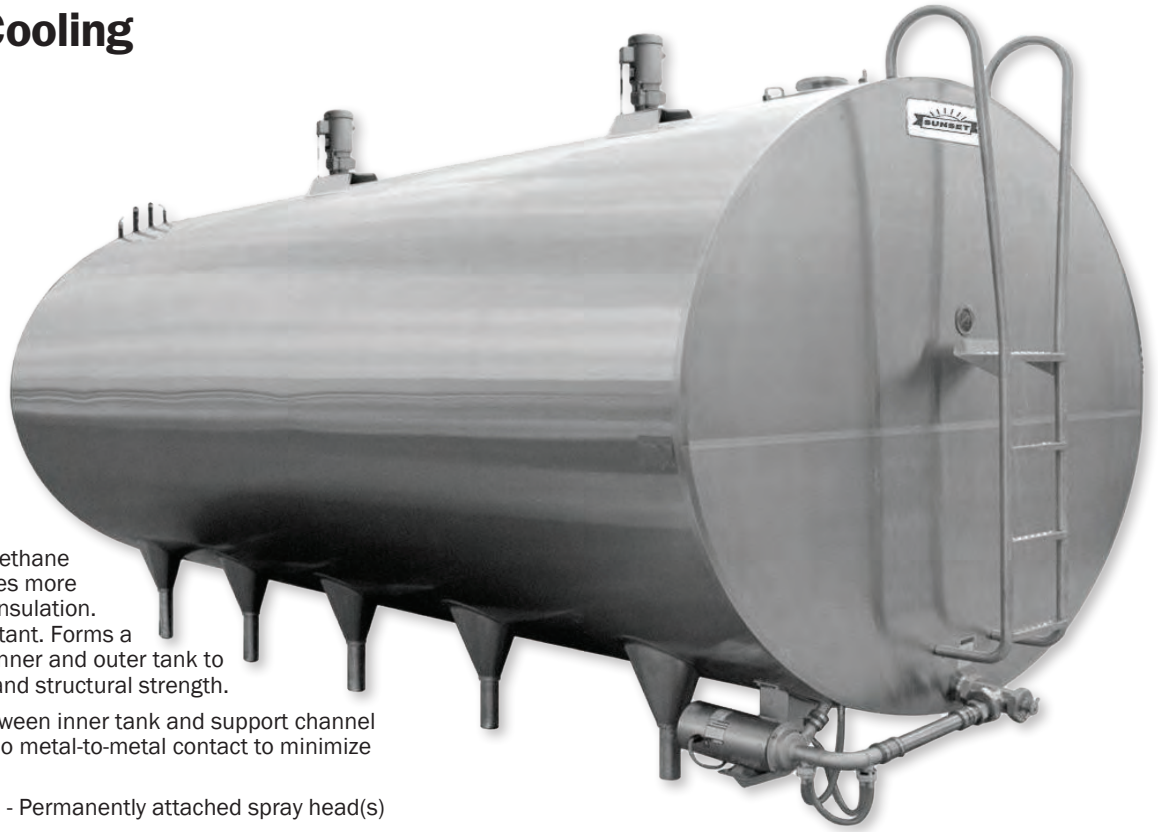


## Safgard™ Cooling Systems



### Features:

- Foam-In-Place Polyurethane Insulation. Three times more effective than other insulation. Highly moisture resistant. Forms a solid bond between inner and outer tank to increase the rigidity and structural strength.
- Thermal Barrier - Between inner tank and support channel assemblies insures no metal-to-metal contact to minimize heat transfer.
- Built-In Wash System - Permanently attached spray head(s)
- Dependable, Heavy Duty Agitator(s) - Handles day-in, day-out agitation. Motors are thermally protected & horizontally attached to gear box which is mounted to tank by a rigid SS adapter plate. (3000-7000 gallon coolers have (2) agitators.)
- Structural Steel Support Channels - Forms a SOLID support for inner tank to assure tank calibration accuracy.

BULK TANKS WITH CONDENSING UNITS	
PART#	DESCRIPTION
47380-G	SAFGARD SDL-1500 GALLON SYSTEM (2-4 HP)
47380-H	SAFGARD SDL-1500 GALLON SYSTEM (2-5 HP)
47380-I	SAFGARD SDL-2000 GALLON SYSTEM (2-5 HP)
47380-J	SAFGARD SDL-2500 GALLON SYSTEM (2-5 HP)
47380-K	SAFGARD SDL-3000 GALLON SYSTEM (2-5 HP)
47380-L	SAFGARD SDL-4000 GALLON SYSTEM (4-5 HP)
47380-M	SAFGARD SDL-5000 GALLON SYSTEM (4-5 HP)
47380-N	SAFGARD SDL-6000 GALLON SYSTEM (4-5 HP)
47380-P	SAFGARD SDL-7000 GALLON SYSTEM (4-5 HP)
47380-Q	SAFGARD SDL-8000 GALLON SYSTEM (4-5 HP)

GLASS CALIBRATION SIGHT GAUGES	
PART#	DESCRIPTION
47380-S	2550-4000 FRONT MOUNTED GAUGE
47380-T	5000-7000 FRONT MOUNTED GAUGE

BULK TANKS LESS CONDENSING UNITS	
PART#	DESCRIPTION
47381-E	SAFGARD SDL-1500 GALLON TANK
47381-F	SAFGARD SDL-2000 GALLON TANK
47381-G	SAFGARD SDL-2500 GALLON TANK
47381-H	SAFGARD SDL-3000 GALLON TANK
47381-I	SAFGARD SDL-4000 GALLON TANK
47381-J	SAFGARD SDL-5000 GALLON TANK
47381-K	SAFGARD SDL-6000 GALLON TANK
47381-M	SAFGARD SDL-7000 GALLON TANK
47381-N	SAFGARD SDL-8000 GALLON TANK
PART#	Tank Lid Gasket
47380-U	Tank Lid Gasket for Sunset/Bou-Matic
CONDENSING UNITS ONLY	
PART#	DESCRIPTION
47382-A	SAFGARD 3 HP CONDENSING UNIT ONLY - 1 PHASE
47382-B	SAFGARD 4 HP CONDENSING UNIT ONLY - 1 PHASE
47382-C	SAFGARD 5 HP CONDENSING UNIT ONLY - 1 PHASE
47382-D	SAFGARD 3 HP CONDENSING UNIT ONLY - 3 PHASE
47382-E	SAFGARD 4 HP CONDENSING UNIT ONLY - 3 PHASE
47382-F	SAFGARD 5 HP CONDENSING UNIT ONLY - 3 PHASE
47382-G	SAFGARD 3 HP CONDENSING UNIT ONLY - 3 PH SCROLL
47382-H	SAFGARD 4 HP CONDENSING UNIT ONLY - 3 PH SCROLL
47382-I	SAFGARD 5 HP CONDENSING UNIT ONLY - 3 PH SCROLL

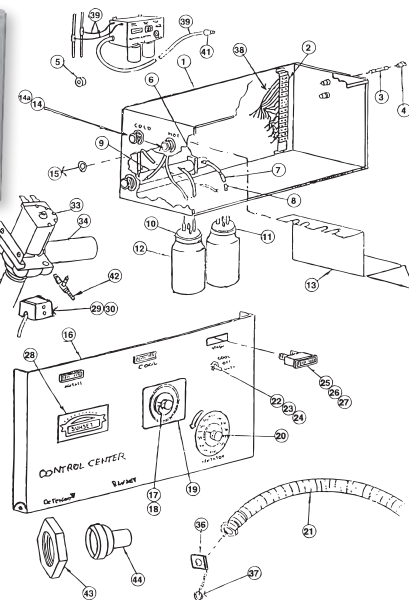
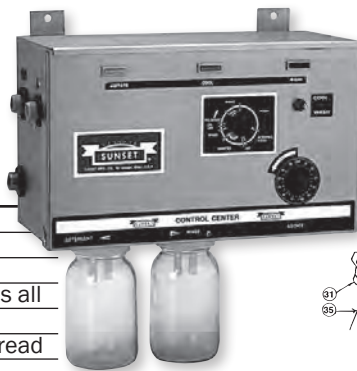
## Sunset Washer-Cooler Controls

