

AirCoat guns

MANUAL APPLICATION



- Excellent finishing quality
- Human engineered design
- High process reliability

WAGNER AirCoat - Perfect finishing for high quality surfaces

WAGNER AirCoat Technology

POWER AND CONTROL TOGETHER FOR SUPERIOR PERFORMANCE AND FINISHING RESULTS

Airless technology provides **"Power"** : fast application speed, low overspray and high transfer efficiency.

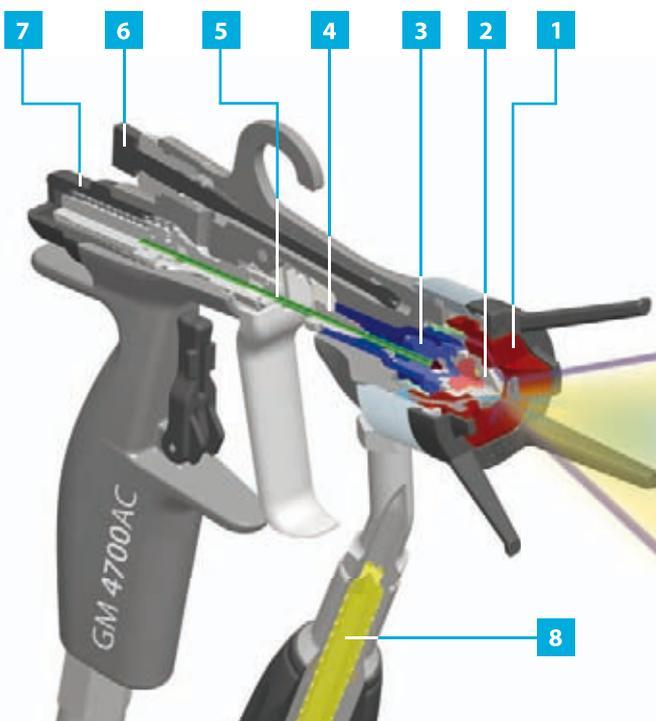
Air Spray technology provides **"Control"** : easy and precise adjustments of the atomizing air and of the fan width, for maximum application versatility and finishing quality.

The right combination of Airless and Air Spray technology together with the unique WAGNER know how results in **AirCoat** technology: perfect finishing, high productivity, soft spray pattern and very high transfer efficiency.



GM 4000AC technology

The innovative WAGNER manual AirCoat guns employ our brand new AirCoat atomization process to produce the finest finishing results ever. These guns meet all market demands - the newly designed material filter can be exchanged without tools and the human engineered design offers an ergonomical handling.



- 1 Aircap
- 2 High quality nozzle
- 3 Valve with tungsten carbide seat
- 4 Long life packing
- 5 Needle (special treatment to reduce wearing)
- 6 Fan air adjustment
- 7 Spring cap (for 160 bar or 250 bar version)
- 8 Cage Filter

Great advantages for your business

WAGNER AirCoat guns: Designed for your needs



Wood finishing



Metal protection & finishing



Corrosion protection



TYPICAL APPLICATIONS

Whether lacquers for wood finishing, 2K materials for corrosion protection of metals or primers, the WAGNER manual AirCoat guns are perfect for your individual needs!

- Wood and furniture industry
- Corrosion protection
- General metal industry

TYPICAL FLUIDS

- Stains, varnishes and lacquers
- Solvent- and waterbased paints
- PU and Epoxy materials
- 2K materials
- High solid materials
- UV paints

GM 4100AC / GM 4700AC - A new generation of manual AirCoat guns

GM 4100AC / GM 4700AC crucial advantages!

The new generation of manual AirCoat guns revolutionize your daily coating processes. Excellent finishing quality and high transfer efficiency as well as an ergonomic concept result in best surfaces with easy handling.

1 Best atomization

The new AirCoat atomization provides a softer and smoother spray pattern. Due to the new air cap design, the material pressure is reduced and the spray pattern becomes more homogenous.

2 High transfer efficiency

The fine, soft atomization combined with a homogenous particle size guarantees a high transfer efficiency.

