

1 VIYON MIDDLE EAST L.L.C · SECTOR BROCHURE 1 OF 7

Clinical Healthcare, Dental Networks & CSSD Platforms

Engineered to fulfill absolute biological validation, infection control, and daily pre-vacuum chamber diagnostics across local hospital groups, ambulatory clinics, diagnostic centers, and central sterile supply departments.

Part of **Industrial Application & Technical Workflow Solutions**, the strategic portfolio of Viyon Middle East L.L.C., built on the high-tier analytical and industrial brands we represent across the United Arab Emirates.

15 – 770 L

autoclave chamber range

EN 867-4

Bowie-Dick conformity

10⁵ / 10⁶

certified spore populations

Type 4 · 5 · 6

ISO 11140-1 indicators

BRANDS IN THIS BROCHURE



Products

- **Portaclave Portable Autoclave Series:** Robust, standalone 15L, 22L, and 30L vertical processing chambers crafted from grade 316 stainless steel. Designed as a single-phase "plug and play" mobile setup that requires zero pre-installed utility plumbing, optimized directly for rapid culture media preparation. Features optional Vario digital tracking systems supporting customized exposure periods (1 to 99 minutes) and flexible micro-processing heat scales (100°C–121°C).
- **Phoenix Front-Loading Benchtop Systems:** Space-saving 40-liter and 60-liter front-loading cabinets engineered for bench or trolley mounting. The Phoenix 40 features a dense internal layout built to secure up to 13 × 1L media bottles in a single cycle. Includes built-in condensation collection drip trays beneath the hinge seals.
- **Monarch Vertical Compact Autoclaves:** Specialized 50L and 75L top-loading models engineered with counterbalanced lids and angled control panels. The Monarch 50 incorporates a low overall profile specifically optimized to fit neatly underneath standard hospital laboratory workbenches.
- **Gemini 316 Dual-Chamber System:** A totally unique configuration providing two completely independent autoclaves isolated in one space-saving frame (2 × 158L vessels; 316L total capacity). Features independent digital logic controls for each chamber, enabling a single installation to handle clean autoclave cycles on one deck while processing active contaminated waste streams on the other.
- **Sovereign High-Capacity Systems:** Economy 200-liter and 250-liter round-chamber systems utilizing cost-effective heavy hinge/bolt doors and fixed silicone seals.
- **Crystal & Sapphire Large Square Section Chambers:** Advanced square section processing fields (ranging from Crystal's 300L up to Sapphire's master 770L variants) engineered with "Hoist and Clamp" door closures. Square chambers deliver maximum geometric loading density compared to standard cylinders. Features integrated high-pressure steam generators and full water-cooling jackets to slash cycle recovery periods.

MANUFACTURER / SUPPLIER



The Rodwell Autoclave Company (UK)

TECHNICAL DATA

Portaclave Portable Series



MODEL NAME	PORTACLAVE 15E	PORTACLAVE 22E	PORTACLAVE 30E	PORTACLAVE 15V	PORTACLAVE 22V	PORTACLAVE 30V
Model Number	ST1528E	ST2228E	ST3028E	ST1528V	ST2228V	ST3028V
Capacity	15 Litres	22 Litres	30 Litres	15 Litres	22 Litres	30 Litres
Autoclave Weight	19 kg	21 kg	23 kg	19 kg	21 kg	23 kg
Overall Dimensions (mm)	370w x 485h x 390d	370w x 600h x 390d	370w x 730h x 390d	370w x 485h x 390d	370w x 600h x 390d	370w x 730h x 390d
Chamber Dimensions (mm)	280Ø x 245d	280Ø x 360d	280Ø x 490d	280Ø x 245d	280Ø x 360d	280Ø x 490d
1L Media Bottle Capacity	4 Bottles	4 Bottles	8 Bottles	4 Bottles	4 Bottles	8 Bottles
Digital Vario Controller	No	No	No	Yes (Vario)	Yes (Vario)	Yes (Vario)



Portaclave portable autoclave



Vario II digital controller

TECHNICAL DATA

Phoenix Benchtop & Monarch Compact



MODEL NAME	PHOENIX 40	PHOENIX 60	MONARCH 50	MONARCH 75
Chamber Capacity	40 Litres	60 Litres	50 Litres	75 Litres
Vessel Dimensions (mm)	350Ø x 460 deep	350Ø x 600 deep	350Ø x 520 deep	350Ø x 780 deep
Overall Dimensions (mm)	550w x 790h x 710d	550w x 790h x 860d	470w x 840h x 690d	470w x 1100h x 690d
Control Logic Platform	MP25 Controller	MP25 Controller	MP25 Controller	MP25 Controller



