

Keeping your sprayer spraying is what SureFire was focused on when it released QuickDraw in 2014. Seven years and thousands of batches later, QuickDraw 3000, released in 2020, features a faster, bigger and brighter display. In 2021 additonal new features and models are available. All with the goal to make mixing and loading your sprayer even easier. These include new 9-product model, auto start iGX Honda transfer pump, carrier blending and automated air purge.

4 Product



3 - 1" Port Valves, 1 - 1 ½" Port Valve



5 - 1" Port Valves, 1 - 1 $\frac{1}{2}$ " Port Valve 3 - 1" Port Valves, 3 - 1 $\frac{1}{2}$ " Port Valve 9 Product



6 - 1" Port Valves, 3 - 1 ½" Port Valve



Job Setup Screen - Auto Calculation Based on Batch Size

			-			-		
Calculation Mode		55 C C			Volume 1,000.0	GAL	PreLoad Vol	100.0 GAI
Name	Area & App Rate Individual Volume Area & Carrier Rate			Order	Prod Volume	Total	Inv.	Prod Rinse
Carrier: Water			-			922.7 GAL		3 Sec
Taki Atra-V-4L (At	razine)	32.00	fl. Oz/Ac	2	25.0 GAL	25.0 GAL	THEFT	Final Rinse
1ml NO PRODUC	T	0.00	GAL/Ac	0	0.0 GAL	0.0 GAL	Ð	10 Sec
Telel Morcasin		16.00	fl. Oz/Ac	3	12.5 GAL	12.5 GAL	Ð	
teres Siam 54 Extra	(glyph	26.00	fl. Oz/Ac	- 4	20.3 GAL	20.3 GAL	Ð	
Inth NO PRODUC	1	0.00	GAL/Ac	0	0.0 GAL	0.0 GAL	Ð	
Intel NO PRODUC	T	0.00	GAL/Ac	0	0.0 GAL	0.0 GAL	Ð	SAVE
Mari Predi AMS		17.00	lbs/100	1	170.0 lbs	17.0 GAL		DUPLICATE
Man Prink? Voyage		1.00	Qt/100	5	2.5 GAL	2.5 GAL		Darbook
Mes. Prodil NO PRODUC	T [0.00	GAL/Ac	0	0.0 GAL	0.0 GAL		NEW
Man Profit NO PRODUC	7	0.00	GAL/Ac	0	0.0 GAL	0.0 GAL		THE OF DECIDE
Max Preds NO PRODUC	T	0.00	GAL/Ac	0	0.0 GAL	0.0 GAL		ELECT RECIPI
	PRODUCT BINSE DIS				Field/	EDIT	RUN	MENU

Mass Flow Meter Chemical Measurement

Mass Flow is the most accurate flow meter technology available. The Micro-Motion mass flow sensor used in QuickDraw measures the mass flow (weight) and density of the product as it moves through the sensor. With those two measurements, it calculates the volume of any liquid with extreme accuracy, regardless of physical properties.



Trailer Installation



Trailer and Truck Installation







www.surefireag.com

Plant/Stationary Installation









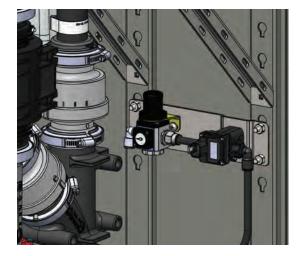


New Features Model Year '21

Automated Start of Honda iGX Engine Driven Transfer Pump

On "Batch Start" QuickDraw Provides Start Signal iGX Engine has Automated Choke Start Batch and Engine from iPad App Two Speed Electronic Throttle (Controller with Toggle Switch Installed in QuickDraw)



