



OC 200

- powerful modular cleaner
- low maintenance
- high, effective throwing range
- validatable cleaning



- modular system of the cleaner
- cleaning diameter up to 36m
- flow rate between 317 – 1081 lpm
- energy saving drive technology
- installation opening only 200 – 370mm
- no ball bearings, self-cleaning
- function monitoring with SMW 100

The OC 200 is a powerful, modular target jet cleaner with orbital 360° spray pattern. The OC 200 is specially designed for cleaning large tanks and vessels with high liquid volumes. The OC 200 is driven by the cleaning medium at a pressure of 4 to 10 bar. Turbine-driven, radial and axial rotation of the nozzle head is generated. Two, three or four nozzles of different lengths generate bundled liquid jets with a strong impact effect and a range of up to 36 meters in diameter. By circulating these fluid jets, a complete spray pattern with a long range and full coverage is created within 8 to 21 minutes.

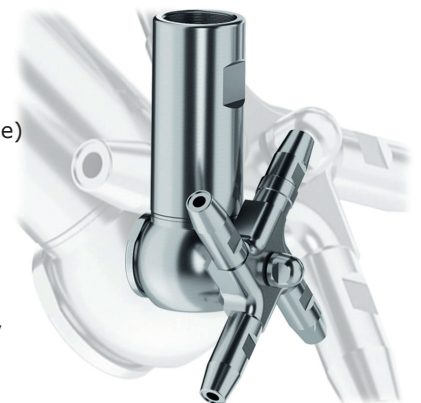
Due to optimal flow control, a smooth-running mechanism without ball bearings and a hygienic sealing concept, the energy used on the unit is transformed into a powerful cleaning effect. The orbital cleaning behavior allows the best possible use of the cleaning liquid or chemical additives. For use in hygiene-sensitive areas, the unit keeps itself permanently clean with a self-cleaning nozzle and empties itself automatically after use in vertical operation. The use of the device is always resource-saving and takes place with minimum wear and maintenance.

The OC 200 meets the highest hygiene and safety standards and can be used for FDA applications. During a long service life, this unit will always prove to be a reliable partner for your cleaning tasks. The cleaning process of an OC 200 can optionally be permanently monitored by the SMW 100 sensor device. The OC 200 is the first modular cleaner which allows the user to easily and quickly adapt to a cleaning task. By replacing the nozzle disc and various drive components, the cleaner can be quickly and easily converted. Particularly when the OC 200 rotary cleaner is used on the move for various cleaning tasks, optimum and resource-saving cleaning can be achieved by means of modular adaptation options.

Frequent areas of application for this product are tanks and containers in the brewing, beverage, dairy processing, food, pharmaceutical, chemical and transport industries and on ships.

Technical Data:

max. cleaning diameter:	36 m, 118 feet
Spritzbild:	360°
Pressure range:	4 – 10 bar, 58 – 145 psi
Durchflussmenge:	19 – 65 m³/h, 317 – 1,083 l/min, 84 – 286 US gpm
Insertion opening:	Ø 200 – 370 mm, Ø 7.88 – 14.57 inch (depending on nozzle)
Preferred mounting position:	arbitrary
Weight:	ca. 5,7 – 7,3 kg
Materials:	Stainless Steel 316L (1.4404), C.PTFE, PTFE, PEEK, A350, EPDM, FKM
Standard pipe connection:	2" female thread BSP
Nozzle equipment:	2, 3 or 4 short, long or nozzles with extension
Nozzle diameters:	9, 10, 11, 12, 13, 14, 15 mm nozzles
Certificates:	Ø 3.1, 2.2, FDA, 1935/2004, 2023/2006, ADI, USP class IV
max. operating temperature surface:	95°C (203°F)
Ambient temperature:	140°C (284°F), 30Min.



Required Installation Opening for OC 200

Tank opening		
Nozzle carrier	Nozzle lenght	Min. Tank opening
2 and 4	Standard	Ø 250 mm
	Short	Ø 200 mm
	Standard with Extension	Ø 370 mm
3	Standard	Ø 210 mm
	Short	Ø 200 mm
	Standard with Extension	Ø 320 mm



Note: For mobile use of an OC 200 orbital cleaner, the use of a protective basket is recommended to protect the cleaner from damage.