**Washer Cooler Control Panel/Solenoid Box**  
Mfr. # 9000003 - **Part# 47384**

**Washer Cooler Control Panel w/Sol. Box & 1-HP Pump Assy.**  
Mfr. # 9000004 - **Part# 47384-1**

### Repair Parts for Snd Controller

KEY	PART#	DESCRIPTION
7	47315-9	5743570 Assembly valve - ball check
9	47309-A	5880200 Manifold assembly
10	47309-7	5880270 Cap and tube assy. - nylon replaces all
11	47309-3	5746370 Jar cover gasket
12	47309-6	5750055 Bottle/glass w/ plastic coated - thread
14	47309-B	5742630 Valve - hot and cold water - 230V
14A	20933-1	5750210 Coil hot/cold 230V blue replace white
17	47309-2	5750135 Timer (6 cycle) 110/220V
18	47309-D	5604770 Pointer knob
19	47309-E	5750140 Decal - washer timer
20	47309-F	7000200 5 min. interval and 2 hr. timer - 230V
31	47314-5	5747500 Solenoid drain valve - 230 solenoid
32	20933-1	5750210 Solenoid coil 230V - same as 14A
37	46679	6005194 2" Threaded cap only
40	47309-G	5749620 Washer supply hose - 11' x 3/4" assy
44	47314-2	600HD16 Adapter 1 1/2" x 1-3/8" (one piece)



### Mueller™ Replacement Parts For Milk Tank Drain and Wash Pump

DESCRIPTION	PART#	MUELLER #
Drain Valve Plastic Parts Kit	47313-A	93081
Mueller™ Drain Valve Complete (Less Orifice)	47313-B	
Drain Valve Stem (Threaded)	47313-C	8804316
Drain Valve Spring	47313-D	30140
Jar Coupler Mueller™/Sunset™	47313-E	N/A
Pump Housing Gasket 6 1/4" O.D.	47313-F	30690
Pump Housing Gasket 8 1/8" O.D.	47313-G	30691
Vent Assembly-Mueller™	47313-H	
Drain Valve Bonnet	47313-I	30943
Drain Valve Piston	47313-J	
Piston Cap for Drain Valve	47313-K	
Drain Valve Nut	47313-L	
1 1/2" Drain Valve Plug	47313-M	30314
2" Drain Valve Plug	47313-N	30452
Piston Jacket for Mueller™ Drain valve	47313-O	
Diaphragm for Mueller™ Drain valve	47313-P	30945
Retrofit Cap and Tube Assembly	47313-Q	
Locking Cap for 1 1/2" Outlet Valve	47313-R	30244
Locking Cap for 2" Outlet Valve	47313-S	30237
Impeller for 1/2 HP & 3/4 HP (3.937" OD)	47313-T	31194
Impeller for 3/4 HP & 1 HP (4.25" OD)	47313-U	31195
Impeller for 1 1/2 HP & 2 HP (5" OD)	47313-V	8802751
Mueller™ Wash Box Manifold Assembly	47313-W	8805637
Mueller™ Shaft Seal Assembly	47313-X	3909
3/4 HP Stainless Impeller	47313-Y	59990
1 1/2 HP Stainless Impeller	47313-Z	59994

### Mueller™ Replacement Parts



47313-A plastic parts kit contains bonnet, bonnet nut, piston, piston cap, body/jacket.

### Mueller™ Replacement Parts Stainless Impellers

DESCRIPTION	PART#	MUELLER #
3/4 HP Stainless Impeller	47313-Y	59990
1 1/2 HP Stainless Impeller	47313-Z	59994

**1/2 HP DC Zero Style Replacement Motor**  
From Indiana General "MAGNETEK" Permanent Magnet D.C. Motor (675-163) for 57" bulk tank  
**Part# 47436**



**1 HP DC Zero Style Replacement Motor**  
(675-274) for 61" and 77" bulk tanks  
**Part# 47437**

**1/4 HP Agitator Gearbox With Dual Voltage Motor**  
Fits All 3-Post Mount - Tanks Up To 1500 Gallons

**3 Post Heavy Duty Motor & Gearbox Assy**  
3/4" Output Shaft, 1/4 HP-115/230 V  
**Part# 47432**

**1/4 HP - Dual Voltage Motor Only**  
C-Face  
**Part# 47434**

**3 Post Mount Gearbox Only**  
**Part# 47433**

**1/3 HP - Agitator Bulk Tank Motor / System**  
110/230V, 1750 rpm, configure to any bulk tank brand  
**Part# 47315-K**



# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Bulk Tank Washer Complete Part# 47315



**Controls  
47315-3**



**1 HP Pump  
47315-2**

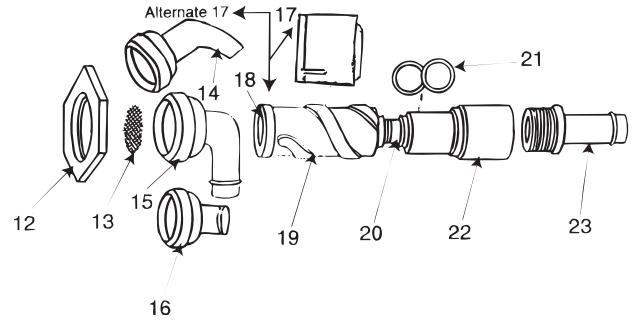
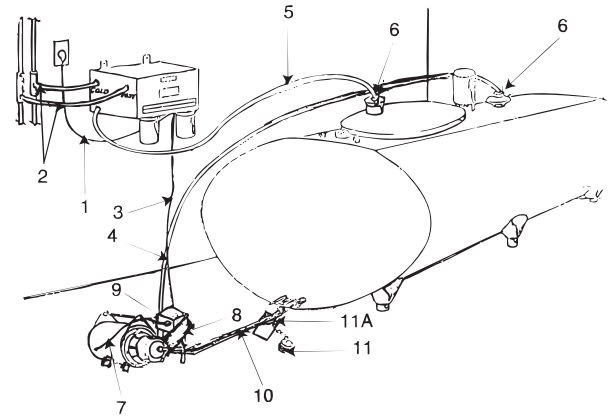
## Sunset Bulk Tank Washer

- 4 or 6 cycle - user has option not to use sanitation cycles.
- Pre-rinse without recirculation--only clean water sprayed into tank and drained directly out.
- Rinse Cycle - Lukewarm water, recirculated, tempers tank interior, drained.
- Wash Cycle - Hot water and detergent recirculated, positive cleaning, then drained.
- Rinse Cycle - Optional acidified rinse, recirculated, drained. OFF (Manual Advance - Some users prefer to skip last two cycles; some prefer to delay sanitizing until just before milking.)
- Sanitize Cycle - Sanitize bulk tank.
- Follow all state & local electrical codes when installing.

65 GPM, 1 HP, 3450 RPM, 115 V Motor, SS controller with signal light, adjustable spinner and easy-to-set 6-cycle automatic control.

## Sunset Washer Parts

ITEM	PART#	DESCRIPTION
1	47312-A	5747960 Power cord
2	47309-4	5744790 Inlet hose
3	47312-B	5747991 Drain cord/change over kit
4	47312-C	600055B 10' of 3/4" tubing for spinner assembly
4A	47312-D	600055A 10' x 1" tube for built-in spray ball (comes with #12 and #14)
5	47309-G	5749620 Supply hose assembly/washer - 11' x 3/4" (hose, clamp, barb, nut, tapered grommet)
6	47312-F	6000033 Tapered grommet 3/4" For 3/4 and 1 HP pumps
6A	47312-G	6000033A Tapered grommet 1/2" For 1/2 and 1/2 HP pumps
7	47312-H	6000055 2' Cord - mtr. to sol box
8	47312-I	5749450 Drain solenoid mounting bracket
9	47312-J	8000022 Drain solenoid box assembly
	47314-7	5749606 HD Drain valve and check over
	47315-4	5749600 HD Coil only for Drain Solenoid (110 Volt)
10	47312-K	6005350 Drain suction 1 1/2" Kanaflex with #12 and #16
11	46678	6005193 1 1/2" Threaded cap
11	46679	6005194 2" Threaded cap
11A	47312-L	6005191 Sanitary bracket with 1 1/2" threaded cap
11A	47312-M	6005192 Sanitary bracket with 2" threaded cap
12	46671	5744150 Nut nylon hex 1 1/2"
12	46673	5744155 Nut nylon hex 2"
13	47312-N	5744796 Stainless steel screen 1 1/2"
14	47312-Q	600012B 1 1/2" Curved adapter
14A	47314-1	600HD15 1 1/2" x 1" Straight adapter
15	47312-5	600012A 1 1/2" x 3/4" Angle adapter
16	47314-2	600HD16 1 1/2" x 1 3/8" Adapter for suction hose
16A	47312-P	600HD162 1 Piece 2" x 1 3/8" Adapter for suction hose
17	47312-7	6000020 Spinner head drilled
	47312-8	6000026 Spinner assy. complete square type
	47312-9	6000027 Spinner assy. cmlpt. barrel type (18, 19, 20, 21, 22)
18	47309-8	6000013 Spinner head cap
19	47312-0	6000014 Spinner barrel
20	47312-2	6000015 Spinner piston
21	47312-3	6000016 Spinner washers (2)
22	47312-1	6000017 Spinner hose cylinder
23	47309-9	6000018 Spinner hose adapter



