

- Maximum reliability.
- High precision in regulation and control by PLC and P.I.D.
- Maximum accuracy in testing.
- Low energy consumption.
- Low noise.
- Easy to use.











Angelantoni Life Science (ALS), a sub-holding fully owned by Angelantoni Industrie, is one of the leading international companies in the supply of refrigerating equipment and the design of technological solutions in the biomedical industry, with a constant commitment to biological and environmental innovation and safety.

Research centers, hospitals, laboratories, universities and industrial companies in the pharmaceutical and chemical industry are the recipients of ALS production, which covers all the needs for refrigeration, infection control and microbiological safety with a wide range of standard and special products. With its agents and distributors in over 40 countries, Angelantoni Life Science is the ideal partner in the healthcare sector and scientific research.

Our strength comes from the skills of our engineers and the experience they have gained in design, from the professionalism of our technicians in production and service and the coordination of experienced managers supporting our staff.

Each team member contributes their enthusiasm and scientific and industrial knowledge to a work environment that stimulates innovation and development. Angelantoni Life Science invests more than 10% of its turnover in Research and Development, involving a multidisciplinary team of technicians and researchers.

Founded in 1932, Angelantoni Industrie is an industrial group with 4 plants and over 500 employees. It is one of the world's leading companies in the production of environmental and space simulation chambers (ATT Angelantoni Test Technologies), cold technology applications in pharmaceutical and hospital research (ALS Angelantoni Life Science), Energy Efficiency (Turboalgor) and Solar Thermodynamic Energy (Archimede Solar Energy receiver tubes).



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Life Science Business Unit AS - Biomedical Equipment Division

Stability test and plant growth chembers EKOCT - EKOCTL - EKOCH - EKOCHL Series







Life Science Business Unit\_AS Division
Stability test and plant growth chambers
EKOCT - EKOCTL - EKOCH - EKOCHL Series

→ Professional Line

## Technical features







Structure /Zinc plated steel to ensure durability.

Internal chamber with rounded corners for easy cleaning and a bottom section able to contain liquids that are accidentally spilt.

EKOCHL and EKOCTL models are provided with high density fluorescent lamps mounted on the side walls.

The available light is 20.000 lux, at a distance of 150 mm. from inner glass walls. Mounted on castors for easy moving and adjustable feet for proper positioning.

**Door** /Made with the same features of the frame, equipped with a magnetic lock, odorless rubber gaskets and anti-moisture resistor on the door.

Mechanical door lock at 90°, to facilitate the loading and unloading of samples.

Key lock to preclude access by unauthorized personnel.

Inner door in tempered glass, to guarantee the preservation of the content during door opening.

**Port hole** /Diameter 23 mm, with rubber cap for the insertion of additional probes. **Shelves** /Stainless steel internal shelves adjustable in height.

Internal lamp / Door open courtesy light.

**Insulation** /Injected CFC-free foamed polyurethane. The 75 mm thickness offers a significant energy saving.

**Cooling system** /Fully sealed, placed on the top side of the cabinet, achieved by the use of a low noise hermetic compressor and air condenser.

Copper pipes evaporator. Inner ventilation.

**Humidification system (EKOCH and EKOCHL)**/By a low-pressure steam generator equipped with demineralised water boiler.

**Adjustment and control system** /All models are equipped with a digital P.I.D. regulator for **temperature** adjustment and control through a PT100 probe in Class A. EKOCH and EKOCHL models have an additional P.I.D. regulator to control **relative humidity** through a capacitive probe.

EKOCHL and EKOCTL features weekly mechanical timer located on the control board of the chamber to control **lamps on/off** (intensity: OFF 0 Lux; ON 20.000 Lux)).

On request /Regulators and timer can be replaced by an electronic programmable controller (PLC) that allows the execution of humidity, temperature and lighting cycles (daylight/sunrise/sunset simulation).



W 11		EKO	EKOCT						
Model	700	1500	900P	1500P	700	1500			
Comercial code	12880	12881	13379	13383	12871	12873			
Capacity (I)	700	1500	900	1500	700	1500			
Temperature range (°C)	-10°C / +60°C				+10°C / +50°C				
Dewpoint (°C)		+5	/						
Relative humidity (%)		20	1						
Humidity precision(%)		-/	/						
Supply voltage (V)	230v(+6 / -10%) 50-60 Hz 1+T(G)								
Maximum absorbed current (A)		1	8	9					
Cooling gas	R13	54A	R452A		R134A				
External dimensions (mm)	740(L)×940(P)×2020(H)	1480(L)×940(P)×2020(H)	810(L)×1135(P)×2020(H)	1480(L)×940(P)×2020(H)	740(L) × 815(P) × 2020(H)	1480(L)×815(P)×2020(H)			
Internal dimensions (mm)	590(L)×600(P)×1500(H)	1330(L)×600(P)×1500(H)	660(L)×800(P)×1500(H)	1330(L)×600(P)×1500(H)	590(L)×600(P)×1500(H)	1330(L)×600(P)×1500(H)			
Overall weight with standard packaging (Kg)	180	270	210	270	180	270			
Noise level (dbA)			<	65					

W 11	EKOCHL					
Model	700	1500	900P	1500P		
Comercial code	12884	12885	13413	13302		
Capacity (I)	700	1500	900	1500		
Temperature range (°C) with lights on	+10°C / +50°C					
Temperature range (°C) with lights off	+10°C / +50°C		-10°C / +60°C			
Dewpoint (°C)	+5°C					
Relative humidity (%)	20/90					
Intensity light (lux)	0 / 20.000					
Humidity precision (%)	+5					
Supply voltage (V)	230v (+6 / -10%) 50-60 Hz 1+T(G)					
Maximum absorbed current (A)	20					
Cooling gas	R134A		R452A			
External dimensions (mm)	840(L)x940(P)x2100(H)	1580(L)×940(P)×2100(H)	910(L)×1135(P)×2100(H)	1580(L)×940(P)×2100(H)		
Internal dimensions (mm)	590(L)x600(P)x1500(H)	1330(L)x600(P)x1500(H)	660(L)×800(P)×1500(H)	1330(L)×600(P)×1500(H)		
Overall weight with standard packaging (Kg)	190	280	220	280		
Noise level (dbA)	< 65					





<sup>→</sup> Illustration, description and technical data may be changed without notice.