Viper® 4 integrates with Raven’s full line of products into one networked platform that offers a responsive touchscreen and an intuitive, tablet-style interface with swiping features and horizontal or vertical orientation. Customize your Viper® 4 by user and machine - it’s colorblind which means it works with equipment of every brand. Easy job set-up, fewer touches, and greater efficiency allow for extraordinary data management capabilities.

The Viper® 4 is a powerful, fourth generation Viper field computer. Yet it’s also the first in a new generation of field computers powered by the new Raven Operating Software, which integrates Raven’s full line of products into one connected platform.

Designed to work with equipment of any brand, the Viper 4 is easy to use, requiring fewer touches and providing greater efficiency. It’s a highly advanced field computer with intuitive controls, improved ease of use and extraordinary data management capabilities. And for your operation, this means increased efficiency, productivity and profitability.

Features include:

- Swiping feature
- Customization by user and machine
- Horizontal or vertical orientation
- An abundance of storage capacity
- Sleek design with 12.1” LED backlit display and state-of-the-art rugged magnesium alloy enclosure
- Responsive touchscreen and intuitive, tablet-like interface
- Dustproof for tough environments
- 4 camera inputs for monitoring bin levels, blind spots, etc.
- 2 USB ports
- Ethernet port for Slingshot®
- Integrated, fully scalable GPS receiver

Slingshot Ready

Powered by Raven Operating Software and a high-speed processor, Viper 4 harnesses the power of Slingshot for outstanding data management functionality. You get powerful tools for gathering, tracking and reporting. Getting the data you need, organizing it and turning it into meaningful information is faster and easier. And Slingshot gives you access to live remote support from Raven’s team of experts.
Raven Field Computers

Delivering more power and productivity
Raven’s Viper Pro™ multi-function field computer is the best in its field with extra power and capability to drive even your most advanced system functions with ease. The Viper Pro can do it all: variable rate control up to 10 products, provide guidance, automatically shut down boom or planter sections, adjust height of your boom as well as steer your vehicle. For professional operators and larger growers looking for the ultimate in productivity and performance, Viper Pro is built to deliver.

Key Features and Benefits
• High-powered operating system maximizes system functions and capabilities
• Super-sized 10.4” touch-screen display lets you see more and do more
• Scalable variable rate technology
• Slingshot-ready for wireless data transfer, remote support capabilities, high-speed Internet access—and more!
• Four field patterns for easy line acquisition and more accurate coverage plus Enhanced Last Pass to make irregularly shaped fields a snap
• Automatic correction intelligence and quick turnaround lock mode for enhanced line acquisition
• Real-time data mapping, field reports and record keeping saves you time and lowers costs
• Multiple USB ports let you load and transfer field data easily
• Industry compatible technology allows you to share, collect and print data from commonly used industry software and equipment
• Optional WatchDog™ sprayer station helps take the worry out of spraying by recording real-time weather information

Upgrades
AccuRow SwitchPro OmniSeed
AccuBoom CAN Switchbox SmarTrax
AutoBoom

Raven Field Computers

www.davisequip.com     •     www.feieast.com
Envizio Pro II & Envizio Pro II XL

Envizio Pro multi-function field computer is the perfect interface for tying your different system functions together - and rewarding you with greater efficiency, performance and savings. It’s easy to set up, easy to run - and even easier to expand with new Raven technology.

Key Features and Benefits

• Complete multi-function capabilities for every stage of your operation
• Brilliant touch-screen display for easy operation and clear viewing day or night - 6.5” on the Envizio Pro II or 10.4” on the Envizio Pro II XL
• Up to four product control for added efficiency, including direct injection
• Up to four product VRA technology for more precise planter and application controls
• Integrated dual-frequency GPS receiver upgradable to RTK accuracy (Envizio Pro II only)
• Slingshot-ready for wireless data transfer, remote support capabilities, high-speed Internet access—and more!
• Last Pass contour guidance makes irregularly shaped fields a snap
• Four field patterns for easier line acquisition and faster, more accurate coverage
• Real-time data mapping, field reports, and record keeping for better decisions and performance

Upgrades

AccuRow  
AccuBoom  
AutoBoom  
SwitchPro  
SmarTrax  
SmartYield  
OmniRow

Stepping up to get the most out of your operation has never been this easy.
Cruizer II & Cruizer II RTK

The Cruizer II™ gives you all the benefits of an easy-to-use precision guidance system. It features more power and capability, and you can add auto-steering, yield monitoring and automatic on-off planter and boom section controls to your system when you’re ready.

