

MF100-ACC

ACCUMULATOR MODULE

DESCRIPTION:

The MF100 series simulators are designed to grow with your training needs and your training budget.

The MF100-ACC Accumulator Module is just one of the many modules which can be added to the MF100 series simulator to increase its already impressive teaching and learning capability.

Combined, the components on the Accumulator Module and the MF100 series simulators allow instructors to teach, and students to learn, all facets of accumulators and accumulator circuits, which includes:

- General accumulator safety
- How to safely charge an accumulator bladder with nitrogen
- How an accumulator works
- Typical accumulator applications:
 - Unload fixed-displacement pump at nominal pressure
 - Assist pump flow
 - Maintain pressure on a stalled actuator
 - Cushion shock

FPT™'s training modules are easy to install and integrate seamlessly into any mainframe series simulator. They also feature the same aesthetics and exceptional durability as the renowned mainframe simulators. In addition, they are very affordable.

The accumulator module consists of the following components:

1. 1-quart, bladder-type accumulator with safety cover.
2. Differential pressure unloading valve with internal safety relief valve.
3. Safety bleed-off valve.
4. Glycerine-filled, Bourdon tube type pressure gauge - 0-1,000 PSI (0-69 bar).
5. Stainless steel tubing with Swage-Lok®-type stainless steel connectors.



6. Aluminum, self-contained cabinet with removable back cover finished with a durable powder-coat.
7. Anodized, brushed aluminum front-plate with screen-printed identification symbols.
8. Integrated drip-tray with Dri-Dek mat, and oil drain (oil drains into mainframe drip tray where it returns to the reservoir).
9. Warning signs on accumulator and face-plate.
10. All components are fitted with high-quality, flat-face, quick-connect/disconnect valves.

FPT's simulator design philosophy is simple: make the "hands-on" learning experience "real-time" rather than "simulated," and NEVER alter component port identification for the purpose of teaching or learning.

This approach makes the transition from the classroom to the workplace seamless and, more importantly, safe!



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The following items are included with the MF100-ACC Accumulator Module:

- Accumulator charging kit, which consists of charging gauge and charging hose assemblies
- Full-color PowerPoint™ presentation in CD format (PC & Mac compatible)
- Student workbook featuring simulator activities
- Instructor's manual

Exceptional quality and durability -

When we say "handcrafted with pride in America," we mean it! Simulators built by FPTI™ will add class to any classroom, and will provide years of trouble-free operation.

- FPTI™ uses only the very best materials.
- All painted components are finished in high-quality, powder-coat for exceptional durability
- Front plates are brushed and anodized
- All markings and symbols are applied using state-of-the-art imaging and an exceptionally durable application process
- All welding conforms to industry standards and welds are made by certified welders
- To enhance safety, all components are designed and positioned to minimize oil dripping to the floor
- Self-contained oil-drip trays are designed to eliminate unsightly accumulation and the ritual of daily clean-up. Trays have drains, which route oil directly to the reservoir
- All quick-connect/disconnect valves are equipped with flat-face style connectors to reduce the amount of oil drip during connecting of hoses
- Stainless-steel tubing is used exclusively on all hard lines and all tube connectors are flareless Swage-Lok®-type

Shipping Specifications:

Shipping weight: 25 lbs. (29.5 kgs.)
Shipping dimensions: 25" tall x 17" wide x 8" deep
(635mm x 432mm x 203mm)

Safety is the nucleus of FPTI™'s simulator design - Classrooms must be incubators for a safe workforce. FPTI™ simulators are designed to operate safely, and to teach students how to work safely with hydraulics.

Here are some of the MF100 simulator's impressive safety features:

Component port markings - All oil entry/exit ports on components are marked in accordance with the respective manufacturers markings - either letters or numbers.

International symbols - All components are identified with their respective international symbols, which meet ANSI (American National Standards Institute) standards.

Minimize oil spillage - When quick-connections are made, there is usually a small amount of leakage. It is important to keep the leakage off the floor to avoid potential slip hazards.

Oil containment is essential to good simulator design. The MF100 series simulators feature drains, which are located on either side of the oil drip-tray. The drains prevent a build-up of oil while the simulator is in use.

The Accumulator Module has an integrated drip tray with a drain, which allows the leakage to drain into the tray on the mainframe simulators.

Accumulator safety valve - It is possible for a student, while learning, to inadvertently trap stored energy in the accumulator due to an error in assembly.

Without a safety bleed-off valve, there would be no safe way to remove the trapped energy. To avert a hazardous situation, the accumulator module is equipped with a safety bleed-off valve.



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