

Embargo date
2 JULY 4 PM CEST

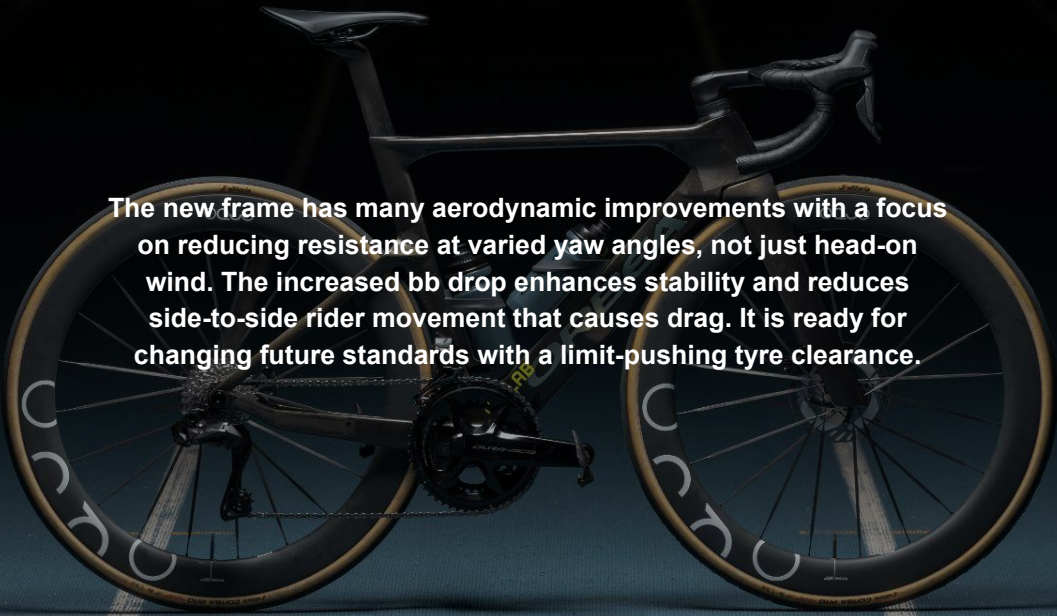


Orca Aero

2027

Aero 360°

Speed is built layer by layer. By questioning everything that holds you back. Exploring every angle. Going beyond what is expected. Always searching and always improving. It is the relentless pursuit of every advantage.



The new frame has many aerodynamic improvements with a focus on reducing resistance at varied yaw angles, not just head-on wind. The increased bb drop enhances stability and reduces side-to-side rider movement that causes drag. It is ready for changing future standards with a limit-pushing tyre clearance.

It's hard to beat the sensation of power that comes from a great aero bike. What rider is ambivalent about a machine designed to give back free watts? Taking Orca Aero to the next step meant rethinking aerodynamics, going beyond the windtunnel, and examining every angle to create real-world advantages. Not just in the frame, but in how the rider and machine work together.

1. A Different Approach to Aero

Rethinking aerodynamics beyond the wind tunnel led us to create the new Orca Aero, built for speed at real-world wind angles.

2. Faster Together

Speed comes from how efficiently rider and bike work together. By optimising stability, precise positioning, and power transfer, wasted energy is reduced and performance maximised.

3. Future Racing Standards

Designed for modern racing and shaped by the evolving pursuit of speed, Orca Aero is built with forward-thinking solutions that anticipate changing standards and new ways to go faster.

4. Put to the Test

We build maximum performance layer by layer, starting with computer simulation followed by controlled testing, and finally racing at the highest level. Our approach ensures every gain translates from the lab to real-world competition.