WAGNER
AirCoat



3 Tool free removeable filter*

No tools needed for changing the filter (GM 4700AC). Very easy to use. The downtime is reduced significantly.

4 Fan air adjustment at your fingertip

Variagate the spray pattern from wide to small right at the gun!

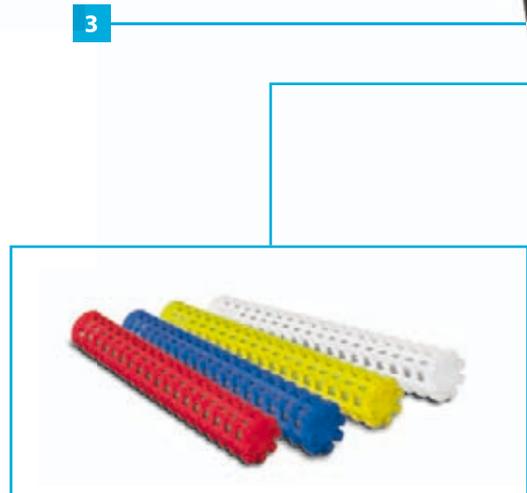
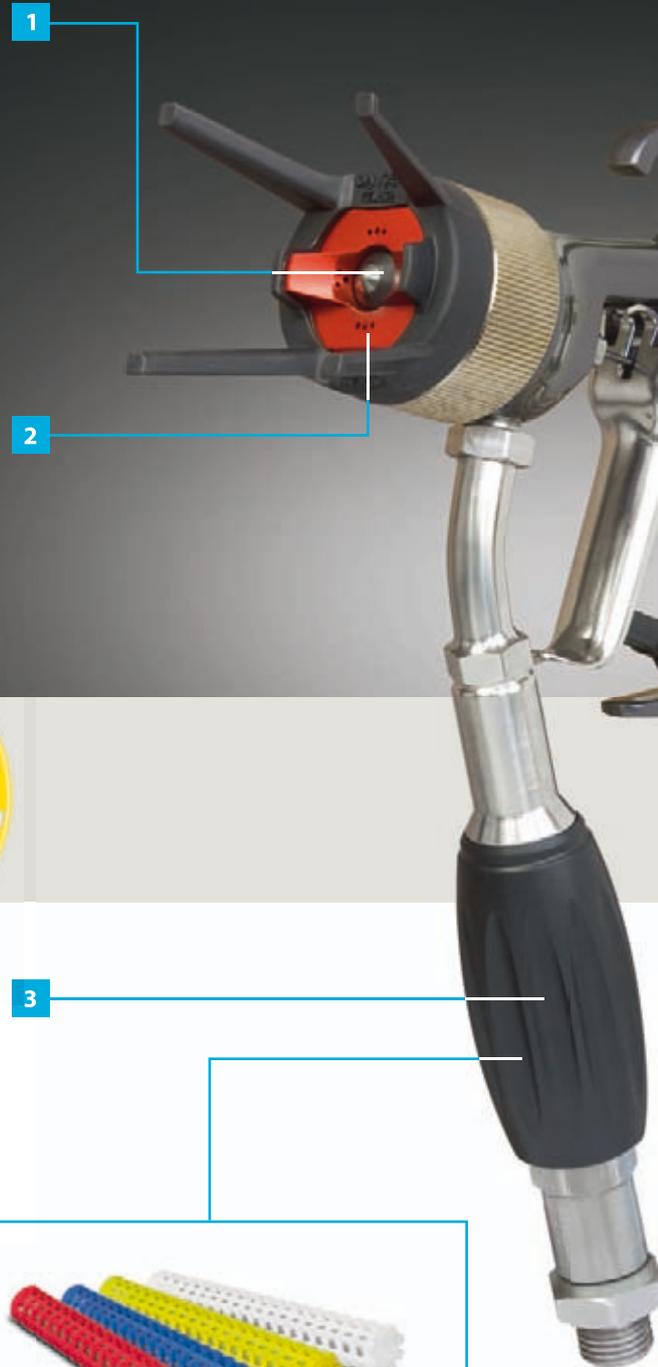
5 Smallest and lightest gun

The GM 4100AC is the smallest and lightest manual AirCoat gun, GM 4700AC is the lightest gun with tool free openable filter.