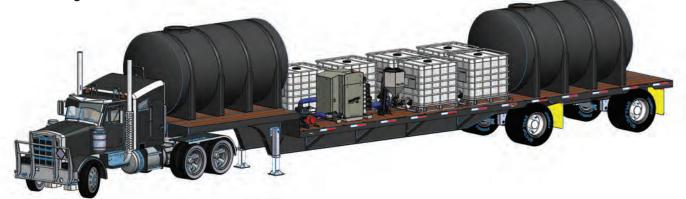


Carrier Blending on Mobile Trailer

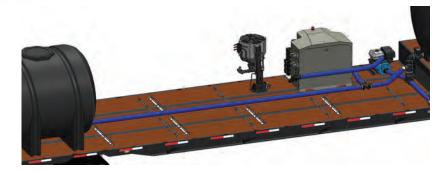
Automated Air Purge of Load Hose

Install Air Purge Kit & Connect to Air Source. Valve opens for set amount of time.





Utilize multiple tanks on trailer to create fertilizer blends. Add micronutrients, biologicals or other products from totes to the blend.



Accessories

Stainless Steel Eductors

20 Gallon stainless steel tank equiped with ChemBlade and auxillary jug rinse nozzle.

Empty and rinses jugs quickly.

Incorporate dry AMS quickly (2 Bags/Minute)





Swing Down configuration allows operator to work from ground



Stand Mount Configuration



Closed Transfer System that safely measures partial jug doses precise to the ounce.

Equiped standard with easyFlow closed transfer system which allows operators to safely transfer product without being directly exposed to hazardous chemicals. Also can be equiped with Securalink closed transfer system used in Gramoxone packaging.





Swing Down configuration allows operator to work from ground



Stand Mount Configuration



Rinse totes when you empty them. QuickDraw has rinse cycle functions specifically designed to work with BulkBlaster to quickly rinse totes at the time you empty them.





Carrier Blending

QuickDraw mixes the desired amount of up to 4 different carrier products. Blend multiple carrier products and chemical/micronutrients or only carrier in the case of mixing fertilizer blends.







App Rate 18.5 GPA Volume 1.000.0 GAL	CARRIER SETUP					
Carrier Calc Mode App Rate	Load Order Rate	PreLoad Vol 23.0 GAL Use as Preload Inv.				
Cerren 1: 32% UAN	4 12.00 GAL/Ac	•				
Cerem 2: 10-34-0	3 400 GAL/Ac	=				
Carrier 8 ATS -	2 2.00 GAL/Ac	T				
Cerer # Zinc 10% Chelate	1 0.50 GAL/Ac	=				
SAVE	Carrier in Recipe: 18.50 GAL/Ac Carrier Still Needed: 0.00 GAL/Ac	JOB RUN				

Create recipe for blend based on application rate/acre, specific volumes or percentage.

Fertilizer Blending on the Farm

Use QuickDraw spray tender trailer to blend fertilizer applied with planter. Have bulk semi-loads of fertilizer delivered direct to farm. Use totes of micronutrients, biologicals and other treatments. Create recipes for each field based on soil test and agronomic goals. Eliminate the logistical challenges of getting the correct blend for each field from your retail fertilizer supplier.





Carrier Refill

Use QuickDraw and transfer pump on trailer to pull from ground storage tank and fill trailer tanks.

"Pre-Treat" water with AMS or water conditioner while filling trailer.

Use "Carrier Fill Recipe" to set volume to load, QuickDraw automatically shuts valve and kills pump when setpoint is reached.

Carrier Refill can be combined with Carrier Blending by adding carrier control valves to each tank.



Carrier Flowmeter Auto Calibration







QuickDraw utilizes a 3" E-mag flowmeter to measure carrier solution. Utilize the Auto Calibration Cycle to fine-tune flowmeter accuracy. The auto cal process cycles carrier through both flowmeters utilizing the mass meter flow reading to set the calibration of the carrier flowmeter.