## Sunset Bulk Tank Agitator System and Parts

DESCRIPTION	PART#	MUELLER #
Ag Assembly Gear Reducer w/ output flange 1/3 hp motor	47315-A	5747812H
Standard Mounting Plate for Gear Reducer	47315-B	5747822
Canadian Delaval Style Mounting Plate	47315-C	5747808
Mounting Plate for Delaval Style Century Series Replacement	47315-D	5747807
Shaft A 3/4" with 1/4" pin hole	47315-E	5610781M
Output Shaft/ Nord	47315-F	5705582M
Output Shaft - 1.125" with pin	47315-G	5705580M
Output Shaft - 7/8" with 1/4" Turn	47315-H	5705585M
Output Shaft Delaval Style Replacement A.C.E. Series	47315-I	5705586M
Output Shaft Mueller Large	47315-J	5705588M
1/3 HP Agitator Motor	47315-K	5747826
Von Wiese 1" Shaft Kit	47315-L	5705589M
Gear Box Only	47315-M	5747812M
Gear Box with Outlet Flange	47315-N	5747812F
Gear Box Mounting Plate and Adapter Shaft	47315-O	5747817M

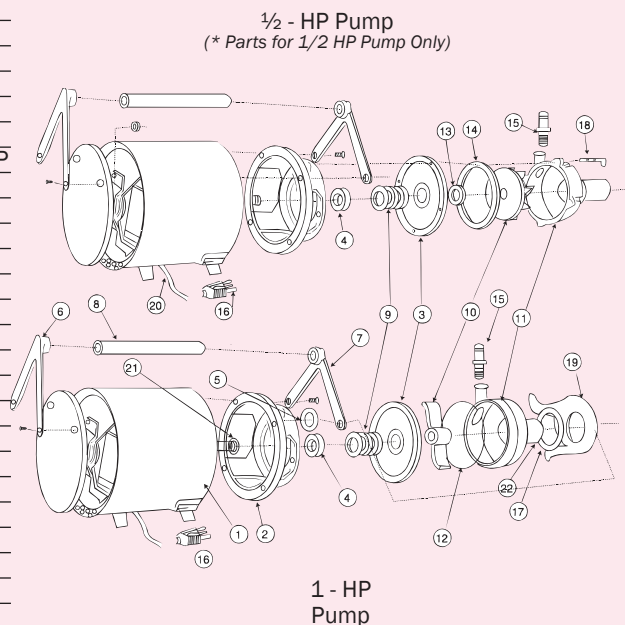


# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Sunset Washer Pump Assy. & Parts - 1 HP And 1/2 HP

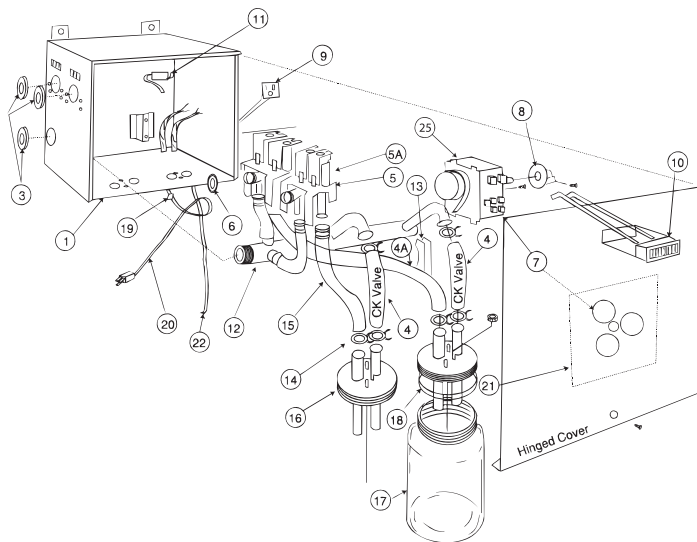
1-HP Pump & Motor - Mfr. # 800020 - Part# 47315-2

ITEM	PART#	DESCRIPTION
	47308-7	600HD25 Mtr. only less SS jacket, 1 HP
1	47308-B	6005370 Mtr. only less pump with SS jacket, 1 HP
1*	47308-C	600024A Mtr. only less pump with SS jacket, 1/2 HP
2	47308-1	600001A Pump adapter, 1/2 HP and 1 HP
3	47308-2	6000HD2 Stainless insert back plate, 1 HP
3*	47308-D	600001B Stainless insert back plate, 1/2 HP
4	47308-E	6000002 Motor shaft collar w/ set screw, 1/2 HP & 1 HP
5	47308-F	600008D Spacer handle
6	47308-G	600008A Handle end, small holes
7	47308-H	600008B Handle end, large holes
8	47308-I	600008C Handle, aluminum tube
9	47308-8	6000004 Shaft seal, 1/2 HP and 1 HP, 5/8" I.D.
10	47308-4	6000HD9 Impeller, 1 HP, plastic - 2 Blade
10*	47308-3	6000009 Impeller, 1/2 HP, full plastic
11	47308-6	600HD10 Pump housing, 1HP
11*	47308-5	6000010 Pump housing, 1/2 HP
12	47309-0	6000HD5 Pump housing "O" ring, 1 HP
13*	47308-L	6000007 Impeller spacer, SS, 1/2 HP
14*	47308-9	6000005 Pump housing gasket, 1/2 HP
15	47308-J	6000021 1/2" Threaded adapter 3/4" barb
16	47308-K	6700019 Cap, 3 prong
17	47308-M	57463710 Spacer rubber, 1 HP
18*	47308-N	6000006 Hook bolt, 1/4 - 20SS, 1/2 HP
19	47308-Q	600HD11 Face frame, bell housing, 1 HP
20	47312-H	6000055 2' Mtr. cord with spade connector
21	47308-P	6000007T Mtr. moisture seal, teflon



## Sunset Washer Control Cabinet Assembly & Parts

Sunset Complete Cabinet Unit  
Part# 47315-3



ITEM	PART#	DESCRIPTION
1	47314-A	6005130 Control box shell
3	47314-C	5965560 Grommet for wire
4	47315-9	5743570 Ball check valve assembly
4A	47314-D	5742821 Black cont. box/manifold tubing
5	47315-7	5742620A Water valve with coil 110 volt, black
5A	20933	5744010 Coil water valve 110 volt
5B	21095	5742631 Repair kit for Dole valve
6	47314-E	57433804 Mexican hat strainer
7	47309-2	5750130 120/220 volt washer timer - all models
8	47309-D	5604470 Black pointer knob
9	47314-F	5747980 Cord-pump harness
10	47314-G	5761781A Indicator light with wire and spade
11		5743780 Use #10
12	47309-A	5880200 Manifold assembly
13	47314-H	5742800 Manifold mounting clamp
15	45792	5742821 Reinforced hose 3/8" per/ft.
16	47309-7	5880270 Cap and tubing assembly
17	47309-6	5750055 Jar, glass with plastic coating
18	47309-3	5746370 Jar gasket
19	47314-I	6809370 Strain relief bushing
20	47312-A	5747960 Power cord
21	47309-E	5750140 Decal for washer timer
22	47314-J	5747991 4 Wire cord, wired to control to sol/pump
23	47309-B	5742630 Water valve 230 volt (not shown)
24	20933-1	5750210 Coil, water valve 230 volt (not shown)
26	47309-1	5750050 Jar, plastic (not shown)

## Safgard™ Bulk Tank Safety Steps

MODEL	DIMENSIONS			LBS.	PART#
	W	D	H		
3 step	18"	10"	24"	38	21866
2 step	18"	10"	16"	27	21852
1 step	18"	10"	8"	13	21850
1 step	8'	10"	8"	29	21864
1 step	6'	10"	8"	24	21860
1 step	3'	10"	8"	18	21858



# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## MP Cooling Tanks

The MP cooling tank series is available in 4 different capacities, covering a range from 15 Gallons to 90 Gallons. These tanks meet the needs of all home, small dairy and cheese production facilities. Fast and stable cooling and maximum energy efficiency are benefits when using any of our MP models. These tanks are fully compliant with all standards and regulations. All tanks run on standard 110V electricity and require no special wiring.

