

Anti-Icing, De-Icing & Dust Control Systems

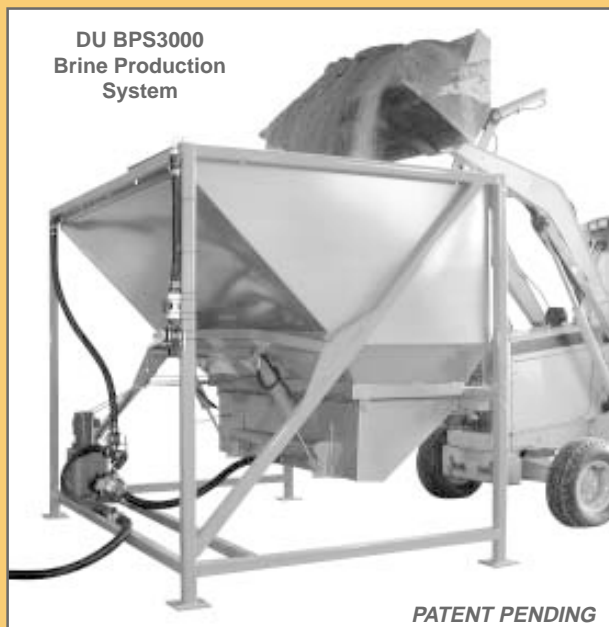
Ultra-Easy Clean Out BPS3000

BRINE PRODUCTION SYSTEM

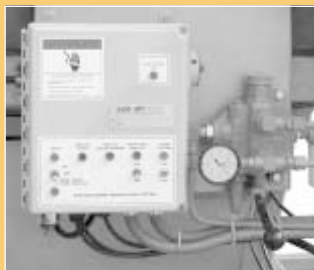
- **Cleans Completely in 10-15 Minutes!**

Self-contained hydraulic control system rotates the lower tank **and** trash screen, funneling all debris right into your loader bucket!

No shoveling required! No need to remove your bucket like other systems require for cleanout!



Master control panel includes lockout, 24V transformer and waterproof switches for improved safety and automatic or manual operation.



- **Large Capacity, High Volume Production**

6-1/4 Cu. Yd. stainless steel salt hopper. Hopper is 10' wide across the front to handle large loader buckets. 3 HP stainless pump. Produces over 3,000 gallons per hour!

- **Versatile Plumbing**

Utilizes 2" polypropylene **flanged** fittings for excellent corrosion resistance and easy maintenance.

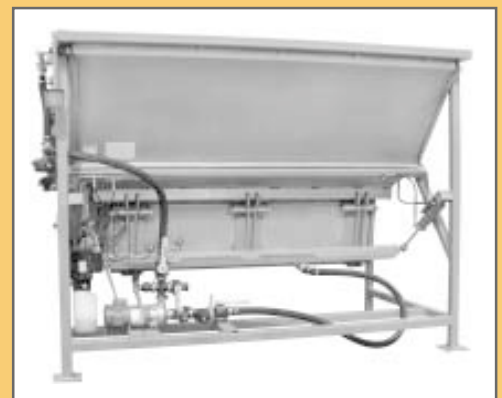
- **Heavy-Duty Construction**

Salt hopper and brine tank are constructed of **10 gauge 304 stainless steel**! Skid frame is constructed of either 3" x 3" x 3/16" stainless structural square tubing or 3" x 3" x 1/4" steel structural square tubing (steel frame option includes extra tough two-part epoxy primer & two-part urethane top coat).

- **Easy to Use!**

No augers or conveyors required - just dump salt into top of hopper with your loader bucket. Then turn on the water valve and the system does the rest automatically!

Back View: Heavy Duty Skid Frame (3" Stainless or Steel Structural Square Tubing) can be moved easily by a loader with forks.



1-800-228-9666

13808 Industrial Rd • Omaha, NE 68137

1-800-553-6975

601 W. 76th St. • Davenport, IA 52806

**Dultmeier
Sales**

1065 & 1800 Gallon Self-Loading Anti-Ice/De-Ice Spray Systems:



DU 1A054: 1,065 Gal.
DU 1A045: 1,800 Gal.

*Call for
System Pricing*

SYSTEM FEATURES:

- Two 900 gallon "twin" tanks on 1,800 gallon system (with double suction) fits tandem axle trucks.
- 1,065 gallon tank system fits single axle trucks.
- Heavy-duty self-loading steel leg frame (Front legs rotate up as truck backs up to load unit; front wheels provide smooth roll-in).
- Individual telescoping rear legs for "bind-free" lifting.
- Adjustable height **stainless steel** boom with high-flow flooding nozzles (spray 1, 2 or 3 lanes at once). Solid Stream nozzles also included for deicing center lane.
- High flow hydraulic-drive pump; engine-drive pumps also available.
- **Raven DCS 400 or 410 Automatic Rate Control System.** Pre-programmable with up to six or ten application rates.
- Precise application rate in Gals/Lane-Mile; automatically maintains preset rate regardless of speed changes or the number of lanes being sprayed.
- Plumbed with polypropylene **flanged** fittings for quick & easy maintenance.
- Also great for dust control, watering subgrades & other uses.
- **Other variations and models available, including 3,100 gallon system.**

PLANNING A LIQUID DE-ICING OPERATION?

Complete systems ready to go - or all the components to build your own!

- Brine Production Systems
- Anti-Ice/De-Ice Spray Systems
- Pre-Wet Systems
- Storage Tanks
- Transfer & Sprayer Pumps
- Plumbing, Valves, Controls & Thousands of components!

Everything you need to set up your complete operation!



