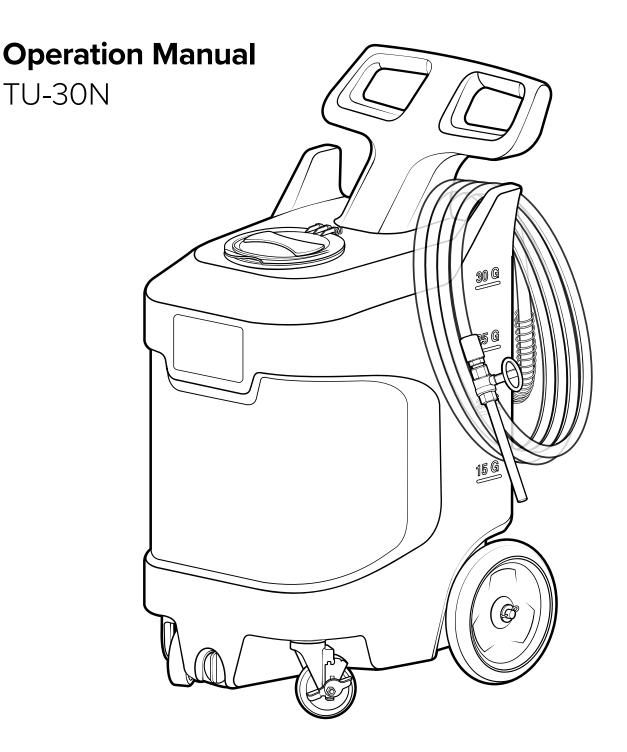
30 Gallon Transfer Unit



READ ALL INSTRUCTIONS BEFORE USING OR SERVICING THIS UNIT. KEEP THIS MANUAL IN A LOCATION THAT IS READILY AVAILABLE TO USERS AND SERVICE TECHNICIANS.

English (Original Instructions)





Scan this code for the operation manual



WARNING

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Using or servicing the unit without appropriate personal protective equipment (PPE) may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear PPE as indicated in the Safety Data Sheet (SDS) when using or servicing the unit. Protect eyes, skin, and lungs against drifting spray.



Chemical solutions may pose a health risk and death if they contact the skin or eyes, are inhaled or swallowed. Always read and follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and the SDS associated with the chemical solution before using the unit.



Pressure within the equipment may cause an unexpected release of the chemical solution and cause serious injury such as burns, rashes, eye damage, throat or lung damage and death. Always depressurize and clean the unit after each use. Never leave the unit unattended while pressurized.

Using the unit with fluid temperatures above 100°F (37.8°C) may result in scalding, burns, serious injury or death. DO NOT use a solution with a temperature above 100°F (37.8°C).

Operating the unit when damaged or leaking may result in exposure to chemical solutions, serious injury or death. Never use the unit if it is damaged or leaking.

Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.



Using incoming air pressure exceeding 100 psi (6.9 bar) may result in pressure buildup, explosion, serious injury or death. DO NOT exceed 100 psi (6.9 bar) incoming air pressure when operating the unit.

Use of hydrocarbons and flammable products may result in explosions, fire and serious injury or death. Never use hydrocarbons or flammable products with the unit.



Mixing an alkaline with an acid may result in a chemical reaction. Overheating of the mixture may cause it to splatter caustic compounds or release hazardous fumes, gas and vapors. Always flush the unit with fresh water thoroughly when switching from an alkaline to an acid or an acid to an alkaline.

NOTICE

Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Use of an air lubricator before the unit may result in diminished performance and damage to the unit. Do not use an air lubricator before the unit.

Moisture in the air lines will damage the pump and diminish the pump life. The air must be filtered, clean, dry and free of moisture. If needed, install an air dryer before the unit.