Cruizer II™ RTK

With RTK capability added to the Cruizer II™ guidance system, high, sub-inch positioning accuracy becomes available. This product also ties into the Slingshot™ system, adding more precision to an excellent system.

Cruizer Features:

• Brilliant 5.7” high-resolution touch-screen display features easy to understand icon-based menus, status indicators, and day/night mode for simple operation.
• Simple installation/mounting for hassle-free installation and use with multiple machines.
• Integrated lightbar system for added confidence and visual support.
• Enhanced “Last Pass” guidance with automatic correction simplifies contour and irregularly shaped fields and prevents repeating errors.
• Record keeping made simple with file formats for saving, reporting and importing data.
• Straight A-B, Last Pass, Fixed Contour and Pivot field patterns for greater accuracy, speed and convenience.
• Bird’s-eye view and downfield 3-D perspective for checking coverage and keeping you on line.
• Simple upgrades for assisted steering and automatic planter and boom section controls for greater precision, savings and performance.
• Digi-Star® scale interface for spreading manure more accurately on fields.
• Optional yield monitoring for recording valuable production data and making better decisions.
• Weather-resistant model available for rain/dust protection in open-cab situations.

Upgrades

SmartBoom       AccuBoom
SmartRow        AccuRow
SmartSteer      SmartYield
SmarTrax
Use your existing ISO compliant monitor to run Raven hardware.

Raven ISO allows you to use your existing cab monitor to run Raven hardware.

The Raven ISOBUS control system is designed to add liquid, granular or injection control or boom height control capabilities to ISOBUS virtual terminals. Adding the Raven ISOBUS product or boom control will allow a machine operator to monitor and control a Raven product control system directly from a virtual terminal (VT) display.

Raven ISO can currently control the following system:

- Liquid systems
- Granular systems
- AccuFlow NH3 systems including AccuFlow HP
- SideKick Pro injection
- Raven AutoBoom boom height control system.

The currently supported VT’s are

- John Deere 2630
- CaseIH Pro 700
- New Holland IntelliView 4
- Ag Leader Integra
- Raven VT

More VT’s are being added, so please call us to see if Raven ISO will work for you.
Fix your idea of perfection

True power. Slingshot™ RTK/Online Service is the ultimate team player—and has already begun to revolutionize precision farming by enabling other precision ag equipment and growers to do what they do, only better. Improved productivity, greater efficiency, less waste, lower costs, greater certainty and better information and management decisions are the ultimate result.

Key Features and Benefits

- Wireless RTK correction signals via cellular networks for universal access to sub-inch accuracy
- ZERO line-of-site RTK signal limitations provide uninterrupted operation and convenience
- Real-time communications and data sharing with any computer anywhere ensures better data, better decisions and more productivity in the field
- Seamless data transfer from the field to secure online accounts
- Remote capabilities for changing settings and profiles from distant locations
- Remote live support via high-speed Internet slashes down time and operator error
- Compatible with both Raven and non-Raven precision ag equipment

A lot of folks in precision ag will never go back to the old way of farming. Thanks to Slingshot™, you’ll never go back to the old way of precision ag.

Slingshot delivers — and surpasses — the main promise of precision agriculture: better productivity, greater efficiency, less waste, lower cost, greater certainty and better information through 21st Century technology. What makes Slingshot so radical is the way it delivers.