6 Human engineered design

The guns are designed with the comfort of the operator in mind. Two models for different hand sizes guarantee best ergonomics, combined with light weight and low trigger/holding force to reduces the operator fatigue considerably. The material and air swivel ensure the operator comfort.

** Can only be opened when system pressure is off!*



NEW WAGNER CAGE FILTER

The newly designed Cage Filter (patent pending) has a much longer life time, because of its 53% larger volume to collect the dirt. Beside that it is very easy to flush, the compact design reduces the weight of the gun.



Best atomization ever

WAGNER AirCoat

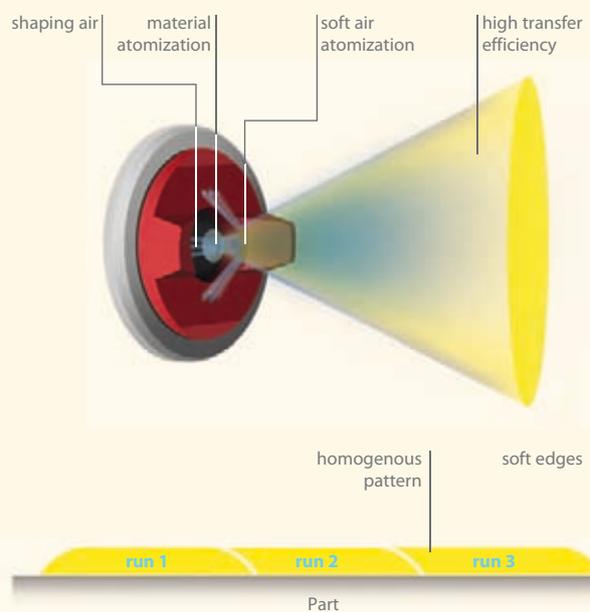
More than 30 years of experience in AirCoat technology has led to our newest design innovation in atomization systems consisting of nozzles and air caps.

AIRLESS ATOMIZATION

The specially designed high quality AirCoat nozzle provides the best atomization and lifetime while distributing the material in a uniform pattern to create a perfect finishing result. Soft edges of the spray pattern allow a overlapping of spray tracks while achieving a uniform layer thickness.

AIR SPRAY ATOMIZATION

The Air spray atomization further increases the quality of the atomization with a soft airflow. Enabling a precise fan width adjustment and keeping the air cap clean even in rough production environments.



Manual AirCoat guns - the complete range

Accessories for all application needs

A wide variety of nozzles, aircaps and nozzle extensions, filters and hoses as well as the gun flush box makes the WAGNER AirCoat guns an ideal solution suitable for your specific application.



1 Nozzles
Wide range of flat (ACF)- and round (ACR) spray nozzles for perfect finishing results.

2 Aircaps
Red - for low viscosity materials.
Blue - for high viscosity materials.
Bronze - for easy cleaning - no fan air adjustment

3 Nozzle extension
For spraying workpieces with unapproachable geometries.

4 Filters - patent pending
New Cage Filters for the GM 4700AC and the small edge filters for the GM 4100AC.

5 Gun flush box
The gun flush box makes the daily cleaning work much easier and faster. Supporting the health of the painter and the cleanness of the environment.

6 Hose packages
Different hose packages in 7.5, 10, 15 and 20 meters are available.

The right AirCoat gun for your purpose

Select your AirCoat gun

WAGNER offers two different versions of manual AirCoat guns.

GM 4100AC

Ultra light gun, only 437g with a slim handle. Available as a 160 and 250 bar version. This gun works with an edge filter.

GM 4700AC

Light gun, only 536g with regular handle. Available as 160 and 250 bar version. Unique tool free removeable filter housing and swivels for air and material connection. Works with the new Cage Filter.