Phoenix benchtop autoclave



Monarch top-loading autoclave

TECHNICAL DATA

Gemini 316 & Sovereign Round Chambers



MODEL NAME	GEMINI 316	SOVEREIGN 200	SOVEREIGN 250
Chamber Capacity	158 Litres x 2 (316L Total)	200 Litres	250 Litres
Vessel Dimensions (mm)	460Ø x 960 deep (x2)	545Ø x 860 deep	545Ø x 1057 deep
Overall Dimensions (mm)	650w x 1970h x 1310d	830w x 1800h x 1450d	830w x 1800h x 1450d



Gemini 316 twin-chamber autoclave



Sovereign large round chamber

TECHNICAL DATA

Crystal & Sapphire Square Chambers



MODEL NAME	CRYSTAL 300	SAPPHIRE 330	SAPPHIRE 440	SAPPHIRE 550	SAPPHIRE 660	SAPPHIRE 770
Chamber Capacity	300 Litres	330 Litres	440 Litres	550 Litres	660 Litres	770 Litres
Vessel Dimensions (mm)	510w x 510h x 1030d	670w x 670h x 745d	670w x 670h x 936d	670w x 670h x 1099d	670w x 670h x 1274d	670w x 670h x 1455d
Overall Dimensions (mm)	830w x 1800h x 1450d	980w x 1930h x 1530d	980w x 1930h x 1530d	980w x 1930h x 1530d	980w x 1930h x 1750d	980w x 1930h x 1900d



Crystal 300 square chamber



Sapphire square chamber

Every-Load Sterilization Assurance Consumables & Verification Kits

Products

- **Bowie-Dick Test Packs (BD-1XECS):** Single-use diagnostic packs designed to verify absolute pre-vacuum air removal and uniform steam penetration inside dynamic air removal steam autoclaves. Completely free from toxic lead or heavy metals, it conforms strictly to EN 867-4 and ISO 11140-1 Class 2 parameters, shifting sharply from Blue to Pink upon cycle success. Run at 134°C for 3.5 minutes or 121°C for 15 minutes; 20 packs per case, 5-year shelf life.
- **SteriGo™ SCBI Biological Indicators:** Self-contained single-vial validation tubes merging *Geobacillus stearothermophilus* (Cell Line 7953) spores, custom indicators, and inner growth medium. Available in certified 10⁵ and 10⁶ population counts, requiring a brief 24-hour incubation timeline to confirm micro-organism destruction.
- **TST (Time, Steam, Temperature) Strip Integrators:** Advanced internal load chemical monitors marked to ISO 11140-1 parameters. Configured across Type 4 (Multi-parameter), Type 5 (Integrating), and Type 6 (Emulating) configurations to confirm cycle parameter success via dynamic, irreversible color conversions.
- **Chemical Process Labels & Autoclave Tapes:** Self-adhesive batch-tracking labels shifting from Pink to Brown, paired with 19 mm x 50 m White-to-Dark irreversible steam tape (TAP-SCS-E) to easily organize clinical loads.
- **Incubators & Self-Seal Pouches:** 10-well dry-block incubators (ambient to 70°C, ±0.5°C) for reading SteriGo indicators in-house, and EN 868-5 self-seal autoclave pouches with steam and EO indicators in four sizes.



Bowie-Dick test pack



SteriGo biological indicators



GO type 4, 5 and 6 steam indicators



Autoclave indicator tape

MANUFACTURER / SUPPLIER



Excelsior Scientific Ltd (UK)

TECHNICAL DATA

Indicator colour changes and catalog codes

Type 4 Indicator

TST-4SE

 PURPLE TO GREEN

Multi-parameter strip converting dynamically from Purple to Green upon successful exposure to steam at 134°C for 3.5 minutes or 121°C for 15 minutes.

Type 5 Integrator

TST-5SE

 BLUE TO BLACK

High-tier integrating monitor responding to the aggregate lethality of time, steam, and temperature, transitioning from Blue to Black at 121°C for 20 minutes or 134°C for 4 minutes.

Type 6 Emulator

TST-6SE

 BLUE TO PINK

Ultra-precise cycle-specific emulation strip shifting sharply from Blue to Pink upon exposure to steam at 121°C for 15 minutes or 134°C for 3.5 minutes.