How would life be different with a Slingshot RTK system that delivers:

- Repeatable accuracy over 30 miles or more with a single correction source
- Over 2 million acres covered with a single correction source
- Zero line-of-sight signal limitation
- Real time high-speed Internet access in the field
- Connectivity through all mobile telephone networks in North America
- CORS network compatibility
- The ability to instantly manage vehicles, field computers and data from anywhere on the planet with an Internet connection
- The ability to remotely manage user profiles and settings without ever getting in the cab
- Live, remote Slingshot tech support without ever leaving the cab

When you see it in action, one thing becomes clear: Slingshot RTK is about much more than delivering correction signals. It’s about improving the performance of your entire operation — and with it the performance you deliver your customers.
SideKick Pro

The Sidekick Pro direct injection system sets a new standard for chemical applications of every type, with unprecedented precision, savings, and safety. No tank mixing required—and with the industry’s first automatic calibration feature, you’re ready to go in minutes. The whole system is amazingly simple—and pays off with greater precision, higher yields and unrivaled efficiency.

Save more. Get more. With the Sidekick Pro direct injection system, you can save more in time and inputs—and get more for it when applying costly herbicides, insecticides, liquid fertilizer and nitrogen stabilizer. And because there’s no pre-mixing in the tank, there’s no waste from unused product—and no cleanout/disposal issues when you’re done.

Simple, fast and hassle-free start-up. Say goodbye to time-consuming catch tests, thanks to Sidekick Pro’s automatic calibration feature. It’s 100% self-contained for extra safety. It only takes an ounce for faster and better results—and you can handle it yourself with ease in only minutes.

Prior precision and performance. Sidekick Pro gives you more precise mixing and applications—and locks onto your target rate with industry-leading times. Its high-resolution encoder also provides smoother pump control and tells you immediately if you lose feedback or power to the pump—and stops automatically if you do.

Increased capacity and efficiency. Four-unit capability lets you carry and/or spray four different chemicals at one time. So you can do more with every pass—and move from one field to the next without changing tanks!

Added safety for you and the environment. Your risk of chemical exposure is dramatically reduced with in-line mixing. That, coupled with superior system control, real-time diagnostics, closed-system calibration and greater efficiencies, delivers more safety for you and the environment.

SmarTrax RTK

SmarTrax and SmarTrax RTK assisted steering let you redefine the limits—like faster operating speeds and easier, more relaxed driving. And with SmarTrax RTK you can get even more out of your automatic, hydraulically controlled GPS-guided system with sub-inch accuracy for the ultimate in precision and repeatability. Hands free!

Shared System Features & Benefits

Hydraulic-controlled system enhances high-speed operation and offers faster line acquisition. A greater range in correction also allows for “harder” turns when necessary. Faster operating speeds get you in and out of the field in record time.

Automated system calibration simplifies startup and does all the figuring for you. That means you’re up and running in no time, without any of the old headaches or tinkering. Four field patterns—straight A-B, fixed curve, pivot, and enhanced last pass patterns. Engaging and disengaging are simple. No buttons to push or switches to flip. Simply grab the wheel and you’re in control. To re-engage, our foot-switch keeps it simple and keeps your hands free.

Clean cab installation is a welcome reality, with no drive mechanisms to get in your way. Compatible with steer-ready machines, with after-market kits available for improving just about every situation.

RTK Only Features & Benefits

Slingshot™-compatible RTK correction signals deliver sub-inch accuracy all season long—and keep you on line from one year to the next. 3D terrain compensation automatically corrects for roll, pitch and yaw for greater accuracy and reliability on uneven terrain.

CANbus control node puts SmarTrax RTK in direct contact with your field computer. No control box required, which means one less piece of equipment in your cab.
SmarTrax MD

Full speed ahead

Raven’s new, simple-to-install mechanical drive steering system harnesses the newest technologies to keep you on track and on line all day long. You’ll benefit from added torque for faster operating speeds, increased accuracy and reduced noise. Transfer SmarTrax MD between multiple tractors, including combines, windrowers and more.

Benefits to you include:
• Faster operating speeds
• 2x more torque
• Improved line acquire
• Simple to install and move between machines
• 3D terrain compensation
• Quiet operation

Run Smartrax MD flawlessly on any of these Raven devices:
• Cruizer II™
• Cruizer II™ RTK
• Envizio Pro™
• Envizio Pro II®
• Envizio Pro XL™
• Viper Pro™
• Viper 4 Coming Soon

Notes:
**AutoBoom**

The AutoBoom automatic boom height control system is like money in the bank, with operating speeds up to 20 MPH, simple installation and user-friendly controls. AutoBoom’s unique hydraulic-powered design also delivers a smoother and more responsive height-adjusting system - hands down. AutoBoom is available with wheel or ultrasonic height sensors. AutoBoom can be controlled with a Viper Pro, Envizio Pro, SCS 4x00, SCS 5000 or stand alone console.