GM 4100AC / GM 4700AC Technical Data

Manual AirCoat guns

Technical Data	GM 4100AC	GM 4700AC
Max. material pressure 160 bar Version 250 bar Version	160 bar / 16 MPa / 2320 psi 250 bar / 25 MPa / 2325 psi	160 bar / 16 MPa / 2320 psi 250 bar / 25 MPa / 2325 psi
Max. air pressure	8 bar / 0.8 MPa / 120 psi	8 bar / 0.8 MPa / 120 psi
Weight	385 g / 13.6 oz	536 g / 19.3 oz
Weight (ready to spray)	437 g / 15.4 oz	596 g / 21 oz
Material connection	NPSM 1/4"	NPSM 1/4"
Air connection	G 1/4"	G 1/4"
Material temperature	55 °C / 176 °F	55 °C / 176 °F
Wetted parts	Stainless steel	Stainless steel
Length	206 mm / 8.1 inch	211 mm / 8.3 inch
Width	173 mm / 6.8 inch	173 mm / 6.8 inch



WAGNER Cobra® - No application limits

WAGNER Cobra® is a high pressure double diaphragm pump suitable for AirCoat applications up to 250 bar. The pump is completely sealed from the external atmosphere. The absence of friction, the minimum of shear and almost no pulsation make it perfect for virtually any material and application! An extremely long lifetime guarantees a high process reliability. Suitable up to 5 l/min and ideal for water- and solvent based paints, UV and reactive materials.

For further information about the WAGNER Cobra® please look in the brochure or visit us at www.wagner-group.com

Automatic AirCoat guns

The WAGNER automatic AirCoat guns revolutionize the automatic coating processes. Excellent finishing quality, best transfer efficiency, ultra small and light, super fast and constant trigger speed result in best surfaces. Innovative cartridge packing and the base plate system reduces downtime and increase your process reliability. Enhance your automatic coating processes with WAGNER automatic AirCoat guns!



High pressure piston pumps

WAGNER IceBreaker®

Outstanding durability, very high reliability and unique features make the WAGNER IceBreaker piston pumps the optimal choice for almost any high pressure application. High efficiency air motors ensure smooth operation and impeccable coating results. The wide pump range enables the unit to successfully meet the needs of small workshops as well as those of big industries. The pumps are ideal for applying water -and solvent based paints.

A complete range of 2K systems

WAGNER offers a wide range of 2K systems. TwinControl - 1 color / 1 hardener / 1 solvent include all features required to mix the material. The FlexControl family offers additional features such as automatic color changes, recipe storage, peripheral equipment interfaces, and low and high pressure applications with a very high mixing accuracy.



www.wagner-group.com

Further information on WAGNER manual AirCoat guns and on a wide variety of accessories like air caps, nozzles and hoses can be found in the WAGNER liquid applications catalog.



BASIC UNITS

Description	GM 4100AC	GM 4700AC	
Gun bodys			
	GM 4100AC - 160 bar	394002	-
	GM 4100AC - 250 bar	394012	-
	GM 4700AC - 160 / 250 bar (conversion kit included)	-	2313585

ACCESSORIES

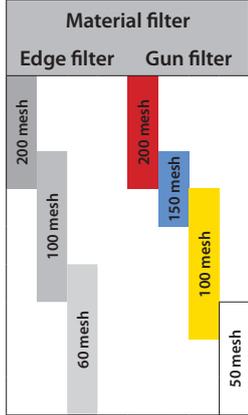
Description	GM 4100AC	GM 4700AC	
Filter			
	Edge filter 60 mesh ①	3204604	-
	Edge filter 100 mesh ①	3204605	-
	Edge filter 200 mesh ①	9999002	-
	Cage filter - 50 mesh (white) - 10 pcs NEW! ②	-	2315726
	Cage filter - 100 mesh (yellow) - 10 pcs NEW! ②	-	2315725
	Cage filter - 150 mesh (blue) - 10 pcs NEW! ②	-	2315724
	Cage filter - 200 mesh (red) - 10 pcs NEW! ②	-	2315723
Nozzle extension			
	Nozzle extension AC 300	394090	394090
	Nozzle extension AC 600	394091	394091
Flat jet atomization			
	Aircap bronze/LA plus	2313498	2313498
	Aircap red/LV plus	2313494	2313494
	Aircap blue/HV plus	2313497	2313497
	ACF 3000	(see nozzle chart)	(see nozzle chart)

Nozzle Chart ACF 3000

Part-No. 379xxx

To identify the part number of a nozzle, please use the number in the chart and replace the xxx. Example: to order a 211 nozzle use the part no.: 379211