PROTECT THE ENVIRONMENT



Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations

Product Overview

Requirements

Compressed air requirements	20-80 psi (1.4-5.5 bar) with 2 CFM (56.6 l/min)
Liquid temperature range	40-100°F (4.4-37.8°C)
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

Specifications

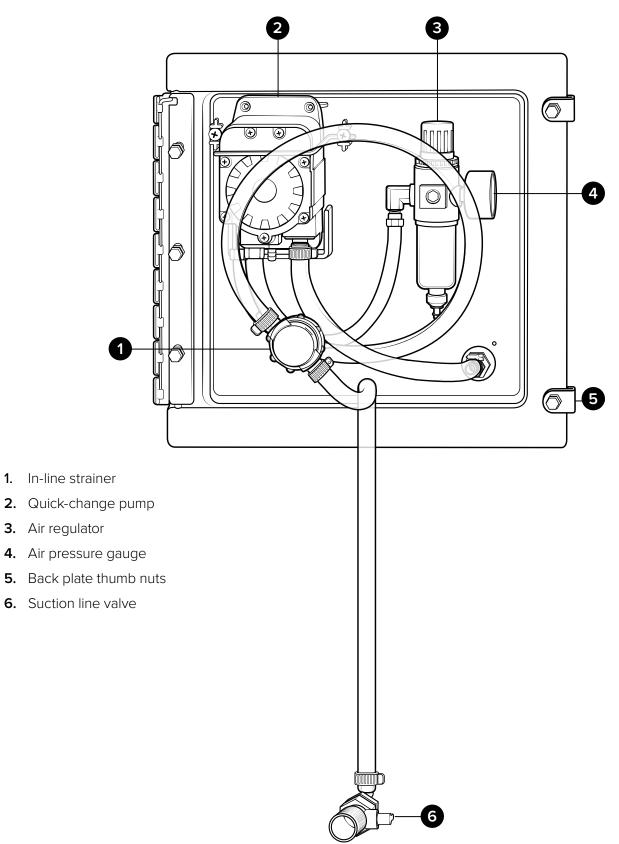
Power type	Compressed air
Chemical pickup type	Draws from pre-mixed or concentrated solution
Number of products unit can draw from	One product
Suction line diameter	½ in. (12.7 mm) inside diameter
Capacity	30 gallons (113.6 liters)
Discharge line length/diameter	15 ft. (4.6 m) hose, with ½ in. (12.7 mm) inside diameter
Discharge wand/tip type	10 in. (25.4 cm) stainless steel wand with zero tip and ball valve 27 in. (68.7) stainless steel curved wand with zero tip and ball valves Polypropylene fill gun with ½ in. hose barb and Hastelloy spring
Flow rate*	3.5 gal/min (13.2 l/min)
Pump seals	Santoprene, Viton, or Kalrez
Wheel type	Two 10 inch (25.4 cm) non-marking wheels, two 5 inch (12.7 cm) casters, one with lock

*Flow rates given are based on chemical with viscosity of water and factory air pressure settings.

Product Components

Get to know the transfer unit components that you will need to use, adjust or assemble.

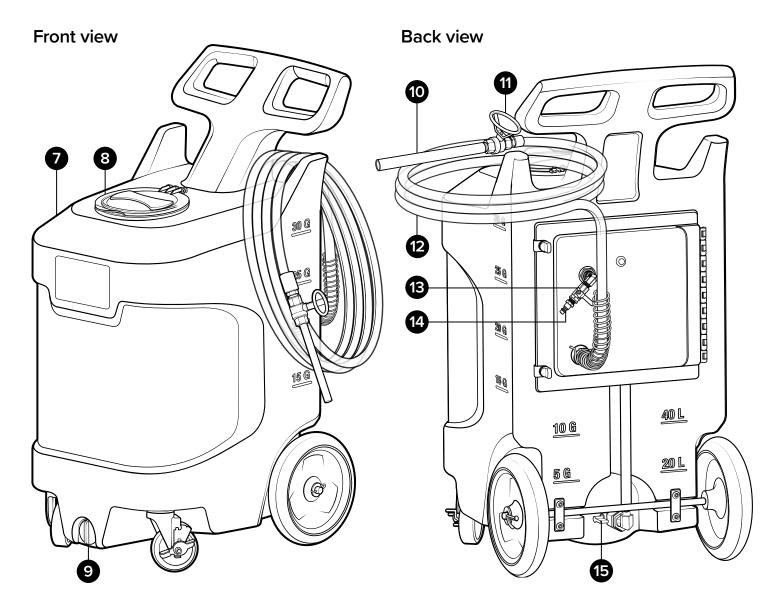
Back plate assembly • Inside view



1.

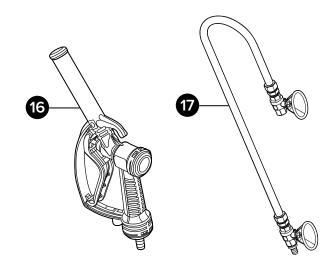
2.