**AccuBoom**

AccuBoom automatic section control is your best protection against rising input costs - and pays for itself in no time. Greater fuel and chemical savings, faster spraying times, ease – of -operation and more accurate spraying all add up quickly to improve your return on investment each and every season. Available with wireless remote to check boom section operation.

**Switch Pro**

The Switch Pro™ control console is designed to help growers move up to a new level of precision. Simply replace your Raven SCS 440, 450 or 4400 spray console with Switch Pro - and pair it with our Envizio Pro or Viper Pro field computer. The end result is automatic on-off section control, with access to a new world of precision for greater savings and productivity.

**Phoenix 200**

The Phoenix 200 provides accurate and reliable DGPS navigation using the WAAS correction system. The Phoenix 200 is a 10 Hz receiver with a Helix antenna and is ideal for sub-meter accurate guidance systems. The Phoenix 200 can also output a simulated radar pulse so that you no longer need a radar gun in your control system. The Phoenix 200 is smart antenna featuring the receiver and antenna built into one housing.

**Phoenix 300**

Phoenix 300 Receiver Dual-frequency GPS receiver with helix antenna for superior performance when satellites are low on the horizon. The Phoenix 300 uses WAAS, EGNOS and CDGPS free corrections for 9” pass-to-pass accuracy - and is available with OmniSTAR VBS with a paid subscription. Upgrades also available for OmniSTAR HP and XP for 2” to 4” pass-to-pass accuracy.
Getting more out of your NH3 applications
Raven has raised NH3 application technology to new levels of performance by adding AccuFlow HP™ (high performance) to its AccuFlow™ line. The new Patent Pending AccuFlow HP system is uniquely designed with unrivaled capacity—the kind you need to run at higher speeds and colder temperatures than ever before. Paired with your Raven control system, AccuFlow and AccuFlow HP super cooling NH3 technology gives you superior accuracy and control over your applications for higher yields, less waste and lower input costs. It’s that simple.

More savings and convenience. Properly matched with Raven’s spray consoles or multi-function field computers, the AccuFlow and AccuFlow HP systems guarantee your crops get the nitrogen they need, where they need it. Simply set the rate and drive—or VRA your NH3 application for even greater cost savings and efficiency.

Superior control and compatibility. AccuFlow and AccuFlow HP work seamlessly with our AccuBoom/Switch Pro section control technology and industry-leading direct injection systems, spray consoles and field computers. You’ll also like the fact that AccuFlow HP is compatible with our multi-product controllers for even greater efficiency.

Strip tillers delight. For maximum yield and efficiency, AccuFlow and AccuFlow HP deliver the perfect solution by applying NH3 in precisely the right amount and location while you apply P and K. AccuFlow HP also works beautifully with Raven’s multi-product control systems.

Key Features and Benefits
AccuFlow & AccuFlow HP
- Two-valve system for maximum precision and performance—one valve opens/closes the system and the other controls the flow rate. Ideal for variable rate applications.
- Convenient cooler disassembly for easier cleaning and maintenance, long life, and superior performance and reliability.
- NH3 monitoring options in gallons or pounds per acre for your preference/situation.
- Space-saver plumbing kits for both the two-valve and fast-valve systems for added convenience when space is limited.

AccuFlow HP (High Performance)
- Industry-first variable speed pump for incredible efficiency, tractor power savings of up to 10 horsepower, and less wear and tear on your system.
- Advanced system design for running at faster application speeds and colder temperatures—and delivering faster, industry-leading ROI!
- Nearly double the system capacity for taming the heaviest, most demanding situations.
- Super cooler technology for maintaining the right temperature for more precise NH3 metering and application.