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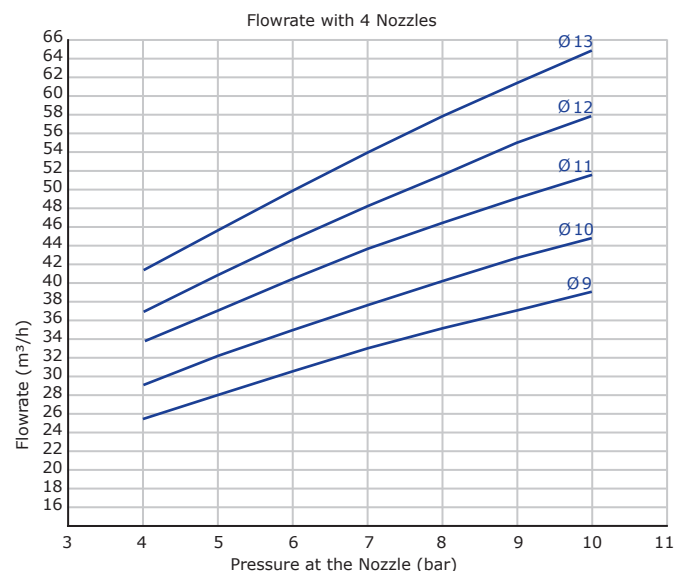
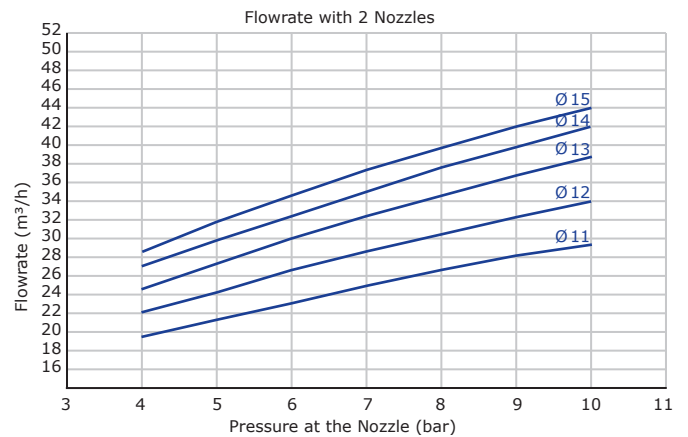
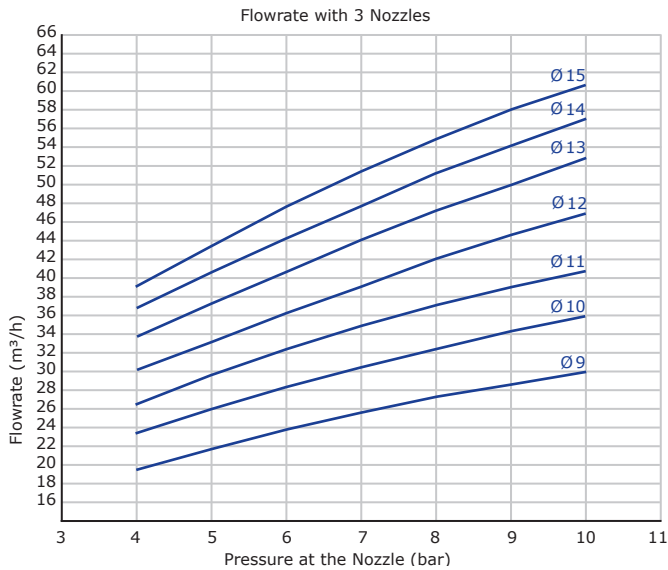
OC 200 First Modular Orbital Cleaner