Tank Assembly



- 7. Solution tank
- 8. Hinged lid
- 9. Drain plug
- 10. Discharge wand
- 11. Discharge ball valve
- 12. Discharge hose
- 13. Air inlet valve
- 14. Air fitting
- **15.** Suction line valve
- 16. Poly fill gun
- 17. Curved wand

Additional wand options



Using your unit

Operating Instructions

- 1. Verify drain plug is securely closed.
- **2.** Following all instructions from chemical manufacturer, fill tank with pre-mixed or concentrated solution.
- **3.** Verify suction line valve at base of the suction line is open, allowing fluid into the suction line.
- **4.** With the air inlet valve and discharge ball valve in the closed position, plug an air line into the air fitting.
- 5. Open air inlet valve to allow air flow.

NOTE: Transfer instructions will depend on configuration.

6. Polypropylene Fill Gun:

a. Pull trigger handle on poly fill gun to begin transfer. Release trigger handle to stop.

7. Stainless Wand:

- b. Slowly open the discharge ball valve to begin.
- c. Close discharge ball valve to stop.

8. Curved Wand:

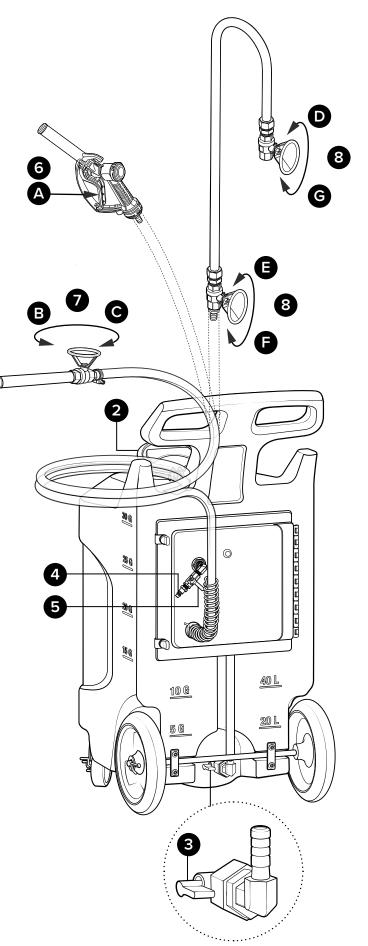
- d. Open top discharge ball valve and position wand.
- e. Slowly open bottom discharge ball valve to begin.
- f. Slowly close bottom discharge ball valve to stop.
- g. Close top discharge ball valve and remove wand.

NOTE: Use caution when removing wand, there may be remaining solution inside that could spill.

9. Close the air inlet valve to stop air flow.

After Use Instructions

- **NOTE:** For proper handling and disposal procedures refer to chemical SDS.
- **10.** Solution should be removed from unit after each use. This can be done in two ways:
 - **a.** Unthread drain plug from front of tank and drain solution into an approved location.
 - **b.** Place discharge wand into approved container to transfer remaining solution. Activate unit until all solution has been flushed from the system.
- **11.** After solution has been removed, disconnect air line.
- **12.** Open discharge ball valve or pull trigger handle to relieve remaining pressure.
- **13.** Close ball valve or release trigger handle after all pressure has been relieved. Store unit with discharge ball valve and air inlet valve closed.
- **14.** Before using unit with another chemistry, thoroughly flush with water.



Maintenance

WARNING

Performing any maintenance with the unit pressurized, and connected to the air supply may result in serious injury or death. Always ensure that the unit has been depressurized, and disconnected from the air supply before conducting any maintenance. Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Maintaining Your Unit

To keep your unit operating properly, periodically perform the following maintenance procedures:

- Inspect the pump for wear and leaks.
- Inspect all hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.
- Replace the filter located within the air regulator as needed. Clean by unthreading the air regulator bowl from the air regulator.
- Check the suction line and strainer for debris. Clean as needed.
- Drain your air compressor tank on a regular basis to help extend pump life. An air source with a high moisture content will accelerate pump wear.

Note: If your air source has a high moisture content, install a water separator to the air fitting on the backplate.

