

Orona 3G

X-15

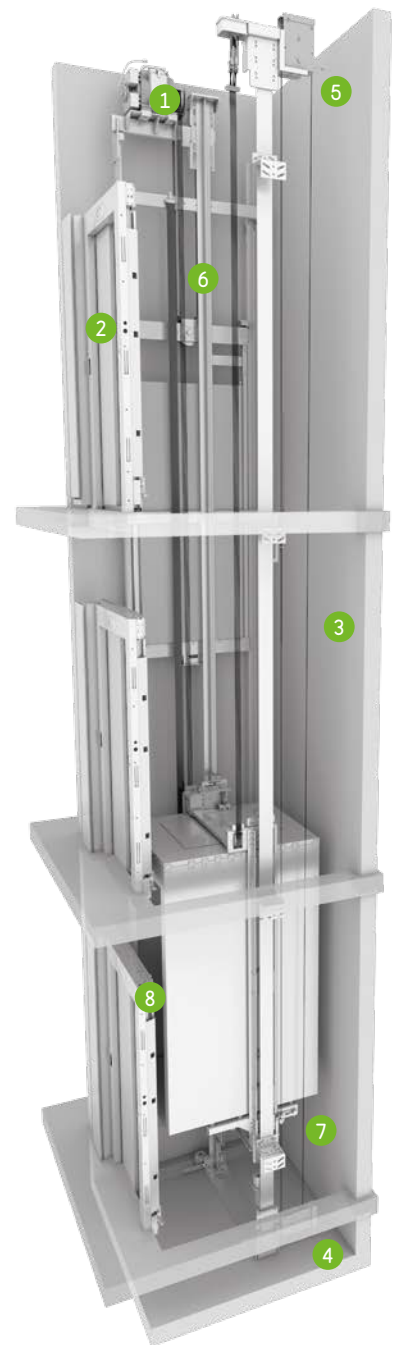
Machine-room-less electrical gearless solutions (MRLG)

High efficiency for residential and public buildings.
Optimum use of space and latest direct drive (gearless) technology.
The customised solution.
Maximum flexibility and performance.

General specifications

Load	320 to 1,000 kg
Capacity	4 to 13 persons
Speed	1 - 1.6 m/s
Maximum travel	50 - 60 m
Maximum floors served	16 - 21 floors
Entrances	1 front / 2 open through
Drive system	Direct gearless
Controller	ARCA II controller, low energy microprocessor
Door types	Automatic side-opening / Automatic central-opening
Clear door opening	From 600 to 1,500 mm (in 100 mm increments)
Door height	2,000 / 2,100 / 2,200 / 2,300
Car dimensions	Parametric car dimensions
Internal car height	2,100 / 2,200 / 2,300 / 2,400
Aesthetic solutions	Orona 3G Domo Packs / Orona 3G Public Packs / Orona 3G Plus

Standard Optional



1 DRIVE

Compact, quiet, gearless, energy efficient, speed regulated (VVVF) permanent magnet electric motor.



2 DOORS

Compact permanent magnet motor for fast, accurate and quiet door operation giving the most advanced performance. Advanced door opening and full height infra red door protection edges. Optional Solid Door for high flow situations.



3 PARAMETRIC/FLEXIBLE

Flexible car and door configurations ensure available shaft dimensions can be optimised (optional).



4 ACCESSIBLE SPACE BELOW THE PIT

Adapts the lift to suit buildings which have an accessible space below the pit (optional).



5 REDUCED HEADROOM

Optional feature to allow the reduction of the shaft headroom when required, whilst maintaining the maximum safety and protection for maintenance staff.



6 TRACTION ROPES

Orona small diameter ropes replace traditional steel ropes. As a result of their lighter weight, longer lifespan and greater flexibility, it is possible to use a more compact, efficient and eco-friendly gearless machine.



7 SHAFT USABILITY

Lifts designed especially to use all the shaft space available, obtaining a good relation between the space available and the number of passengers to be transported.



8 AUTOMATIC RESCUE SYSTEM

With floor level indication to ensure fast, efficient and safe evacuation of passengers in the event of an emergency. As an option, the system can incorporate a fully-automatic rescue device to evacuate passengers in the event of a power failure.