<table>
<thead>
<tr>
<th></th>
<th>Without HP</th>
<th>With HP</th>
<th>% Increase</th>
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<tbody>
<tr>
<td>Example 1 (Max GPM)</td>
<td>40 GPM</td>
<td>54 GPM</td>
<td>35%</td>
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<tr>
<td>Example 2 (Max GPM)</td>
<td>49 GPM</td>
<td>78 GPM</td>
<td>59%</td>
</tr>
<tr>
<td>Example 3 (Max GPM)</td>
<td>6/5 GPM</td>
<td>10.4 GPM</td>
<td>60%</td>
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</table>
30 GPM system

**Raven Accu-Flow™ Attachment**

There is always a certain amount of gas formed in any anhydrous ammonia fertilizer system. And, this gas cannot be metered. However, the Raven ACCU-FLOW attachment, as part of the SCS440 Automatic Sprayer Control System, changes all gas back to liquid before it gets to the meter. This allows you to measure 100% of the NH₃. Without the ACCU-FLOW attachment, you really don't know how much anhydrous ammonia is being added to your soil. Easily mounts on your equipment.

Knife in too little and you sacrifice yield. Too much and you waste money. That's why the Raven SCS440 Automatic Sprayer Control, with the ACCU-FLOW attachment, is by far your answer. You definitely control the exact amount of NH₃ you through the system at all times with this advanced technology.

---

**Programming NH₃ Application Rate**

The target application rate (Rate 1) which you program into the SCS 440 Console is in “Gallons Per Acre” (GPA) and not “Pounds Per Acre of Actual N (PPAN)” as is most often associated with NH₃. Therefore, it is necessary to convert PPAN to GPA to determine the target application rate. Use the PPAN to GPA Table below to do this conversion. Then program this GPA rate into the SCS 440 Console.

Example: 100 pounds per acre of actual "N" = 23.7 gallons per acre.

After determining the GPA application rate, calculate the total gallons per minute flow of the system to insure that the system capacity is not exceeded. To make this calculation, use the following formula:

\[
GPM = \frac{GPA \times MPH \times Implement Width \text{ (inches)}}{5940}
\]

Where:
- GPA = Target Application Rate
- MPH = Target Vehicle Speed

Ex:
\[
GPM = \frac{23.7 \times 5.5 \times 480}{5940} = 10.5 \text{ Gallons Per minute}
\]

The maximum capacity of the 20 GPM system is 20 gallons per minute. The maximum capacity of the 30 GPM system is 30 gallons per minute. Consult factory if maximum rate is exceeded.

---

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<tr>
<th>PPAN (82%N)</th>
<th>GPA (82%N)</th>
<th>GPA</th>
<th>PPAN (82%N)</th>
<th>GPA</th>
<th>PPAN (82%N)</th>
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<td>125</td>
<td>29.60</td>
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Example: Total gallons applied is 1080. 1080 x 4.22 = 4,558 pounds of actual N. Caution: Always take your total gallons reading before blowing your applicator tubes. Blowing the tubes will cause a false accumulation of gallons!
**Raven Accu-Flow Parts Breakdown**

**Raven Complete Cooler Assembly 1¼” Inlet**

![Diagram of Raven Complete Cooler Assembly](image)

Note: Second Cooler removed to show detail

**Raven Cooler Assembly**

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<th>Qty.</th>
<th>Part #</th>
<th>Description</th>
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<td>1.25” x 12” Pipe Nipple</td>
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<td>3</td>
<td>XHTEE125</td>
<td>1.25” Tee</td>
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<td>3</td>
<td>10</td>
<td>XHNIP125-CN</td>
<td>1.25” x CN Pipe Nipple</td>
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<td>XHUN125</td>
<td>1.25” Union</td>
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<td>1.25” x 4” Pipe Nipple</td>
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<td>1.25” Elbow 90 Degree</td>
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<td>RVO63-0172-877</td>
<td>Raven Super Cooler</td>
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<td>Raven 60s Flowmeter</td>
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<td>RV019-0159-245</td>
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**Raven Valve Assembly**