Servicing Your Unit

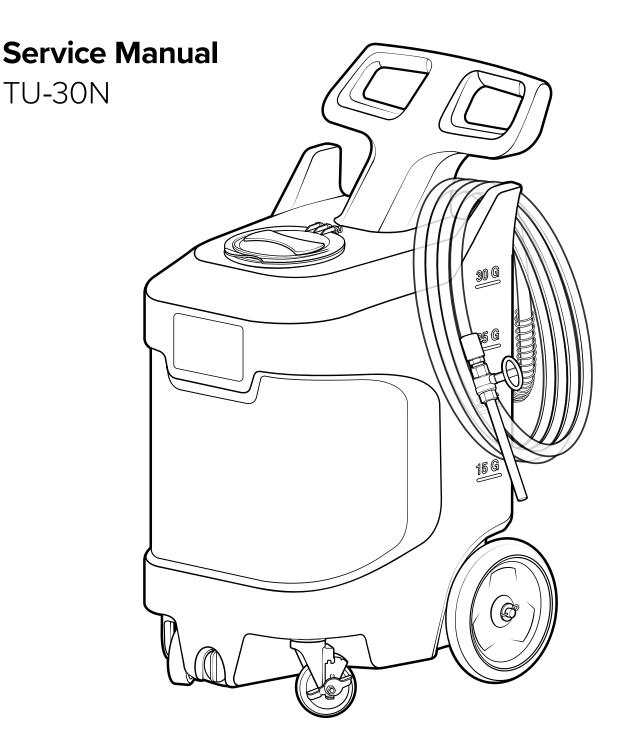
To service your unit, refer to the service manual which includes:

- Troubleshooting procedures.
- Detailed parts breakdowns and illustrations.
- Part numbers of serviceable components and assemblies.





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Service Guide

Performing any maintenance with the unit pressurized and connected to the air supply may result in serious injury or death. Always ensure that the unit has been depressurized and disconnected from the air supply before conducting any maintenance. Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

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- Check the suction line and strainer for debris. Clean as needed.
- Drain your air compressor tank on a regular basis to help extend pump life. An air source with a high moisture content will accelerate pump wear.

Note: If your air source has a high moisture content, install a water separator to the air fitting on the backplate. See Page **8** for more details. (Back plate assembly)

Servicing Your Unit

Most repairs on the unit can be performed with the following tools:

- Crescent wrench (2x)
- ⁷/16 in. (11 mm) open-ended wrench
- Flat head screwdriver
- Thread seal tape

- #2 Phillips head screwdriver
- #3 Phillips head screwdriver
- Hose cutters
- Knife

Troubleshooting Your Unit

If your unit is not operating properly, try using these troubleshooting tips:

Issue	Solution
Air regulator bowl or air filter has debris such as water, oil, or rust particles	Clean by unthreading the air regulator bowl from the air regulator.
Pump is cycling faster than normal	 Verify product is getting to the pump with these steps: 1. Make sure the tank has chemical solution in it. 2. Ensure the suction line valve is open completely. 3. Inspect suction line and strainer for debris or damage. If these steps are confirmed, the pump may need to be replaced.
Pump is cycling slower than normal	 Verify there is no obstruction on the outlet side of system with these steps: 1. Inspect discharge hose assembly for build up. 2. Verify unit is supplied with proper air supply. If these steps are confirmed, the pump may need to be replaced.
Air passes through the pump without cycling	The pump needs to be replaced.
The unit operates at a reduced pressure	 Check suction line and strainer for debris or damage. Clean or replace as needed. To prevent damage to the unit, the strainer must always be used. Check the air compressor supplying the unit. If the pressure is less than 40 psi (2.8 bar), turn off the unit until the compressor can catch up. If the air supply is 50 psi (3.4 bar) or above, check the air gauge, which should read near 50 psi (3.4 bar). If the air gauge reads more or less than 50 psi (3.4 bar), adjust the pressure by turning the knob on the top of the air regulator.

Tank Assembly

Front view

TNKA-30N-TU-BK:

30 gallon natural tank assembly for transfer units - black* lid - includes drain plug, wheels, suction valve, and backplate thumb nuts

LDA-7BK:

