

SASE Poly Pump 25C Manual



FEATURES

- Small - 16" W x 14" D x 27" H. Folding handle increases operating height to 38"
- Weighs only 76 lbs.
- Cordless battery – 3-1/2 hour to 5-1/2 hour run time, 3,000 to 5,000 cycles of charge/discharge
- 3-gallon transparent tanks - view ratios and levels
- Ultra quiet ¼ HP DC Motor, 70 in lbs of torque
- One hand "On/Off" thumb switch & fingertip variable speed control
- Coarse thread manifold – same as cartridge nuts
- Ball valves and grease fittings on manifold
- Soft dual wheel swivel casters with brakes
- Enclosed wand - straightforward flow of product through manifold
- Short supply lines & strap to keep off floor
- Low-cost gear pumps – rebuildable with kits
- DC Interface port for charging – can charge and discharge at the same time

BENEFITS

- Great for small jobs, tight quarters, upper floors, punch lists, and easily transported being so small
- Can do larger jobs with extended battery life
- Save money on buying filler in bulk
- Rolls super easy on soft non-binding dual swivel wheels with brakes
- Easy to use, clean and transport
- Charge without disconnecting
- Can ship in a UPS box



Directions:

1. Designed to pump polyurea joint fillers on small to medium sized jobs and tight locations.
2. Be sure battery is charged with the included 4-amp charger. It can be charged while attached or during use. Extra batteries are available and suggested. Can also be run off an outlet or generator.
3. Condition material to 70°F or above. Pre-mix polyol side per manufacturer's instructions.
4. Remove lids, open ball valves, and hold wand over waste container. Turn speed to lowest setting, turn ON the master switch on the frame, toggle ON thumb switch on the handle, slowly increase speed and remove oil to bottom of the tanks. Note: Never run pumps dry for more than a few seconds or you may damage them.
5. Close ball valves and turn the machine OFF.
6. Fill each tank with the marked side of joint filler (iso in iso tank, polyol in polyol tank), while keeping other tank lid on. Never cross contaminate iso and polyol sides or products will harden within the manifold, pumps, and supply lines.
7. Remove nut and night cap. Dispense oil and product into waste container until clean A and B are noticeable, then connect nozzle and dispense until consistent mix of color is noticed, then begin work.
8. Lids should stay unscrewed (loose) on top of tanks while working.
9. Keep an eye on minimum and ratio levels while working. Tanks have markings. Do not run dry.
10. When done, turn the power off at the handle and on the frame.
11. Secure lids tightly, remove nozzle, grease both sides of the manifold until grease comes out of the ports, then wipe on manifold threads, secure night cap with manifold nut. Note: The coarse thread nut is the same size as all cartridge nuts in case it becomes lost.
12. Storing longer than a day requires cleaning of the pump and lines with xylene (or a pump flush designed for polyurea pumps) then flush xylene out of the system and store with an inexpensive oil or hydraulic fluid. Hydraulic fluid is the best choice. Always leave some visible oil in the bottom of the tanks and within the lines and pumps. Do this same procedure when changing chemicals or colors.
13. Periodically lube the chain and test for tightness.
14. Gear pump removal: Empty tanks until fluid is only visible at the bottom of the tank. Remove plumbing connections being careful to keep fluids from dripping below. Loosen idler sprocket, remove chain from gear pump sprocket, remove 4 mount bolts and remove the pumps.

Specifications:

Power: 1/4 HP DC Motor with 70 IN LB of torque

Transmission: Standard duty chain drive for added torque

Frame & Dimensions: Custom fabricated steel frame, with tight tolerances and mounts for components. 16" W x 14" D x 27" H. Folding handle increases operating height to 38". Folded down minimize size for shipping and storage. Easily fits in tight spaces when in use.

Weight (dry): 76 lbs.

Tanks: 3-gallon square semi-transparent plastic tanks with gallon markings. Bottom angle of tank designates half a gallon is left. Maximize space, see fluid and ratio levels, twist tight lids. Drop-in all steel screens.

Ratio: 1:1

Pumps: Highly efficient affordable gear pumps, 4 bolt mount with Viton seals available from SASE. Each pump rated at 3.1 gpm. Speed control settings are dialed down on this small machine. GPM will vary depending on speed settings, temperature, viscosity, and type of material.