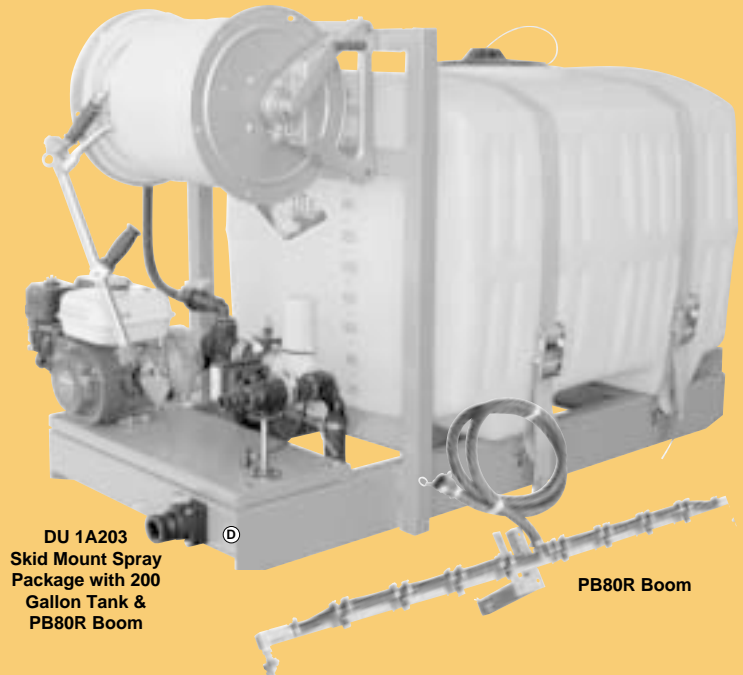


Skid Mount Spray Systems for Small Trucks

Versatile Skid Mount Sprayer Packages for Anti-Ice/De-Ice/Weed Spraying

SYSTEM FEATURES:

- The compact, heavy-duty welded steel skid frames are made to fit in tight spaces including pickup beds.
- Powder coat paint finish on 200 & 300 gallon models for excellent durability & chemical resistance.
- Skid-Mount Sprayers featuring Hypro 9203C centrifugal pump (1-1/2" x 1-1/4") close-coupled to a 5.5 HP Honda engine (88 GPM at 40 PSI; 30 GPM at 70 PSI).
- 200, 300 or 500 gallon tanks with vented top lids & molded-in gallonage markers. (300 Gallon Tanks include stainless steel baffle).
- Hannay 1500 Series manual hose reel with 300' of 1/2" 600 PSI hose and 17" adjustable spray gun (Hypro 3381-10). Great for winter anti-ice/deicing of sidewalks and other tight places, and for summer weed spraying.
- All necessary plumbing including 2" drain-fill valve, 1-1/2" suction, bypass with relief valve & jet agitation system.
- Includes DU PB80R spray boom standard with 12 brass solid stream nozzles (fan nozzles & stainless boom also available). Boom snaps into standard 2" receiver hitch.
- Complete control systems included. See *below*.



DU 1A203
Skid Mount Spray
Package with 200
Gallon Tank &
PB80R Boom

PB80R Boom

Sprayer Dimensions:	UNIT	Length	Width	Height
	200 Gal.	72"	34"	50"
	300 Gal.	93"	34"	50"
	500 Gal.	96"	40"	57"

Model No.

Description

DU 1A202	Package Complete: Skid Mount Sprayer Complete w/ 200 Gal. Tank, Manual Hose Reel, PB80R 80" Boom Complete and *Standard Rate Control System Complete
DU 1A202A	Same as above with 300 Gal. Skid Mount Sprayer.
DU 1A202B	Same as above with 500 Gal. Skid Mount Sprayer.
DU 1A203	Package Complete: Skid Mount Sprayer Complete w/ 200 Gal. Tank, Manual Hose Reel, PB80R 80" Boom Complete and **Automatic Rate Control System Complete.
DU 1A203A	Same as above with 300 Gal. Skid Mount Sprayer
DU 1A203B	Same as above with 500 Gal. Skid Mount Sprayer
DU 1A204	Package Complete: Skid Mount Sprayer Complete w/ 200 Gal. Tank, 3-Lane Stainless Boom, 3 On/Off Valves & 9 HP Pump. Also includes **Automatic Rate Control System Complete.
DU 1A204A	Same as above with 300 Gal. Skid Mount Sprayer
DU 1A204B	Same as above with 500 Gal. Skid Mount Sprayer

* The Standard Rate Control System includes in-cab console (Spray Systems 744), regulating valve and 1" full port boom on/off valve. This is a "pressure based" control system.

** The Automatic Rate Control System includes in-cab console (Raven DCS400), speed sensor, 1-1/2" flow meter, regulating valve and 1" full port boom on/off valve. This is a "ground speed" oriented control system.



OPTIONS

Description

12V Electric Hose Reel (Hannay).

Electric Start Engines of 12V Battery Holder with cables (Battery sold separately).

PB80R-SS 80" Stainless Steel Boom complete.

Note: For Anti-ice/De-ice spraying, these systems will cover one lane at up to 55 Gallons Per Lane-Mile at 30 MPH or up to 30 Gallons per Lane Mile at 55 MPH. DU PB80R boom covers approximately 10'-12' width. Other booms also available.

Self-Loading Anti-Ice/ De-Ice Sprayers

400 Series for small trucks & pickups

325 & 475 Gallon Models

These Anti-ice/Deice Sprayers can be quickly and easily loaded and unloaded into standard 8' pickup beds by one person. No forklifts required! They include steel frames with a tough powder-coat paint finish, rotating front legs and telescoping rear legs. They also feature low profile tanks, 2" self-priming polypropylene pump, *Raven* SCS203 rate control system, *Hannay* manual hose reel with 150' of 1/2" high pressure hose, 17" adjustable pattern spray gun and either a steel boom or PVC boom with camlock extensions. A 1" digital in-line meter is also included so you can see exactly how much deicing product you have used on each job. Great for private contractors and government agencies! Approximately 9'6" long, 48" wide, 34" high (325 gal.), 38" high (475 gal.).

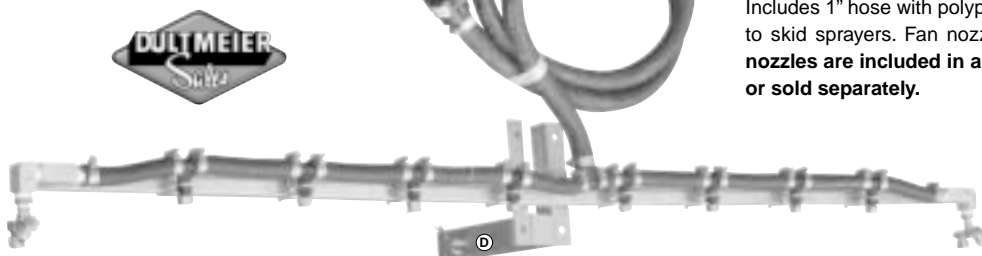
Part No.	Description
DU 1A400	325 Gallon Sprayer with PB80R Steel Boom
DU 1A400A	325 Gallon Sprayer with PVC Boom & Extensions
DU 1A401	475 Gallon Sprayer with PB80R Steel Boom
DU 1A401A	475 Gallon Sprayer with PVC Boom & Extensions