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<td>Raven Control Valve</td>
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<td>Raven On/Off Valve</td>
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<td>18</td>
<td>1</td>
<td>XHPLUG100</td>
<td>1” Plug</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>RV333-0005-010</td>
<td>Reducing Elbow</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>XHNIP050-0</td>
<td>2.5” x 2” Pipe Nipple</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>RV333-0005-009</td>
<td>.5” x .25” Reducing Elbow</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>CA-1132</td>
<td>.25” Hose Barb</td>
</tr>
<tr>
<td>23</td>
<td>1</td>
<td>XHNIP100-CN</td>
<td>1” x Close Pipe Nipple</td>
</tr>
</tbody>
</table>

**Raven Cooler Bracket**

107-0171-063

**NH₃ Super Cooler**

**Rectorseal & Teflon Tape**

p. 177

Raven Accu-Flow Parts Breakdown

www.davisequip.com • www.feieast.com
### Raven Accu-Flow Parts Breakdown

#### Raven Complete Cooler Assembly 1½” Inlet

**1-1/2" AccuFlow Cooler**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>1</td>
<td>RV063-0173-314</td>
<td>Raven Super Cooler</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>XHNIP150-CN</td>
<td>1.5&quot;X CN Pipe Nipple</td>
<td>10</td>
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<tr>
<td>3</td>
<td>XHEL150-90</td>
<td>1.5&quot;Elbow 90 Degree</td>
<td>2</td>
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<tr>
<td>4</td>
<td>XHNIP150-4</td>
<td>1.5&quot;X 4&quot; Pipe Nipple</td>
<td>2</td>
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<tr>
<td>5</td>
<td>XHUN150</td>
<td>1.5&quot; Union</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>XHTEE150</td>
<td>1.5&quot;Tee</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>XHNIP150-12</td>
<td>1.5&quot;X 12&quot;Pipe Nipple</td>
<td>1</td>
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<td>8</td>
<td>RV063-0171-666</td>
<td>Raven 60s Flowmeter</td>
<td>1</td>
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<tr>
<td>9</td>
<td>XHRB150-125</td>
<td>1.5&quot;X 1.25&quot;Reducing Bushing</td>
<td>3</td>
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<tr>
<td>10</td>
<td>RV063-0173-312</td>
<td>Raven 60s Flowmeter</td>
<td>1</td>
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<tr>
<td>11</td>
<td>RV019-0159-571</td>
<td>1.5&quot;Valve with Rope Hole</td>
<td>2</td>
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<tr>
<td>12</td>
<td>15081007</td>
<td>1.25&quot;Hose Swivel</td>
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<td>13</td>
<td>GF125-0015</td>
<td>1.25&quot;X 15&quot;NH3 Hose</td>
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**1-1/2" Plumbing**

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<td>XHNI125-8</td>
<td>1.25&quot;x 8&quot;Pipe Nipple</td>
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<td>2</td>
<td>XHUN125</td>
<td>1.25&quot;Union</td>
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<td>3</td>
<td>XHNI125-6</td>
<td>1.25&quot;x 6&quot; Pipe Nipple</td>
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<td>4</td>
<td>RV063-0173-202</td>
<td>Raven Control Valve</td>
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<td>5</td>
<td>RV063-0173-203</td>
<td>Raven On/Off Valve</td>
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<td>6</td>
<td>XHNI125-2</td>
<td>1.25&quot;x 2&quot; Pipe Nipple</td>
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<tr>
<td>7</td>
<td>XHTEE125</td>
<td>1.25&quot;Tee</td>
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<td>8</td>
<td>XHNI125-CN</td>
<td>1.25&quot;X CN Pipe Nipple</td>
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<td>9</td>
<td>XHEB125-050</td>
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<td>10</td>
<td>XHNIP050-2</td>
<td>.5&quot;x 2&quot; Pipe Nipple</td>
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<tr>
<td>11</td>
<td>XHEL050-90</td>
<td>XHEL050-90</td>
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<tr>
<td>12</td>
<td>XHTEO050</td>
<td>.5&quot;Tee</td>
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<td>13</td>
<td>RV333-0002-006</td>
<td>.25&quot;x 3.75&quot;Hose Barb</td>
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<td>14</td>
<td>XHNIP050-1.5</td>
<td>.5&quot;x 1.5&quot; Pipe Nipple</td>
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<td>15</td>
<td>RV333-0004-009</td>
<td>.5&quot;x .5&quot; x .25&quot;Tee</td>
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<td>16</td>
<td>RV417-001-009</td>
<td>Raven Temp Gauge</td>
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<td>17</td>
<td>XHNIP025-2</td>
<td>.25&quot;x 2&quot; Pipe Nipple</td>
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<td>18</td>
<td>XHCR025</td>
<td>.25&quot;Cross</td>
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<td>19</td>
<td>AG150</td>
<td>150# PSI Gauge</td>
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<td>20</td>
<td>XHPLUG025</td>
<td>.25&quot;Plug</td>
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<td>21</td>
<td>SII1410</td>
<td>.25&quot;Bleeder</td>
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Raven Products