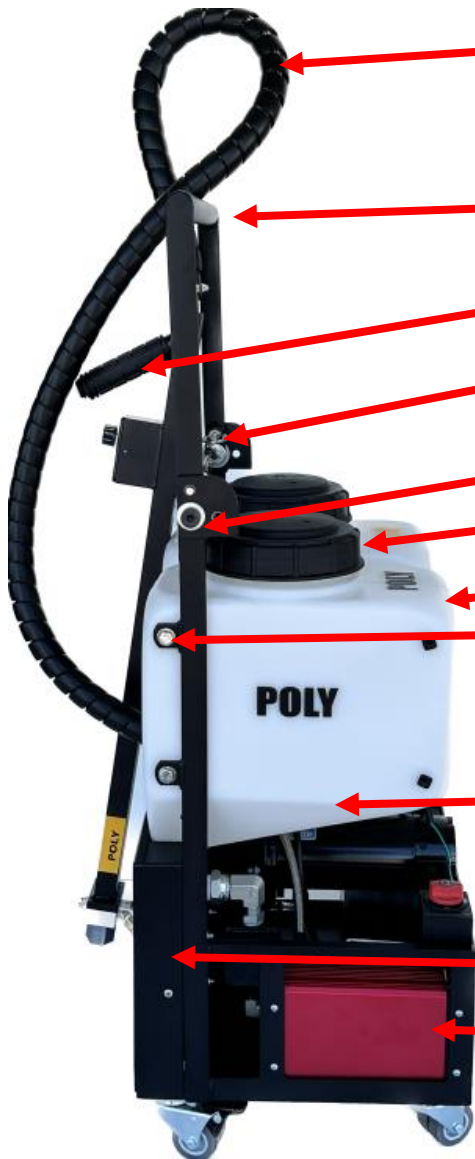
Mobility: Lightweight and compact frame with dual soft wheel non marring swivel casters with brakes which makes it easier to pull and turn because each wheel rotates independently and spins at a different speed, decreasing the scrubbing caused by wheels during a turn.

Operator Handle: Extra lightweight with hook to hang on frame. One handed on/off switch and speed control. Coarse thread manifold threading so any standard cartridge nut will fit if needed. Night cap with nodules to fit inside the manifold orifices. High pressure grease fittings and back flow valves on manifold for cleaning, airtight sealing, and ratio checks.

Hoses: Nylon wrapped/braided stainless steel hoses, coupled with control wiring, encased with a heavy-duty protective cord management wrap and inside the lightweight handle with labels for Iso and Poly hoses inside. Short length is ideal for this size pump.

Straps: Velcro straps included to attach hose to the frame to keep off floor and one to strap forearm to hoses near the wand. Straps can also be used to secure wand and hoses during shipping, and/or for a small waste container.

Warranty: SASE solely and expressly warrants that its polyurea pump shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of SASE, no other representations or statements made by SASE or its representatives, in writing or orally, shall alter this warranty. SASE makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its pumps and excludes the same. If the pump fails to conform with this warranty, SASE will replace or repair the product at no cost to Buyer. Replacement and/or repair of the pump shall be the sole and exclusive remedy available, and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within six (6) months from the date of the claim breach. SASE does not authorize anyone on its behalf to make any written or oral statements which in any way alter SASE's operation information or instructions on its pump literature or on its packaging labels. Any operation or modification of SASE's pump which fails to conform with such product information or instructions shall void this warranty. Product demonstrations if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of SASE's pumps for the Buyer's intended purposes.



Protective Sleeve (supply lines inside)
PN#SPHOSEWRAPC

Collapsible Handle

Grips/Handles PN#SPGRIP-1

Spring Plunger/Rope
(pull to raise/lower handle) PN#25ROPE

Shoulder Bolt PN#SPBOLTSH

Lids PN#25TANKL

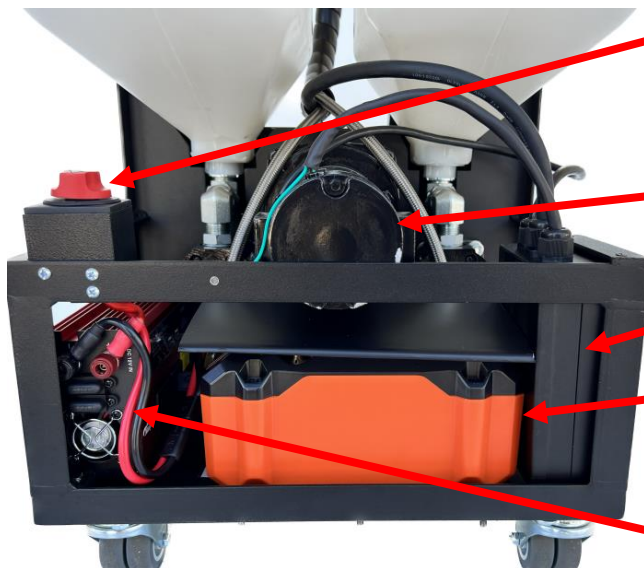
3 Gallon Tanks PN#25TANK3

Tank Mounts

Half gallon level at inward angle of tanks

Drive Cover (Chain and Sprockets)