Standard dimensions

Load / capacity			Car			Lift shaft*								
Speed	Persons	Q Load	AC Width	FC Depth	PL Clear opening	Entrances		Side-opening doors		Central-opening doors		HF Pit	HUP Last Floor	
						Accessibility	No. of entrances	AH ¹ Width	FH ² Depth	AH	FH ³ Depth			
1 m/s	4	320 kg	825	1100	700		1	1,300	1,350			1,000 (830) ⁴	3,400 (3050) ⁵	
	6	450 kg	1,000	1,250	800	♿	1	1,450	1,500	1,725	1,450			
							2 x 180 ⁰	1,650	1,550					
	8	630 kg	1,100	1,400	900		♿	1	1,600	1,675	1,925			1,625
								2 x 180 ⁰	1,850	1,750				
10	800 kg	1,350	1,400	900			1	1,825	1,675	1,925	1,625			
13	1,000 kg	1,600	1,400	1,000			2 x 180 ⁰	2,075	1,850			1,750		
		1,100	2,100	1,000			1	1,775	2,375	2,125	2,300			
1.6 m/s	4	320 kg	825	1,100	700		1	1,325	1,350			1,120	3,550	
	6	450 kg	1,000	1,250	800	♿	1	1,475	1,500	1,725	1,450			
							2 x 180 ⁰	1,650	1,550					
	8	630 kg	1,100	1,400	900		♿	1	1,625	1,675	1,925			1,625
								2 x 180 ⁰	1,850	1,750				
10	800 kg	1,350	1,400	900			1	1,850	1,675	1,925	1,625			
13	1,000 kg	1,600	1,400	1,000			2 x 180 ⁰	2,100	1,850			1,750		
		1,100	2,100	1,000			1	1,775	2,375	2,125	2,300			
							2 x 180 ⁰	1,775	2,550	2,400	2,400			

1 Accessible space below the pit (counterweight with safety gear) add 115 mm to AH

2 Shaft depth with door tracks projecting 60 mm on the landing

3 Shaft depth with door tracks projecting 40 mm on the landing

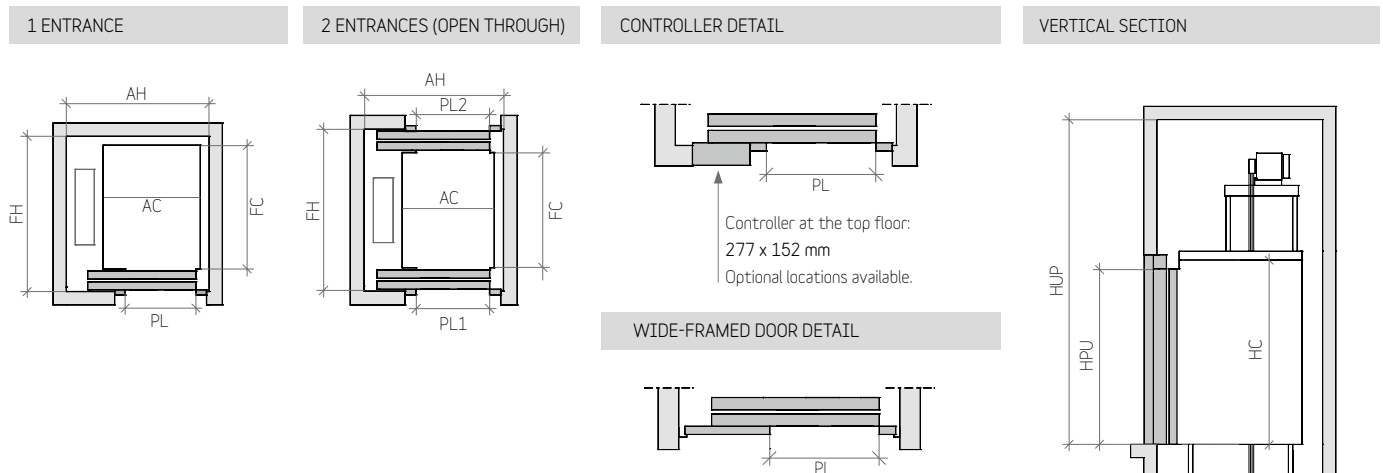
4 HF reduced pit optional 830 mm

5 HUP minimum for internal car height (HC) 2,100 mm (HUP=HC+1,300)

HUP reduced headroom optional (HUP=HC+900). Consult availability of car dimensions

* Minimum plumb measurements

Layout



Customised car dimensions

		Car width																																														
											13	12							1,600																													
											13	13	11						1,500																													
											13	13	12	11	10				1,400																													
											13	12	11	10	9	8			1,300																													
											13	12	11	10	9	8		6	1,200																													
13	13	12	11	11	10	9	8	8	7	6	5	4	4	3	2	1			1,100																													
12	12	11	10	10	9	8	7	7	6	5	4	3	2	1					1,000																													
11	10	10	9	8	8	7	7	6	5	4	3	2	1						900																													
											6	6	5	5	4	4			800																													
											2,100	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500																
											Car depth																			Clear door opening																		

Note: Car width and depth variable in increments of 5 mm.

For simplification, table samples show increments of 100 mm.