DU 1A400A
(Boom extensions not shown)

80" Boom System

for Standard Receiver Hitches
& Single Lane Spraying



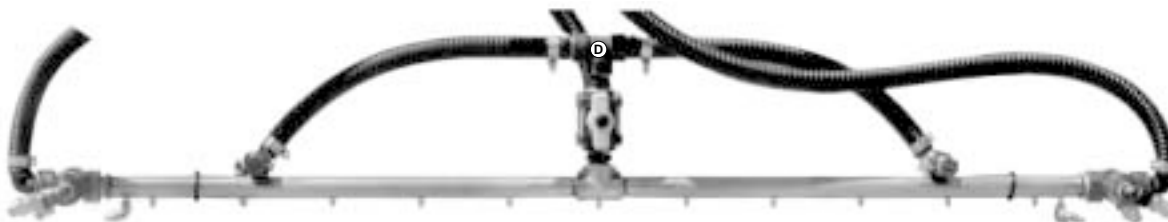
DU PB80R: 80" long steel boom; locks into standard 2" receiver hitch. Adjustable height (8" in 2" increments). Uses twelve brass solid stream nozzles for effective anti-ice/de-ice spraying (8-1/2" spacing). Double "swivel" nozzle assembly each side for wider coverage (approx. 10-12'). Includes 1" hose with polypropylene camlock for quick plumbing hookup to skid sprayers. Fan nozzles also available. **The PB80R boom and nozzles are included in all 202 & 203 skid mount sprayer packages or sold separately.**

Part No.
DU PB80R
* DU PB80R-SS
* Stainless

1-1/4" Stainless Boom System

for 3 Lane Spraying

DU 1-1/4BOOM: 72" x 1-1/4" 304 Stainless Boom for Anti-ice/De-ice & Dust Control Spraying. Boom includes 1-1/4" stainless tee in center and 1-1/4" stainless cross each end. Stainless plug inside cross each end allows for 1, 2 or 3 lane spraying (liquid inside center portion of boom does not flow into crosses). Includes 13-1/4" stainless couplings along bottom of boom for insertion of nozzles at 8 1/2" spacing. Also includes 1" stainless couplings mounted on top of boom for insertion of flooding nozzles. *Nozzles and fittings shown for boom are sold separately-see below.*



Part No.
DU 1-1/4BOOM
DU 1A062
DU 1A062A
DU 1B002A

DU 1A062: Plumbing Kit for 1-1/4BOOM. Includes 4 large stainless "offset" nozzles for anti-icing left & right lanes, 2 large stainless flooding nozzles for anti-icing center lane, 15 stainless solid stream nozzles for de-icing center lane, 1-1/2"-3 way polypropylene valve, & all miscellaneous stainless and polypropylene hose barbs & fittings to form a complete 3-lane boom spraying system for anti-icing & de-icing. *1-1/4" Hoses & clamps shown are not included-sold separately.*

DU 1A062A: Similar with 6 large flooding nozzles for dust control spraying.

DU 1B002A: Steel attachment bracket for boom. Holds boom firmly inside standard 2" receiver hitch (not shown). Also allows for vertical boom adjustment. *Includes stainless u-bolts & tap bolt.*

Tailgate Mount "Pre-Wet" Spray Systems



Tailgate Mount Pre-Wet Spray System
(Electric or Hydraulic Pump Systems)

These Tailgate mount "pre-wet" spray systems are excellent for on board pre-wetting of granular products with de-icing liquids such as calcium and magnesium chloride, salt brine and other de-icing liquids.

• Tank Features

- 90 & 135 Gallon Tanks.
- Rated for 16 Lb./Gal. Product.
- Deep Baffles, Vented Lids, and Gallonage Markers.
- Heavy-Duty Polypropylene Bulkhead Fittings each end.
- Carbon or 304 Stainless Steel Mounting Frames Complete with Lift Rings & heavy-duty nylon straps.

• Electric Pump & Control System Features

- 12-Volt Electric Diaphragm Pump (3.0 GPM) with Viton/Santoprene Internals.
- Polyethylene Sealed Pump Enclosure with Stainless Hinges & Clasp.
- Fully Pre-Plumbed & Pre-Wired Including Check Valve, Strainer & Pressure Switch.
- Two "Variable-Orifice" Flexible Neoprene Nozzles with Mounting Hardware.
- In-Cab Control Console including On/Off Switch, Power-On Indicator Light, "Low Pressure" Indicator Light & Variable Pump Flow Control Dial.
- Wire Harness with Sealed "Weather-Pack" Connectors.

• Hydraulic Pump & Control System Features

- Hydraulic-Drive Cast Bronze Gear Pump with Viton/Teflon Lip Seal and Pressure Relief Valve.
- Stainless Steel Sealed Pump Enclosure.
- Fully Pre-Plumbed & Pre-Wired Including Check Valve, Strainer & Pressure Switch.
- Four Brass Nozzles with Cores, Discs & Mounting Hardware.
- Electrically Adjustable Hydraulic Control Valve ("Pressure Compensated") for In-Cab Rate Control.
- In-Cab Control Console including On/Off Switch, Power-On Indicator Light, "Low Pressure" Indicator Light & Variable Pump Flow Control Dial.



In-Cab Console

Tailgate Mount Pre-Wet Spray Systems *(Includes the following):*

Complete Tailgate Mount Pre-Wet System including Tank with Carbon Steel Mounting Kit (powder coated), Straps and Complete Spray Control System with Pump System, Plumbing, Nozzles & In-Cab Control Console with Wiring Harness.

Part No.

- | | |
|-----------------|---|
| SN 1S009 | 90 Gal. Tailgate Mount Tank & Frame with Electric Pump & Control System Complete |
| SN 1S010 | 135 Gal. Tailgate Mount Tank & Frame with Electric Pump & Control System Complete |
| SN 1S011 | 90 Gal. Tailgate Mount Tank & Frame with Hydraulic Pump & Control System Complete |
| SN 1S012 | 135 Gal. Tailgate Mount Tank & Frame with Hydraulic Pump & Control System Complete |

Note: 304 Stainless Mounting Kits also available.

**Call For
Current
Pricing!**

Pre-Wet System "Quick Fill" Kits:

Part No.

