

# Upright Refrigerators

SPECIAL REFRIGERATORS AT +4° C  
FOR SOLVENTS



INTERNAL SPARK FREE  
LABORATORY REFRIGERATORS  
MODELS ESS  
FROM +2° C TO +14° C

ESS 360  
with optional chart recorder





## INTERNAL SPARK FREE LABORATORY REFRIGERATORS MODELS ESS FROM + 2° C TO + 14° C



### WARNING, IMPORTANT NOTE

- This equipment is named “as increase security spark free”, as high security equipment. This is because there isn't any component inside of the chamber that could generate sparks or any fire starter. This performance makes the equipment able to store organic solvents and corrosive acids.
- Is essential to remark that this equipment, as equipment in self, is not to store fire or explosive products, neither are explosion proof.
- Warning!!!! “This equipment is not explosion proof”. It according to norm ATEX 98/9/CE.

### TECHNICAL SPECIFICATIONS

- Specifically designed to store volatile and flammable liquids, reagents, chemicals, poisons and samples, below the external temperature to reduce the risk of internal explosions.
- Spark free internal chamber.
- Temperature range from + 2° C to + 14° C.
- Digital temperature controller with digital display.
- Pt1000 probe of 0.1° C accuracy on the display.
- Audible and visible independent alarms for temperature, probe and power failures. NiCd battery back-up, all with battery charger (supports over 48 hours).
- Solid door and big sized handle.
- Two side opening door, right or left opening available (please indicate at the order, factory adjustment).
- Locked main power switch (on/off).
- Indication for open door, with audible and visible alarms.
- Upper and lower temperature history memory.
- Security lock with keys on the door.
- Models with natural air convection system.
- Time controlled evaporator with automatic defrost.
- Insulation of 60 mm of high density injected cyclopentane, CFC and HCFC free.
- Cooling gas R134 a or R600, CFC and HCFC free, biodegradable.
- Hermetic compressor, built over dampers, low noise < 48dB.
- Internal body according the model (see the data chart).
- Round corners for easy cleaning.
- External body according the model (see the data chart).
- Internal shelves of plastic coated steel wire, adjustable in height.
- Magnetic perimeter gasket on the door, to ensure a perfect airtight closing.
- Feet size adjusts equipment height.
- Tropical treatment to allow work until + 38° C working area temperature.

### OPTIONAL ACCESSORIES for ESS models

- Over temperature safety thermostat.
- Temperature circular chart recorder for 7 days, main powered with independent battery back-up, works even with power failures.
- Base with 4 castors for easy movement.
- Potential free output for remote alarm control.
- Digital Printer and data loggers.
- Alarm failure sound stop switch, protected with key.
- Remote control interface connection RS 485/232.
- Set of stainless steel drawers with telescopic guides.
- Storage racking systems and dividers for drawers.
- USB storage data control system.
- GSM phone alarm module.
- Access port.
- Humidity display control.

EBS 180/UC, EBS 260, EBS 360 y EBS 500: Durable ABS inner lining, one-piece molded, external of steel epoxy coated.  
EBS 982 and EBS 1322 Stainless Steel AISI 304 External and Internal .

Models	Capacity in Litres	Internal/ External	N° of shelves	Power in W	Compressors HP	Internal Dimen. in mm wide x depth x high	External Dimen. in mm wide x depth x high	Weight/ Pack net/gross	Vol/Pack m <sup>3</sup>
ESS 180 UC	180	ABS/Epoxy	3	126	1/5	513 x 441 x 702	600 x 600 x 850	65/85	0.4
ESS 260	260	ABS/Epoxy	4	150	1/5	513 x 441 x 1047	600 x 600 x 1216	75/95	0.5
ESS 360	360	ABS/Epoxy	5	170	1/3	513 x 441 x 1418	600 x 600 x 1590	85/105	0.6
ESS 500	500	ABS/Epoxy	5	170	1/2	652 x 537 x 1338	752 x 710 x 1516	100/120	0.8
ESS 982	982	Inox*	3+3	620	3/8	1282 x 550 x 1262	1400 x 707 x 1981	170/145	2.3
ESS 1322	1322	Inox*	4+4	620	3/8	1282 x 687 x 1357	1400 x 819 x 2075	1322	2.7

\* Stainless Steel 1 cu ft = 28,3 litres. 1 inch = 25,4 mm.