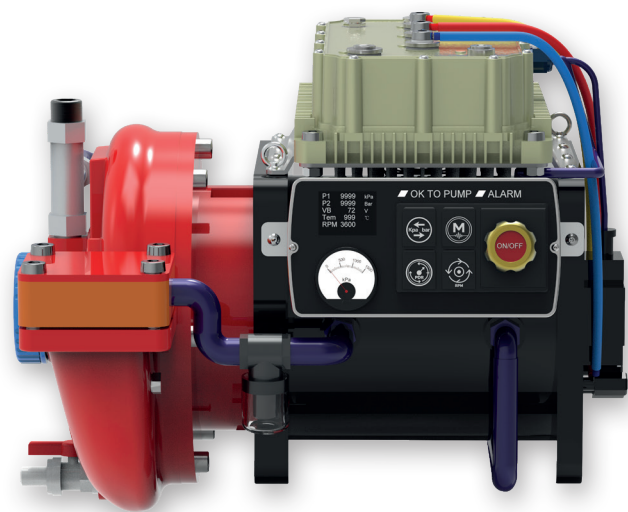


NOMAD P5e



Electric Firefighting Pump Module (Prototype Configuration)

The NOMAD P5e is a next-generation electric firefighting pump module designed specifically for fixed-mounted installation on wildfire and rural fire appliances operating from vehicle tank / flooded suction systems.

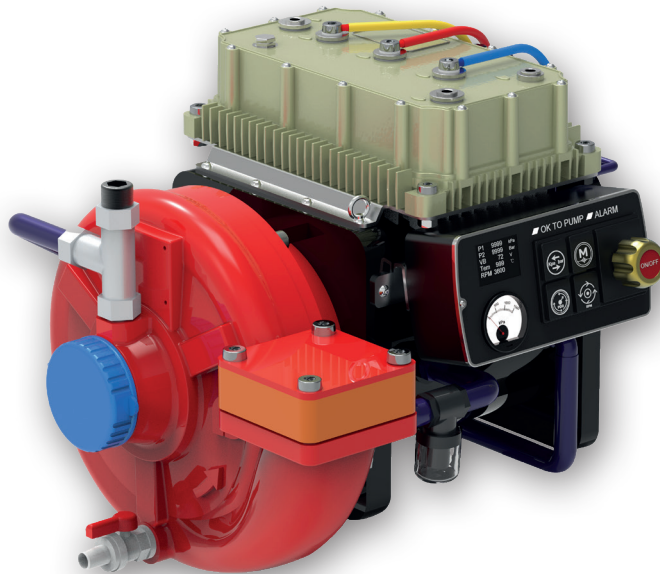
Unlike conventional combustion-engine-driven pumps that must idle continuously during operations, the P5e uses a brushless DC motor, liquid-cooled power electronics, and pressure-managed control logic to deliver water only when flow is demanded.

The result is quieter operation, instant torque response, reduced vibration, simplified pump operation, and lower maintenance compared with conventional small-engine pump modules.

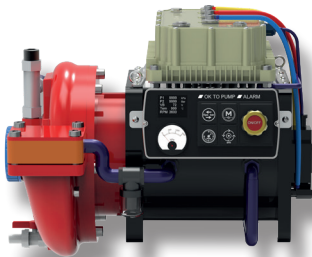
Key Features

Intelligent Pressure-Managed Operation	Unlike combustion-engine pumps which must idle continuously during operations, the NOMAD P5e only operates when water flow is demanded.
Battery System	The battery module incorporates: • liquid cooling • integrated battery management system (BMS) • vehicle charging interface • heavy-duty field-serviceable architecture
Vehicle Charging	12VDC / 24VDC alternator charging. Recharge while appliance engine is running.

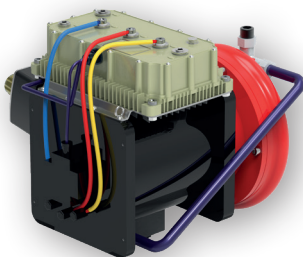
NOMAD P5e



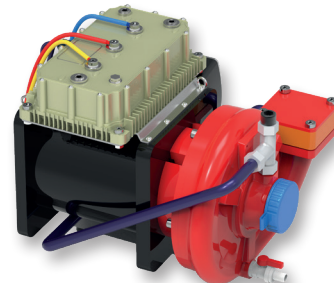
Conventional engine-driven pumps must continue idling even when the nozzle is closed. The NOMAD P5e reduces unnecessary energy use by automatically responding to outlet pressure and water demand.