Chemical Process Indicator Dots

CPI-S01E · CPI-S02E

 PINK TO BROWN

ISO 11140-1 Type 1 self-adhesive 12.7 mm dots for various types of autoclave load, with a 3-year shelf life. The label colour indicates at a glance whether or not the product has gone through the process, turning from Pink to Brown after exposure to 121°C for 3–10 mins, or 134°C for 0.5–2 mins.

Steam Autoclave Indicator Tape

TAP-SCS-E

 WHITE TO DARK STRIPES

19 mm x 50 m tape with an irreversible White to Dark stripe transition. Can be written on. 12 rolls per pack, 3-year shelf life.



GO type 4, 5 and 6 steam indicators



Autoclave indicator tape



Indicator labels

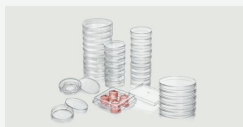
PART C

Certified Clinical In-Vitro Diagnostics (IVF Consumables)



Products

- **Medical-Grade IVF Culture Dishes:** Centre-well culture dishes, four-well plates, and 35, 60 and 90 mm dishes for embryo culture, droplet culture, freezing and thawing. Registered as medical devices (GDMDR 20232181838), made under ISO 13485 and GMP, and third-party tested as non-embryotoxic, non-pyrogenic, non-cytotoxic and non-genotoxic.



IVF culture dishes and four-well plate

MANUFACTURER / SUPPLIER



Jet Biofil (Guangzhou Jet Bio-Filtration Co., Ltd)

Clinical Centrifuges

Benchtop centrifuges for blood, haematocrit, cytology, and routine clinical sample preparation, with adaptors for Vacutainer, Vacuette, and Monovette blood collection tubes.

MANUFACTURER / SUPPLIER



Excelsior Scientific Ltd (UK) · Pharma+ benchtop centrifuge range

CENTRIFUGES

Pharma+ Centrifuge Range



Designed by analytical chemists and laboratory scientists, with over 25 years of centrifuge manufacturing behind it. Capacities run from micro to 4 litres, all with bright blue touch screen LCD displays and ω^2t as standard for full run repeatability. All centrifuges and rotors carry a 2-year warranty.

- **Through Flow Air System:** keeps samples and motor cool in ambient models, allowing longer run times.
- **Dynamic Efficiency Control refrigeration:** compressor hot-gas bypass with PID valve control holds set temperature to 0.5°C, compared with 3.5°C for on/off controlled competitors, while cutting power use by 25%.
- **Rotors built for chemical resistance:** salt-saturation tested stainless steel bowls, CNC-machined polypropylene fixed-angle rotors, and double-anodised aircraft-grade aluminium swing-out and high-speed rotors.
- **Operator features:** rotor recognition, 10 acceleration and 10 deceleration rates, 99 program memory, pulse short run, speed in rpm or RCF in 1 rpm steps, sound below 60 dB.
- **Safety:** multi-point lid locking, emergency lid release, lid lock and imbalance detection, overspeed sensor, barrier ring, and motor overheat sensor.
- **Class 3 containment:** hermetically sealable rotor buckets are available for work in Class 3 containment areas.



Pharma+ centrifuge with touch screen



Pharma+ centrifuge, lid open

K1015E / K1015RE Microtube Centrifuges



High-speed micro centrifuges in ambient and refrigerated versions.

- **Applications:** micro rotors for 0.2, 0.4, 0.5, 1.5, 2.0, 2.2 ml and PCR strips; haematocrit (PCV) rotor for capillaries and 2.0 ml tubes; fixed-angle rotors for 5 to 15 ml tubes; swing-out rotor for 2 to 5 ml tubes.



K1015E microtube centrifuge

SPECIFICATION	K1015E	K1015RE
Speed	500–15,000 rpm	500–15,000 rpm
Max RCF	22,000 G	22,000 G
Temperature	Ambient	-20°C to +40°C, PID ±1°C
Dimensions HWD (mm)	280 × 240 × 360	320 × 280 × 575
Weight (without rotor)	12.8 kg	41.8 kg
Power	125 W	575 W
Memory	99 programs	99 programs

K2015E / K2015RE Centrifuges



Compact general-purpose centrifuges with cytology and microplate options.

