

# NOMAD P5X(d)-T Single-Stage Diesel Trailer Skid Mount Pump System

Intelligence Under Pressure | Built for the Front Line



## Product Overview

The P5Xd motor-driven pump is specifically designed for the rigors of bushfire suppression in rural Australia. The diesel-powered pump combines precision German-engineering with Australia's most reliable engines, the Kubota Super Mini Series.

Wildland fire pumps designed for the 21st century. Each pump comes equipped with standard Vehicle as a Node (VaAN) technology, providing connectivity and diagnostics through PRO//connect's Fleet Command software.

NOMAD Pump Modules represent the next evolution in firefighting technology - empowering crews with the tools they need to face the challenges of today's wildfires with confidence and precision.

## Key Features

- **Modular Design:** Easy integration with various vehicle types and configurations.
- **High-Performance Pumps:** Efficient water delivery with minimal maintenance.
- **Smart Controls:** Intuitive interfaces that simplify complex operations.
- **Comprehensive Connectivity:** Standard local and remote connectivity for real-time control and diagnostics. Starlink compatibility in development for remote connectivity - allowing decision-makers to have access to real-time data.
- **Durability:** Constructed to endure extreme environments and heavy use.
- **Ease of Use:** Simple controls and quick setup for rapid response.

## Applications

- Wildland firefighting
- Forestry management
- Remote water delivery in challenging terrains



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## General Specifications

MODEL	P5Xd-T
Performance	550min at 5bar and 3 m suction height
Engine	Kubota Super Mini D602-E4B, 599cc 2-cylinder, water-cooled, naturally aspirated diesel engine
Pump	Single-stage centrifugal pump
Material	Impeller, pump casing and casing cover made of seawater-resistant Aluminium alloy, pump shaft made of stainless steel, Pipe system made of stainless steel, pump case made of steel
Shaft Sealing	Mechanical seal, dirty- and seawater resistant, maintenance free
Priming System	VACUMAT, fast automatic air escape system, 0..8 m suction lift/height, support for manual or automatic priming, could be switched on control panel, only working in time of suction, oilfree, maintenance free
Suction Inlet	Coupling system without, one for water tank connection (2.5"), another one for priming (2.5")
Pressure outlet	One for monitor (1.5" ANSI 150 flange with cover ), one for ball valve (2.5")
Voltage	12VDC
Drainage	Drain cock on the lowest points of pump casing in order to drain off water from pump casing
Control Panel	Multi functional digital display screen 7.0"
Max. Flow	900 lpm
Max. Pressure	8bar



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## Pump Specifications

- **Intake:** 2.5" BSP male, customised modular system, one for water tank connection, another one for priming
- **Outlet:** NW 65 flange, customised modular system, one for monitor (1.5" ANSI 150 flange with cover, one for ball valve 2.5")
- **Outside box:** Thick steel, with high quality power coating
- **Pump:** Single stage centrifugal pump made of seawater-resistant aluminum alloy
- **Impeller:** Seawater-resistant aluminum alloy
- **Pump Shaft:** Stainless steel
- **Shaft Sealing:** Mechanical seal, self-adjusting, dirty- and seawater-resistant, maintenance free
- **Bearing:** Maintenance-free, no oil
- **Priming System:** VACUMAT, belt-driven, automatic vacuum system. 0-8m suction height, oil-free, maintenance free

## Engine Specifications

- **Engine:** Kubota Super Mini D602-E4B, 599cc 2-cylinder, water-cooled, naturally aspirated diesel engine
- **Rated Power:** 12.5 kW (16.83 HP) @ 3,600 rpm
- **Maximum Torque:** 37.8 Nm (27.9 lb-ft) @ 2,600 rpm
- **Compliance:** EPA / CARB Tier 4 emissions regulations + EU Stage V
- **Lubrication:** Pressure-fed with spin on filter
- **Alternator:** 12 VDC, 40A
- **Exhaust System:** Spark Arrestor (standard)



## Service Diagnostics

- **Data Logging:** Electronic data logging of engine and pump operations, up to 6 months
- **Local Connectivity:** Compatible with PRO//connect mobile diagnostics platform, up to 10 metres

## Options and Accessories

- **Priming System:** Die-cast hand primer
- **Remote Connectivity:** Authorise fleet service managers to monitor equipment state of health (SoH), allowing deployment of resources to ensure maximum uptime. Hardware is standard. Activate eSIM with local mobile provider. Compatible with 3G / 4G (LTE) / 5G / NB-IoT / CAT-M networks.

