

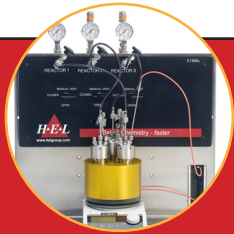



CATalyst Screening Products COMPARISON TABLE

	 CAT 7 CAT 18 CAT 24	 PolyCAT	 DigiCAT	 CAT 96
Operating Method	Manual	Automatic	Manual or Semi-Automatic	Semi or Fully Automatic
Test Conditions	Same temperature & pressure for each sample vial	Separate temperature and pressure for each reactor	Same temperature but individual pressure for each reactor	Same temperature & pressure for each sample vial
No. Of Samples	Parallel: 7, 18 or 24	Parallel: 4 / 8 individually controlled reactors	1 to 3 (depending on size)	Parallel: up to 96
Max. Pressure	100 bar	200 bar	200 bar	35 bar
Max. Temperature	250 °C	250 °C	300 °C	200 °C
Reactor Volumes	CAT7 (7 x 10 ml vials) CAT18 (18 x 2 ml vials) CAT24 (24 x 2 ml vials)	16 ml - 120 ml reactors	16 ml to 300 ml reactors or CAT 7, CAT 18, CAT 24	96 x 1 ml vials
Stirring Methods	Hotplate (not supplied)	Integrated	Hotplate (included)	Integrated
Stirrer Type	Magnetic Flea	Magnetic Flea, *suspended or overhead	Magnetic Flea, *suspended or overhead	Magnetic Flea
Device Description	A single pressure vessel which allows the use of vials with a typical test volume of 2 to 10 ml. Simple and inexpensive system for rapid screening.	4 or 8 totally separate reactors allowing the effect of temperatures & pressures to be determined. Computer controlled system for process development and catalyst screening.	Based around a digital stirrer/hotplate on which 1 to 3 small reactors can be placed. CAT 7, CAT 18, CAT 24 can also be used. Simple but flexible platform for catalyst screening with reactors or CAT 7, CAT 18, CAT 24.	A custom chamber designed to take standard Zinsser blocks with magnetic stirring. Much higher throughput than the CAT 7, CAT 18 or CAT 24 - but otherwise similar in principle.

* "Suspended" stirring uses conventional mechanical impellers without overhead motors, suited to low viscosity liquids