



Preferred Specifications

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150-70-DS

Modular Slide-In CAFSystem

150-70-DS shall be a slide-in, modular, portable compressed air foam unit designed and constructed to discharge water, foam solution or compressed air foam. The system shall develop a minimum of 150 GPM of water at 150 PSIG (567 L/min @ 10 bar) and 70 CFM of air at 125 PSIG (1.13 m³/min @ 8.6 bar). The 150-70-DS develops 140 GPM and 70 CFM @ 125 PSI (532 l/min and 1.97 m³/min @ 8.6 bar) simultaneously. The 150-70-DS shall also feature compressed air for pneumatic tools, The unit shall come with a Rand 70 sCFM compressor, and Aquis™ foam proportioner, and electric auto-sync balancing system. It shall be available with an optional Operator Interface Terminal (OIT).

This system shall be equipped with a Waterous CPD-2 centrifugal water pump utilizing an aluminum case, double-hubbed bronze impeller, stainless steel shaft and maintenance-free mechanical seal. It shall come with a 3-inch NPT intake and 2-inch NPT discharge. It shall come with a Venturi Primer with electric activation switch and a poly chain drive transmission with an automatic tensioner and 8mm pitch sprockets.

The system shall be powered by a Kohler, Model KDI903TCR, three-cylinder, air / oil cooled, delivering a maximum of 49 horsepower (36.5 kW), four-cycle, diesel fueled. The engine shall come with a three (3) year manufacturer's warranty. The engine shall draw fuel from a fuel tank (not supplied) via a pulse fuel pump. There shall be a pressure lube system with spin-on oil filter. An extension hose is installed on the engine oil drain with a valve located at the oil pan and a plug installed in the end of the hose to facilitate oil changes. It shall come with a 12 or 24-volt electric with 80A alternator, electric ignition and start switch along with a spark arrestor muffler.

The frame of the unit shall be made of high-strength, steel.

The system shall come with an oil-filled, rotary screw air compressor, sized to supply a minimum of 70 scfm (1.92 m³/min) of usable air. The unit shall come with an air compressor is controlled by the pneumatic modulation inlet valve mounted on the air end. It shall control air delivery while maintaining constant pressure. The unit shall come with an auto sync balancing system which automatically maintains the air pressure within +/- 5% of the water pump pressure throughout the pressure range. The auto sync balancing system is located on the operator's panel and allows for the following modes:

- Automatic – Air pressure matched to water pressure
- Fixed – Air pressure defaults to manual setting on compressor mounted control valve
- Unload – Air pressure reduced to 40 psig (2.8 bar) for standby operations

The system shall come with a spin-on, full-flow oil filter unit is part of the system to control oil flow to the cooler. All lines are routed in braided hose conforming to SAE 100R1 standards for hydraulic hose. The unit shall be equipped with a modular air / oil separator and air compressor cooling system. The air compressor shall be cooled by a 12 or 24 V electric / air fan type cooler. The system shall maintain recommended operating temperatures throughout the full operational range in ambient temperatures up to 115°F (46.1° C)

All air hoses, fittings and piping with the unit are rated to a minimum of 250 psi (17.5 bar). Air line fittings are constructed of brass, bronze or steel. Stainless steel or brass check air valves are utilized at all air injection points to prevent water back flow into the air lines. All hoses shall be secured to the frame with insulating clamps and located away from any heat sources.

The system's plumbing shall come with inlet piping 3-inch with 2.5-inch tank to pump stainless steel pipe. The unit shall have plumbing to two panel mounted 1.5-inch discharge outlets incorporate a stainless steel manifold, welded stainless steel pipe. All discharge plumbing is designed and tested to a minimum of 500 psig (34.5 bar) burst pressure. The unit shall come with panel mounted drain valves are provided to drain water from the water pump, discharge manifold and compressor colder.

The system shall be equipped with Waterous Aquis™ foam proportioner with manual rotary proportioner dial or optional Operator Interface Terminal (OIT), pump module with electric motor/motor driver and microcontroller unit, foam concentrate strainer, shielded electrical cables for connection for all electronic components, foam inject check valve, WYE strainer and flowmeter and tee.

The unit shall be available with optional items:

- Top and side enclosures
- Electronic Automatic Discharge Valves with Electric Air Valves. Valves shall be Elkhart UICS automatically controlled discharge valves used to control water/solution flow and the consistency of the compressed air foam. They shall also control the electric solenoid-type, compressed air discharge valves, allowing the air discharge valves, allowing the air discharge valves to open and close simultaneously as their respective water discharge valves are open or close.
- On-Site delivery instruction – contact factory for pricing
- Threads on panel intake and discharges HN/NST, NPSH, BSP or STORZ
- 1" discharge w/panel control, water/foam

The unit shall come standard with a seven-year limited warranty.