Inverter PN#25CINV



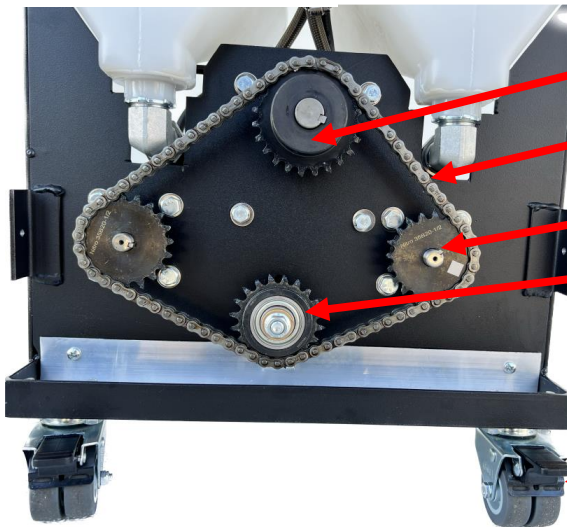
ON/OFF Master Switch PN#25ONOFFM

Motor PN#25CMTR

Electrical Box PN#25CBOXSCR
SCR Drive (In Box) PN#SPSCRDRIVE-1

Battery PN#25CBATT

Inverter PN#25CINV



Motor Sprocket PN#25CSPRKT3524

Chain PN#SPCHAIN-1
(Chain Link PN#SPCL-1)

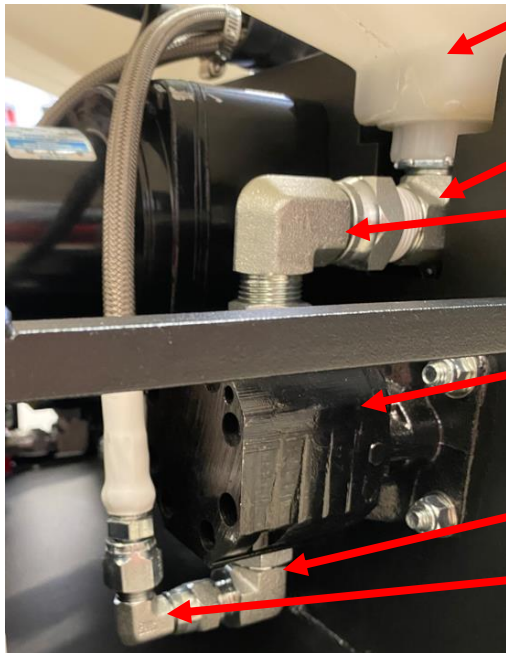
Pump Sprocket PN#25CSPRKT3520

Idler Sprocket PN#SPIDLER-1

Swivel Casters w/brakes PN#25CCAST
Dual wheel – 4 sets



Tank Screens PN#25CSCRN
Inside bottom of tank



Tank 90 PN#25CTNK90

Swivel 90 PN#25CSWIVEL

Gear Pump PN#S25CPUMP

Bottom Nipple PN#25CBOTNIP

Hose 90 PN#25CHOSE90



Speed control (one hand operation)
PN#SPKNOBDIAL-1

Thumb control ON/OFF Switch
PN#SPONOFFT
Green is on



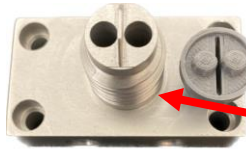
Enclosed wand with marked sides of Iso and Polyol hose lines inside
PN#SPWAND

Nipples (inside tube) PN#SPMANNIP-1

Heavy duty grease fittings PN#SPZIRCS-1

Manifold PN#SPMANMXR-1

Ball valves PN#SPBALL18-1
(underside of manifold)



Night cap with nodules PN#SPNTCAP-1

Manifold PN#SPMANMXR-1



Coarse thread manifold nut (same as any cartridge retaining nut) PN#SPMANNUTC



Complete Manifold Assembly for VeloPump 7.5 includes: manifold, night cap, nut, ball valves, grease fittings
PN#SPMANASSYMM