A Different Approach to Aero

Aero in Every Corner



Reshaped Frame Sections

Minimal Rear Dropout Design

Bottom bracket keel

Reduced resistance at every angle

Engineered as One System



OQUO RA57LTD CS

New Service Box

New Flush Bottle Cages

OC RA10 Carbon Cockpit

Low stack saddle

*Key features

Faster Together

Rider and Bike as One Efficient System

Stable Race Handling	Power Transmission	Stiffness to Weight
Low Center of Gravity	Oversized Downtube-BB Junction	27.5% global stiffness increase
Race Geometry	Powerspine	900 g Frame
Size-specific fork	Size-Tuned Stiffness	New OMX Carbon Layup
Two Low-Stack Seat Posts	Compliance	
13 sizes Precise Fit Cockpit		

*Key features

Future Racing Standards

Future-Ready Tire clearance

Spinblock

Di2 Battery solution

Internal Seat Post Clamp

UDH Compatible

Fork Bumper Protection

*Key features

Put to the Test

Wind Tunnel Proven

High Speed Efficiency Test

Low Speed Efficiency Test

WorldTour Ready

*Key features

How To Position Orca Aero Against Competitors

Total Approach

Most competitors measure efficiency from a 0° headwind. Orca Aero is the only bike that has improved the frame at every YAW angle which is representative of real-world conditions.

Bike-Rider System

Orca Aero was designed with improvements to encompass both the bike and the rider as a unit, creating notable advantages over a bike-only approach.

Future Ready

With greater tyre clearance and optimized for 29-35C tyres, it is a bike that is not just relevant for today's standards but one that will continue to be at the forefront for years to come.

		Orca Aero 27	Colnago y1rs	Cervelo S5	Factor One	Canyon Aeroad	Scott Foil
Sizes		7	5	6	5	7	6
Carbon levels		1	1	1	1	2	2
Weight	Frame	900	965	1005	900	995	985
	Fork	410	450	465	540	390	445
	Seatpost	160	190	205	230	234	195
	Handlebar	310	330	337	330	230	335
	Total	1780	1935	2012	2000	1849	1960
Max tyre clearance		37mm	32mm	34mm	34mm	32mm	30mm
Aerodynamics Optimized for		29-35mm	25-28mm	28-29mm	28mm	25-30mm	25-28mm
BB drop		78-76	74-72mm	74,5-69,5mm	77-75mm	72-70mm	70mm
Price € (OMR OMX)		5699-10999	12300-13200	9999-13999	13099-15499	(4799-7649) 10419-10699	(5089-8849) 13299
Spacers (HB stack ergonomics)		40	25	30	15+20 (riser)	15	40
Colors		3 + MyO	5	2+1+1	4	2/3/1/3/3/1/1/2+ MYC/3+ MyC	2
Bottle Cages included		Yes	Yes	No	Yes	No	No

Orca Aero models

€€€€

M11e LTD PWR

M10i LTD PWR

€€€

M22 LTD

M21e LTD

€€

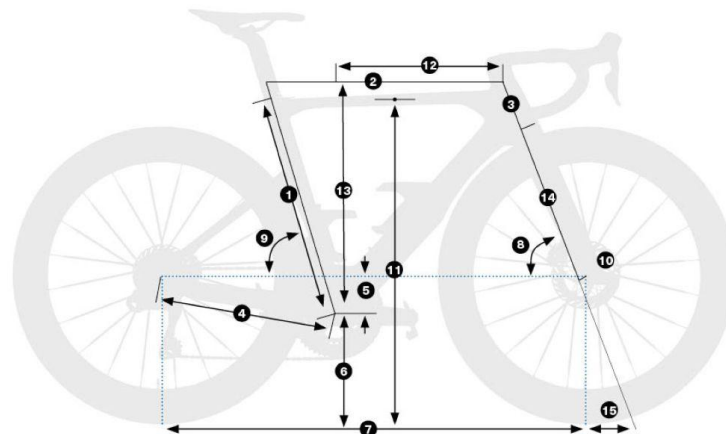
M20i LTD

M30i LTD

€

Orca Aero

Height (cm)	In	Sizes
155-160	61.1"-63.0"	47
160-166	63.0"-65.4"	49
167-172	65.7"-67.7"	51
173-179	68.1"-70.5"	53
180-185	70.9"-72.8"	55
186-191	73.2"-75.2"	57
192-207	75.6"-81.5"	60