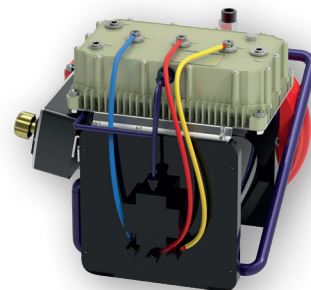
In typical wildlife appliance operations, usable runtime may exceed simple full-load calculations because water demand is intermittent and tank depletion may occur before battery depletion.



The P5e prototype is designed for use with a liquid-cooled Kraken Power battery module and vehicle charging interface, allowing the battery system to recharge from the appliance electrical system while the chassis engine is running.



Because electric motors provide high torque from low speed, the P5e can rapidly achieve operating pressure without manual throttle management.



NOMAD P5e

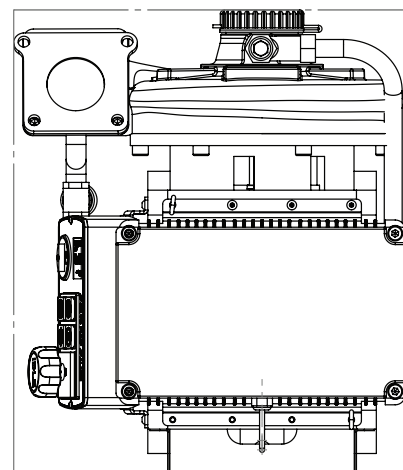
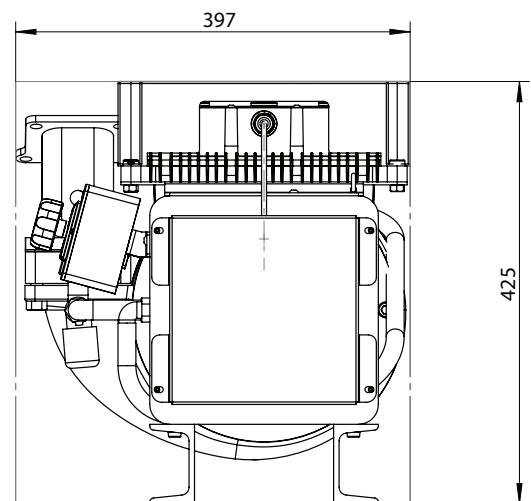
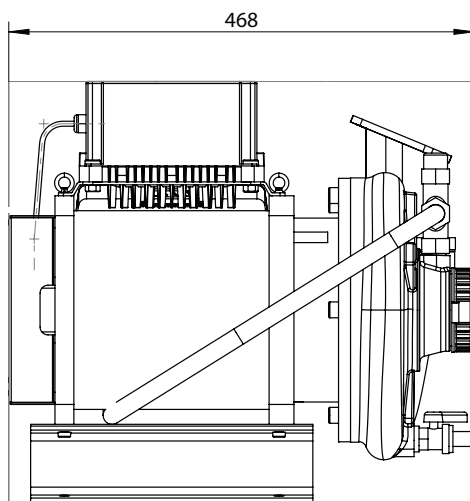
The NOMAD P5e has been developed for wildfire and rural firefighting environments and is optimized for integration into light attack and medium appliance configurations.

Intended Applications:

- Rural Fire Service appliances
- Auxiliary pumps for pump & roll operations (e.g. US Type 3 fire apparatus)
- Light attack vehicles
- Rapid intervention vehicles
- Utility firefighting vehicles
- Remote-area fire operations



NOMAD P5e Diagram



TECHNICAL SPECIFICATIONS

Parameter	NOMAD P5e
Model	P5e
Engine	10kw Nomad motor, with liquid cooling system, up to 3600rpm
Control Panel	NOMAD Smart Control system
Voltage	72VDC
Weight	approx. 53kg (116.8lbs)
Max. Water Flow	approx. 830L/min
Max Working Pressure	850Kpa (8.5bar)
IP Class	IP65
Typical Operating Conditions	
100Kpa (1.0bar): 750L/min	
550Kpa (5.5bar): 660L/min	
650Kpa (6.5bar): 500L/min	
Suction Inlet	1x 2.0" male thread (BSP)
Pressure Outlet	1x NW65 flange