Arm Strap PN#SPSTRAP

Movable for any comfortable position
Use other strap to mount hose on handle



4 Amp Battery Charger PN#25BATTCHRG



SCR Drive Locations and Adjustments

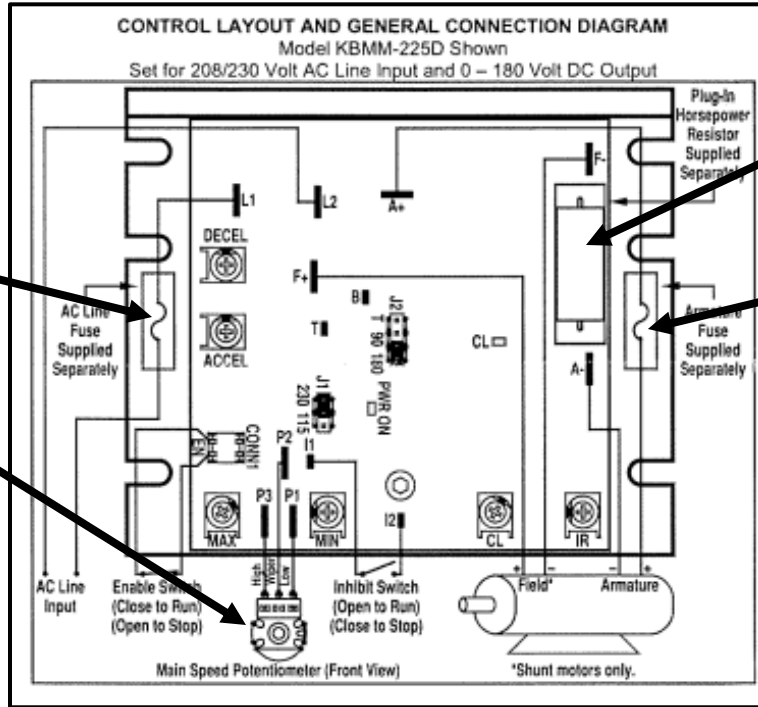
PN#SPSCRDRIVE-1

12 Amp Fuse
PN#SPFUSE12-1

Pot Kit/Speed Control
PN#SPPOT-1

Resistor
PN#SPRES-1

8 Amp Fuse
PN#SPFUSE8-1



7 - ADJUSTABLE TRIMPOTS

The control contains trimpots which have been factory set for most applications. Some applications may require readjustment of the trimpots in order to tailor the control for a specific requirement.

Read Safety Warning.

Note: In order for the IR Compensation and Current Limit settings to be correct, the proper Plug-In Horsepower Resistor® must be installed for the particular motor and input voltage being used.

ACCELERATION (ACCEL): Allows for a smooth start over an adjustable time period each time the AC power is applied or the Main Speed Potentiometer is adjusted to a higher speed. The ACCEL Trimpot sets the time it will take for the motor to accelerate from zero speed to full speed.

Units: Seconds

DECELERATION (DECEL): Sets the ramp-down time when the Main Speed Potentiometer is adjusted to a lower speed.

Units: Seconds

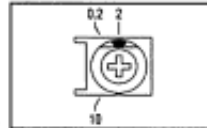
MINIMUM SPEED (MIN): Sets the minimum speed of the motor when the Main Speed Potentiometer is set fully counterclockwise. **Units:** % Base Speed

MAXIMUM SPEED (MAX): Sets the maximum speed of the motor when the Main Speed Potentiometer is set fully clockwise. **Units:** % Base Speed

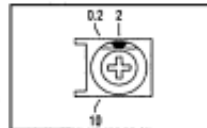
CURRENT LIMIT (CL): Sets the current limit (overload), which limits the maximum current (torque) to the motor. The CL also limits the AC line inrush current to a safe level during startup. **Do not exceed 2 times motor current rating (maximum clockwise position).** **Units:** % Full Load

IR COMPENSATION (IR): Sets the compensating voltage required to keep the motor speed constant under changing loads. If the load does not vary substantially, the IR Trimpot may be set to a minimum level (approximately 1/4 of full clockwise rotation). **Units:** Volts DC

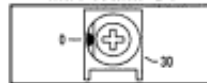
ACCEL TRIMPOT



DECEL TRIMPOT



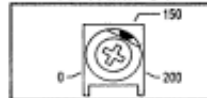
MIN TRIMPOT



MAX TRIMPOT



CL TRIMPOT



IR TRIMPOT

