

6 VIYON MIDDLE EAST L.L.C · SECTOR BROCHURE 6 OF 7

Advanced Aerospace, Automotive & Composite Materials Shops

B2B validation and high-consolidation material curing infrastructure.

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.

280 L

composite autoclave chamber

4

monitored vacuum ports

5

programmable memory sets

545 × 1200 mm

chamber Ø × depth

BRANDS IN THIS BROCHURE



High-Consolidation Infrastructure Machinery



Products

- **Composites Equipment:** DWELL 280 Pro composite autoclaves and stabilized vacuum arrays with built-in electronic leak alarms.
- **High-Consolidation Chamber:** Externally lagged grade 316 stainless steel chamber with iPT touchscreen control for programmable temperature, pressure, and dwell profiles across 5 memory sets.
- **Vacuum Leak Alarms:** Continuous vacuum through up to 4 independent ports, each monitored by built-in leak alarms. Optional built-in Hydrovane air compressor.

MANUFACTURER / SUPPLIER



The Rodwell Autoclave Company (UK)

TECHNICAL DATA

DWELL 280 Pro specifications



MODEL NAME	DWELL 280 (STANDARD FRAME)	DWELL 280 (WITH HYDROVANE COMPRESSOR OPTION)
Chamber Dimensions	545 mm Diameter x 1200 mm Depth	545 mm Diameter x 1200 mm Depth
Chamber Volume	280 Litres	280 Litres
Autoclave Weight	450 kg	520 kg
Packed Export Weight	600 kg	670 kg
Overall Dimensions (mm)	830w x 1800h x 1500d	830w x 1800h x 1500d



DWELL 280 Pro composite autoclave



iPT touchscreen process controller

Thermal, Climatic & Freeze Testing



Ovens, climatic chambers, and freezers for curing, ageing, thermal resistance, life and exposure, and freeze resistance testing of components and materials.

MANUFACTURER / SUPPLIER



Excelsior Scientific Ltd (UK) · thermostatic laboratory equipment

SL Drying Ovens

Drying ovens reaching from 5°C above ambient up to +300°C, with natural (SLN) or forced (SLW) air convection, acid-proof DIN 1.4301 stainless steel interiors, and 0.1°C resolution.

- **Applications:** thermal resistance analysis of building materials and electronic components, ageing and curing, drying of laboratory glass, vulcanization studies, conditioning, digestion of proteins, drying of plant tissues, drug metabolism, life and exposure studies, serum protein analysis, and suspended solids evaluation.
- **Protection:** over-temperature class 2.0 to DIN 12880, with class 3.1 as an option and standard in TOP+.



SL drying oven

MODEL	SL 15	SL 32	SL 53	SL 115	SL 180	SL 240	SL 400	SL 750	SL 1000
Chamber capacity (L)	15	32	56	112	180	245	424	749	1005
Overall W x H x D (mm)	510 × 550 × 440	590 × 630 × 500	590 × 700 × 600	650 × 850 × 700	650 × 1030 × 760	810 × 1200 × 760	1010 × 1430 × 750	1260 × 1600 × 850	1260 × 2000 × 850
Nominal power (W)	600	1100	1600	2400	2400	3000	3900	5400	5400
Weight (kg)	27	35	50	65	94	126	174	260	330

SLWP Pass-Through Ovens

Forced-convection ovens with doors on both sides, up to +300°C, holding $\pm 0.5^\circ\text{C}$ at 105°C.

- **Use:** moving dried or heat-treated material between rooms, such as from a preparation area into a clean area, without opening a shared door.

MODEL	SLWP 115	SLWP 240	SLWP 1000
Chamber capacity (L)	112	245	997
Overall W x H x D (mm)	655 × 885 × 700	815 × 1180 × 815	1106 × 1716 × 965
Nominal power (W)	2400	3000	5600
Weight (kg)	65	126	350

THERMOSTATIC EQUIPMENT

KK Climatic Chambers & Phytotron (FIT)



Chambers that hold temperature from -10°C to +60°C and humidity from 30% to 90% RH, with optional day/night lighting (FIT phytotron system) up to 15,000 lux per shelf. TOP+ control with a 5.7" colour touch screen and Ethernet remote control.

- **Applications:** photostability tests, drug metabolism, life and exposure studies, tests of building materials, food preservation experiments, plant and fungus growing, seed germination, microorganism and insect breeding.
- **Standard equipment:** double door (solid outside, glass inside), USB and RS 232, stainless steel shelves, deionised water and waste water containers, open door alarm, 30 mm access port, and a test certificate at 25°C and 60% RH.
- **Protection:** over-temperature class 3.3 to DIN 12880.



KK climatic chamber



KK climatic chamber with phytotron lighting

MODEL	KK 115	KK 240	KK 350	KK 400	KK 500	KK 700	KK 750	KK 1200	KK 1450
Chamber capacity (L)	112	245	335	424	493	625	749	1365	1467
Working capacity (L)	112	245	335	424	386	450	749	1229	1307
Temperature (°C)	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60
Humidity (% RH)	30-90	30-90	30-90	30-90	30-90	30-90	30-90	30-90	30-90
Nominal power (W)	1000	1500	1400	2000	1600	1600	2500	2200	2200
Weight (kg)	90	140	125	185	130	170	275	220	230

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

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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