- | | |
|-----------------|---|
| DU 1A060 | 1-1/2" Quick Fill Kit: Includes 1-1/2" Polypropylene Full Port Valve, Fittings, 1-1/2" Male Adapter & Cap, 1/2 Pt. of Pipe Sealing Compound. (Shipped Separately for Installation by Owner). |
| DU 1A061 | 2" Quick Fill Kit: Includes 2" Polypropylene Special Pattern Full Port Valve, Fittings, 2" Male Adapter & Cap, 1/2 Pt. of Pipe Sealing Compound. (Shipped Separately for Installation by Owner). |

V-Box Spreader Mount "Pre-Wet" Spray Systems

These V-box spreader mount "pre-wet" spray systems are excellent for on-board pre-wetting of granular products with deicing liquids such as calcium and magnesium chloride, salt brine and other deicing liquids.

• Tank Features

- 90 & 135 Gallon Single & Twin Tanks.
- Fully Interchangeable from Left to Right Side of Spreader.
- Rated for 16 Lb./Gal. Product.
- Deep Baffles, Vented Lids, and Gallonage Markers.
- Heavy Duty Polypropylene Bulkhead Fittings each end.
- Large Outside Corner "Cut" to fit New Style Dump Beds with Large Radius Corners.
- Carbon or 304 Stainless Steel Mounting Frames & Straps Complete.

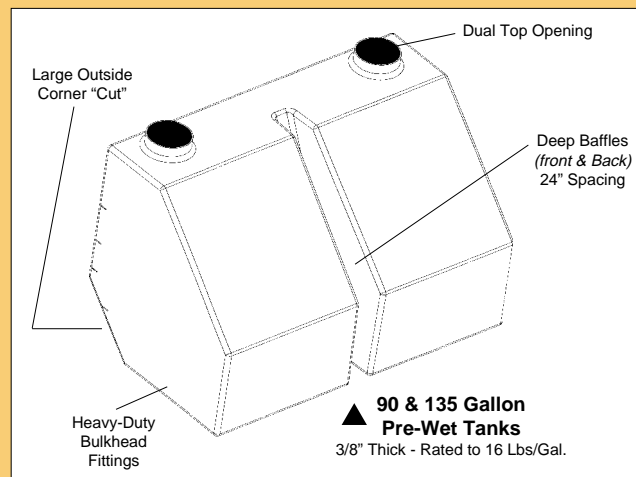
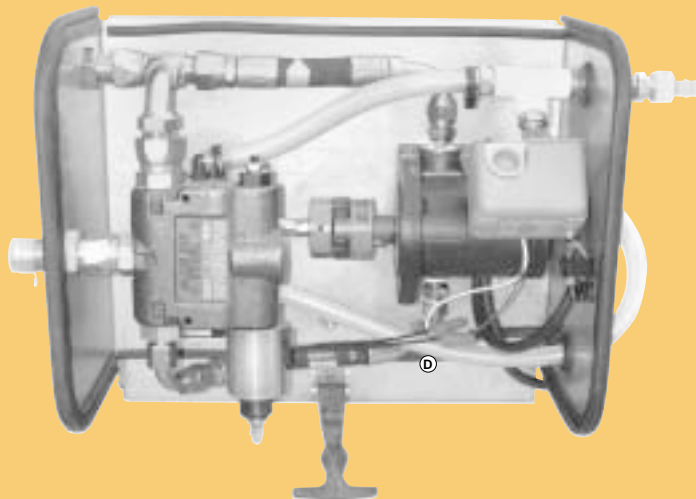
• Electric Pump & Control System Features

- 12-Volt Electric Diaphragm Pump (3.0 GPM) with Viton/Santoprene Internals.
- Polyethylene Sealed Pump Enclosure with Stainless Hinges & Clasp.
- Fully Pre-Plumbed & Pre-Wired including Check Valve, Strainer & Pressure Switch
- Two "Variable-Orifice" Flexible Neoprene Nozzles with Mounting Hardware.
- In-Cab Control Console including On/Off Switch, Power-On Indicator Light, "Low Pressure" Indicator Light & Variable Pump Flow Control Dial.
- Wire Harness with Sealed "Weather-Pack" Connectors.

• Tank Features

- Hydraulic-Drive Cast Bronze Gear Pump with Viton/Teflon Lip Seal and Pressure Relief Valve.
- Stainless Steel Sealed Pump Enclosure.
- Fully Pre-Plumbed & Pre-Wired including Check Valve, Strainer & Pressure Switch
- Four Brass Nozzles with Cores, Discs & Mounting Hardware.
- Electrically Adjustable Hydraulic Control Valve ("Pressure Compensated") for In-Cab Rate Control.
- In-Cab Control Console including On/Off Switch, Power-On Indicator Light, "Low-Pressure" Indicator Light & Variable Pump Flow Control Dial.

SN 1S101 Hydraulic Pump System



Tanks with Carbon Steel Mounting Kits (Powder Coat Finish) & Straps

Part No.	No. Tanks	Tank Volume
SN 1S001	(1)	90 Gal.
SN 1S002	(2)	2 @ 90 Gal.
SN 1S003	(1)	135 Gal.
SN 1S004	(2)	2 @ 135 Gal.

**Call For
Current
Pricing!**

Tanks with 304 Stainless Mounting Kits & Straps

Part No.	No. Tanks	Tank Volume
SN 1S005	(1)	90 Gal.
SN 1S006	(2)	2 @ 90 Gal.
SN 1S007	(1)	135 Gal.
SN 1S008	(2)	2 @ 135 Gal.

**Call For
Current
Pricing!**

SN 1S100 **Electric Spray Control System Complete for Above & Other Tanks**

SN 1S101 **Hydraulic Spray Control System Complete for Above & Other Tanks**

In-Cab Console ➤



Pre-Wet System "Quick Fill" Kits

Part No.

DU 1A060 1-1/2" Quick Fill Kit: Includes 1-1/2" Polypropylene Full Port Valve, Fittings, 1-1/2" Male Adapter & Cap, 1/2 Pt. of Pipe Sealing Compound. (Shipped Separately for Installation by Owner).

DU 1A061 2" Quick Fill Kit: Includes 2" Polypropylene Special Pattern Full Port Valve, Fittings, 2" Male Adapter & Cap, 1/2 Pt. of Pipe Sealing Compound. (Shipped Separately for Installation by Owner).