### Features

- Standard 110v operation
- Electronic thermostat
- Enclosed condensing unit
- Adjustable legs
- Waterproof agitator motor
- Highly insulated tanks
- Environmentally friendly R404 refrigerant

- MP15 15 Gallon 21"W x 42"H - Part# 47390**
- MP30 30 Gallon 30"W x 48"H - Part# 47391**
- MP60 60 Gallon 36"W x 49"H - Part# 47392**
- MP90 90 Gallon 40"W x 50"H - Part# 47393**
- MP140 140 Gal - Part# 47394**
- MP170 170 Gal - Part# 47394-1**
- MP225 225 Gal - Part# 47394-2**
- MP285 285 Gal - Part# 47394-3**

Electronic thermostat. All sizes of cooling tank have a built in, programmable thermostat and feature automatic agitation programs for precise cooling. Cools milk from 95°F to 39°F in less than 2 Hours.



Part# 47390

Part# 47393



Part# 47391



## FloClean 3-A Sanitary Turbine Flow Meter

SIZE	DESCRIPTION	PART#
1½"	Turbine flow meter, no hub, less cable, remot mnt. trans	47000
2"	Turbine flow meter, no hub, less cable, remot mnt. trans	47001
2"	Turbine flow meter, 10 ft cable assembly	47000-1
2"	Turbine flow meter, 20 ft cable assembly	47000-2
RED	Remote electronic display	47002

- Provides a local flow rate and volume totalization
- Accuracy of +/- 1% & repeatability of +/- .1%
- Temperatures of up to 300 degrees F (149 degrees C)
- Minimum GPM of .6 to 3.0 - Max GMP of 40 to 400
- Tri-clamp connections
- Interfaces with a variety of PLCs

Part# 47000



## Mag Meter With Pulse Output

SIZE	DESCRIPTION	PART#
1"	Mag Meter with pulse output without display or remote mount	47007
2"	Mag Meter with pulse output without display or remote mount	47008
2"	Mag Meter with pulse output with remote, without display	47008-1
3"	Mag Meter with pulse output without display or remote mount	47009
RED	Remote electronic display	47002

- Open cross section design. No pressure loss, no moving parts
- NEMA 4X standard enclosure
- 2 Standard pulse outputs; solid state relay and open collector output
- Compatible with most existing batch controllers or totalizer displays
- 3A approved
- Long life corrosion resistant liner PTFE

Part# 47008



## Dynasonics Transit Time Ultrasonic Flow Meter

SIZE	DESCRIPTION	PART#
1½"	Ultrasonic meter, 20 ft. cable, remote mnt transmitter & display	47003
2"	Ultrasonic meter, 20 ft. cable, remote mnt transmitter & display	47004
3"	Ultrasonic meter, 20 ft. cable, remote mnt transmitter & display	47005

- Clamps on outside of pipes
- No fluid compatibility issues
- Large, easy to read digital display
- No moving parts to maintain or replace
- Modbus RTU & BACnet MSTP over RS485 ethernet connects & various IP protocols
- Certified for hazardous area installations in North America and Europe

Part# 47004



## Anderson Dairy Load-Out System

Know Exactly How Much Milk Leaves Your Farm. Measure groups, sample groups and loads - take proportional samples and running totals. Accuracy to .025%.

### DS1

Includes IZML Flowmeter connected to the FTT controller/printer encased in a stainless steel enclosure. Allows measurement of group milk weights, running total weights, milking time of each string, and total milking time each 24 hours. Rinse and wash water are not measured. Tape printer keeps a hard copy for management records and assigns a lot number to each string milked. Alarm setpoints can be configured to let milking staff know when to switch milk tanks. Has 2 Relays for Alarms.

### DS2

Flowmeter, control enclosure w/printer & online meter based pneumatic sampler. Same as DS1 but adds a pneumatic sampler which takes a proportional sample regardless of flow rate. Sample a string of cows or a whole tank. These samples can be used for trade with state government approval. Has 2 Relays for Alarms.

### DS3

Flowmeter, with dual display totalizers in ABS enclosure. Allows measurement of group milk weights and running totals on separate displays, which include reset buttons. These figures can be recorded manually.

### DS4

Flowmeter, stainless steel control enclosure w/o printer. Same measurement functions as DS1 but without printer. Has 2 Relays for Alarms.

SIZE	DESCRIPTION	PART#
1½"	DSL #1 (DS1) W/ mag meter, panel, and printer.	47024
2"	DSL #1 (DS1-2) W/ mag meter, panel, and printer.	47025
1½"	DSL #2 (DS2) W/ mag meter, panel, sampler, and printer.	47026
2"	DSL #2 (DS2-2) W/ mag meter, panel, sampler, and printer.	47027
1½"	DSL #3 (DS3) W/ mag meter and rate totalizer.	47028
2"	DSL #3 W/ mag meter and rate totalizer.	47029
1½"	DSL #4 (DS4) W/ mag meter and batch controller.	47030
2"	DSL #4 (DS4-2) W/mag meter and batch controller.	47031
	PSD-51 Diaphragm only for sampler	47034
	Printer ink cartridge	47032
	Printer paper	47033
	Sampler bottle only	47035
	Spring Threads for Sampler Bottle	47035-1
	Printer Assembly	47037



## Anderson Tank Level & Valve Control Monitors

Anderson digital level monitors tell how much milk leaves the farm. Display shows in gallons/ pounds, or liters/ kilograms. Nema 4 type stainless steel enclosures. Used in milk plants for many years, these units are accurate to .5%. Monitor different levels in up to four tanks with the LiquiTrack-400. Alarm relays for high levels are included in the LiquiTrack-400. Can automatically switch milk flow to appropriate tank.



DESCRIPTION	PART#
Pulse 100 (1 tank) w/relays wall mount	46542
LiquiTrack 400 (1-4 tanks) w/relays wall mount	46638
LiquiTrack 800 (1-8 tanks) w/relays panel mount	46639
Level transmitter with 25' cable	46544
Shell for transmitter (1 req. per trans.)	46544-1
Transmitter silicone gasket	46544-2
Transmitter plug for long shell	46544-3
Wiring Plug Connecting Kit	46544-4
Wiring Plug Only Adapter	46544-5
Cable Side Plastic Adapter	46544-6
15 AMP AC Inlet Fuse	46544-7
50 MA Channel Fuse	46544-8
SL Level transmitter with 50' cable	46545
SL Level transmitter with 75' cable	46546
SL Level transmitter with 100' cable	46547
Dart 1½" RTD with 25' cable	46554
Dart digital ref. thermometer 115V	46552
Dart digital ref. thermometer 230V	46553

## Guardian I Temperature Recorders

- Complete package includes pre-wired sensor and cable.
- Digital display and high temperature alarm relay standard.

The "Guardian" provides the farmer with a hard-copy record of how his milk is being cooled and stored, as well as the time and temperature of his cleaning cycles. He'll be able to optimize his cooling, protect against "hot"-loads, and insure the tank was properly cleaned and sanitized before re-use. The standard digital display and high temperature alarm relay provide early warning signals of potential problems.

The "Guardian" ships to you as a complete package, including a pre-wired sensor (no more bulky, hard to install capillaries), ready to install on the tank, or up to 50' away. Charts are available in F. or C. for 12, 24, 48, 72 hour, or 7 day rotations.