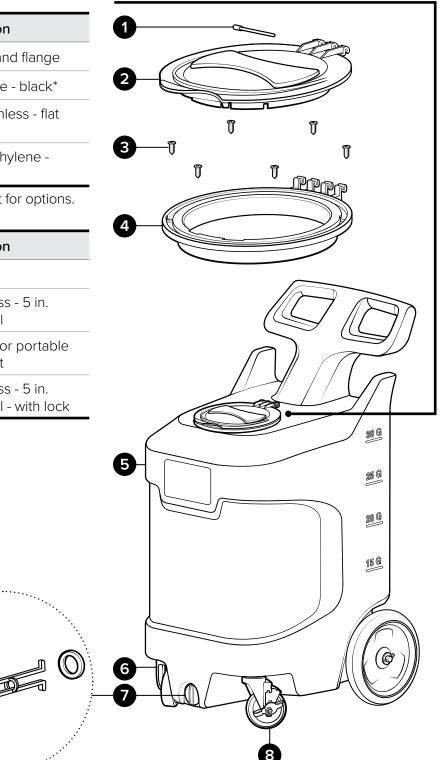
Lid assembly - includes 7 in. $\ensuremath{\mathsf{black}}^*$ lid, lid flange, hinge pin, and mounting screws

I	tem number	Description
1	LD-PIN	Hinge pin for 7 in. lid and flange
2	LD-7BK-LID	7 in. cap - polyethylene - black*
3	S812-FH	#8 x ½ in. screw - stainless - flat head Phillips
4	LD-7BK-FLNG	7 in. lid flange - polyethylene - black*

* Additional colors available, see datasheet for options.

I	tem number	Description
5	TNK-30N	30 gallon natural tank
6	CST5SS	Swivel caster - stainless - 5 in. clearance - 4 in. wheel
7	DPA	Drain plug assembly for portable units - includes gasket
8	CST5SS-L	Swivel caster - stainless - 5 in. clearance - 4 in. wheel - with lock

LDA-7BK



TNKA-30N-TU-BK:

30 gallon natural tank assembly for transfer units - black* lid - includes drain plug, wheels, suction valve, and backplate thumb nuts

BPTNA:

Back plate thumb nut assembly - includes bolt, thumb nut, and tether

Item number		Description
1	BST1420118-VS	¼-20 x 1 ⅛ in. set bolt - stainless - Vibra-Seal
2	TN1420	¼-20 thumb nut - brass insert - assembled with tether

VLVA-PVCV34-TU:

Suction valve assembly for transfer units - includes valve, bushing, and elbow

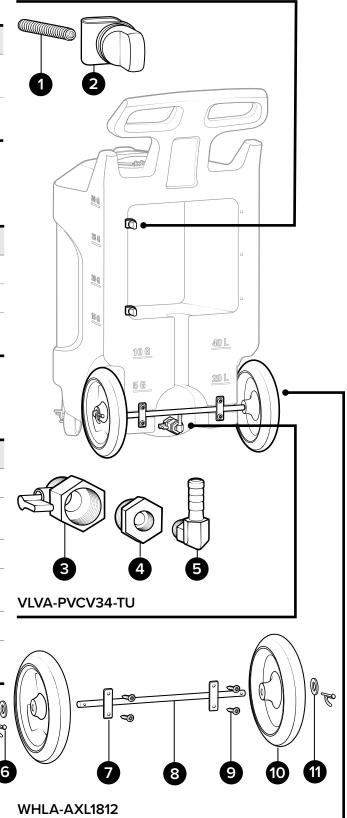
ľ	tem number	Description
3	PVCV34FM	PVC valve ¾ in. FPT x ¾ in. MPT
4	HHPB3412	Hex head poly bushing ¾ MPT x ½ FPT
5	HBSSEL1212	Stainless hose barb ½ MPT x ½ barb elbow

WHLA-AXL1812:

10 in. wheel assembly - includes 18.5 in. axle, axle plate, bolts, washers, and cotter pins

ľ	tem number	Description
6	COT	Cotter pin - stainless - ½ in. x 1 in.
7	PLSS-AXL	Axle plate - stainless - 2.5 in. x 1 in. - 2 holes
8	AXL1812	Axle - stainless - 0.625 dia. x 18.5 in.
9	B142012-VS	1⁄4-20 x 1⁄2 in. bolt - stainless - truss head Phillips - Vibra-Seal
10	W10	Wheel - non-marking - 10 in.
11	FW58	Flat washer for 5% in. pipe - stainless - 0.687 id x 1.5 od x 0.07 thk