- **Applications:** micro rotors 0.2 to 2.2 ml and PCR; haematocrit (PCV) rotor; fixed-angle rotors for 15 and 50 ml tubes; swing-out rotor for 0.5 to 125 ml tubes; cytology rotors in 4, 8 or 12 place (double holder).
- **Swing-out rotor BRK5506E:** 4 × 125 ml, 4,000 rpm / 2,200 RCF, with adaptors for Monovette, Vacuette, Falcon, and Nalgene tubes.



K2015E ambient centrifuge



K2015RE refrigerated centrifuge

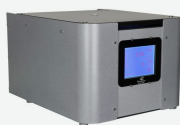
SPECIFICATION	K2015E	K2015RE
Speed	500–15,000 rpm	500–15,000 rpm
Max RCF	22,000 G	22,000 G
Temperature	Ambient	-20°C to +40°C, PID ±1°C
Dimensions HWD (mm)	320 × 350 × 470	325 × 360 × 610
Weight	22.8 kg	45.8 kg
Power	175 W	575 W

K241E / K241RE Medium Prime Centrifuges (1 L)

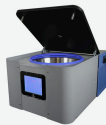


Mid-size benchtop centrifuges reaching 24,000 G.

- **Applications:** micro rotors 0.2 to 2.2 ml and PCR; haematocrit (PCV) rotor; fixed-angle rotors for 15 and 50 ml tubes; swing-out rotor for 0.5 to 250 ml tubes.
- **Swing-out rotor BRK1001E:** 4 × 250 ml buckets (1 litre), 4,000 rpm / 2,650 RCF, with adaptors for blood collection tubes, Falcon, and Nalgene/Oakridge tubes.



K241E medium prime centrifuge



K241RE refrigerated centrifuge

SPECIFICATION	K241E	K241RE
Speed	500–15,000 rpm	500–15,000 rpm
Max RCF	24,000 G	24,000 G
Temperature	Ambient	-20°C to +40°C, PID ±1°C
Dimensions HWD (mm)	340 × 400 × 520	330 × 435 × 650
Weight	25.8 kg	57.8 kg
Power	275 W	625 W

Rotor Selection Guide



Fixed-angle rotors spin samples down fastest; swing-out rotors suit separations that need a flat pellet or layer. Rotors are autoclavable at 121°C.

ROTOR	TYPE	MAX SPEED	MAX RCF	FITS
BRK5424E	Fixed, 24 × 2 ml	15,000 rpm	22,000 G	All models
BRK5401E	Haematocrit, 24 capillary + 12 × 2 ml	13,000 rpm	15,800 G	All models
BRK5248E	Fixed, 48 × 2.2 ml	15,000 rpm	24,000 G	K241, K242, K243, K2FS4
BRK5208E	High speed fixed, 8 × 50 ml	10,000 rpm	13,400 G	K242, K243, K2FS4
BRK5256E	High speed fixed, 6 × 250 ml	10,000 rpm	15,650 G	K2FS4
BRK5540E	Microplate, 4 standard or 2 high plates	3,500 rpm	2,500 G	K2015RE, K241, K242, K243, K2FS4
4460E	Cytology, 12 × 0.2–6 ml	2,000 rpm	550 G	K2015
BRK5506E	Swing-out, 4 × 125 ml	4,000 rpm	2,200 G	K2015
BRK1001E	Swing-out, 4 × 250 ml	4,000 rpm	2,650 G	K241
BRK3000E + B2001E	Swing-out, 4 × 500 ml	4,000 rpm	3,600 G	K242
BRK3000E + B3001E	Swing-out, 4 × 750 ml	4,000 rpm	3,600 G	K243
BRK3000E + B4001E	Swing-out, 4 × 1,000 ml	4,000 rpm	4,500 G	K2FS4

Incubation & Cold Storage

Laboratory incubators and freezers for clinical microbiology, sample storage, and biobanking.

MANUFACTURER / SUPPLIER



Excelsior Scientific Ltd (UK) · thermostatic laboratory equipment

THERMOSTATIC EQUIPMENT

CL Laboratory Incubators



Heated incubators from 5°C above ambient up to +100°C, in 15 to 1005 litre sizes, with natural or forced air convection and stainless steel interiors.

- **Applications:** incubation of samples for microbiological examinations, antibody testing, bacterial research, cultivating thermophilic bacteria, crystallisation studies, pharmaceutical stability testing, and thermal resistance of pigments and lacquers.
- **Standard equipment:** USB and RS 232, stainless steel shelves, test certificate at +37°C, open door alarm, and an air flap.