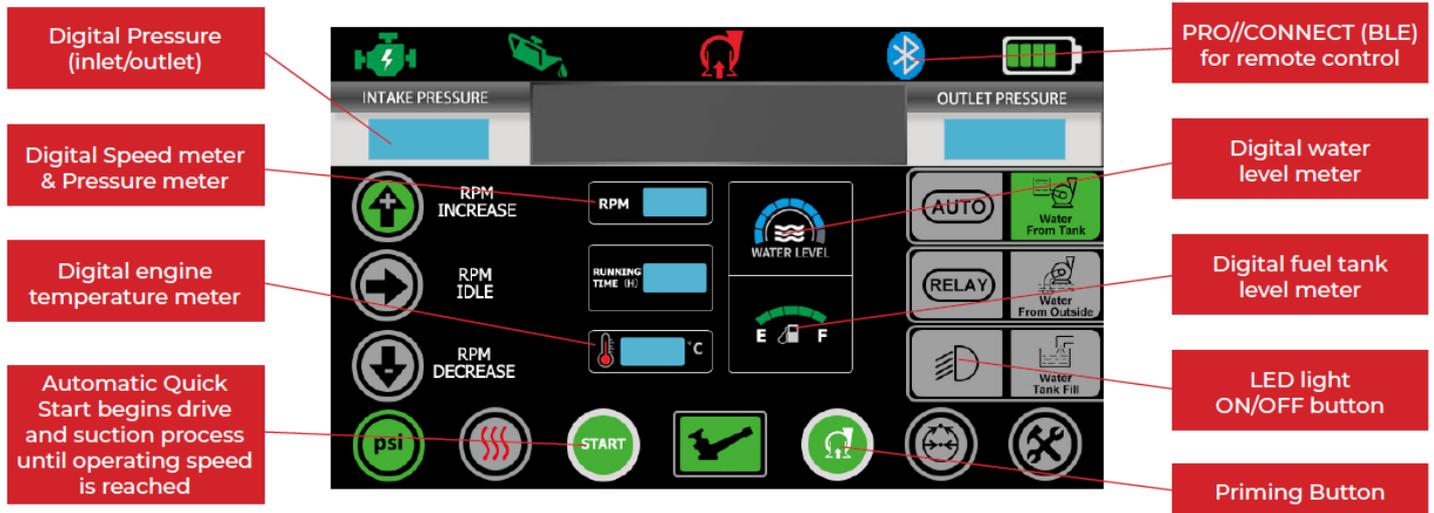
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## Control Panel



## Additional Control Panel Features

- 7" Self-illuminating color display with glovecompatible operation and intuitive, icon-driven user interface
- Power ON/OFF button
- Engine ON/OFF button
- Message & Fault Display
- Engine, pump Vacumat, LED, BLE, Battery, Maintenance working indicators
- Digital pressure selection
- Digital engine heat
- Digital PDR
- Digital maintenance warning & cancel
- Tank fill button
- AUTO button
- RELAY button