Flow Performance Data

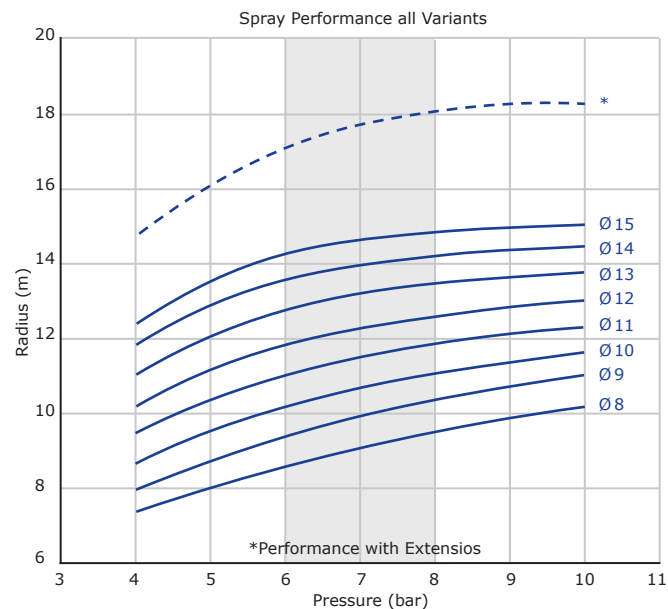
The diagram shows the maximum unwinding time of a complete spray pattern with the optimally selected rotation speed for each nozzle diameter. Upon request, our product experts can adjust the rotation speed to individually optimize the cleaning performance.

Depending on the customized configuration of the cleaner, the indicated unwind time may differ.

Please note: Depending on the degree of contamination and the required CIP cycle, the desired cleaning result can be achieved with shortened, complete or multiple unwind times.



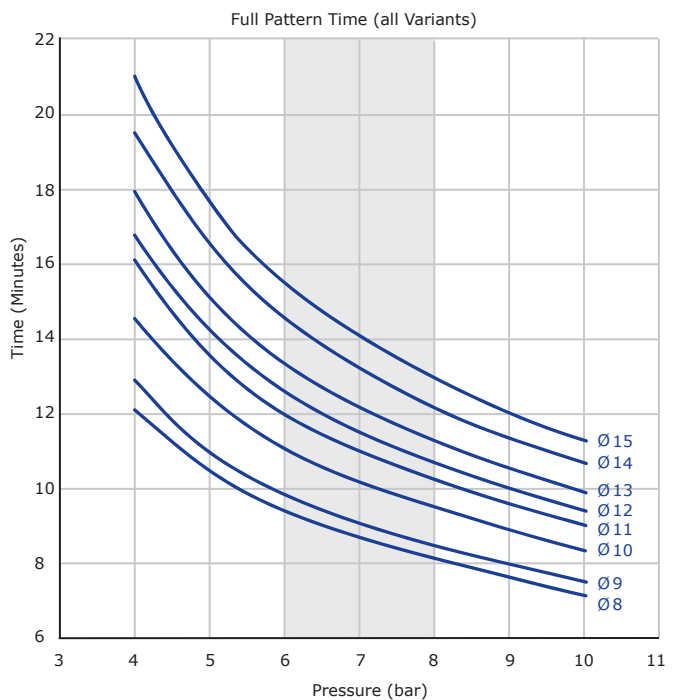
Dynamic Spray Performance



The solid curves show the dynamic blast radius of the long nozzle in combination with the recommended barrel-guide wheel combination that our product experts have preselected for the different nozzle options.

The dashed curve represents the increased performance with extensions for the 15 mm nozzle. Our product experts are available for other custom configurations, such as dynamic blast radius selection.