Anderson Guardian I Recorders-1 Pen	Part#
Guardian I w/hi & low-temp alarm relay and 25 ft. RTD	46602
Guardian I w/hi & low-temp alarm relay and 50 ft. RTD	46604

Parts for Anderson Guardian Recorders	Part#
Guardian temp sensor RTD 3/8" by 25 ft.	46606
Guardian temp sensor RTD 3/8" by 50 ft.	46607
Guardian temp sensor RTD 3/8" by 75 ft.	46607-2
Guardian temp sensor RTD 3/8" by 100 ft.	46607-3
Guardian Red pen (5 per pack) 30° - 180° F also for AJ300	46608
Green pens for Guardian III Recorder (5 per) also for AJ300	46550-1
Pen drive motor kit	46607-4
Chart drive motor	46607-5
Guardian I - PCB board Only with switch	46602-1
Guardian I - Platen Assembly	46607-7
Chart Hold Down	46607-8
Pen Arm	46607-9



Replacement Charts (Box of 100)	Part#
24 hr. charts 30° - 180° F-Guardian I/III	46609
48 hr. charts 30° - 180° F-Guardian I/III	46609-1
72 hr. charts 30° - 180° F-Guardian I/III	46609-2
7 day charts 30° - 180° F-Guardian I/III	46609-3
12 hr. charts 30° - 180° F-Guardian I/III	46609-4
48 hr. charts 0° - 80° C-Guardian I/III	46610-1
7 day charts 0° - 80° C-Guardian I/III	46610-3

Thermowells	Part#
1 1/2" Tri Clamp Thermowell	46613
2" Tri Clamp Thermowell	46614
2" Drywell Tube, 8" Long with Tri Clamp	46615



## Guardian III Temperature Recorders

The "Guardian III" continuously monitors and documents critical storage and wash cycle temperatures and provides alerts when temperatures deviate from set points. An alarm light on the front of the unit, as well as an optional bright signal beacon alert the producer of improper milk cooling or wash cycles on Mid and Full Level units. A version is also available which adds a "smart alarm" feature to meet Canadian milk quality guidelines and also manage milk room equipment.

**Anderson Guardian III Recorders**  
**Note: RTD Must Be Ordered Separately**

DESCRIPTION	PART#
Guardian III Basic Level w/2 pens (24 hr)	46611
Guardian III Basic Level w/2 pens (48 hr)	46611-1
Guardian III Basic Level w/2 pens (72 hr)	46611-2
Guardian III Basic Level w/2 pens (7 day)	46611-3

Parts for Anderson Guardian Recorders	Part#
Guardian temp sensor RTD 3/8" by 25 ft.	46606
Guardian temp sensor RTD 3/8" by 50 ft.	46607
Guardian temp sensor RTD 3/8" by 75 ft.	46607-2
Guardian temp sensor RTD 3/8" by 100 ft.	46607-3
Guardian Red pen (5 per pack) 30° - 180° F	46608
Green pens for Guardian III Recorder (5 per pack)	46550-1
Pen drive motor	46607-4
Chart drive motor	46607-5

# Milk Tanks, Milk Measurement, Plate Coolers, Chillers



### AJ-300 Recorder / Recording Controller

The new AJ-300 is designed specifically for sanitary fluid processing applications. Available in single or dual pen versions, these units record on the largest 12" charts in the industry for maximum resolution and readability. Simple keypad programming with modular relay and 4-20 mA output options.

DESCRIPTION	PART#
AJ-300 Tank Pasteurizer Recorder	46558
12 hr. Pasteurizer chart 12" 90-190 deg.	46558-1
7 day AJ-300 chart 12" 0-200 deg.	46558-2
7 day AJ-300 chart 12" 30-230 deg.	46558-3
Chart Drive Motor and Hold Down	46558-4
Guardian Red Pens (5 per Pack) for AJ-300	46608

### Poly Cabinet Chart Box Part# 46618



PARTS FOR PARTLOW MODEL J786A	PART#
Chart drive nut	46630
Cover latch kit	46630-3
50 pressure sensitive charts - 24 hr.	46633
50 pressure sensitive charts - 48 hr.	46633-1
50 pressure sensitive charts - 7 day	46633-2
100 ink type (regular) charts - 24 hr.	46634
100 ink type (regular) charts - 48 hr.	46634-1
100 ink type (regular) charts - 7 day	46634-2
Replacement cartridge for 404 pen assy. - 5/pkg.	46644
404 pen assy. 5/cartons and 1 arm	46645

### CHARTS/Parts for Other Recorders

Palmer Charts 12B130	Taylor Ink Charts (100 / Pkg)
100/pkg. - <b>Part# 46621</b>	24 Hr. - <b>Part# 46622</b>
24 Hr. - <b>Part# 46622</b>	48 Hr. - <b>Part# 46623</b>

### AJ-300 Vat Pasteurization Package

Package consists of an AJ-300 recorder along with two dual element all stainless steel temperature probes. One probe is used for monitoring airspace temperature and the other is used for product temperature. Each probe has an integral display that is easily viewable.

**Part# 46600**



### AV-9000 Four Pen Color Recorder

The most advanced recorder that can be adapted to control HTST Pasteurizers. Prints its own colored charts.

**Part# 46548**



DESCRIPTION	PART#
Chart for AV-9000	46548-1
4 Color Pen Cartridge	46644-3



**DTG - Sanitary SS Digital Temp Gauge with 9 1/8" Probe (for retort applications)**  
Legal for trade and PMO.  
**Part# 46556-1**

**DTG - Sanitary SS Digital Temp Gauge with 9 1/8" Probe**  
For milk tank with threaded thermo-well.  
**Part# 46556**

**90mm Standard Sanitary SS Vac/Pressure Gauge**  
Can be mounted on milk lines.  
**Part# 46549**

### Thermowell w/Strain Relief

DESCRIPTION	PART#
1 1/2" Tri-Clamp	46613
2" Tri-Clamp	46614

## Safgard™ CIP Washing Spray Balls

At Schluter we work with you to find the right spray solution to meet your requirements. All our static spray balls are manufactured in the USA and have quick turnaround. We stock many standard designs for your availability. They are custom engineered made for your process and all are sanitary designed to meet 3-A standards. Made with 316L stainless steel and sanitary finish of 32 Ra (#4). Offered with standard Bayonette Pin or Wrap-Around Clip Available.

### Spray Balls/Pins for Closed Top Tanks

- For vertical or horizontal closed top tanks.
- Apply multiple balls for larger tanks.

**4" Spray Ball/Pin Upper Spray Pattern Model SB-1-40**  
1" Slip Collar,  
Rated 40 GPM @ 25 PSI  
**Part# 31405**

**4" Spray Ball/Pin Upper Spray Pattern Model SB-1-40**  
1 1/8" Slip Collar,  
Rated 40 GPM @ 25 PSI  
**Part# 31406**

**4" Spray Ball/Pin Upper Spray Pattern Model SB-1-40**  
1 1/2" Slip Collar,  
Rated 40 GPM @ 25 PSI  
**Part# 31410**

**4" Spray Ball/Pin Upper Spray Pattern Model SB-1-80**  
Rated 80 GPM @ 25 PSI, 1" Slip Collar  
**Part# 31398**

**4" Spray Ball/ 1.5" Slip Collar Model SB-5-4 360 deg. Pattern**  
Rated 40 GPM @ 25 PSI  
**Part# 31452**

**4" Spray Ball/Pin (Specify Pattern) Model SB-3-S-4, 1.5" Slip Collar**  
**Part# 31422**

**4" Spray Ball/ 360 deg. Pattern**  
Rated 40 GPM @ 25 PSI  
1.5" Slip Collar,  
**Part# 31422-1**

**4" Spray Ball/Pin Down Spray Pattern Model SB-4-40**  
Rated 40 GPM @ 25 PSI, 1.5" Slip Collar  
**Part# 31439**

**3" Spray Ball/ 1.5" Slip Collar Model SB-5-3 360 deg. Pattern**  
Rated 40 GPM @ 25 PSI  
**Part# 31453**

**2.5" Spray Ball/ 1.5" Slip Collar (Specify Pattern)**  
Rated 40 GPM @ 25 PSI  
**Part# 31445**

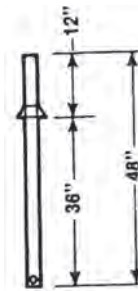
**2.5" Spray Ball/ 1.5" Slip Collar Model SB-1-2.5**  
Rated 40 GPM @ 25 PSI  
**Part# 31450**

**2.5" Spray Ball/ 1.5" Slip Collar Model SB-5-2.5 360 deg. Pattern**  
Rated 40 GPM @ 25 PSI  
**Part# 31454**

**2" Spray Ball / 1.5" Slip Collar Model SB-3-2 (Specify Pattern)**  
Rated 40 GPM @ 25 PSI  
**Part# 31442**

**2" Spray Ball/ 1.5" Slip Collar Model SB-5-2 360 deg. Pattern**  
Rated 40 GPM @ 25 PSI  
**Part# 31455**

**4" Spray Ball / Pin Angle Pattern Model SB-2-40**  
**1 1/2" Slip Collar**  
**Part# 31411**



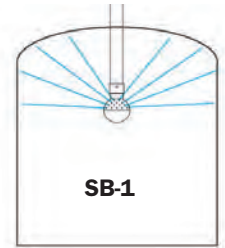
### Solution Supply Tubes

**ST-1-1 1/2" Tube x 48" long**  
**Part#: 31413**

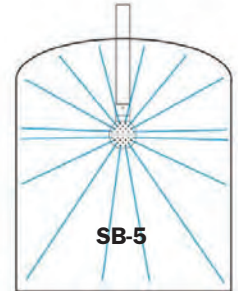
**ST-1-2" Tube x 48" Long**  
**Part: 31412**

