

ANSUL® 450/100 65HC-TS-PKW-TAU TWIN AGENT UNIT

Data/Specifications



APPLICATION

The ANSUL® 450/100 Twin-Agent Unit (TAU) combines the rapid flame knockdown capabilities of Williams Purple-K (PKW) dry chemical with the suppression and securement capability of ANSUL THUNDERSTORM® AR-AFFF agent flowing through the Williams Hydro-Chem hand gun. The completely self-contained system requires no outside power source making it ideally suited for remote sites where 24/7 fire suppression systems are a must.

Typical applications include:

- Rapid Intervention vehicles
- Highway emergency and safety vehicles
- Industrial plants
- Chemical and petrochemical plants
- Municipal and military airport facilities
- Off-Shore drilling platforms

PERFORMANCE

The charged weight of the ANSUL 450/100 TAU is 3100 lbs. (1406 kg) and occupies only 153 ft.³ (4.31 m³) of space. It includes 450 lbs. (204.1 kg) of PKW dry chemical and 100 gallons (378.5 L) of 3% foam solution weighing 830 lbs. (376.5 kg) for a total agent weight of approximately 1280 lbs. (580.6 kg). The TAU is capable of suppressing 9.0 ft.² (0.8 m²) of flammable liquid surface per pound of combined agent, equaling 11,520 ft.² of extinguishing capability.

The combined agent system provides suppression capability not found with single-agent systems. PKW can be used to suppress running fuel and pressure fires which cannot be accomplished with foam alone. Foam solution can be used to secure unignited spills as well as suppress and secure spill fires. Fuel surface securement cannot be accomplished with dry chemical alone. When used in combination, three dimension, running and pressure fires can be extinguished by a single trained operator.



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DESCRIPTION

The ANSUL 450/100 TAU is a self-contained unit containing 450 lbs. of PKW and 100 gallons of 3% ANSUL THUNDERSTORM AR-AFFF premix solution. Two 220 ft³ (6.3 m³) nitrogen cylinders are used to expel both agents through 50 ft (15.2 m) of twinned hose to the Williams Hydro-Chem hand gun. The concentric discharge of foam and dry chemical provide added range to the dry chemical discharge. The highly visible PKW provides an added dimension of performance for frontline fire fighters. The Hydro-Chem nozzle allows for individual or simultaneous discharge of agent with flow rates of 60 gpm (227.2 lpm) for foam and 5 lb/sec (2.3 kg/sec) for PKW dry chemical.

The system can be actuated by manually opening the quick-opening nitrogen cylinder valve by handwheel or lever operation.

Optional remote or dashboard-mounted actuators are also available upon request.

The system is designed with sufficient nitrogen and a suitable valving arrangement so that the hose lines and nozzles may be completely cleared of agent after discharge without discharging any remaining agent in the tanks.

The unit is available with or without a skid or trailer mounted.

SPECIFICATIONS

Dry Chemical – The potassium bicarbonate dry chemical (PKW) shall be tested for use with this system and shall meet the requirements of Underwriters Laboratories.

ANSUL THUNDERSTORM 3% AR-AFFF Solution – The solution for this unit shall be ANSUL THUNDERSTORM AR-AFFF 1X3 or 3X3 concentrate premixed with water in a volume proportion of 3% concentrate to 97% water.

ORDERING INFORMATION

Part No.	Description	Approximate Shipping Weight
433382	65HC-TS-PKW-TAU 450/100 Skid Mounted Fire Suppression System	2100 lbs. (953 kg)

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