PRODUCT DATA SHEET

CONDOR



SUPAVAC

SV280V

HEAVY-DUTY SOLIDS PUMP — FULLY ENCLOSED

100% air-operated vacuum solids pump

AUCKLAND / WELLINGTON / CHRISTCHURCH

ISSUE 11/2026

40 m³/h+	85 kPa	70 mm	1,000 m
MAX. THROUGHPUT	VACUUM	SOLIDS HANDLING	DISCHARGE

YOUR ENVIRONMENTAL COMPLIANCE PARTNER

PUMPING THE UN-PUMPABLE

The SupaVac SV280V is a high-velocity, heavy-duty solids pump in a fully enclosed frame, capturing high-density slurries with a strong 25 inHg vacuum and high-velocity airflow. It handles solids up to 70% of the hose diameter and transfers 40 m³/h+ at SG 1.0 — pushing up to 1,000 m horizontally and 35 m vertically. With nothing moving in the material path, it passes rags, bolts and other items that would stop a standard impeller pump.



HOW IT WORKS

01
VACUUM LOAD

The on-board air jet pack creates a high vacuum in the vessel, drawing solids, sludge or slurry in through the suction line.

02
PRESSURE DISCHARGE

When the vessel is full, the cycle switches and compressed air pushes the load out through the discharge line.

03
REPEAT — AUTOMATICALLY

The pneumatic control box cycles load and discharge continuously, with countdown timers and cycle indicators.

WHY SUPAVAC

100% AIR POWERED

No electrics or motors — intrinsically safe and ATEX Zone 2 / CE conformant.

NO INTERNAL MOVING PARTS

Nothing in the material path to wear, jam or break — minimal maintenance.

PUMPS THE UN-PUMPABLE

Handles thick sludge, slurry, drill cuttings and high-solids material that clogs conventional pumps.

LONG DISTANCES

Recovers material from up to 50 m and pushes it hundreds of metres down the line.

ONE-PERSON OPERATION

Simple to set up and run manually or fully automatically.

NEXT GENERATION PNEUMATICS

Standardised, quick-change control box with countdown timers and cycle indicators.

APPLICATIONS

- DRILL CUTTINGS CAPTURE & TRANSFER
- SUMP CLEANING & DESILTING
- TANK BOTTOMS & SLUDGE EXTRACTION
- TAILINGS TRANSFER & DEWATERING
- OBM TRANSFER & PIT CLEANING
- BENTONITE & SAND TRANSFER

TECHNICAL SPECIFICATIONS

PERFORMANCE

Throughput	**40 m³/h+** 176 US gpm @ SG 1.0
Vacuum	**Up to 25 inHg+** 85 kPa
Horizontal discharge	**Up to 1,000 m** 3,280 ft
Vertical discharge	**Up to 35 m** 115 ft
Solids handling	**Up to 70 mm** 3 in · up to 70% of hose diameter

COMPRESSED AIR SUPPLY

Air consumption	**600 cfm (min.)** 284 L/s
Air pressure at pump	**85 – 100 psi** 6 – 7 bar
Air supply connection	**50 mm** 2 in

CONNECTIONS

Suction	**100 mm (4") camlock** BSP / Type B
Discharge	**100 mm (4") camlock** BSP / Type A
Gravity feed	**100 mm (4")**

DIMENSIONS & WEIGHT

Height	**151 cm** 60 in
Width	**138 cm** 55 in
Length	**130 cm** 52 in
Weight	**720 kg** 1,588 lb
Frame	**Fully enclosed**