Size	47	49	51	53	55	57	60
1 - Seat Tube (C-T)	459	474	499	524	545	565	592
2 - Top Tube (EFF)	505	518	530	543	555	571	584
3 - Head Tube	84	92	107	122	145	163	190
4 - Chainstay	408	408	408	408	408	408	408
5 - BB Drop	78	78	78	78	76	76	76
6 - BB Height	260/263	260/263	260/263	262/265	262/265	262/265	262/265
7 - Wheelbase	966	971	973	974	985	995	1009
8 - Head Angle	70.8	71.3	72.2	72.8	73	73.2	73.2
9 - Seat Angle	74.5	74	73.7	73.5	73.5	73.2	73.2
10 - Rake	48	48	48	43	43	43	43
11 - Standover	723	734	754	776	798	816	842
12 - Reach	370	375	380	385	390	397	404
13 - Stack	495	504	520	540	560	578	604
14 - Fork Length	368	368	368	368	368	368	368
15 - Trail Length	68.6	65.4	59.7	61.2	59.9	58.6	58.6

We reserve the right to modify, without prior notice, any aspect related to the content of this document, such as technical specifications of the products (sizes, designs, assemblies, etc.), colors, or prices.

Orca Aero M10i LTD

Ref. U125

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	175	120	400



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW



Frozen Concrete - Aurora Blaze (Matt)
AY



Magic Gold C. View - Titanium (Gloss)
AX



Myo
CM



Photo for reference purposes only. Individual components may not correspond with the final assembly

Frozen Concrete - Aurora Blaze (Matt)
AY

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1.5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Shimano Dura-Ace R9200-P Power Meter 36x52t
Op.	Shimano Dura-Ace R9200 36x52t w/left side 4iiii Powermeter Shimano Dura-Ace R9200 36x52t
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Shimano R9270
Brakes	Shimano R9270 Hydraulic Disc
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear 160mm Front / 160mm Rear
Rear Derailleur	Shimano Dura-Ace Di2 R9250

Front Derailleur	Shimano Dura-Ace Di2 R9250
Chain	Shimano CN-9100
Wheels	Oquo Road Aero RA57LTD Carbon Spokes Oquo Road Aero RA57LTD OQUO Road Performance RP45 LTD CS OQUO Road Performance RP50 LTD CS Oquo Road Performance RP50 LTD
Op.	
Cassette	Shimano Dura-Ace R9200 11-34t 12-Speed
Op.	Shimano Dura-Ace R9200 11-30t 12-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa Pro Speed 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA10 Carbon Ultralight, SB0/25, w/Micro tilt adjustment
Op.	OC Performance RA11 Carbon, Setback 0
Saddle	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04

Orca Aero M11e LTD

Ref. U126

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	175	120	400



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW



Frozen Concrete - Aurora Blaze (Matt)
AY



Magic Gold C. View - Titanium (Gloss)
AX



Myo
CM



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Magic Gold C. View - Titanium (Gloss)
AX

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1.5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Sram Red AXS Power Meter Dub 35x48t
Op.	Sram Red AXS Dub 35x48t
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Sram Red AXS
Brakes	Sram Red AXS
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear
Rear Derailleur	Sram Red AXS 12s
Front Derailleur	Sram Red AXS

Chain	Sram Red 12-Speed
Wheels	Oquo Road Aero RA57LTD Carbon Spokes
Op.	Oquo Road Aero RA57LTD OQUO Road Performance RP45 LTD CS OQUO Road Performance RP50 LTD CS Oquo Road Performance RP50 LTD
Cassette	Sram XG-1290 10-33t 12-Speed
Op.	SRAM XG-1290 10-36t 12-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa Pro Speed 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA10 Carbon Ultralight, SB0/25, w/Micro tilt adjustment
Saddle	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04

Orca Aero M21e LTD

Ref. U124

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	175	120	400



White Rainbow - Sunset (Gloss)
AV



Magic Gold C. View - Titanium (Gloss)
AX



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW



Myo
CM



Photo for reference purposes only. Individual components may not correspond with the final assembly

White Rainbow - Sunset (Gloss)
AV

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1.5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Sram Force Dub 35x48t
Op.	Sram Force AXS Powermeter Dub 35x48t
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Sram Force AXS
Brakes	Sram Force AXS
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear 160mm Front / 160mm Rear
Rear Derailleur	Sram Force AXS 12s
Front Derailleur	Sram Force eTAP AXS

