

Instron AC-03-XXXX series hydraulic power units are the efficient power sources for the servo hydraulic test systems. The added features contribute to long fluid life, optimum system performance and convenient system operation. These power packs are equipped with gear pumps or variable displacement pumps as required, that result in a remarkable improvement of energy efficiency and lower noise levels. These unique features result in lower operational costs and “greener” environment.

Standard features

- Energy efficient and quiet pumps
- Contamination insensitive hydraulics
- Industry standard sealing for leak free operations and long life
- Run on demand PLC/ PLI control with digital display of pressure, temp, hours, frequency, current etc.
- Auto flow control according to the demand from the test under progress
- Piping interfaced manifolds
- Easy access for maintenance
- Dump valves
- Flexible hydraulic hose connections
- Low maintenance cost
- Rated pressure – up to 210 bar with safety cut off at 230 bar
- Water oil heat exchangers, plate / tube
- Local or remote control
- Solenoid controlled Low/High pressure operation
- Accumulators for pulse free flow
- Rated to operate under wide range of temperatures
- Rated to work in unprotected shop floor environment
- Manifold and hoses of standard 5mtr
- Super clean Mobil DTE 25 or equivalent grade for long life & efficient delivery



Safety features

- Sensor for monitoring oil temperature and cut off in the event of oil temperature exceeds set value
- Level sensor to monitor oil level and shutdown in the event of low oil level
- Oil level indicator to indicate oil level in the tank
- Filter clogging to monitor the cleanliness of the filter cartridge
- Phase failure monitor to monitor any phase / power failure
- Motor overload safety interlock to protect the motor from over currents
- Motor over temperature safety interlock
- Software interlock features
- Low / high pressure cut off

Optional features

- High level filtrations down to 2 microns
- Variable displacement pump to meet specific requirement
- High temperature power packs
- Run on demand other control system
- Sound proofing with acoustic enclosures for noise level $\leq 65\text{dB @ 1 mtr}$
- Cooling towers for hydraulic oil cooling
- Refrigeration based chiller units for hydraulic oil cooling
- Radiator based air blast cooling unit for oil cooling
- Hydraulic service manifolds for multiple system usage
- Hard piping supply and installation
- Manual / Electrically controlled hydraulic sub-stations
- Star-Delta starter / soft starter
- Software interlock features
- Optional pressure rating up to 280 bar

Specifications

Model Number	Power Pack Flow, LPM	Tank Capacity, Liter	Power Rating, kW	Cooling Tower, TR
AC-03-0004	4	75	1.5	N/A
AC-03-0011	11	200	5.5	5
AC-03-0021	21	200	11	10
AC-03-0040	40	200	18.5	25
AC-03-0065	65	200	30	30
AC-03-0090	90	360	45	30
AC-03-0130	130	480	60	40
AC-03-0180	180	700	90	40
AC-03-0250	250	1500	110	50
AC-03-0500	500	2000	200	60

Note: Specification might change without prior notification