BPTNA



Back Plate Assembly

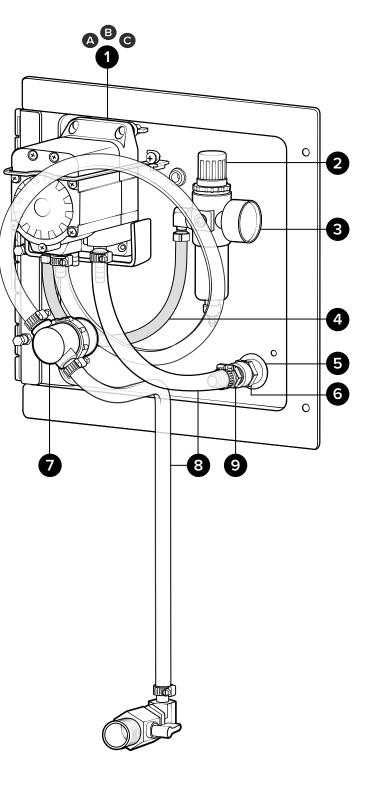
PA-TU12:

Plate assembly for transfer units with $\frac{1}{2}$ in. hose - Santoprene pump

Additional plate assembly pump options:

PA-TU12K: Kalrez pump PA-TU12V: Viton pump

	Item number	Description
1	A P56	Pump with Santoprene seals - includes hose barbs, air fitting, and exhaust barb
	B P56K	Pump with Kalrez seals - includes hose barbs, air fitting, and exhaust barb
	C P56V	Pump with Viton seals - includes hose barbs, air fitting, and exhaust barb
2	R25	Air regulator - two ¼ in. FPT ports - two ½ in. FPT ports - includes filter and bowl
3	AG100	Air gauge - ¼ in. NPT - 100 PSI dry model
4	H14BL-F	¼ in. blue hose - hybrid TPE - available per ft.
5	FW12NPT	Flat washer for ½ in. NPT - stainless88 id x 1.5 od x 0.05 thk
6	SC1212	SS coupler ½ in. x ½ in.
7	STR12-IL	In-line strainer - ½ barb - EPDM gasket - 20 mesh SS - black bowl
8	H12CL-CB	½ in. id clear braid hose - PVC - available per ft.
9	HBSS1212	Stainless hose barb ½ MPT x ½ barb



Back Plate Assembly

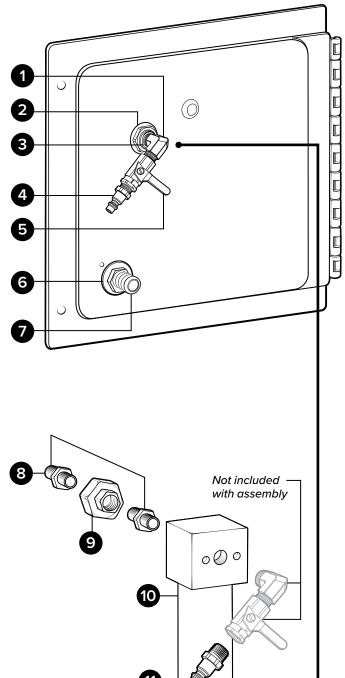
PA-TU12:

Plate assembly for transfer units with 1/2 in. hose -Santoprene pump

Additional plate assembly pump options:

PA-TU12K: Kalrez pump PA-TU12V: Viton pump

lt	em number	Description
1	SEL14M	Stainless elbow ¼ in. MPT x ¼ in. MPT
2	SSSFN12	Serrated flange nut - stainless - ½ in.
3	SSA14BKH	Bulkhead adapter - stainless - ¼ NPT x ¼ NPSM
4	AP14	Air fitting ¼ MPT x plug - nickel-plated brass
5	BVB14	Air inlet valve - ¼ in. FPT x ¼ in. FPT
6	FW12NPT	Flat washer for ½ in. NPT - stainless - .88 id x 1.5 od x 0.05 thk
7	HBSS1212	Stainless hose barb ½ MPT x ½ barb

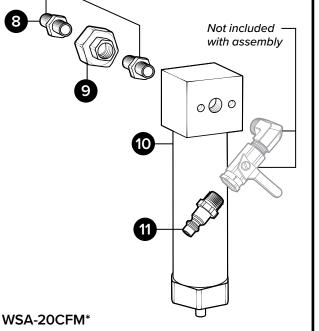


Optional Components

WSA-20CFM:

Water separator assembly - 20 CFM - 1/4 in. FPT ports includes air plug and union fittings

	tem number	Description
8	SN1414	Stainless hex nipple ¼ MPT x ¼ MPT
9	SSU14	Stainless steel union - ¼ in. FPT
10	WS-20CFM	Water separator - 20 CFM - ¼ in. FPT ports
11	AP14	Air fitting ¼ MPT x plug - nickel-plated brass



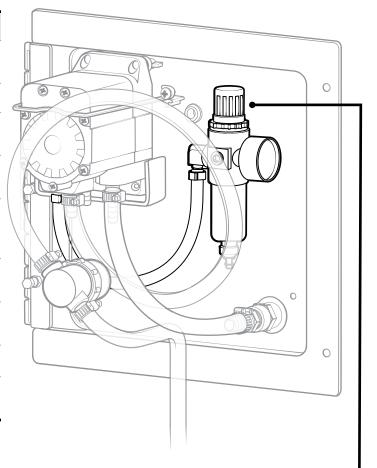
*Optional assembly sold separately

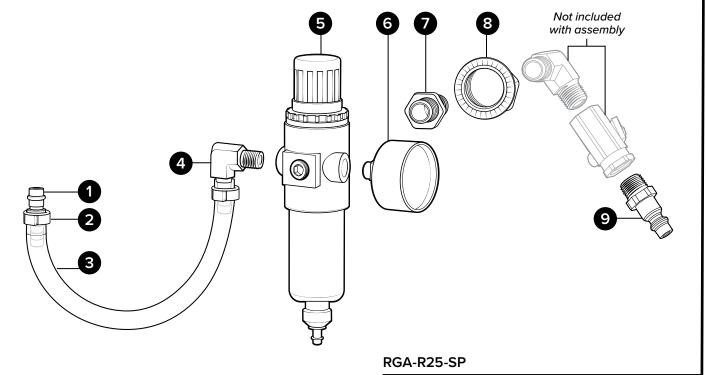
Back Plate Sub-assemblies

RGA-R25-SP:

Air regulator assembly for spray and transfer units - includes air gauge, hose barb elbow, clamps, and bulkhead fittings

ŀ	tem number	Description
1	HBB14P	¼ in. hose barb - brass - for G57/P56 air fitting with o-ring
2	EC14	Oetiker clamp for ¼ in. hose
3	H14BL-F	¼ in. blue hose - hybrid TPE - available per ft.
4	HBSSEL1814	Stainless hose barb ½ MPT x ¼ barb elbow
5	R25	Air regulator - two ¼ in. FPT ports - two ½ in. FPT ports - includes filter and bowl
6	AG100	Air gauge - ½ in. NPT - 100 PSI dry model
7	SSA14BKH	Bulkhead adapter - stainless - ¼ NPT x ¼ NPSM
8	SSSFN12	Serrated flange nut - stainless - ½ in.
9	AP14	Air fitting ¼ MPT x plug - nickel- plated brass





Suction Assembly

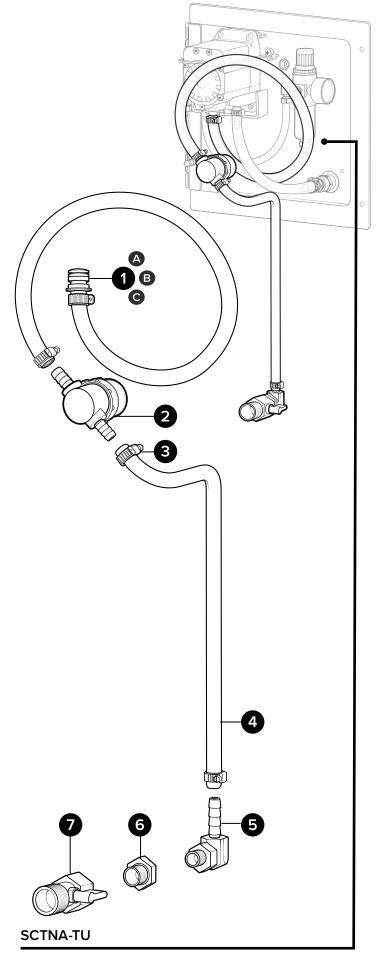
SCTNA-TU:

Suction assembly for transfer units - includes suction valve, hose, in-line strainer, and pump hose barb - for Santoprene pump

Additional suction assembly options:

SCTNA-TUK: Transfer units with Kalrez pump SCTNA-TUV: Transfer units with Viton pump