**ST-1-1.5 Tube x 6" Long**  
**Part# 31613-1**

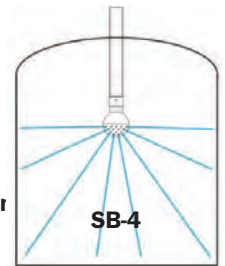
**ST-1-2 Tube x 6" Long**  
**Part# 31412-1**



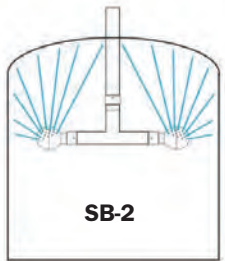
SB-1



SB-5



SB-4



SB-2

### Spray Ball Pins/Clips

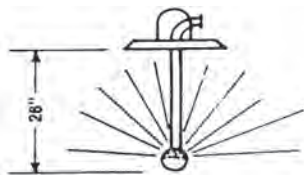
**3/16" Hairpin for 1.5" Slip Connector**  
**Part# 31419**

**3/8" Hairpin for 2" Slip Connection**  
**Part# 31474**

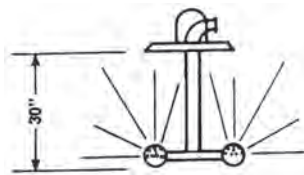
**1/8" Hairpin for 1.5" Slip Connectio**  
**Part# 31418**

**1.5" Wrap Around Clip**  
**Part# 31419-1**

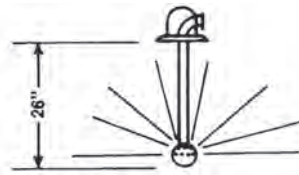
**2" Wrap Around Clip**  
**Part# 31474-1**



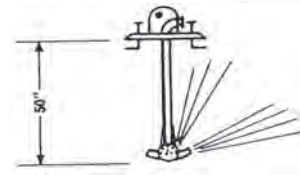
**Tanker Washer Model TS-1**  
Rated 40 GPM @ 25 PSI  
• Drop-in tanker spray washer  
• SB-1-80 GPM Spray Ball  
**Part# 31425**



**Tanker Washer Model TS-2**  
Two SB-2-40 GPM Spray Balls  
• Drop-in tanker spray washer  
**Part# 31426**



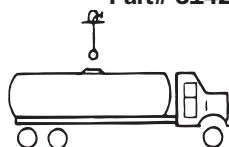
**Tanker Washer Model TS-3**  
SB-3-40 GPM 3" Spray Ball  
• Drop-in tanker spray washer  
**Part# 31427**



**Tanker Washer Model TS-4**  
Req 120 GPM at 55-60 PSII  
• Drop-in tanker spray washer  
**Part# 31428**



TS-4

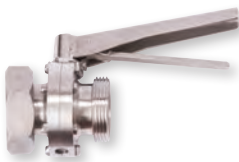


**TS-1 Tanker Washer for up to 12' tanker,**  
**TS-2 up to 16' tanker,**  
**TS-3 up to 20' tanker (need 2),**  
**TS-4 for 20'-40' tankers.**

# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Safgard™ Bulk Tank Valves

SIZE	DESCRIPTION	PART#
1½"	Bevel seat w/ nut to thread	44535-1
1½"	Tri-Clamp to thread	44535-2
2"	Bevel seat w/ nut to thread	44536-1
2"	Tri-Clamp to thread	44536-2
3"	Bevel seat w/ nut to thread	44538-1
3"	Tri-Clamp to thread	44538-2



## Agitator Shaft Shields

¾", 1", 1½", & Blank

DESCRIPTION	PART#
4½" Dia. W/ ¾" Hole	47313-1
4½" Dia. W/ 1" Hole	47313-2
4½" Dia. W/ 1½" Hole	47313-3
4½" Dia. W/O Hole	47313-4



## Discharge Pipe Drip Shield

1½" ID x 2½" OD  
Part# 45605



## Bulk Tank Covers

DESCRIPTION	PART#
Cover only, plain - 7 ¼" Dia.	26650
Cover with 1½" hole - 7 ¼" Dia.	26651
Cover with hole and clip - 7 ¼" Dia.	26652

COVER WITH TUBULATIONS FOR:	PART#
⅝" hose	26654
¾" hose	26649
7/8" hose	26653
1" hose	26657



## Tank Lid Gasket For Sunset™ Bou-Matic™ DeLaval™ Style Tanks

Part# 47380-U

## 1½" Drawn Hole Plug

Part# 26648



## Threaded Plugs for Tank Hose

DESCRIPTION	PART#
1½"	46678
2"	46679



## 1½" - 3" Threaded Closures

SIZE	DESCRIPTION	PART#
1½" Female	w/o chain closure	46680
1½" Female	w/ chain closure	46681
1½" Male	w/o chain closure	46682
1½" Male	w/ chain closure	46683
2" Female	w/o chain closure	46684
2" Female	w/ chain closure	46685
2" Male	w/o chain closure	46686
2" Male	w/ chain closure	46687
2½" Female	w/o chain closure	46688
2½" Female	w/ chain closure	46689
2½" Male	w/o chain closure	46690
2½" Male	w/ chain closure	46691
3" Female	w/o chain closure	46692
3" Female	w/ chain closure	46693
3" Male	w/o chain closure	46694
3" Male	w/ chain closure	46677
4" Female	w/o chain closure	46669-1
4" Female	w/ chain closure	46669-2
4" Male	w/o chain closure	46669-3
4" Male	w/ chain closure	46669-4



## Stainless Steel Hose Chutes

Continuous hinge with brass pin for long lasting operation.

WALL SIZE	MATERIAL	PART#
5" thru 9"	Stainless Steel	46125-S
7" thru 13"	Stainless Steel	46126-S

\*6" x 6" Wall hole required for all sizes.



## SS Hex Nut

SIZE	PART#
1½"	45204
2"	45205
2½"	45206
3"	45207
4"	45208



## Plastic Hex Nut

SIZE	PART#
1½"	46671
2"	46673
3"	46673-1

## Plastic End Cap

SIZE	PART#
1½"	46672
2"	46674
3"	46674-1



## 15SWX Threaded

SIZE	PART#
1½"	46733
2"	46734
2½"	46735
3"	46736



## 25 H Wrench

SIZE	PART#
1½"	44681
2"	44682
2" x 1½"	44682-1
2½" x 2"	44682-2
2½"	44683
3"	44684
3" x 2"	44684-1
4"	44685



## SS Milk Tapper

DESCRIPTION	PART#
1½"	45236
2"	45237
3"	45235

(Made with bevel seat end cap)



## Bulk Tank Reducers

DESCRIPTION	PART#
Stainless Steel 2" bevel seat to 1½" threaded	46668
Stainless Steel 2" threaded to 1½" bevel seat w/ nut	46675
Plastic 2" bevel to 1½" threaded	46670
Plastic 3" bevel to 2" threaded	46670-1



# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Pocket Thermometer Part# 46285

- 1" diameter dial
- 5" stem length
- Ranges 0° - 220° F.
- External recalibrator
- Plastic carrying case
- 1% accuracy



## Screw In Thermometer Part# 46284

- 1/4" NPT Fitting
- 2" Long Stem

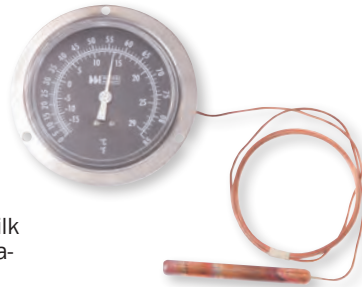


## 1/4" Screw-in Thermometer Coupling for Pipeline Part# 46284-1



## SS Bulk Tank Thermometer Part# 47383

- 3.5" diameter W/mtg. Flange
- 5' Capillary tube
- 0-85 degrees Fahrenheit



Universal fit. Fits directly on to most bulk milk coolers with no modification. Will fit all other milk coolers with only minor modification to the dry-well.