Size	Spray angle							Material filter		Bore inch / mm	Material flow*													
	10°	20°	30°	40°	50°	60°	80°	Edge filter	Gun filter															
07	107	207		407						0,007 / 0,18	0,23													
09		209	309	409	509	609				0,009 / 0,23	0,26													
11	111	211	311	411	511	611	811			0,011 / 0,28	0,38													
13	113	213	313	413	513	613	813			0,013 / 0,33	0,55													
15	115	215	315	415	515	615	815			0,015 / 0,38	0,75													
17		217	317	417	517	617	817			0,017 / 0,43	0,96													
19		219	319	419	519	619	819			0,019 / 0,48	1,20													
21		221		421	521	621	821			0,021 / 0,53	1,45													
23				423		623	823			0,023 / 0,58	1,79													
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>55</td> <td>100</td> <td>145</td> <td>195</td> <td>250</td> <td>300</td> <td>400</td> </tr> <tr> <td colspan="7">Average spray width (mm)**</td> </tr> </table>											55	100	145	195	250	300	400	Average spray width (mm)**						
55	100	145	195	250	300	400																		
Average spray width (mm)**																								

* Specified in l/min, measured with water at 100 bar

** Measured with 110 bar, 30 cm distance, lacquer 56DIN-4s

ACCESSORIES

Description	GM 4100AC	GM 4700AC	
Round jet atomization			
 ①  ②	Round jet nozzle adapter ①	394180	394180
	Nozzle insert R11 ②	132720	132720
	Nozzle insert R12 ②	132721	132721
	Nozzle insert R13 ②	132722	132722
	Nozzle insert R14 ②	132723	132723
	Nozzle insert R15 ②	132724	132724
	Nozzle insert R16 ②	132725	132725
	Nozzle insert R17 ②	132726	132726
	Nozzle insert R18 ②	132727	132727
	Nozzle insert R19 ②	132728	132728
	Nozzle insert R20 ②	132729	132729
	Nozzle insert R21 ②	132730	132730
	Nozzle insert R22 ②	132731	132731
AirCoat hose package			
	AC-hose-DN3-PN270-1/4"NPS-7,5m-PA-T	2309705	2309705
	AC-hose-DN4-PN270-1/4"NPS-7,5m-PA-T	2309706	2309706
	AC-hose-DN4-PN270-1/4"NPS-10m-PA-T	2302379	2302379
	AC-hose-DN4-PN270-1/4"NPS-15m-PA-T	2309634	2309634
	AC-hose-DN4-PN270-1/4"NPS-20m-PA-T	2309635	2309635
Gun flush box			
	Gun flush box - Flat jet atomization	2308814	377174
	Gun flush box - Round jet atomization	-	2317586

SPRAYPACKS

Description	GM 4100AC	GM 4700AC	
GM 4100AC / GM 4700AC Spraypacks			
	GM 4100AC - 16 MPa LVplus - GM 4100AC 16MPa NPSM 1/4" - Aircap red/LV plus	2302515 394002 2313494	-
	GM 4100AC - 16 MPa HVplus - GM 4100AC 16MPa NPSM 1/4" - Aircap blue/HV plus	2302516 394002 2313497	-
	GM 4100AC - 25 MPa LVplus - GM 4100AC 25MPa NPSM 1/4" - Aircap red/LV plus	2302513 394012 2313494	-
	GM 4100AC - 25 MPa HVplus - GM 4100AC 25MPa NPSM 1/4" - Aircap blue/HV plus	2302514 394012 2313497	-
	GM 4700AC - LVplus - GM 4700AC NPSM 1/4" - Aircap red/LV plus	-	2313586 2313585 2313494
	GM 4700AC - HVplus - GM 4700AC NPSM 1/4" - Aircap blue/HV plus	-	2313587 2313585 2313497
	GM 4700AC - LAplus - GM 4700AC NPSM 1/4" - Aircap bronze/LV plus	-	2313588 2313585 2313498

Cage Filter - arresting the dirt!