Record Keeping

a complete

QuickDraw keeps FIELD AND WEATHER SETTINGS Field: 29-2-33 Grower: Wolters Farms record of every m: Matt Wolters Recipe: 29-1-33 Airport Com Fertilize batch mixed. Machine: John Deere 493 -Two Pest: Winter S re 720 'F 30.0 Inches 9.0 MPH

Batch ID:	004-04/17/20	Recipe:	Corn pre-plant	
Grower:	Matt Wolters	Date/Time:	04-17-2020 18:07	
Farm:	Matt Wolters	Wind/Temp:	8.0MPH W 8.0 F	
Field:	29-2-33	Status:	Completed	
Operator:	Matt Wolters	Total:	998.8	
Machine:	Pull behind sprayer	Acres:	100.0	
Product (I	EPA ID)	Rate		Total
-Water ()				916.7 GAL
Atra-V 4L	(atrazine) (89167-38-89391)	32.00 OZ/A	Acre	25.3 GAL
Tomahawk	: 5 (glyphosate 5.4 lb/gal) (33270-15)	26.00 OZ/A	Acre	20.2 GAL
T-Rex (dic	amba) (87895-5-80967)	16.00 OZ/A	Acre	12.4 GAL
AMS()		17.001bs/1	00	156.01bs
Undercover (mesotrione) (89168-54)		3.00 OZ/Acre		300.0 OZ
Varsity (flu	unioxazin) (89167-45-89391)	2.00 OZ/A	Acre dry	200.0 OZ
Venturi ()		2.00 Quar	ts/100	640.0 OZ

QuickDraw 3000 iPad App

Companion iPad app provides additional user features.

Remote Operation Display Control all Batching Functions Monitor Batch Progress Execute Hose and Tote Rinse Remotely Manually Operate Any Valve **Create Recipes and Enter Record Keeping Inputs Offline** Wirelessly transmit to QuickDraw Controller Manage Historical Records Download Records from QuickDraw Controller

Filter, Sort & Create Reports

10

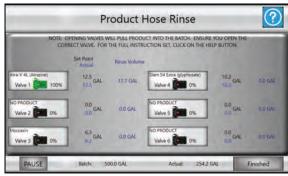


Product Hose Rinse

Rinse hose from chemical tote to QuickDraw.

When changing chemical totes, enable the Product Hose Rinse Cycle, enter length and diameter of hose and select product(s) to be rinsed. When the chemical cycle is complete, the Product Hose Rinse window appears, close tote valve and press the button for the product to be rinsed. The remaining chemical in the hose is drawn into the batch. Connect hose to Product Hose Rinse port and carrier flushes the hose. All carrier used to rinse is measured as part of total needed to complete the batch.







www.surefireag.com

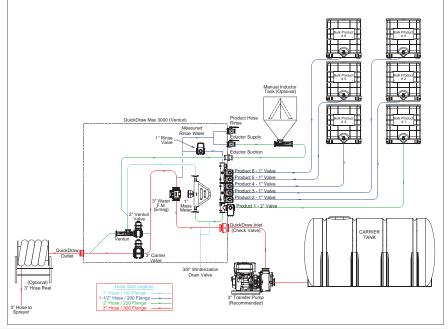
Venturi Configuration

QuickDraw comes standard in Venturi Configuration. The transfer pump is located on the inlet of QuickDraw and provides 45-50 PSI on the venturi inlet producing suction that draws chemical from totes at 15-25 GPM (flow rate depends on the phyical properties of each chemical).

In the venturi configuration, the pump is never exposed to chemical reducing risk of contamination.

30 precent of batch total can be chemical.

6 Product QuickDraw 3000 Max (Venturi) with optional Manual Inductor / Hose Reel



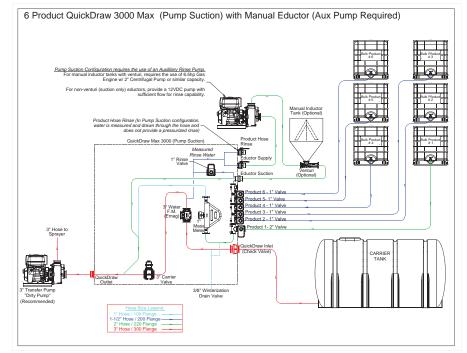
Pump Suction Configuration

QuickDraw is available in optional Pump Suction Configuration. The transfer pump is located on the outlet of QuickDraw. Both carrier and chemical are drawn through QuickDraw via the transfer pump. Chemical flow rate is 20-30 GPM.

