main control unit
No. of extensions, max	3	3	3

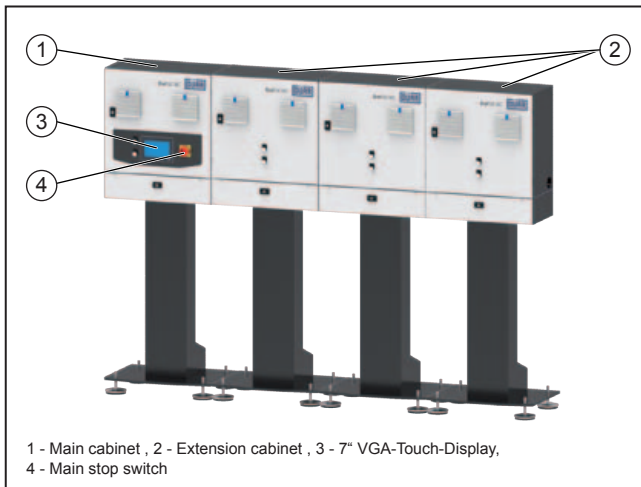


Type	EcoPUC MC	EcoPUC MC	EcoPUC MC
Part No.	F30300004	F30300005	F30300006
Pumps applicable	EcoPump HPE 400	EcoPump HPE 800	EcoPump HPE 1600
LCD touch display	None	None	None
Function	Extension - controlled by basic control via PLC	Extension - controlled by basic control via PLC	Extension - controlled by basic control via PLC

EcoPUC Electrical

Control units for electrically operated pumps

Technical Illustration



Customer Benefits

- » Fast commissioning through preconfigured software
- » Low investment costs caused by high level of standardization
- » Uniform HMI for all variants
- » For operation modes - By torque, By speed, By pressure, By volume
- » Worldwide language support
- » Easy maintenance and diagnosis
- » Colored 7" touchscreen for ease of use (main unit only)
- » Safety interface for emergency stop and fire alarm

Notes

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LEADING IN PRODUCTION EFFICIENCY

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- » **Paint and Final Assembly Systems:** paint shops and final assembly systems for the automotive industry
- » **Application Technology:** robot technologies for the automatic application of paint as well as sealants and adhesives
- » **Measuring and Process Systems:** balancing and cleaning systems as well as testing and filling technology
- » **Clean Technology Systems:** exhaust-air purification systems and energy-efficiency technology
- » **Woodworking Machinery and Systems:** machinery and systems for the woodworking industry

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