Full Pattern Time

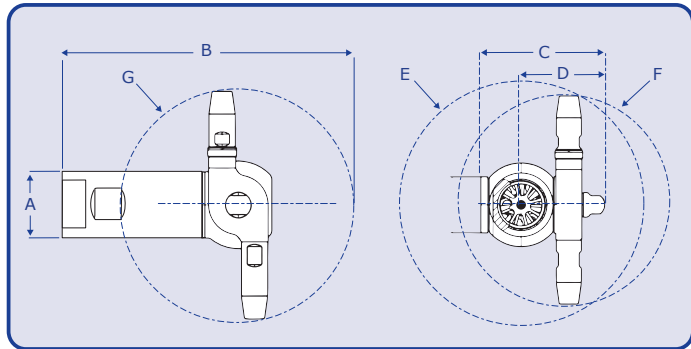


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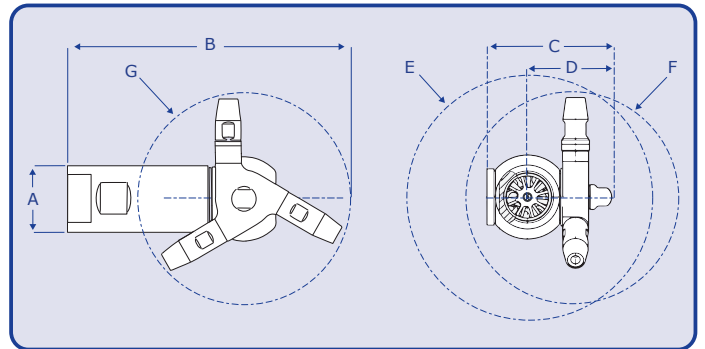
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Measurements

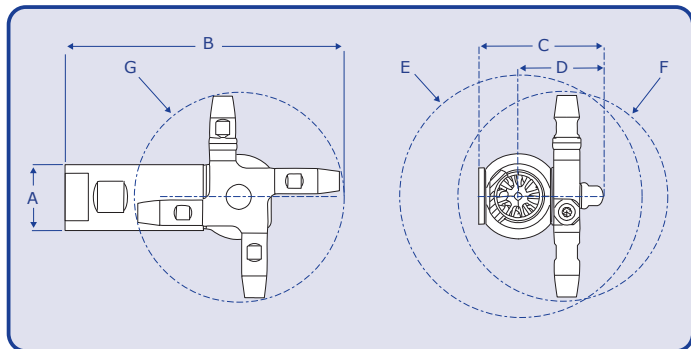
Measurements with 2 Nozzles



Measurements with 3 Nozzles



Measurements with 4 Nozzles



Nozzle-length		short	long	long with Extension
Diameters		2" BSP x 22 mm or 2" NPT*		
A		2" BSP x 22 mm or 2" NPT*		
B [mm]		296	316	376
C [mm]		144		
D [mm]		97		
E [mm]		240	280	400
F (min. Insertion Opening in mm)	2 & 4 Nozzles	200	280	400
	3 Nozzles	200	250	370
G [mm]		200	240	360

Ordercode:

Position	Description of the Ordercodes			
1	Cleaner Name	OC 200		
2	Spray Pattern	0	360°	
3	Number of Nozzles	2 Nozzles = 2	3 Nozzles = 3	4 Nozzles = 4
4	Nozzle Diameter	Ø 9 mm = 9	Ø 10 mm = 10	Ø 11 mm = 11
		Ø 13 mm = 13	Ø 14 mm = 14	Ø 15 mm = 15
5	Nozzle Lenght	S = Short Nozzles	L = Long Nozzles	LX = Long Nozzles with Extension
6	Selfcleaning	J = Yes	N = No	
7	Full Pattern Time	OPT = Optimum	C = Individually to be defined in consultation with Support.	
8	Impeller	z.B. 30	Impeller predefined by selecting the optimal unwind time. Can be customized individually after consultation with Support.	
9	Matrix	1 = Matrix 1		
10	Pipe Connection	BSP = BSP Thread	NPT = NPT Thread	
11	Connection Size	2 = 2"		
12	Materials	11 = A350 / C-PFTE / PEEK		
13	Materials Elastomers	10 = FKM	11 = EPDM	
14	Material Cleaner Body	1 = 316L/1.4404		
15	Surface Quality	2 Ra ≤ 0,8 µm		
17	Certificates	O = Without Certificate (Number Zero) W = Factory Certificate EN10204-2.2 Z = Inspection Certificate EN10204-3.1 K = FDA Declaration of Compliance* A = Declaration of Compliance ADI free* E = Regulation (EG) Nr. 1935/2004, Nr. 2023 / 2006, Nr. 10 / 2011 Declaration of Compliance* U = Declaration of Compliance USP class VI* O = Surface Inspection & -protocol		

The code is composed as follows according to the selected configuration:

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16**	17												
Code	OC200	-	0	-		x			-		-		-	1	-		2	-	11	-		-	1	-	2	//		//	

* Certificates: availability depending on certification group

** Certification group: Depending on the cleaner configuration

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