CL laboratory incubator

THERMOSTATIC EQUIPMENT

ILP Peltier-Cooled Incubators



Compressor-free incubators cooled by Peltier elements, from +15°C to +70°C (+100°C in TOP+).

- **Advantages:** quiet, vibration-free operation with no refrigerant, lower weight and power use, and excellent temperature stability and recovery after door opening.



ILP Peltier-cooled incubator

MODEL	ILP 53	ILP 115	ILP 240	ILP 400
Chamber capacity (L)	56	112	245	424
Overall W x H x D (mm)	600 × 710 × 660	660 × 850 × 770	820 × 1140 × 810	1040 × 1380 × 840
Nominal power (W)	400	400	800	800
Weight (kg)	69	90	140	190

THERMOSTATIC EQUIPMENT

ZLN Laboratory Freezers



Freezers from -25°C to 0°C (ZLN 85) and -40°C to 0°C (ZLN-T and ZLW). ZLW models use forced-air "no frost" operation, so they never need manual defrosting.

- **Applications:** long-term storage of samples and biological material, storing easily decomposing material, pre-freezing, and freeze resistance tests of building materials such as concrete and wood.



ZLN laboratory freezer

MODEL	ZLN 85	ZLN - T 125	ZLN - T 200	ZLN - T 300	ZLW 200	ZLW 300
Air convection	Natural	Natural	Natural	Natural	Forced	Forced
Chamber capacity (L)	95	130	210	310	210	310
Temperature (°C)	-25 to 0	-40 to 0	-40 to 0	-40 to 0	-40 to 0	-40 to 0
Nominal power (W)	200	450	470	470	500	500
Weight (kg)	60	90	120	185	120	185

THERMOSTATIC EQUIPMENT

ZLN-UT Ultra-Low Freezers



Ultra-low freezers from -40°C down to -86°C for deep freezing of biotechnological samples, with separate internal solid doors for each compartment and stainless steel drawer racks.

- **Performance:** cools from +20°C to -80°C in 3.5 hours; takes 1.5 hours to warm from -80°C to -60°C after a power failure.
- **Options:** spare controller batteries, alarm output, and an extra port for CO₂ and Pt100 backup.



ZLN-UT ultra-low freezer with drawer racks



ZLN-UT ultra-low freezer interior

MODEL	ZLN - UT 200	ZLN - UT 300
Chamber capacity (L)	237	326
Internal chambers	3	4
Boxes (133 × 133 × 50 mm)	108	144
Test tubes (Ø12.5 mm)	8,748	11,664
Energy use at -80°C (kWh/24 h)	16	18
Overall W x H x D (mm)	850 × 1620 × 950	850 × 1910 × 950
Weight (kg)	180	200

THERMOSTATIC EQUIPMENT

Controllers, Software & Qualification



Every Excelsior thermostatic unit uses a PID microprocessor controller. All products can be supplied with a calibration certificate from an accredited measurement laboratory and with IQ, OQ, and PQ qualification.

- **STD controller:** LCD graphic display, six-segment profiles, 3 user programs, alarms, power failure recovery, and memory for 2,046 data records.
- **TOP+ controller:** 5.7" colour touch screen, up to 100 program segments, 20 user programs, user accounts with login, password-protected settings, 4,100 records per user, USB export, and remote control over Ethernet or the internet.
- **EasyLab software:** EasyLab Basic downloads stored data to a PC free of charge; EasyLab Professional adds continuous logging, charts, reports, and TOP+ programming.



STD microprocessor controller



TOP+ colour touch screen



EasyLab software screen

LOCAL ASSURANCE

Regulatory Clearance, Local Assurance & Contact

Certified Local Quality Assurance & Machinery Safety

- **UAE Compliance:** Viyon Middle East L.L.C ensures that 100% of our distributed machinery, high-pressure vessels, and chemical standard stocks are fully compliant with the regulatory guidelines of the United Arab Emirates.
- **High-Pressure Vessel Authorization:** Rodwell autoclaves operate as precision-engineered pressure systems creating door forces up to 11 tonnes. Viyon manages the mandatory structural safety, validation, and calibration alignments required for local mainland and free zone operations.
- **Industrial Compliance Coordination:** Registered to support direct chemical, petroleum, sterilization, and medical data logistics required by ADNOC Research, free zone safety inspectorates, the Dubai Municipality portal (Montaji parameters), and the Ministry of Health and Prevention (MOHAP).

Request a quotation



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