CONSTRUCTION

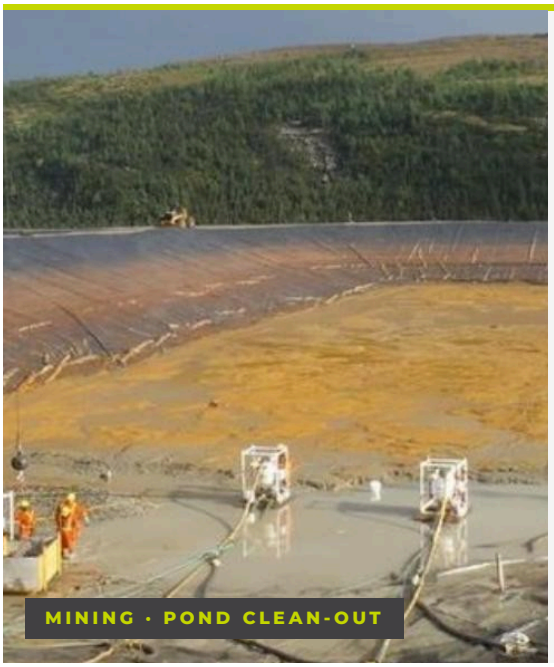
Vessel	**Carbon steel**
Wear	**Robust construction, low wear characteristics**
Certification	**ATEX Zone 2 / CE**

OPTIONS

- Next Generation Pneumatic IP56 stainless control box
- Manual or fully automatic operation
- 100 mm gravity feed

PROJECT SHOWCASE

SupaVac solids pumps have been working worldwide for more than 30 years across oil & gas, drill rigs, marine tank cleaning, mining, municipal, industrial, agriculture and construction. A few highlights:



MINING · POND CLEAN-OUT

MILL WATER SLUDGE POND CLEAN-OUT

SUPAVAC SV250V

CHALLENGE

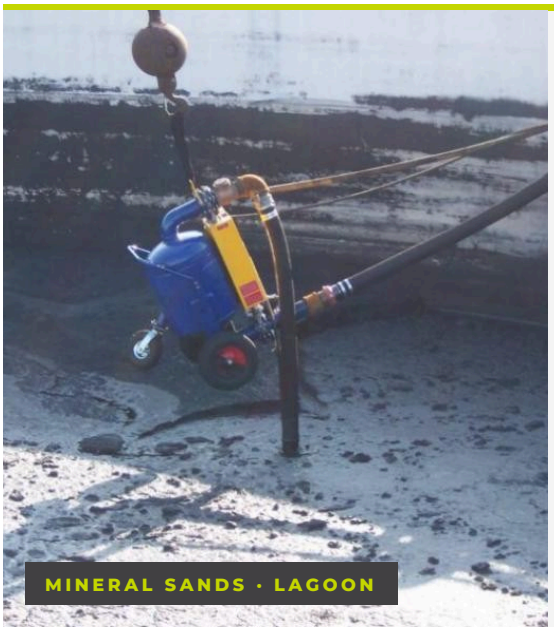
Over 3,000 m³ of thick, abrasive 4.5 SG sludge in a lined pond at a remote nickel mine — no dredges or excavators allowed near the liner.

SOLUTION

3 × SV250V-600 pumps with liner-protecting accessories and 5,700 m of 100 mm HDPE pipe, discharging 1,350 m to the mine sump.

RESULT

Completed on time and on budget, with no liner damage and no environmental or safety incidents.



MINERAL SANDS · LAGOON

WASTE SAND SLUDGE LADEN WITH TAR

SUPAVAC SV110-V / SV250V

CHALLENGE

Abrasive, flow-resistant settling-pond waste full of sand plus sheets and chunks of hardened tar.

SOLUTION

An SV110-V was trialled at the extraction plant settling pond, with the SV250V and air-assist pickup nozzle recommended for larger-scale work.

RESULT

Vacuum recovery at 25 inHg with discharge at 100 psi air pressure.

Project information and photos: SupaVac (supavac.com/projects, supavac.com/photos-videos).

NEXT GENERATION PNEUMATICS

CONTROL BOX

The Next Generation Pneumatic control box makes every SupaVac easier and safer to run, with countdown timers and indicators that show the pump cycle at a glance. It is standardised and quick-connect across the range, so a spare box can be swapped in fast to minimise downtime.

SAFE BY DESIGN

- ATEX Zone 2 / CE conformity
- Intrinsically safe — 100% compressed air
- Adjustable low discharge pressure for safer lines
- Manual or fully automatic operation



HIRE · SALES · SERVICE

GOT A MATERIAL THAT WON'T PUMP?

Talk to the Condor team about the right SupaVac, air supply and hose set-up for your site.

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Specifications are for guidance only and may change without notice. Throughput depends on material, SG and distances involved. SupaVac is designed and manufactured by Air Automation Group Pty Ltd, Australia. Issue 11/2026.