Chain	Sram Force 12-13 Speed
Wheels	Oquo Road Performance RP50LTD Oquo Road Aero RA57 LTD CS Oquo Road Aero RA57LTD OQUO Road Performance RP45 LTD CS OQUO Road Performance RP50 LTD CS
Op.	
Cassette	Sram XG-1270 10-33t 12-Speed
Op.	Sram XG-1270 10-36t 12-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa N.EXT 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA11 Carbon, SB25
Op.	OC Performance RA11 Carbon, Setback 0
Saddle	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04

Orca Aero M20i LTD

Ref. U123

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	175	120	400



White Rainbow - Sunset (Gloss)
AV



Magic Gold C. View - Titanium (Gloss)
AX



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW



Myo
CM



Photo for reference purposes only. Individual components may not correspond with the final assembly

Magic Gold C. View - Titanium (Gloss)
AX

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1.5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Shimano Ultegra R8100 36x52t
Op.	Shimano Ultegra R8100 34x50t Shimano Ultegra R8100 34x50t with left side 4iiii Powermeter Shimano Ultegra R8100 36x52t with left side 4iiii Powermeter
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Shimano ST-8170
Brakes	Shimano R8170 Hydraulic Disc
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear 160mm Front / 160mm Rear
Rear Derailleur	Shimano Ultegra Di2 R8150

Front Derailleur	Shimano Ultegra Di2 R8150
Chain	Shimano M8100
Wheels	Oquo Road Performance RP50LTD Oquo Road Aero RA57 LTD CS Oquo Road Aero RA57LTD OQUO Road Performance RP45 LTD CS OQUO Road Performance RP50 LTD CS
Op.	
Cassette	Shimano Ultegra R8100 11-34t 12-Speed
Op.	Shimano Ultegra R8100 11-30t 12-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa N.EXT 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA11 Carbon, SB25
Op.	OC Performance RA11 Carbon, Setback 0
Saddle	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04

Orca Aero M22 LTD

Ref. U127

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	172	120	400

White Rainbow - Sunset (Gloss)
AV

Magic Gold C. View - Titanium (Gloss)
AX

PICTURE COMING SOON



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW

Myo
CM

PICTURE COMING SOON

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1,5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Campagnolo Record 36x52t
Op.	Campagnolo Record Powermeter 36x52t
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Campagnolo Record
Brakes	Campagnolo Record
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear 160mm Front / 160mm Rear
Rear Deraileur	Campagnolo Record
Front Deraileur	Campagnolo Record

Chain	Campagnolo Record
Wheels	Oquo Road Performance RP50TEAM
Cassette	Campagnolo Record 11-36 13-Speed
Op.	Campagnolo Record 10-33t 13-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa N.EXT 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA10 Carbon Ultralight, SB0/25, w/Micro tilt adjustment
Op.	OC Performance RA11 Carbon, Setback 0
Saddle	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04

Royal Plum (Matt) - Fantasy Purple C. View (Gloss)
AW

Orca Aero M30i LTD

Ref. U122

Size	Crank	Stem	Handlebar
47	165	80	360
49	170	90	380
51	170	90	380
53	170	100	380
55	172	100	400
57	172	110	400
60	175	120	400