Vertical Storage Tanks



STANDARD FEATURES:

- High quality polyethylene with UV protection.
- Molded-in deep tie-down lugs.
- 16" vented lids (22" available).
- Molded-in gallonage markers.
- 3 year warranty.
- 14 Lbs./Gal. rating (16 Lbs./Gal. available).
- Variety of bulkhead fittings available (one included).

Tank No.	Gallonage	Dia. x Ht.
RT VT1050	1050	85 x 52
RT VT1350	1350	85 x 64
RT VT1500	1500	85 x 69
RT VT1650	1650	85 x 74
RT VT2000	2000	90 x 81
RT VT2500	2500	90 x 100
RT VT3000	3000	90 x 118
RT VT4000	4000	96 x 142
RT VT4200	4200	96 x 148
RT VT5150	5150	102 x 159
RT VT6250	6250	102 x 191
RT VT7000	7000	142 x 123
* RT VT10500	10500	142 x 175
**RT VT10500-28	10500	142 x 175

Call
for
Current
Pricing

Note: Other sizes also available. F.O.B. Factory.
* 12.5 lbs/gal. ** 14 lbs/gal.

Fiberglass Storage Tanks

FEATURES: • Variety of inlet and outlet ports; • 24" Bolted Manway • Carbon Steel Lift Eyes & Anchor Lugs • 3/4" Sight Tube, Stainless Fittings, Stainless Spring Return Valve, S.S. Wind Guards • Exterior Pigmented (Colored) Tan or White.

Gallons	Diameter	Height
8,400	12'	10'
10,150	12'	12'
12,600	12'	15'
16,800	12'	20'
21,000	12'	25'
25,350	12'	30'
29,600	12'	35'

Call
for
Current
Pricing

Other Sizes Available on Request.



Spray/Transport/Nurse Tanks



1,065 Gal.

"Leg" tank on
skid with hoops.

STANDARD FEATURES:

- High quality polyethylene with UV protection
- Heavy-duty steel skids & hoops
- 16" vented lids
- Molded-in gallonage markers.
- 3 year warranty
- 14 Lbs./Gal. rating (16 Lbs./Gal. available)
- Some models sumped.
- Variety of bulkhead fittings available (one included).

Tank-Less Hoops

Part No.	Capacity	Wt. (Lbs.)	Dia. x Lgth.	Sump	Lid
RT FS0925-DS	925 Gal.	290	62 x 76	Yes	16"
RT FS0925-DW	925 Gal.	290	62 x 76	No	16"
RT FS1065-58S	1065 Gal.	340	58 x 106	Yes	16"
RT FS1065-58W	1065 Gal.	340	58 x 106	No	16"
* RT FS1800-2S	1800 Gal.	580	62 x 140	Yes	16"
* RT FS1800-2W	1800 Gal.	580	62 x 140	No	16"
**RT FS2650-3S	2650 Gal.	870	62 x 204	Yes	16"
**RT FS2650-3W	2650 Gal.	870	62 x 204	No	16"

F.O.B. Factory.

* 1800 gallon tank is (2) 925 gallon tanks on a single skid.

**2650 gallon tank is (3) 925 gallon tanks on a single skid.

Steel Hoops for Above Tanks (Required):

Part No.	Description	For Tank
RT FS058HP	1 Set of 3 - 1-1/2" Hoops	1065 Gal.
* RT FS062HP	1 Pair of 2 - 1-1/2" Hoops	925 Gal.

* Please specify how many pairs you need: 2 pairs for 1800 gal. tank; 3 pairs for 2650 gal. tank.

Skid Frames for Above Tanks (Req. for Tanks with Sump):

Part No.	
RT FS0925-SK	Skid for 925 Gal. Tank.....
RT FS1065-SKS	Skid for 1065 Gal. Tank w/sump
RT FS1065-SKW	Skid for 1065 Gal. Tank w/o sump
RT FS1800-SK	Skid for 1800 Gal. Tank.....
RT FS2650-SK	Skid for 2650 Gal. Tank.....

STANDARD FEATURES

- Elliptical low profile design
- Molded-in dual baffles
- Rated for 16 lbs/gal. liquids
- Large full threaded 18" manway
- Heavy duty polypropylene bulkhead fittings
- Optional heavy duty galvanized ladder on 2600 & 3100 models.

Part No.	Gal.	Fillwell	Width	Ht.	Lgth.	Outlet
CD H1625	1625	18	71	56	142	2"
CD H2025	2025	18	84	55	142	2"
CD H2600	2600	18	90	71	140	3"
CD H3100	3100	18	88	77	150	3"

Note: Galvanized steel tie-down hoops are required and are included as standard.

— OTHER SIZES AVAILABLE —

Elliptical Spray/Transport/Nurse Tanks

With Molded in Legs
For Improved Drainage

— 6 Year Warranty —



Elliptical Polyethylene Tanks

300 to 2,600

Gallons

**Designed for
16 lb./Gal. Liquids**



Elliptical Polyethylene Tanks feature:

Heavy-duty polyethylene • Ribbed for extra strength • Ultraviolet inhibitors added to protect against sunlight • Elliptical shape provides added visibility, and tank's low profile allows easy-reach filling • A bottom 5" flat area the full length of the tank, plus a 6" x 12" end sump, provides total drainage • Flat spots located on both ends of tank for fittings • Two additional flat spots on top ends of tank for return lines and sight gauge fittings • Standard color is yellow.

3-Year Warranty

Part No.	Fill Well	Fittings	Capacity	Length	Width	Height
RV 47075	10"	3/4" & 1/4"	300-Gal.	70"	48"	30"
RV 47389	10"	3/4" & 1/4"	400-Gal.	70"	57"	36"
RV 47346	10"	3/4" & 1/4"	500-Gal.	82"	57"	36"
RV 47076	10"	One 2"	750-Gal.	88"	69"	42"
RV 47103	10"	One 2"	1000-Gal.	90"	78"	49"
*RV 47129	10"	One 2"	1600-Gal.	138"	78"	49"
RV 47679	10"	One 2"	2550-Gal.	142"	88"	69"

*NOTE: 1600 Gallon tank includes one stainless steel baffle installed. 2550 Gal. Tank includes two stainless baffles installed.

