



Compact

climatic
and thermostatic
chambers

Small, powerful and fully equipped



ACS Compact Test Chambers provide high performances in limited space. Small footprint, easy installation, low power consumption, low noise level and full basic features including the inspection window, make these chambers the ideal choice. A compact unit easy to be installed in any R&D Department capable of testing small components and products.

	MODEL	DY16 T	DY60 T(C)	DY110 (C) ¹	DY200 (C) ¹
Useful capacity (l)		16	59,5	110	206
Internal dimensions approx. (mm)	Width	310	350	548	601
	Depth	230	340	447	541
	Height	206	500	447	634
External dimensions approx. (mm)	Width	465	630	877	927
	Depth	541	970	1080	1379
	Height	685	1180	1434	1794
Temperature range (°C)	Basic	-35...+130	-40...+180	-40...+180	-40...+180
	C model		-70...+180	-70...+180	-70...+180
Temperature fluctuation (K)		±1	±0.1...±0.3	±0.1...±0.3	±0.1...±0.3
Temperature changing rate Heating ⁴⁺⁵ (K/min)	Basic (-40/+180°C)	4,5 (-35/+130°C)	3	3,2	4
	C model (-70/+180°C)		3	3,2	4
Temperature changing rate Cooling ⁴⁺⁵ (K/min)	Basic (+180/-40°C)	3,5 (+130/-35°C)	3	4	4,5
	C model (+180/-70°C)		3	2,8	3
Humidity range (%) (τ=-3/+93°C) ²				10...95	10...95
Temperature range for climatic test (°C)				10...95	10...95
Humidity fluctuation (%)				±1...±3	±1...±3
Maximum thermal Load (W) ⁵	Basic T=+25°C	250	250	350	2300
	C model T=+25°C		250	500	1500
Rated power (kW)	Basic	0,7	2,0	3	6
	C model		2,3	3,7	7
Rated current absorption (A)	Basic	4	9	16	10
	C model		11	16	12
Weight (kg)	Basic	60	210	350 ⁶	485
	C model		230	360 ⁶	545
Sound pressure level dB(A) ³	Basic	52	57	52	53
	C model		59	52	59
Supply voltage (Vac)		230V ±10%/50Hz/1 + G			400 V ±10%/50Hz/3 + N+ G

1. for Temperature only version add the suffix T - 2. τ= +4°C/+93°C for continuous test - 3. measured at 1 m distance in front of the unit, free field measurement - 4. according to IEC 60068-3-5 and IEC 60068-3-6 - 5. The performance data refer to +22°C ambient temperature, 230V or 400V nominal voltage, without specimen - 6. value without supporting table



The Compact Test Chambers are equipped with the powerful KeyKratos Plus touchscreen control system, based on PID control through PLC, having the following advanced features:

- **Memory capacity to 1000 cycles** with 350 segments.
- **Unlimited real time recording of temperature and humidity** versus time (LOG).
- **A trend chart for recorded variables** available with a scale from -100/+200.
- **Messages on scheduled maintenance activities.**
- **Synoptic graphs for the chamber,** low and high stage refrigeration.
- **Data saved in CSV format (Comma Separated Value) for easy export to Excel®** (only for 110 and 200 l) via USB interface located on front panel (program files are easily convertible into graphic format).

Multi-chamber remote control is available as option together with WinKratos S/W.

All models require just a single-phase electrical supply, except for 200 l chamber running on 3-phase power. Models 16, 60, 110 l fit easily on a laboratory's counter top. Model 110 l can also be supplied with an optional supporting table with wheels (see picture above).

Basic Configuration

- Control by PLC and "**KeyKratos Plus**" touchscreen on the door
- Inspection window
- No. 1 internal grid shelf (for 60, 110 and 200 l)
- Air condenser
- Internal light
- No. 1 porthole
- Min/max digital thermostat with independent probe (optional for 16 and 60 l)
- No. 1 auxiliary free contact
- Ethernet port
- RS232 serial interface

Options

- Additional portholes
- UV lamp (only for 110 and 200 l)
- Internal shelves (only for 110 and 200 l)
- Set of no. 4 analogic inputs
- Set of no. 4 PT100 inputs
- Set of no. 8 auxiliary contacts (no. 2 for 16 and 60 l)
- No break power unit for PLC
- Specimen switching off in case of chamber alarm (only for 110 and 200 l)
- T e RH analogic retransmission

- Supporting table with wheel (only for 110 l)
- Software Winkratos for single and multi-chamber control



Angelantoni
MORE THAN YOU THINK



Angelantoni Test Technologies, owned by the **Angelantoni Group**, is the only company capable of offering a comprehensive range of environmental test chambers, **ACS** branded, for a great variety of applications, thanks to the expertise and technical know-how of its teams of experts. Innovation, flexibility and organization have always been the keys to success for ACS, world-famous since 1952 also for its high-tech test equipment such as Thermal High Vacuum Chambers for Aerospace applications and Calorimeters.

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