



Technical data sheet # EPA38E

**Art. VERA X
Art. VERA CLEAN X
ESD SAFE CHAIRS**



GENERAL

VERA X and VERA CLEAN X are the new ELME ESD chair models, meeting all ESD requirements of IEC 61340-5-1 std and ESDA 2020 std.

THE STRUCTURE The structure meets the most recent standards on ergonomic and safe seating. The shape of the backrest designed to offer a safe and adherent protection to the operator's back and torso. The seat is large for additional comfort keeping the body always in the correct position. Both seat and backrest are cushioned with extra soft high density foam lining.

BACKREST ADJUSTMENT The backrest follows the back of the operator up and down and back and forth with a smooth movement. Inclination range 17°. Height adjustment 6 cms. Back and forth adjustment 15cms.



SEAT ADJUSTMENT The seat adjusts in height 12 cms with a comfortable lever and a precise setting, due to the high quality of the gas lift cylinder.

GAS LIFT The seat has a top quality gas elevation column. This is the most important element in the chair, as it prolongs the life on continued usage in laboratories or in production sites. The adjustment is always quick and precise, time after time.

THE RESISTANCE TO FLAME The textile fabric used is flame and burn resistant. This is most important for burns of irons, cigarettes or others. The durability of the chair is therefore ensured against these inconveniences.

METAL-FREE FABRIC Unlike most of the competition, VERA X chair have adapted a metal-free fabric. The usage of metal in the fabric is an easier way to provide conductivity, but, on the other hand, it may generate at least two big problems such as:

- **Short circuits:** if there is metal in the formulation there is a risk with live conductors accidentally touching the textile (for example a 220 Volt cable falling on the chair) because metal fibre has zero Ohm resistance, thus connecting directly the body with the fabric. Our fabric has higher value of resistance, resulting in additional protection for the operator.
- **Less comfort:** the presence of metal causes rigidity in the fabric and less comfort for the operator.

Therefore we have decided not to use metal in the fabric in order to prevent these problems and provide customers with a safe and comfortable fabric.

ESD VINYL FABRIC The version **VERA CLEAN X** features ESD black vinyl cover and is suitable for non-critical ESD cleanroom environments. The black vinyl is also easier to clean and minimizes and particle generation. Tough resistance to continued usage, provides excellent ESD drainage.

COLOUR Moreover the colour of the fabric is darker in order to minimize visibility of eventual stains or signs due to dust and dirt. Anyway, a regular cleaning maintenance, especially into production environments, is warmly recommended: a clean fabric makes a better surface electrical connection.

THE CONDUCTIVITY OF THE BACK PLASTIC PANEL The rear of the backrest has a plastic cover which is totally ESD safe. This is important as any isolated surface should be avoided in a ESD protected environment. Moreover the chairs will carry an ESD symbol on the back.

THE SAFETY WHEELS WITH BRAKE Additional safety due to the ESD safety wheels with brake given as standard to all VERA X models. The chair slows down with the brake as no one sits, in order to protect standing people from sliding chairs around the place. As the operator sits, the brakes release and the chair is safely free to move with no resistance. ESD feet are also available.



ARMRESTS As optional VERA X and VERA CLEAN X can include armrests

UNI STANDARD both chairs models VERA X1R and VERA CLEAN X1R meet safety standard DLGS 626 with trials as specified in **UNI EN 1335** class B

GENERAL INFORMATIONS

					
VERA X1R (fabric)	VERA X1P (fabric)	VERA X1-300 R (fabric)	VERA X1-300 P (fabric)	VERA X2R (fabric)	VERA X2P (fabric)
VERA CLEAN X1R (vinyl)	VERA CLEAN X1P (vinyl)	VERA CLEAN X1-300 R (vinyl)	VERA CLEAN X1-300 P (vinyl)	VERA CLEAN X2R (vinyl)	VERA CLEAN X2P (vinyl)

FABRICS AND ESD

Fabric (models VERA)	Unflammable	UNI EN 1021 Part 1°e 2°
ESD fabric weight	340gr	1 x 1,45m
ESD fabric resistance	$1 \times 10^9 < R < 8 \times 10^9$	IEC 61340-5-1
Chair resistance to ground	$1 \times 10^9 < R < 1 \times 10^9$	IEC 61340-5-1
Fabric Static decay	1180 V to 50 V < 1,5 sec	IEC 61340-5-1
Color	Grey anthracite or blue (on request)	
Vinyl (models VERA CLEAN)		
Resistance fabric point to point	10^6 Ohm	IEC 61340.5.1
Resistance to ground	10^6 Ohm	IEC 61340.5.1
Static decay time	< 2 sec	IEC 61340.5.1

MECHANICAL

Base	Polished aluminium	Inherently conductive
Base diameter	680 mm	
Adjustments	Gas lift	Made in Europe
	Height of the seat models X1R	420-540mm (120mm excursion)
	Height of the seat models X1P	400-520mm (120mm excursion)
	Height of the seat models X1-300R	550-670mm (120mm excursion)
	Height of the seat models X1-300P	530-650mm (120mm excursion)
	Height of the seat models X2R	620-740mm (120mm excursion)
	Height of the seat models X2P	600-720mm (120mm excursion)
	Diameter footrest models X2	420mm
	Height of the backrest (both models)	430-490mm (60mm excursion)
	Backrest width (both models)	470mm
	Depth of the backrest	430-580mm (150mm excursion)
	Inclination of the backrest for permanent contact with the operator's back	17° range angle of inclination
	Foam density	30kg/m ³ (seat 40mm thick – backrest 35mm thick)

The datas shown above are intended only as general indication of the standard production values. The do not refer to specific production lots. The document has no legal value.