Saddle Assemblies

for Raven Elliptical Tanks



RAVEN
INDUSTRIES

Saddle Assemblies Complete (with bands):

Part-No.	Tank Size
RT HE0300-C	Saddle for 300 Gal. Elliptical
RV 67385	Saddle for 400 Gal. Elliptical
RV 67376	Saddle for 500 Gal. Elliptical
RV 67406	Saddle for 750 Gal. Elliptical
RV 60372	Saddle for 1000 Gal. Elliptical
RV 67428	Saddle for 1600 Gal. Elliptical
RV 67408	Saddle for 2550 Gal. Elliptical

PICK-UP TANKS

**150, 210, 325
& 450
Gallon Capacity**
**Designed for
12 lb./Gal. Liquids**



PICKUP TANKS will fit most standard size pickup beds. **Features:** • Low profile for good visibility and low center of gravity • 2" bulk head withdrawal fitting • Positive lock fill well cap • Engineered design permits efficient use of space • Extra deep recess in fill well area reduces spillage during filling and while moving over rough terrain • Molded gallonage indicators. 3-Year Warranty.

	150PU	47361	47354	47356
Cap.(Gal)	150	210	325	450
Height	25"	24"	30"	34"
Length	40"	60"	62"	75"
Base Width	36"	48"	48"	48"
O.A. Width	52"	53"	59"	59"
Fill Well	5"	10"	10"	10"
Weight	170	105	120	160

Part No.	Gallons
PY 150PU	150
RV 47361	210
RV 47354	325
RV 47356	450

RAVEN
INDUSTRIES

Rectangular Tanks

Rotationally Molded Polyethylene • Yellow Color
Designed for 12 lb./Gal. Liquids



- 5" fillwell & splashguard on 30 through 100 Gallon, 10" fillwell & splashguard on 150 & 200 gallon*.
- Flat area on each end for fittings or agitation.
- Attractive compact design requiring no complex saddling or support structures.
- Molded in gallonage indicators.
- Ribbed for extra strength with UV inhibitors added for protection against sunlight.

*Note: 16" Fillwell & Stainless Baffle standard on 300 Gal. Tank.

3-Year Warranty

Part No.	Capacity	Width	Height	Length
RV 47022	30 Gal.	19"	20"	25"
RV 47013	50 Gal.	19"	20"	38"
RV 47020	100 Gal.	30"	26"	38"
RV 47350	150 Gal.	36"	26"	48"
RV 47352	200 Gal.	36"	35"	48"
RV 47359	300 Gal.	36"	35"	69"



Electric Motor Transfer Pump Systems

These are just a few of the pump units we offer!

PACER Thermoplastic Pump Units

1-1/2", 2", & 3" • Corrosion Resistant
3 H.P. thru 7.5 H.P. • Self-Priming

Use of tough engineering thermoplastic makes these excellent pumps for transfer of corrosive products. The pump housings are made of thermoplastic polyester which is noted for its outstanding chemical resistance. The pump elastomers are Viton & EPDM. Carbon-Ceramic mechanical seals. Stainless shafts. TEFC motors & powder coated steel base plates. Flow rates from 125-280 GPM.



Optional
Handle
Shown

DU PR5010 Self-Priming Pump Unit

Pump No.	Max GPM	GPM @ 20 PSI	Ports	HP	Motor Phase
DU PR2010	125	50	2"	2	1
DU PR2030	125	50	2"	2	3
DU PR3010	180	130	2"	3	1
DU PR3030	180	130	2"	3	3
DU PR5010	180	130	2"	5	1
* DU PR5010A	250	180	2"	5	1
DU PR5030	180	130	2"	5	3
* DU PR5030A	250	180	2"	5	3
DU PR7510	280	210	3"	7.5	1
DU PR7530	280	210	3"	7.5	3

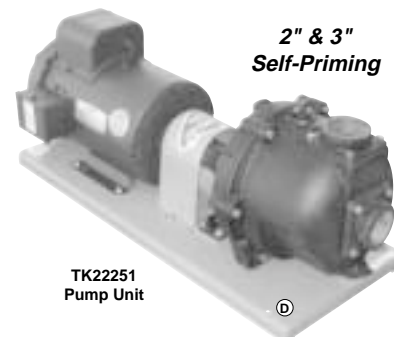
* Extra High flow 2" models.

222 Series Pump Units



2" & 3"
Self-Priming

- Cast Iron Housing & Impeller for Durability.
- Stainless Steel Shaft Sleeve
- Viton-Carbon-Ceramic Mechanical Seals
- Stainless Fasteners
- TEFC Motors-for Outdoor Use
- Powder-Coated Steel Base Plates



TK22251
Pump Unit

Part No.	Pump Series	Max. GPM	GPM @ 20 PSI	Ports	HP	Motor Phase
DU TK22251	222	225	165	2"	5	1
DU TK22253	222	225	165	2"	5	3
DU SC1033	3"	375	330	3"	15	3

Double "Wet" Seal

Self-Priming Pump Units



Cast iron self-priming pumps with **stainless steel impellers**.

Double "wet" seal can be run dry without damage.

Part No.	Max GPM	GPM @ 20 PSI	Ports	HP	Motor Phase
DU TK3510W-A	170	85	2"	5	1
DU TK3530W-A	170	85	2"	5	3
* DU TK7530WS	170	85	2"	7.5	3
DU TK1013W	330	290	3"	10	1
DU TK1033W	330	290	3"	10	3

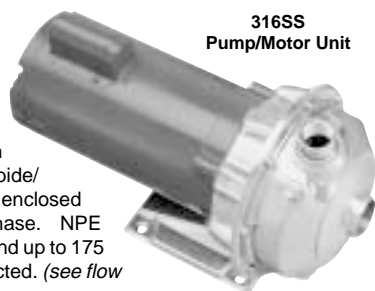
* All Cast Stainless Steel



Stainless Steel Centrifugal Pumps

For De-Icing Chemical Solutions Transfer

Series NPE Stainless Steel Centrifugal Pumps from G & L Goulds. Close-coupled pump/motor units in 316SS construction for excellent corrosion resistance. All standard pumps are fitted with mechanical carbon/silicon carbide/viton seals. Motors are totally enclosed fan cooled in 1-phase or 3-phase. NPE Pumps are rated up to 65 PSI and up to 175 GPM depending on model selected. (see flow rates below).