## Kuri Tec High Pressure Tubing

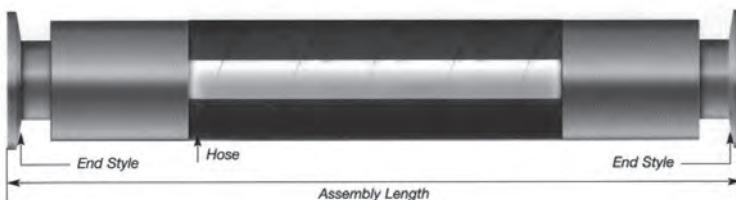
- Longitudinally reinforced to reduce elongation under pressure
- Crystal clear polyvinyl chloride
- Reinforced with spiraled polyester cords
- Self extinguishing
- Ozone and atmospheric resistant
- Chemical resistant
- Non-toxic compounds
- Glass smooth interior
- Temperature range 25° F (-4°C) to 150° (65°C)
- Non marking
- Lightweight

DESCRIPTION	PART#
1/4" x 7/16"	45790
5/16" x 17/32"	45791
3/8" x 9/32"	45792
1/2" x 3/4"	45793
5/8" x 5/64"	45794
3/4" x 1 1/32"	45795
1" x 1 5/16"	45796
1 1/4" x 1 5/8"	45797
1 1/2" x 1 15/16"	45798



## Rubber Fab™ Custom RF-FDA Hose with Tri-Clamp or Bevel-Seat Fittings.

Food grade, nitrile lined, seamless. Order your special hose by size, fitting style(s), and hose length. You may combine tri-clamp and bevel seat fittings on the same hose eliminating costly adapters. Contact us.



## Sanitary Lubricants Petro Gel

Use on Valves, "O" Rings, Gaskets and Slides

### Part# 49989

Contains USP Mineral Oil and other USP ingredients. It is absolutely tasteless and odorless. Will not taint when coming in contact with food products. Impervious to water. 12/box



## Lubri - Film Spray

Sold by Case (6 - 11.25 spray per case)

### Part# 49988

Heavy duty lubricating spray. USDA Rated.

## Cleaning & Cooling SS Pump and Motor Frame Part# 45738



## Strap-On Water Heater Element 3' long / 1" wide galvanized wrap around band heater.

VOLTAGE	WATTAGE	PART#
110V	750	22030



## Stainless Steel Milk Sample Dippers

OZ.	LENGTH	PART#
2	20"	31759
3	20"	31760
4	20"	31761
2	36"	31759-1
3	36"	31760-1
4	36"	31761-1
8	20"	31764



## Special Order

SIZE	DESCRIPTION	PART#
1 1/2"	Tri-clamp fitting	45985
2"	Tri-clamp fitting	45986
3"	Tri-clamp fitting	45988
1 1/2"	Bevel seat w/nut	45990
2"	Bevel seat w/nut	45991
3"	Bevel seat w/nut	45993
1 1/2"	Hose (per foot)	45980
2"	Hose (per foot)	45981
3"	Hose (per foot)	45983

## Safgard™ Cool Milk Stainless Steel 4" Shell-And-Tube Heat Exchanger

Part# 48570

**Body:** 4" clamp shell 45.0" long. Total length 52.0" with ends 1.5" clamp.

**Tubes:** 15 - 5/8" ID Tubes have about 10 SQ FT of heat exchanging area.

**Weight:** 42 LB Completed Weight: 50 LB

**Material:** All 304 Stainless polished OD on the shell and ID in the tubes to meet 3-A standards.

**Side Inlets:** Two 3.0" male NPT.

**Uses:** Exchange heat or cold for liquid to liquid or air to liquid or air to air.

**Instructions:** The product being heated or cooled needs to flow in reverse directions. Use multiple units to make double pass heat exchangers.

### Uses

- Milk pre-cooling before the milk tank
- Milk heating, to make calf milk pasteurizer
- Cooling milk or juices to the filler machine
- Vacuum pump exhaust heat reclaiming to make hot wash water
- Boosting wash water temperature in a CIP system
- Replaces heat exchangers with defective gaskets
- In-floor heating



## Sunset™ Heat Reclaimer

### Operating Principle

Heat recovery storage tank is located between compressor and fan controlled air condensing unit. Hot gas is pumped from tank to heat recovery unit and through a mild steel dimple plate.

Heat is transferred from the plate to water in the tank. Unit also acts as a condenser to absorb the condensing load in hot water.

*NOTE: Most dairy markets require a backup hot water heater. The 120E has a heating element; therefore, no additional water heater is required.*

### Product features

- Glass lined storage unit
- Mild steel heat exchanger (more efficient than S.S. plate)
- Fiberglass insulation/metal, coated outer jacket
- Aluminum anode
- Safety valve
- 110/170 thermostat on Model 120E
- 5 year limited warranty

THREE MODELS	SHRP-80	SHRP-120*	SHRP-120E*
*TWO PLATES			W/ELEMENT
PART#	47377	47378	47379
Capacity	80 Gal.	120 Gal.	120 Gal.
Overall Height	61"	64"	64"
Diameter	24"	28"	28"
R12-Gas	3 Ton	10 Ton*	
R22-Gas	10 Ton	125 Ton*	

\* Max. cap. for 120 dual is combined total for both plates.



## Zelos Wall-Mounted Heat Exchanger

A heat exchanger to take heat from compressors, refrigeration and air conditioning units and put it into water. Made of copper spiralled (ribbed) tubing—it allows hot gases to continue to flow without coring. Using R22 gas, the Zelos produces 10 gal. of water per horsepower per hour from 55° to 150° F.

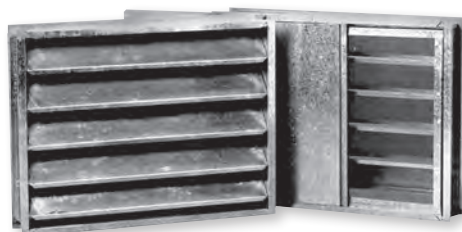
ZELOS - 2 TO 7.5 HP	PART#
P4 without pump	47375



## Telescoping Air Intakes

Filter Type For Air Intake  
Screen Type For Air Exhaust

- Full 4" flanged louver allows free air movement & weather protection.
- Heavy duty multi-velocity washable filter
- Filter reversible for either flow of air.
- All units are UPS shippable



COMPLETE UNITS		REPLACEMENT PARTS		
SIZE	ITEM	PART#	PART#	PART#
		SCREEN	SCREEN ONLY	FILTER ONLY
15" x 15"	216	N/A	43316	
16" x 24"	224	43312	43317	
16" x 32"	232	43313	43318	43321
16" x 40"	240	43314	43319	43322
20" x 24"	2024	43344	43352	43323
24" x 40"	2440	43349	43354	43325
30" x 32"	3032	43340	43353	43324
30" x 40"	3040	43346	43355	

\* Allow ¼" additional openings per side when installing

# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Safgard™ Commercial Duty Plate Coolers - Rated up to 150 PSI

### Safgard Model #S-8

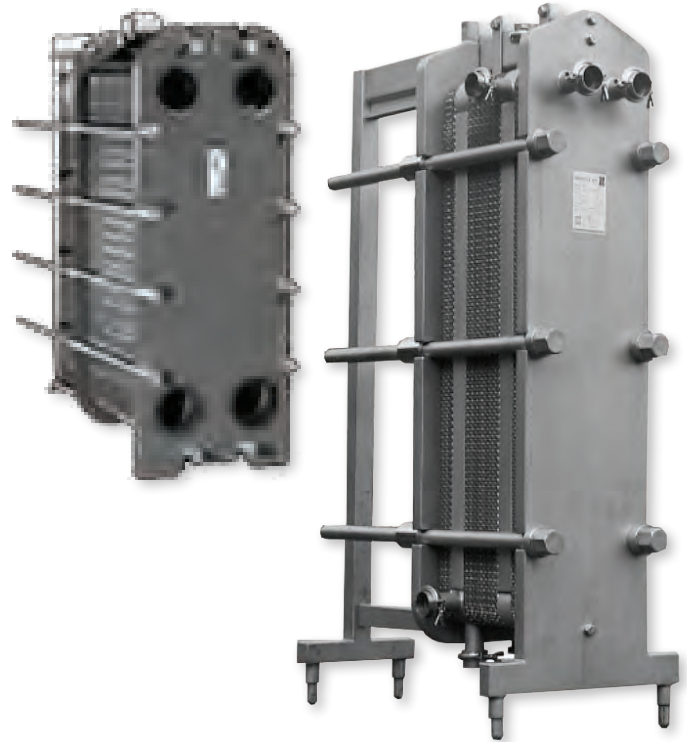
PART#	PLATES / PASS	END PLATE	MILK CAP.	APPROX. DRY WT.
47317	25 Plate / Single	Stainless	.65 gal.	200 lbs.
47318	45 Plate / Single	Stainless	1.45 gal.	224 lbs.
47319	25 Plate / Single	Powder Coat	.65 gal.	200 lbs.
47320	45 Plate / Single	Powder Coat	1.40 gal.	224 lbs.
47317-1	Plate Only			1.3 lbs.
47317-2	Gasket only			

