B Series

TF80-180 Datasheet

Vac-assisted dewatering pumpsets

Truflo PUMPING SYSTEMS

Truflo Pumps' vacuum-assisted dewatering pump-sets handle the toughest jobs in mining, quarrying and heavy industry worldwide. Designed and built for high solids handling and operational efficiency, these systems deliver reliable performance where other pumps struggle or fail.

Manufacturing our own pump components in Australia gives us direct control over quality and parts supply. Each system can be tailored for your specific application – whether you need standard configurations or purpose-built solutions for unique challenges.

Trusted by major mining operations and dewatering contractors globally, Truflo Pumps' deliver efficient and reliable water management solutions that can handle whatever you throw at them.

Standard Pumpset Features

- Australian-made and Australian-owned
- Electronic pump control and alert system
- Superior solids handling capabilities
- Operates in snore conditions
- Standard pumpsets configurable to suit inlet and outlet positioning
- Vac-assisted self-priming
- Robust engine canopy with central lift point
- Inbuilt extreme duty positioning "push bar" on skid configuration
- 24-hour runtime (dependent on final engine choice and pumpset duty)
- Ease of maintenance
- Full set of industry standard safety and operational signage applied to equipment
- Comprehensive installation, operations and spare parts manual linked to machine serial number
- OEM parts supplier for all the pumpset range
- Superior nation-wide customer service and support linked to equipment serial number.

Standard Inclusions

AquaBoss™ Asset Protection Controller
- Full engine protection
- Full pump protection
- Suction and pressure transducers
- Loss of flow switch
- Pump temperature protection
- Remote Start ready
- Telemetry ready

- Built to Australian standards and robust mining industry expectations
- 50cfm vacuum diaphraghm pump
- Powered by Caterpillar or Cummins engines
- Truflo Mining Series Wet-end with high grade duplex impeller
- Marine grade 2-pack paint
- Baffled fuel tank base
- Bisalloy replaceable wear plates
- Fitted non-return valve on pump discharge
- Isolation valve
- Purpose built exhaust system heat shielding
- OEM genuine wiring harness
- Battery and Start Isolation
- Vented steel battery box
- 350 amp jump start receptacle
- Mechanical fuel guage
- External Emergency Stop button
- Depressurised radiator cap
- 50mm Splash Fill fuel inlet
- Engine, oil and coolant drain

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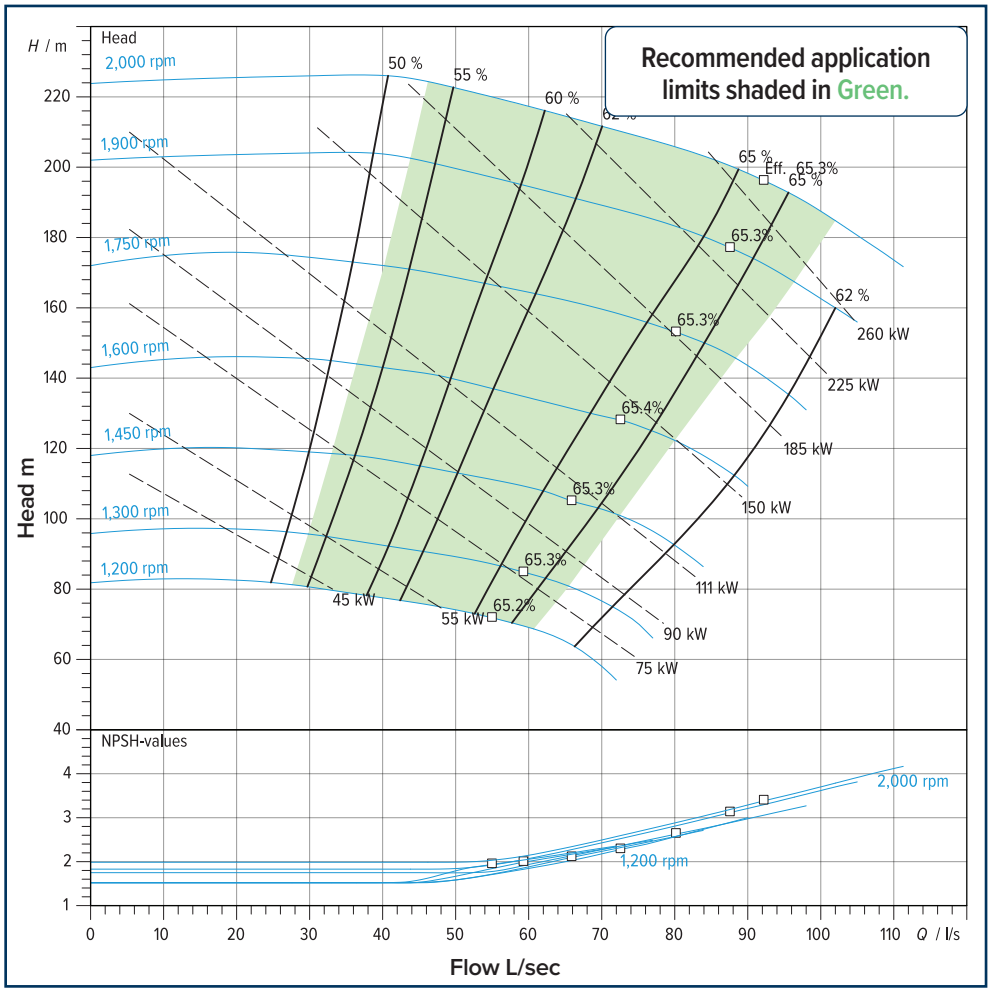
DATASHEET

