



# TESCOR

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## COMPRESSOR ENDURANCE TEST BENCH

Compressor Endurance and Life Cycle Test Stands are designed for long-term, reliable operation. They are designed for continuous duty over long time periods to allow endurance testing of compressors at extreme conditions. Systems can be designed to test one compressor or multiple compressors. The test stands can be supplied with manual controls up to fully automated computerized data acquisition and control systems. Tescor's Endurance and Life Cycle Test Stands are custom designed for automotive or hvac compressor applications.



### *Automotive A/C Compressor Endurance Test Stand Typical Specifications:*

PARAMETER	UNITS	CONTROL RANGE	STABILITY
Discharge Pressure	Psia	145 to 600	± 2
	Kpa	1000 to 4200	± 14
Suction Pressure	Psia	0 to 100	± 0.2
	kPa	0 to 700	± 1.4
Suction Temperature	°F	-15 to 100	± 0.2
	°C	-25 to 35	±0.1
Compressor Chamber Temperature	°F	Ambient to 250	± 3.6
	°C	Ambient to 120	±2
Compressor Speed	RPM	800 to 12,000	± 0.05% FS
Clutch Cycling	--	ON/OFF	--
Clutch Voltage	Volts	0 to 40	± 0. 2

- Refrigerants Tested: R-12, R-134a



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*HVAC Compressor Endurance Test Stand Typical Specifications:*

PARAMETER	UNITS	RANGE	STABILITY
Discharge Pressure	Psia	90 to 600	± 2
	Kpa	620 to 4200	± 14
Suction Pressure	Psia	15 to 100	± 0.2
	kPa	100 to 700	± 1.4
Suction Temperature	°F	-15 to 100	± 0.2
	°C	-25 to 38	±0.1
Compressor Chamber Temperature	°F	Ambient to 130	± 3.6
	°C	Ambient to 55	±2
Compressor Voltage	Volts	0 to 300	± 0.25% FS

- ❑ Refrigerants Tested: R-12, R-134a, R-404a, R-407C, R-410a, R-507, R-600a
  
- ❑ Software
  - Create Tests And Sequences for Automatic Operation
  - User configurable data acquisition channels
  - User configurable calculation channels
  - Loop Calibration Utility
  - Dedicated hardware checkout routine
  - Color coded stability status indicators
  - Stability tolerance adjustment on the fly
  - Time-history graphing capability
  - Automatic Test Report Generation
  - Data File Management and Search Tools



Note: The specifications shown above are typical. Tescor can customize your system to provide the performance that you require.

Tescor manufactures a full line of Climate Control Test Equipment for the Automotive and HVAC marketplace including the following: *A/C System Calorimeters, Surface Calorimeters, Clutch Test Stands, Compressor Noise Test Benches, Compressor Audit Benches, Psychrometric Test Rooms, Balanced Ambient Calorimeters, Compressor Slug Test Benches, Air Flow Code Testers, and Environmental Test Chambers.*