316SS
Pump/Motor Unit

PUMP/MOTOR UNITS

Part No.	Max GPM	GPM @ 20 PSI	*Motor	Inlet x Outlet
GL 1ST1F4D4	43	43	1-1/2hp, 1ph	1-1/4" x 1"
GL 1ST1G4C4	45	45	2hp, 1ph	1-1/4" x 1"
GL 2ST1H4C4	120	112	3hp, 1ph	1-1/2" x 1-1/4"
GL 2ST1H5C4	120	112	3hp, 3ph	1-1/2" x 1-1/4"
GL 3ST1J5H4	175	175	5hp, 3ph	2" x 1-1/2"

* Single phase motors are 115/230V on 1-1/2 & 2 HP and 230V on 3 HP.
Three phase motors are 208/230/460V. Baseplates are available.

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Hydraulic Drive Centrifugal Pumps



HYPRO

9300C Series features • Hydraulic motor drive (for open and closed center systems) • Cast iron body (stainless also available) • Double-lip Teflon hydraulic motor seal • Glass-filled nylon impeller with stainless wear ring.

Part No.	Description	Req'd Oil Flow	Max GPM	Max PSI	Wt. Lbs.
HY 9304CHM1	For open/closed center systems. 2" x 1-1/2"	12	210	115	32
HY 9304CHM3C	For large open center systems. 2" x 1-1/2"	20	190	80	32
HY 9304CHM5	For open/closed center systems. 2" x 1-1/2"	15	210	95	32

Many other models including self-priming units also available.



Hydraulic Drive Centrifugal Pumps

- Cast iron body
- Valox Impeller
- Simple Motor Maintenance

Part No.	Description	Req'd Oil Flow	Max GPM	Max PSI	Wt. Lbs.
AC FMC150HYD206	For open/closed center systems 1-1/2" x 1-1/4"	7	120	120	31
AC FMC200HYD210	For open/closed center systems 2" x 1-1/2"	8	200	80	33
AC FMC200HYD304	For open/closed center systems 2" x 1-1/2"	11	200	120	38

Other models also available.

Engine Drive Centrifugal Sprayer Pumps

These pumps provide high volume & pressure! They use cast iron pumps close-coupled to Briggs or Honda engines. Can be purchased as a complete unit or as a wet end kit only for installation on your own engine.

HYPRO

HYPRO PERFORMANCE DATA									
1536	PSI	10	20	30	40	50	60		
	GPM	104	100	94	82	70	50		
1537	PSI	10	20	30	40	50	60	70	
	GPM	110	106	96	88	80	60	30	
1550	PSI	0	10	20	30	40	50	60	70
	GPM	150	147	145	140	130	120	107	97
	PSI	80	90	100	110	120	130	140	
	GPM	87	80	69	57	45	36	16	



Model 1537A



Model GE1600V

ACE GE1600 PERFORMANCE DATA							
Engine Speed	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	
3900 RPM	280	220	180	140	80	0	
3500 RPM	280	220	175	130	40	0	
3200 RPM	280	220	170	100	0	—	



Part No.	Pump Size	Max GPM	Max PSI
HY 1536	1-1/2" x 1-1/4"	104	70
HY 1537A	1-1/2" x 1-1/4"	110	70
HY 1550	2" x 1-1/2"	150	140
*DU GE1600V	2-1/2" x 2"	280	110
HY 1538	1-1/2" x 1-1/4"	Wet End Pump Only	
HY 1551	2" x 1-1/2"	Wet End Pump Only	
AC GE1600	2-1/2" x 2"	Wet End Pump Only	

*Electric Start

Hydraulic Drive Bronze Gear Pump

This positive-displacement pump is ideal for de-icing (pre-wet). Combining the pump and motor as a single unit eliminates the need for shaft alignment with coupling. The unit's compact size allows it to be used in a wide variety of locations. Pump is cast bronze.

Hydraulic motor features: State-of-the-art internal gear motor • Bypass adjustment • 1/2" NPT ports with anti-reverse check • Hydraulic oil flowrate is 3.0-4.5 GPM • Liquid flowrate is 3-10 GPM • 100 PSI pressure rating.



HYPRO

Part No.	Description
HY 8304BHM5C	Hyd. Bronze Gear pump w/o relief valve
HY 8304BVHM5C	Hyd. Bronze Gear pump with relief valve

We also have Overhead Load Arm Spray Systems:

- DU OLA-1: Overhead Load Arm System
- DU 1A059: Plumbing Kit Complete

Also, Remote Stop-Start Panels, Preset Metering Systems and More!



Sprayer Controls & Valves

These are just a few of the Sprayer Controls & Valves we offer!

DCS 400 & 410 Anti-Ice Spray Controllers

RAVEN
INDUSTRIES

Provides 3-Section Automatic Liquid Spray Boom Control, Anti-Ice or Dust Control

- Pre-Programmable (Up to 6 different rates)
- Precise application - Maintains rate regardless of speed changes.
- Most often specified.



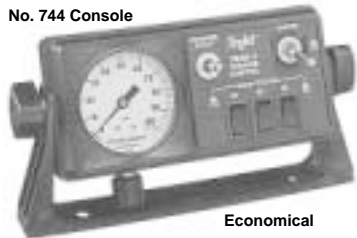
DCS 400 Shown

Call for System Pricing

The **DCS 400** is designed to accurately control the application rate of liquid anti-icing chemicals to all types of roads, runways, bridge decks, etc. Reliable and easy to use. Maintains pre-programmed rates (Gal/Lane-Mile) regardless of speed changes for 1, 2 or 3 lane spraying. **DCS 410** is an enhanced version with GPS compatibility and many other features. It will also handle two tier booms and 10 rates.

Sprayer Control Kits

No. 744 Console



Economical

700 Series Sprayer Controls Kits control sprayer booms from the cab. The pressure adjust switch, when connected to a regulating valve, allows the operator to increase or decrease flow rates. Master switch provides on/off control of all boom sections. Boom control switch allows on/off control of individual sections of the boom for 1, 2 or 3 lane spraying. (Not ground-speed oriented)

Model 734A Control is available in a 3 section control only. Suitable for pressures to 100 PSI when using solenoid valves. Standard with 8' cables & dry gauge. Available in control only or in complete kit form.

Model 744A Controls are available in 1 or 3 section models. Up to 100 PSI with solenoid valves. Standard with liquid gauge, 8' cables and LED lights to indicate boom section status. Available in control only or in complete kit form.