### Safgard Commercial Duty Powder Coated Series Heat Exchangers With Standard Floor Frame #S-20

PART#	PLATES / PASS	END PLATE	MILK CAP.	APPROX. DRY WT.
47321	35 Plate / Single	Powder Coat	2.5 gal.	558 lbs.
47322	77 Plate / Single	Powder Coat	5.4 gal.	665 lbs.
47323	99 Plate / Single	Powder Coat	6.8 gal.	737 lbs.
47321-1	Plate Only			2.8 lbs.
47321-2	Gasket only			

### Safgard Commercial Duty Stainless Steel Series Heat Exchangers With Standard Floor Frame #S-20-S

PART#	PLATES / PASS	END PLATE	MILK CAP.	APPROX. DRY WT.
47324	35 Plate / Single	Stainless	2.5 gal.	788 lbs.
47325	77 Plate / Single	Stainless	5.4 gal.	905 lbs.
47326	99 Plate / Single	Stainless	6.8 gal.	967 lbs.



#### Commercial Duty and Model S-8 and S-20 Features:

- Reinforced Inlet
- Full Drain Leak Detect
- Strong Metal, Plate to Plate Alignment Device
- Improved Heat Transfer
- Fully Sanitary, meets current 3A/FDA Requirements
- Titanium and Alternate Alloy Plates Available
- Standard, High Temperature Nitrile, EDPM and Fluorocarbon (Viton®) Materials

#### Commercial Duty and Model S-8 and S-20 Features:

- Increased Efficiency
- Higher pressure design - 150 psi.
- Full Metal-to-Metal alignment to prevent plate shifting
- Strong Side Band Gasket Groove Support
- Improved Leak Detect Meets current 3A Sanitary standard 11-05
- Wide Gap to Resist Fouling
- Available Standard AISI 316 S.S. (22 ga.) Thickness (alternative alloys available)

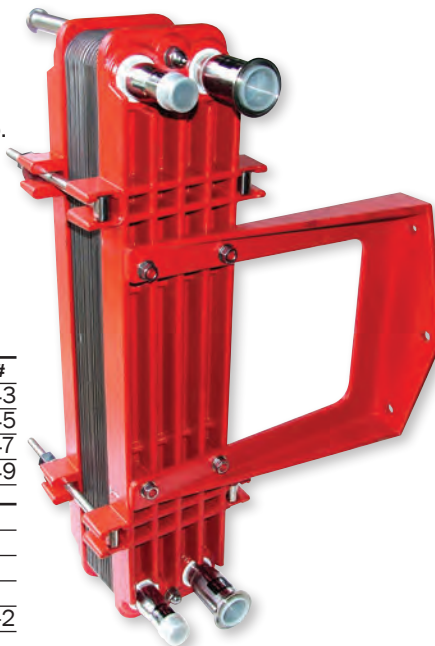
## Plate Coolers

### Features

- 3-A approved for in-place cleaning
- Brings milk temp. down to within 3°C of water temp.
- Cuts compressor time up to 50%.
- Cools milk from 95°F to as low as 55°F
- Place filter prior to plate cooler
- 3mm per plate spacing
- 1½ mm spacing for end plates
- Water flow to exceed milk flow by a minimum of 2 - 2.5 times
- Capacities based on continuous flow

MODEL	FLOW (LBS/HR)	PLATES	PART#
M300	3065	24	47343
M400	4200	30	47345
M600	6245	42	47347
M800	8285	54	47349

DESCRIPTION	PART#
4 Hole Plate w/ Gasket	47330
Gasket Only - For plate	47337
1"-0" Ring for old style Plate Cooler	47336
1¼" flat gasket	47336-2



#### Standard Screen Gaskets

SIZE	PART#
1½"	47335
2"	47335-1
3"	47335-2



#### EPDM Perforated Gasket .033 20 mesh

SIZE	PART#
1½"	45350
2"	45351
2½"	45352
3"	45353
4"	45354

# Milk Tanks, Milk Measurement, Plate Coolers, Chillers

## Air Cooled Cold Shot Chillers

Excellent way to revive/reuse a milk tank with leaking cooling plates. Chillers are often less expensive than repairing the milk tank. Chillers can be sized to cool 100% of the milk entering the tank, or sized to supplement the existing refrigeration system. Plate cooler and chiller combinations are relatively easy to install, and require little space. Cold Shot Chillers are pre-assembled and factory tested assuring dependability.



30 Ton Unit

## Cold Shot Chillers

### Product Sizes

- 2 to 7.5 ton chillers, single stage with one Copeland scroll compressor
- 10 to 20 ton chillers, two stage with tandem Copeland scroll compressor
- 25 to 40 ton chiller units include single Carlisle semi-hermetic reciprocating compressor with two unloaders
- 50 to 70 ton chiller units include two Carlisle semi-hermetic reciprocating compressor with two unloaders on circuit A
- 80 to 100 ton chiller units include three Carlisle semi-hermetic reciprocating compressor with two unloaders on circuit A

## Rugged Dependability on 7.5-Ton Air-Cooled Portable Single Stage Water Chillers

## Cold Shot Chillers

### Features

- Dependable Copeland Welded Hermetic Scroll Compressors
- Stainless Steel Brazed Plate Evaporators
- Brass Pump Down Service Valves
- Large Copper Condensing Coil with Aluminum Fins
- Powder Coated, Louvered Protective Condenser panels
- Strong Stainless Steel Centrifugal Pumps
- Oversized Magnetic Contactors
- Powder Coated Steel Frame and Welded Stainless Steel Reservoir

## Cold Shot Chillers

### Benefits

- Long Life - Maintenance Free
- Compact Efficiency
- Allows for Field Service without Disassembly
- Rugged Protection while allowing for Easy Maintenance and Wash Down
- High Flow - Long Life - Dependable
- Lifetime Warranty given Rugged Dependability!



## Commercial Dairy Chillers

### Milk Cooling/Pasteurization Heat Recovery

From pre-cooling milk to the pasteurization process, high-efficiency, indirect, and direct cooling can be achieved in a few ways with our robust Commercial Dairy Chillers. Built with quality components to withstand harsh environments while still maintaining precise temperature control. The designs feature proven methods to prevent downtime and offer energy savings with our variable speed components, redundant systems, and intelligent controls for safety and reliability.

## Product Features

- Air Cooled Condenser, Closed Loop
- Water or Water/Glycol
- Ambient Temp Range -20°-95° F
- Leaving Fluid Temp 28° F
- Fluid Setpoint 25-50° F
- Hermetic Scroll Compressors
- Centrifugal Pumps
- Hot Gas Freeze Protection
- Insulation
- Anti-Backflow Kit
- Built to UL 1995
- 18-Month Parts and Labor Warranty



MODEL	CAPACITY AT 28°F LFT*	COMPRESSORS	ELECTRICAL	FLA	TANK CAPACITY	UNIT DIMENSIONS (LxWxH)	INLET/OUTLET CONNECTORS	PUMP STANDARD	
	BTU/HR							QUANTITY	VOLTS
PVO-5000	41,000	1	460/3/60	12	30	TBD	1.5	15	50
PVO-7500	60,000	1	460/3/60	21	30	55x44x66	1.5	22	50
PVO-10000	80,000	1	460/3/60	23.2	30	55x44x66	3	30	50
PVO-15000	120,000	2	460/3/60	39.4	35	55x52x107	3	45	50
PVO-20000	160,000	2	460/3/60	53.3	35	68x52x107	4	60	50
PVO-30000	240,000	3	460/3/60	63.6	35	95x52x107	4	90	50
PVO-40000	320,000	4	460/3/60	92.2	60	67x96x107	6	120	50
PVO-60000	480,000	6	460/3/60	150	60	97x96x107	6	180	50
PVO-90000	720,000	6	460/3/60	225	90	TBD	6	270	50