



Preferred Specifications

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90-45-ECL

Modular Slide-In CAFSystem

90-45-ECL 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 maximum of 90 GPM of water at 100 PSIG (340 L/min @ 6.9 bar) and 45 CFM of air at 100 PSIG (1.2 m³/min @ 6.9 bar). The 90-45-ECL develops 40 GPM and 20 CFM @ 125 PSI (300l/min and 0.56 m³/min @ 8.6 bar) simultaneously. The 90-45-ECL shall also feature compressed air for pneumatic tools. The system shall come with a Rand 45 sCFM compressor, Aquis™ 1.5 foam proportioner, Tellurus Digital Control System and two (2) 1.5" Foamulators.

This system shall be equipped with a Hypro 9203 centrifugal water pump utilizing an iron case, nylon impeller, stainless steel shaft and maintenance-free mechanical seal. It shall come with a 1.5-inch NPT intake and 1-1/4-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 contain two (2) 1.5-inch Foamulators using an independent pressure regulation, keeping constant mixing pressure in the mixing chamber. This pressure regulation allows a variation of the pump discharge pressure above the minimum working pressure without disrupting the function of the system or changing the consistency of the extinguishing agent.

The system shall be powered by a Kohler engine, three-cylinder, liquid-cooled, delivering a maximum of 23.5 horsepower (17.5 kW), four-cycle, diesel fueled. The engine shall come with a two (2) 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 60A alternator, electric ignition and start switch along with a spark arrestor muffler. The frame of the unit shall be made of high-strength, stainless steel.

The system shall come with an oil-filled, rotary screw air compressor, sized to supply a minimum of 45 sCFM (1.4 m³/min) of usable air. The system shall utilize a spin-on, full-flow oil filter unit control oil flow to the cooler. All lines are routed in braided hose conforming to SAE 100R1 standards for hydraulic hose. The system shall be available with a modular air / oil separator and an air compressor cooling system. The air compressor shall be cooled by a 12 or 24V electric / air fan type cooler, maintaining 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 inlet piping shall be 2-inch with 2-inch Tank to Pump stainless steel pipe controlled with 1.5-inch overboard connection direct tank fill, F-NST swivel.

The system's discharge shall be plumbed to two (2) panel mounted 1.5-inch discharge outlets incorporating a stainless steel manifold, welded stainless steel pipe and/or high-pressure hydraulic hose with stainless steel fittings. 1/2-inch tank fill provision with 1/2-inch valve shall be provided. Victaulic-type couplings are utilized in the discharge plumbing for flexibility and serviceability. All discharge plumbing shall be designed and tested to a minimum of 500 psig (34.5 bar) burst pressure.

The system shall be equipped with a panel mounted drain to drain the pump, discharge manifold and compressor cooler.

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

The unit shall come with an Aquis™ 1.5 foam proportioner with Tellurus Operator Interface Terminal (OIT) which shall allow for one-button operation and engage the entire system, 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
- 1.5" discharge for front turret
- 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.