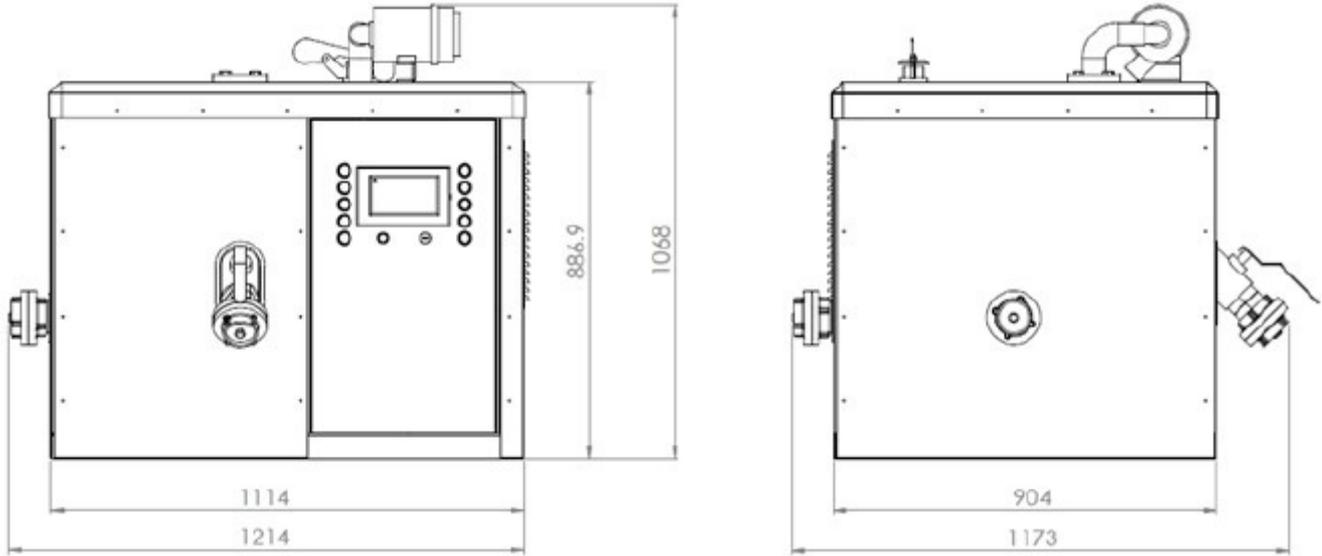
## Operational Features

- Pump Pressure Control as standard, adjustable target pressure, pressure unit switchable (Bar or Psi)
- Pre-selection buttons: 2/4/6/8 bar (19/58/87/116 psi), can be reset on PDR screen
- Over Temperature protection (The engine will power off automatically once the temperature reached protection level)
- Manual priming option: start engine first, then push the button to do priming.
- With "Relay" function the engine will adjust its RPM to control the inlet pressure (<4bar)
- Dry running monitoring with automatic shutdown (Relay mode)
- Battery charging connector
- Speed +, - and idle integrated Knob
- Physical Emergency Stop button

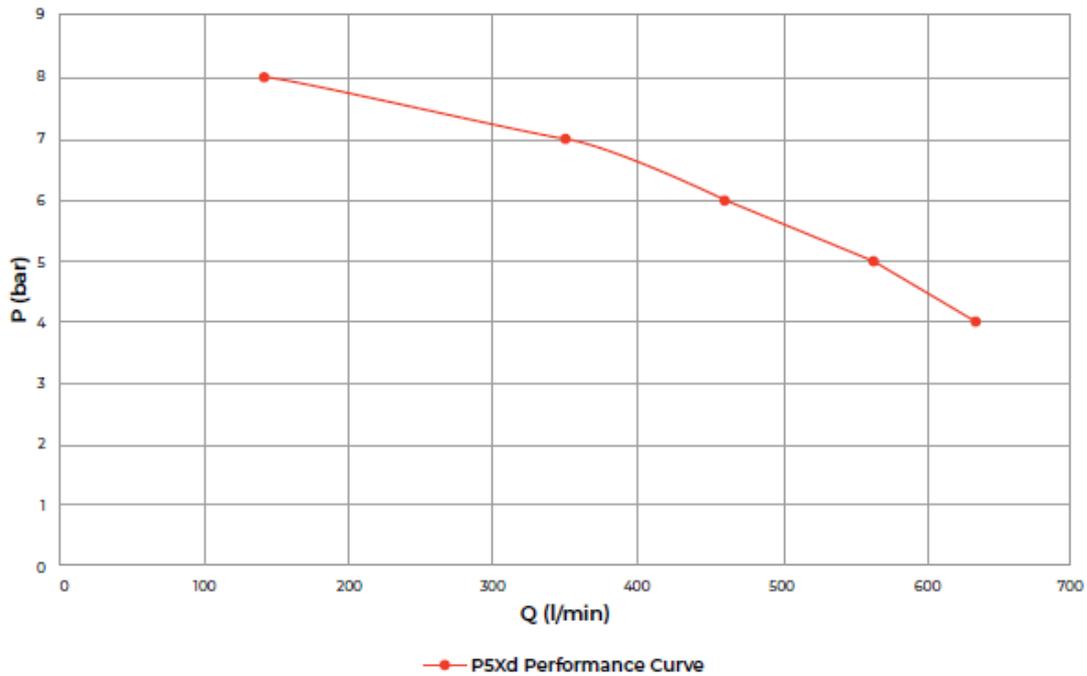
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## P5Xd Performance Curve



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