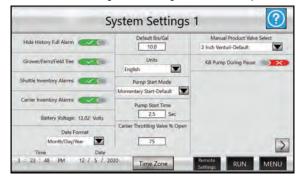
In the pump suction configuration, the pump is exposed to chemical. Proper flushing after the chemical cycle is necessary to prevent contamination.

70 percent of batch total can be chemical.

Requires auxilliary rinse pump to pressurize carrier for rinsing jug.



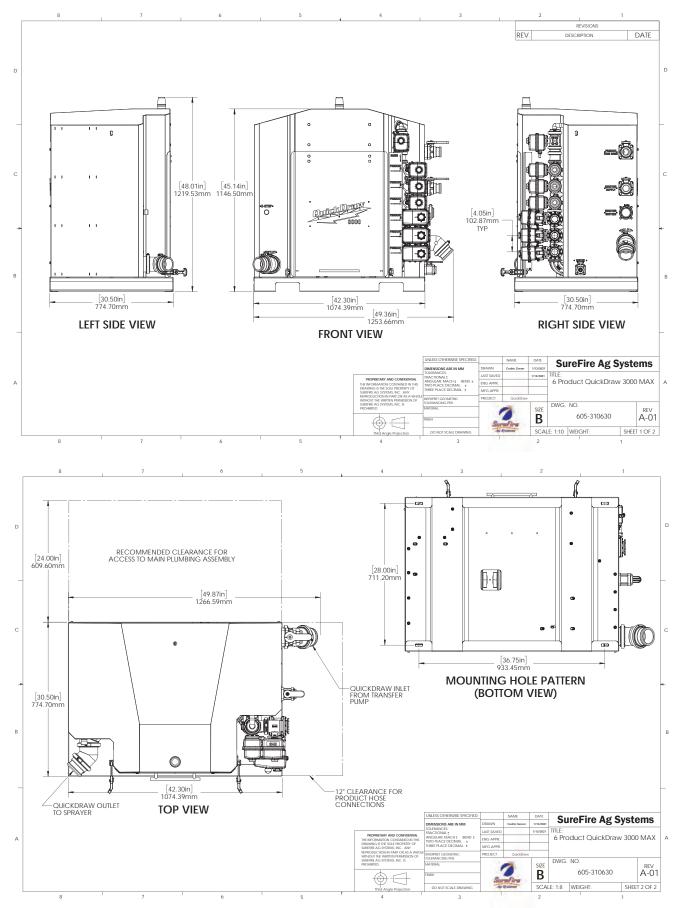
Carrier Throttling Valve % Open sets the position of the carrier throttling valve during the chemical cycle.