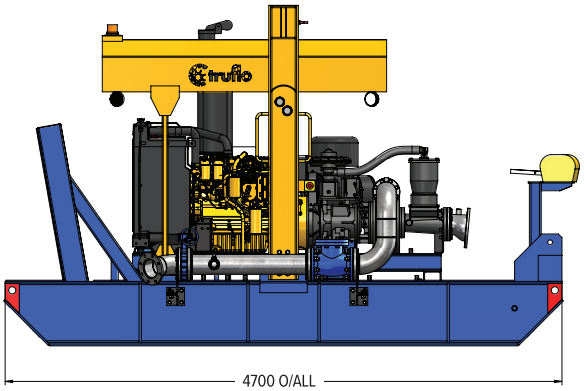
Standard Options

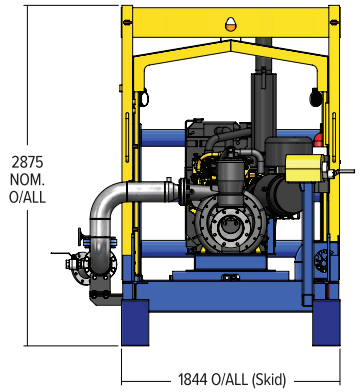
- Suction a-frame jib and winch
- Wiggins style engine lube / coolant drain
- Wiggins style low pressure fast fuel fill
- Drag chains
- LED work lights
- Amber strobe light (LED)
- Secondary Emergency Stop
- Fire extinguisher
- Heavy duty suction hose
- Suction inlet strainer
- Titan high clearance skid
- Dual discharge
- Solar panel and trickle charger
- Boost pump ready
- Flowmeter
- Auxillary fuel inlet
- Full duplex wet-end
- Full stainless steel suction and discharge manifold
- Telemetry systems
- Auto start/stop systems
- Bunded fuel tank base
- AquaBoss **CORE** Asset Protection
  - Full engine protection
  - Full pump protection
  - Suction and pressure transducers
  - Loss of flow switch
  - Remote start ready

Alternate Configurations

- Pontoon mounted
- Trailer mounted
- Sound attenuated
- Standard Pumpset configurations are customisable on request.







PUMP SPECIFICATIONS

Suction	150mm ANSI Flanged
Discharge	100mm ANSI Flanged
Impeller Design	558mm Enclosed
Solids Handling	25mm
Coupling	Flywheel, SAE direct flanged
Max Operating Temp	100°C
Operating Speed	Min 1200 rpm | Max 2000 rpm

PUMP CONSTRUCTION

Pump Casing	Ductile Cast Iron ***with option of*** CD4MCu Duplex Stainless Steel
Impeller	CD4MCu Duplex Stainless Steel
Wear Plate / Ring	Nitronic 60 Stainless Steel
Suction Cover and Backplate	Ductile Cast Iron ***with option of*** CD4MCu Duplex Stainless Steel
Shaft	316 Stainless Steel
Mechanical Seal	Silicon Carbide / Tungsten Carbide
Bearings	Angular Contact / Deep Groove

PUMP PERFORMANCE

Qmax	110 L/sec
Hmax	225m

PUMP PRIMING SYSTEM

Vacuum Pump Type	Diaphragm
Nominal Air Capacity	50 cfm
Max Vacuum	0.9 bar
Drives	Belt

CONSTRUCTION SPECIFICATIONS

Base Type	B Series
Dry Weight*	5600kg
Fuel Capacity	1500 Litres
Suction Manifold	200mm Flanged HD Gal
Discharge Manifold	150mm Flanged HD Gal
Nominal Dimension	4700 x 1844 x 2875mm

RECOMMENDED ENGINE

Cummins Model	QSL9, QSX15
Caterpillar Model	C9.3B, C13 ACERT

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11-2025

*Guide only, all subject to final pumpset configuration. Technical details subject to change without notice, more detailed engine and pump material construction options available on request.