Part No.	SPRAYER CONTROLS
SS 734A-100D3	Model 734A (3) Section Boom Control only
SS K734-100D33S	734A Control w/ 3 solenoids & regulator valve
SS 744-1L	Model 744A (1) Section Boom Control only
SS K744A-1L	744A Control w/ 1 solenoid & regulator valve
SS 744-3L	Model 744A (3) Section Boom Control only
SS K744A-3L	744A Control w/ 3 solenoids & regulator valve

Spraying Systems

SPRAY CONTROLLERS

Model 844



834 & 844

- Automatic rate control (ground speed oriented).
- Manual override mode included.
- Backlit Displays with continuous read-out.
- Controls up to five boom sections.
- Quick and easy programming.
- Temporary "Boost" mode (844 Series).
- GPS compatible (844 Series).

These **834 & 844 Controllers** are available individually or as kits with all necessary cables, speed sensor, pressure sensor (or flow meter on 844 Series) and regulating valve.

Call for System Pricing



BANCO
Electric
Manifold
Valves

FEATURES: Glass filled polypropylene housing • Stainless steel ball & stem • Super Teflon seats • High torque motor • Dual sealed motor housing • 12-volt DC operated • Internally fused/auto reset • Flanged connections - No Threads! • 2" x 1" Full Ports.

Part No.	Description	Size
TK MVE100CF	1 Valve Assembly	1"
TK MVE103CF	3 Valve Manifold Assy.	2" x 1"
TK MVE220CF	1 Valve Assembly	2"
TK MVE105CF	5 Valve Manifold Assy.	2" x 1"

KZGO™

QC3 & QX4 Stackable Electric Manifold Valves

- 3/4" (QC3) & 1" (QX4) Full Port Valves.
- 150 PSI Rating.
- Nylon (QC3) & Polypropylene (QX4) Construction.
- Stainless Steel Ball, Stem & Hardware (QX4).
- Waterproof Delrin Motor Case.
- Stall-Proof Gear Design.
- 1-1/2" (QX5) Full Port Valves also available.

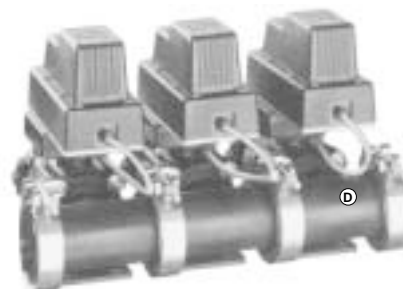


Part No.	Solenoid Manifolds
KZ N-12IM	QC3-1 Single Valve Assy.
KZ N-22IM	QC3-2 Two Valve Assy.
KZ N-32IM	QC3-3 Three Valve Assy.
KZ 400-12IM	QX4-1 Single Valve Assy.
KZ 400-22IM	QX4-2 Two Valve Assy.
KZ 400-32IM	QX4-3 Three Valve Assy.
KZ 400-52IM	QX4-5 Five Valve Assy.

AA480

Manifold Valve Assembly

The TeeJet 480 manifold makes applying larger volumes a snap. Based on the 346 Ball Valve Series, larger volume applications are easily obtained. Flanged connections and clamps make the 480 manifold one of the easiest systems on the market to assemble.



Spraying Systems

FEATURES: Maximum operating pressure of 150 PSI (10 bar) • 3/4 second response time from open to close • 12 VDC operation • Optional outlet flanges and fittings to eliminate threads are available • Flow rate 75 GPM @ 5 PSI pressure drop each valve • No external fuses - incorporates an internal, resettable fuse.

Part No.	Description
SS AA483A	Three Unit Manifold Less Cables

Note: Standard with 1-1/2" FPT inlet, 1-1/4" FPT outlets.

Anti-Icing & De-Icing Equipment: Accessories & Components



Salimeters & Specific Gravity Hydrometers



Salimeters

Part No.	Division	Length	Percentage Range
* FS 116036F	1%	12"	0-100% Saturation
FS 11605	1%	12"	0-100% Saturation
FS 11606	0.5%	12"	0-26.4% Salt

Note: Use with 08-530J Cylinder if needed.

* Made from polycarbonate for break resistance.

Hydrometers



Fisher Scientific

Part No.	Specific Grav. Range	Division
FS 11525	1.00 - 2.00	0.010

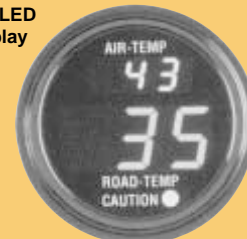
Note: Use with 08-530K Cylinder if needed.

Road Watch® Infrared Pavement/Air Temperature Measuring System

Warns You When The Road Ahead May Be Freezing!

LED Display

- Displays both air & pavement temperature.
- "Real" time continuous LED display.
- "Caution" light activates at 35°F



Part No.	Description
VE RW1	RoadWatch System
VE RW2	RoadWatch System w/RS232 Output
VE 849-0017-000	Pedestal Mount for Dashboard
VE 434-0024-000	12V Quick Connect Power Cable

Baffle Ball™ Tank Baffle System



Baffle Balls™ excel at suppressing surges in mobile liquid tanks. Surge tests have demonstrated that the correct number of Baffle Balls™ in a liquid tank will significantly reduce liquid surge, even with an abrupt vehicle stop. Eliminating liquid surge effects improves safety, reduces vehicle drive train stress, and provides longer tank life.

15-3/4" diameter balls will fit into 16" tank openings. Constructed of High-Strength Polyethylene (UV Stabilized). Provides high strength & durability. **Liquid displacement in tank is only 1.5%.** Two piece interlocking

construction-will UPS. Quick installation. **To calculate number of Baffle Balls™ required, Multiply 0.083 X Gallons in Tank.**

Part No.	Diameter	Weight Per Ball
SV 16	15-3/4"	2 lbs.

8" Size Available Soon for Smaller Tank Manways



RAYTEK Non-Contact Infrared Thermometers

Hundreds of uses! Check radiators, brakes, cylinders, bearings, electrical, pavement temperatures and more. Pocket sized, light & easy to use. Fast, rugged, reliable & accurate • 0°F to 500°F range • C°/F° Selectable • 9 Volt battery • Economical • Low battery indicator • 7 second hold. Just point, pull trigger and read surface temperature on the 3 digit backlight display.

Model No.	Description	Spot Size @ 5'
RA RAYMT2U	IR Minitemp Thermometer	10"
RA RAYMT4U	IR Minitemp Thermometer (w/Laser)	10"
RA RAYMTAPK	Pouch and Accessories Kit	-

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