White Rainbow - Sunset (Gloss)
AV



Magic Gold C. View - Titanium (Gloss)
AX



Royal Plum (Matt) - Fantasy Purple C.
View (Gloss)
AW



Myo
CM



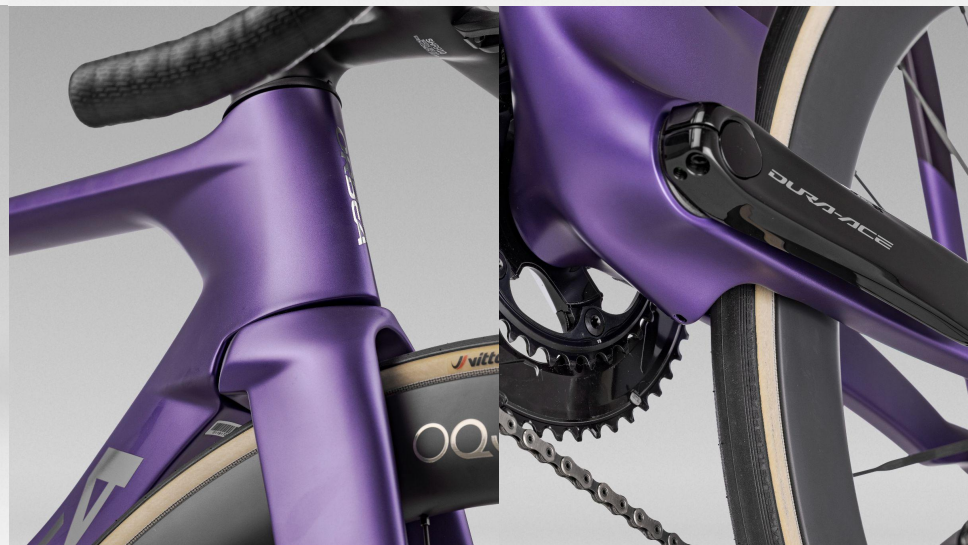
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White Rainbow - Sunset (Gloss)
AV

Frame	Orbea Orca Aero Carbon OMX disc, monocoque construction, HS 1,5", BB 386, powermeter compatible, Thru Axle 12mm x 142mm rear, thread M12x2 P1, Speed release compatible, internal cable routing, EC/DC compatible.
Fork	Orbea Orca Aero OMX ICR, full carbon, 1-1/8" - 1.5" tapered head tube compatible, Thru axle 12x100mm, thread M12x2 P1, Speed release compatible dropout.
Crankset	Shimano 105 R7100 36x52t w/left side 4iiii Power Meter
Op.	Shimano 105 R7100 34x50t Shimano 105 R7100 34x50t with left side 4iiii Powermeter Shimano 105 R7100 36x52t with left side 4iiii Powermeter
Headset	FSA 1-1/2" Integrated Aluminium Cup
Handlebar Plugs	OC Components
Shifters	Shimano Di2 R7170
Brakes	Shimano R7170 Hydraulic Disc
Rotors	160mm Front / 140mm Rear
Op.	140mm Front / 140mm Rear 160mm Front / 160mm Rear
Rear Derailleur	Shimano 105 Di2 R7150

Front Derailleur	Shimano 105 Di2 R7150
Chain	Shimano M6100
Wheels	Quovo Road Performance RP50TEAM Quovo Road Aero RA57 LTD CS Quovo Road Aero RA57LTD
Op.	OQUO Road Performance RP45 LTD CS OQUO Road Performance RP50 LTD CS Quovo Road Performance RP50 LTD
Cassette	Shimano 105 R7100 11-34t 12-Speed
Op.	Shimano HG710 11-36t 12-Speed
Rear Wheel Axle	Orbea Thru Axle 12x142mm M12x1 Lite
Front Wheel Axle	Orbea Thru Axle 12x100mm M12x1 Lite
Tyres	Vittoria Corsa N.EXT 29-622 TLR wide rim G2.0 OEM HP
Seatpost	OC Road Aero RA11 Carbon, SB25
Op.	OC Performance RA11 Carbon, Setback 0
Saddle	Fizik Vento Antares R3 Kium Rail 140mm

Op.	Fizik Vento Antares R1 Carbon Rail 140mm
Storage	OC Toolbox SB04



Will it have the Service Box?

Yes, it has been updated to create a more aerodynamic ensemble with the downtube and the front wheel. It is possible to remove it but it will come with it installed by default.

Will it have two different logo sizes again?

Just a large logo, no small option

Is the head angle more slack?

No. It looks like it, but we just added material in the head tube and fork for improved aerodynamics.

For our quoted Orca Aero wind tunnel testing results - is this with the service box and bottle cages with bottles fitted?

The wind tunnel session was carried out without service box but with new bottle cages + bottles because there are still not production parts available. Nonetheless, and considering that the service box improves overall aerodynamic impact of the whole system, future testing with the SB will improve current values.

Thank you

Eskerrik Asko

ORBEA