Recipe: Corn Pre 2021			otal Acres 100.0		10.0 GPA	
Calculation Mode Volume	& App Rate		Volume 1.000.0	GAL	PreLoad Vol	50.0 GAL
Name	Rate	Order	Prod Volume	Total	Inv.	Prod Rinse
Carrier: Water	9.3 GPA			934.6 GAL	Ð	3 Sec
teet Atra-V 4L (Atrazine)	1.00 Qt/Ac	2	25.0 GAL	25.0 GAL		Final Rinse
3HO PRODUCT	0.00 GAL/A	c 0	0.0 GAL	0.0 GAL	Ð	10 Sec
3ml Slam 54 Extra (glyph	26.00 HL Oz/A	kc 3	20.3 GAL	20.3 GAL	Ð	
Titel Moccasin	4.00 fl. Oz/A	k: 4	3.1 GAL	3.1 GAL	Ð	50 GAL
3HO NO PRODUCT	0.00 GAL/A	. 0	0.0 GAL	0.0 GAL	- E	
TANE NO PRODUCT	0.00 GAL/Ad	: 0	0.0 GAL	0.0 GAL	Ð	SAVE
Man Pault AMS	17.00 lbs/100	1	170.0 lbs	17.0 GAL		DUPLICATE
Man Podd: NO PRODUCT	0.00 GAL/Ad	: 5	0.0 GAL	0.0 GAL		DUPLICATE
Han Perd NO PRODUCT	0.00 GAL/Ad	. 0	0.0 GAL	0.0 GAL		NEW
Mus Podk NO PRODUCT	0.00 GAL/A	. 0	0.0 GAL	0.0 GAL		
Min Pauls NO PRODUCT	0.00 GAL/Ad	0	0.0 GAL	0.0 GAL	5	ELECT RECIPE
	UCT HOSE DISABLED		Field/ Weather	EDIT	RUN	MENU

If all chemical products have not completed when the batch reaches the Carrier Hold Back setpoint, carrier throttling valve closes allowing chemical products to complete. Then the remaining carrier will be added and the batch completed.

QuickDraw Max Dimensional Drawings



4/6 Product Model Shown. 9 Product is 7" taller. Length and width are the same.



QuickDraw Lite provides mass flow or oval gear meter measurement of chemicals with refined features and operation. QuickDraw Lite is a manual or semi-automated spray tender system. In semi-automated operation enter the desired chemical amount, press start. When the setpoint is reached, the product valve automatically closes. In manual operation open a product valve, watch the display until the desired chemical amount has been measured into the sprayer and close the product valve.



QuickDraw Lite	Me	eter	Configuration		Optional	
Models	Gear Meter	Mass Meter	Venturi	Pump Suction	Carrier Flow Meter	
6 Manual Valves	Х	Х	Х	Х	Х	
3 Automatic/3 Manual Valves	Х	Х	Х	Х	Х	
6 Automatic Valves	х	Х	х	Х	х	

Mass Flow or Oval Gear Meter Chemical Measurement





www.surefireag.com





Empties and rinses chemical jugs with zero exposure to the operator.

- 1. Load Full Jug
- 2. Press Button
- 3. 15 Seconds later remove clean jug

The concept is simple, but the result is profound. Using traditional methods for opening, dumping and rinsing it is IMPOSSIBLE to not splatter chemical and rinsate. With ChemBlade ES, you put a full jug in and 15 seconds later the lid opens and you remove an empty fully cleaned jug – inside and out!

ChemBlade ES can be used as a stand alone mixing system or integrated with QuickDraw Max or Lite.



Easy to use operation controls. Large buttons and bright LED indicator lights



ChemBlade knife actuates via air cylinder to cut and empty chemical jug. Rinse head provides 1 gallon/second to ensure jug is completely rinsed.