Item number		Description
1	A HB5638	Hose barb for P56 pump - EPDM o-ring
	B HB5638K	Hose barb for P56K pump - Kalrez o-ring
	C HB5638V	Hose barb for P56V pump - Viton o-ring
2	STR12-IL	In-line strainer - ½ barb - EPDM gasket - 20 mesh SS
3	SSC12	Stainless screw band clamp for ½ in. hose
4	H12CL-CB	½ in. id clear braid hose - PVC - available per ft.
5	HBSSEL1212	Stainless hose barb ½ MPT x ½ barb elbow
6	HHPB3412	Hex head poly bushing ¾ MPT x ½ FPT
7	PVCV34FM	PVC valve ¾ in. FPT x ¾ in. MPT



Hose Assembly

HA12CL-15-CB:

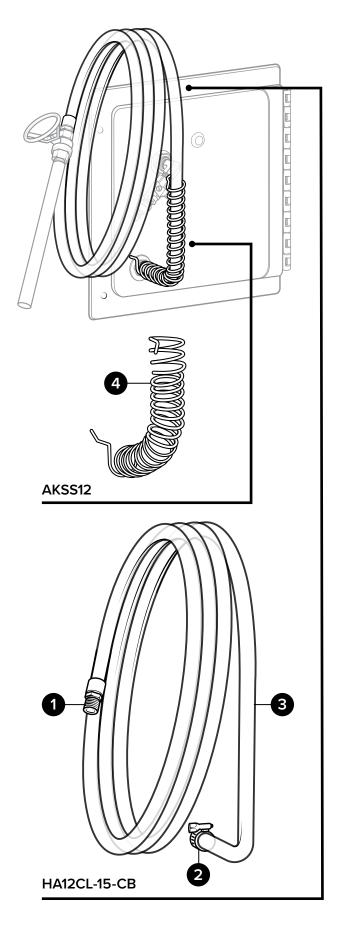
Hose assembly - 15 ft. of $^{1\!\!/_2}$ in. clearbraid hose - includes ferruled hose barb

Item number		Description
1	HBSS1212	Stainless hose barb ½ MPT x ½ barb
2	SSC12	Stainless screw band clamp for $\frac{1}{2}$ in. hose
3	H12CL-CB	½ in. id clear braid hose - PVC - available per ft.

AKSS12:

Stainless anti-kink spring for ${}^{1\!\!/}_2$ in. hose

Item number		Description	
2	AKSS12	Stainless anti-kink spring for $\frac{1}{2}$ in. hose	

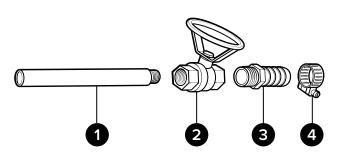


Wand Assembly Options

SSWA1210:

Stainless wand assembly for transfer units with $\frac{1}{2}$ in. hose - 10 in. wand - includes ball valve, barb, and screw band clamp

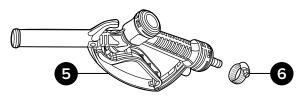
Item number		Description
1	W1210	½ in. NPT wand - polished stainless - 10 in. long - threaded one end only
2	BVSS12	½ in. stainless ball valve - welded nut
3	HBSS1212	Stainless hose barb $\frac{1}{2}$ MPT x $\frac{1}{2}$ barb
4	SSC12	Stainless screw band clamp for $\frac{1}{2}$ in. hose



PFGA-WH:

White polypropylene fill gun assembly for $\frac{1}{2}$ in. hose - includes fill gun, barb, and screw band clamp

Item number		Description
5	PFG12HB	White fill gun - polypropylene - ½ in. hose barb - Hastelloy spring - Viton seals
6	SSC12	Stainless screw band clamp for $\frac{1}{2}$ in. hose



CSSWA1227:

Curved stainless wand assembly for $\frac{1}{2}$ in. hose - 27 in. wand - includes coupling, ball valve, barb, and screw band clamp

Item number		Description
7	CSSW27	³ ⁄ ₄ in. od 180 degree curved wand - polished stainless - 27 in. long
8	CP1234CF	Coupling - ½ in. NPT x ¾ in. od compression fitting - stainless
9	BVSS12	½ in. stainless ball valve - welded nut
10	HBSS1212	Stainless hose barb ½ MPT x ½ barb
11	SSC12	Stainless screw band clamp for ½ in. hose

