TRIDENT 8000

Designed as the principle unit of the Trident Airport RFF system, Trident 8000 can be used independently or in combination with other 8000 units and a 6000 unit to achieve optimum matching of vehicle fleet to I.C.A.O Category.

With discharge capability of between 2000 and 5000 litres per minute of foam solution, Trident's monitor can also be fitted with a variable flow pattern non-aspirating nozzle. Remote, electronically operated from the cabin console, it has a self-diagnostic microprocessor control.

The Duplex chassis on which all Tridents have been built is fitted with a Twin Disc microprocessor controlled transmission and power divider. Together with the electronic pump pressure regulation system, Trident provides precise control of all vehicle functions during pump and roll or stationary operation. The transmission provides full time all wheel drive operation, and has a centre differential lock-up device for difficult terrain.

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SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Maximum Speed: 110km/h

Acceleration: 0-80km/h within 30 seconds (laden)

Pump Capacity: 6000 L/min. at 1000 kPa (rated output)

Monitor Output: Dual output up to 6000 L/min @ 10 bar

Monitor Throw: 60 metres (at 3500 L/min @ 1000 kPa)

DIMENSIONS & WEIGHT

Length: 8805 (with monitor extended 9470 mm)

Weight: 22698 kg (loaded)

Height: 3600 mm (with monitor)

Width: 3000 mm (plus rear vision mirrors)

Wheelbase: 4318 mm

Ground Clearance: 325 mm (under axles)

Angle

- Approach: 30 degrees
- Departure: 30 degrees
- Ramp-over: 12 degrees

CHASSIS COMPONENTS

Chassis: Duplex DCT 1500 (4 x 4 drive)

Engine: Detroit Diesel 8V92. 403 kW. T 2300 r.p.m

Transmission: Twin Disc TD1172 – 6 forward speeds, fully automatic

Torque Converter: Twin Disc 8MLW-1611

Front Axle: Rockwell FDS 2100 with automatic inter-wheel power divider

Rear Axle: Rockwell U170 with automatic inter-wheel power divider

Transfer Case: Incorporated in transmission

Tyres: 24R21 radial Michelin 16 PR tubeless XL or XS tread pattern

Wheels: Steel Disc – 457.2 mm

Steering: Sheppard Model 492

Starting: 24 volt electric start

Brakes: Dual system – full air

Electrical: 24 volt DC system – 100 amp Brushless Alternator, or 220A Brushed Alternator

CAR / BODY

Make: Austral – modular

Seating: Five crew

Doors: One (1) each side, plug type with sliding windows

Heating: Cabin heater/demister

Cabin Stowage: For clothing, maps and helmets etc

Lockers: Equipment locker both sides

Ladder: Extension ladder on top body

FIRE FIGHTING SYSTEM

Water Tank Capacity: 7000 litres

Construction: Welded stainless steel plate

Filling Connections: Two (2) 64 mm.; one (1) each side

Foam Tank Capacity: 940 litres

Construction: Fibreglass

Filling Connection: One (1) 38 mm. with ball valve

Water Pump: Rosenbauer R600 Centrifugal Fire pump rated 6000 L/min @ 1000 kPa

Foam Proportioner: Rosenbauer RVMA500 Automatic for mixing rate for pre-selected ratios 3%, 6% and 8%

Monitor: Rosenbauer RM60E. Electrical control from crew seats (Manual emergency operation on roof)

Throw Pattern: Straight stream and dispersed stream

Hose Reel: Rosenbauer, electric rewind, automatic brake

Hose: 60 m x 25 mm high pressure hose

Hose Nozzle: Rosenbauer Ne-Pi-Ro Fog Nozzle

Discharge/Throw: 120 L/min. to 20 metres

Forward Handline: 30m of 50 mm hose pre-connected to pump with foam making branch-pipe

Discharge/Throw: 500 L/min. to 20 metres

Bumper Monitor: Feecon

Discharge/Throw: 340 L/min. to 8 metres at 10 bars

Under-truck Protection: 4 x Feecon U15

Capacity: 230 L/min

Dry Chemical System: Preussag 250 kg Electro-pneumatic controlled from control panel

Hose Reel: 30 m. of 25 mm. electrical conductive hose

EMERGENCY WARNING SYSTEMS

Siren: Electronic 50 watt with integral P/A

Beacon: Revolving – on cab roof and engine module

Searchlight: Mounted on monitor