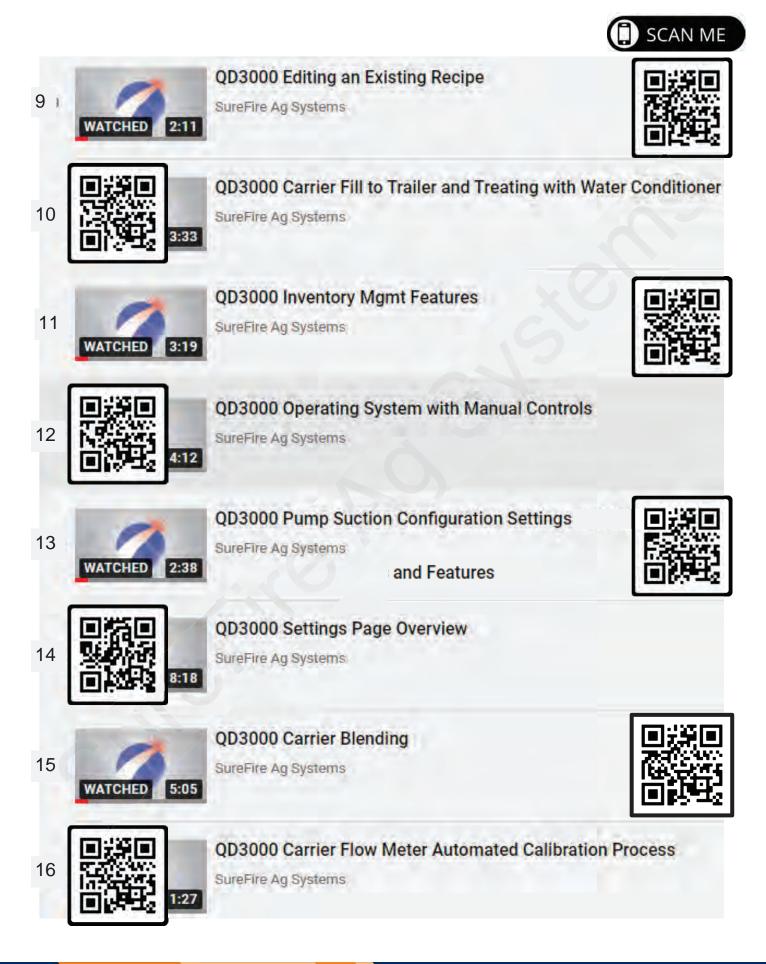
Elminate exposure to chemicals. Any other method of emptying and rinsing jugs results in splatter of chemical and rinsate. ChemBlade ES is the only exposure free method available.





www.surefireag.com

785-626-3670



www.surefireag.com

785-626-3670

Tender and Mixing Systems For Mixing Chemical Batches and Blending Fertilizer





QuickDraw Max

is a fully automated spray tender system. Start by creating a recipe – the applied application rates/acre for each chemical in the batch. Recipes are saved and used every time you load that mix of chemicals. Enter the application rate/acre being sprayed and the size of load needed, in total gallons or total acres to spray. QuickDraw calculates the correct amount of each chemical in the batch. Press start, QuickDraw automatically measures and loads each chemical as well as the correct amount of carrier and stops the pump when the batch is complete.





QuickDraw Lite

provides mass flow or oval gear meter measurement of chemicals with refined features and operation. QuickDraw Lite is a manual or semi-automated spray tender system. In semi-automated operation enter the desired chemical amount, press start. When the setpoint is reached, the product valve automatically closes. In manual operation open a product valve, watch the display until the desired chemical amount has been measured into the sprayer and close the product valve.





The Chem-Blade ES Enclosed System allows operators to handle their chemicals efficiently, safely and extremely fast! Simply set the jug inside, close the lid and click a button. The ES encloses the cutting and rinsing process, isolating the operator from potentially hazardous products. The Chem-Blade ES takes the tedious work out of handling heavy bags by quickly processing hazardous or non-toxic products safely in an enclosed or open chamber.

Key Benefits to Your Operation

Sprayer Efficiency

When your sprayer is sitting at the field edge filling it is covering Zero Acres/Hour. Minimizing fill time is critical to cover more acres per day.

Labor Utilization

It's critical that every batch is mixed correctly. QuickDraw is the tool that enables your employees to get it right every time.

Accuracy

Mass Meter flow measurement technology, the most accurate available, combined with automated batch calculations ensure you get the correct amount of each chemical in every batch.

Record Keeping

QuickDraw records a record of every batch loaded. Date, time, grower, farm, field, machine, operator, as well as measured totals of each product in the batch are recorded.

Eliminate Chemical Exposure

It's that simple, QuickDraw and ChemBladeES eliminate chemical exposure. Keep yourself and your employees safe!

QuickDraw Cloud

Sort and Report Records Receive notification of batch loaded Create Work Orders Split Batches Between Fields