The new Wagner filter was designed by meeting customer's needs. With these needs in mind the filter was developed reducing dead spaces optimizing the flush ability, extending the lifetime and make it more compact to reduce the gun size and weight.

- Easy to clean and exchange
- High filter performance
- Long service time



3 STEPS TO CHANGE!



FILTER SIZES



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2315724



2315725



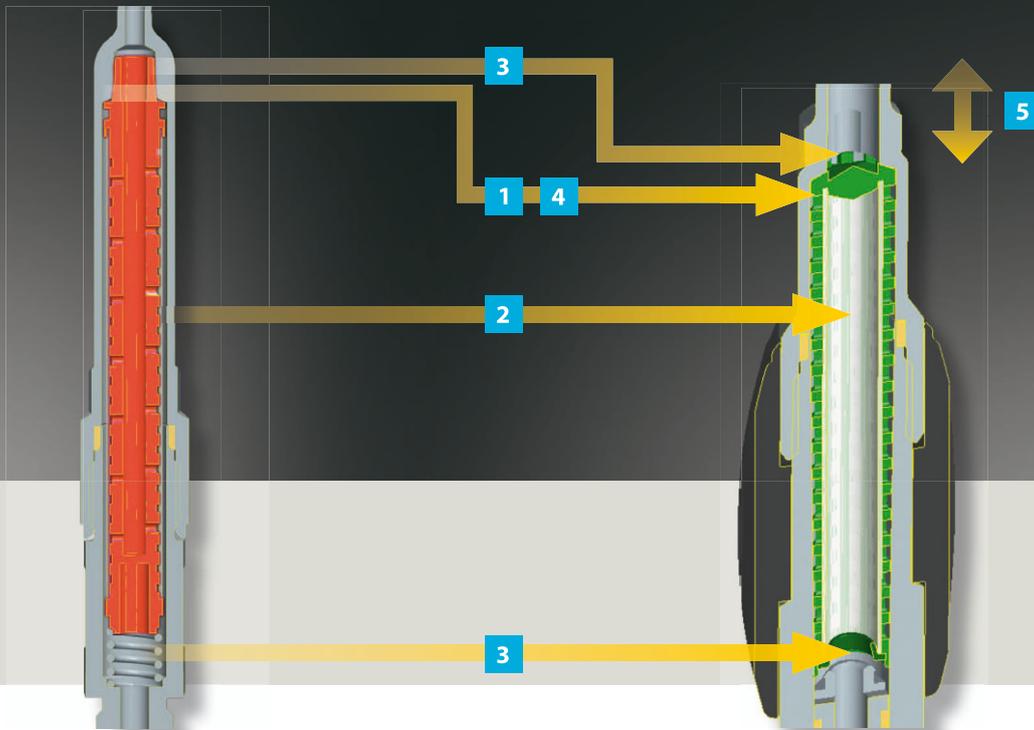
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Nozzle Size	07	09	11	13	15	17	19	21	23
Material Filter (mesh)	200			150		100			
	50								

WAGNER Cage Filtertechnology

STANDARD AIRLESS FILTER

NEW WAGNER CAGE FILTER



- 1 Easy to exchange – clean filter housing**
When removing the new Wagner filter all dirt collected by the filter is removed. This is achieved by filtering from the inside to the outside. Collecting all dirt inside the filter. Only filtered material is between the filter and the filter housing. Therefore the filter can be removed, even when full, very easily without sticking to the housing because of dried dirt.
- 2 Longer filter life time - bigger chamber for dirt**
The new filter is designed to have a bigger chamber to collect more dirt. The chamber is 53% times bigger compared to the standard Airless filter. So the lifetime of the filter is extended. This reduces the downtime for filter cleaning to a minimum.

- 3 Easy to flush - fast colour change**
No spring is needed to keep the filter in position. The dead space free filter design increases the flushability and accelerates color change. The result is time and solvent saving.
- 4 Easy to mount - no wrong assembly**
Due to its design the filter cannot be assembled in the wrong way, reducing the downtime to a minimum.
- 5 Lighter gun due to compact filter design**
The size of a filter influences the size and weight of a gun. The new compact filter design supports a small and light weight gun offering a more ergonomical gun combined with a longer filter life time.