Application Controls

AccuFlow™

Kits, Single Cooler

"Includes 1 1/2" AccuFlow Super Cooler, 1 1/4" Fast Valve, RFM 60S Flowmeter, Assembly Fittings, Space Saver Kit

"Includes 1 1/2" AccuFlow Super Cooler, 1 1/4" Control Valve, 1 1/4" On/Off Valve, RFM 60S Flowmeter, Assembly Fittings, Space Saver Kit

***Must order Vapor Tube Kits separately

Kit, AccuFlow, Single Cooler, Fast Valve* 1-117-0171-386
Kit, AccuFlow, Single Cooler, Two Valve** 1-117-0171-384

Kits, Dual Cooler

Kit, AccuFlow, Dual Cooler, Fast Valve* 1-117-0171-389
Kit, AccuFlow, Dual Cooler, Two Valve** 1-117-0171-387

Kits, Other

Upgrade Kit, Single Cooler to Dual Cooler 1-117-0171-390
Kit, Vapor Tube 3/4 two tubes, kit inc hose and clamps*** 1-117-0171-409
Kit, Vapor Tube 1/2 four tubes, kit inc hose and clamps*** 1-117-0171-410

Cables & Components

* New valve w/ round molded connector and cable to old style 2-pin flat connector on flow cable
** With round connector to older 3 wire hook up

Cable, Adapter for NH3 Valve Control 1" to 2 PIN Flat* 1-115-0171-807
Cable, Adapter for NH3 Valve On/Off 1" to 2 PIN Flat** 1-115-0171-808
Cable, Adapter for NH3 Fast 1" to 2 PIN Flat* 1-115-0171-807
Cable, 10' Console, SCS 440 1-115-0171-085
Cable, Adapter for NH3 On/Off Valve to 3 PIN Weather Pack 1-115-0171-815
Cable, Adapter for NH3 On/Off Valve, Spade to 4 PIN rmd conxall 1-115-0171-856
Cable, Adapter for NH3 Control Valve, 2 PIN Flat to 4 PIN rmd conxall 1-115-0171-857
Assembly, Super Cooler, Orifice 1-063-0173-491
Kit, Orifice NH3 (contains orifice fittings) 1-117-0171-501
## Application Controls

### AccuFlow™

**Replacement Parts, AccuFlow™**

*Universal - use w/ 063-0159-837, 063-0159-546, 063-0172-877 and 063-0173-314 coolers

**Use w/ 063-0159-837 and 063-0159-546 coolers

***Use w/ 063-0172-877 and 063-0173-314 coolers

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Part Number</th>
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<tr>
<td>1-1/4 Ball C.S. Valve Manual Safety ON/OFF</td>
<td>1-019-0159-245</td>
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<tr>
<td>1-1/2 Ball C.S. Valve Manual Safety ON/OFF</td>
<td>1-019-0159-571</td>
</tr>
<tr>
<td>RFM 60S, 1-60 GPM, S.S., NH3</td>
<td>1-063-0171-666</td>
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<tr>
<td>Sensor Assy External Flowmeter</td>
<td>1-063-0171-669</td>
</tr>
<tr>
<td>Valve Control 1” Jamesbury (New Round Molded Connector)</td>
<td>1-063-0172-977</td>
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<tr>
<td>Valve On/Off 1” Jamesbury (New Round Molded Connector)</td>
<td>1-063-0172-978</td>
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<tr>
<td>Valve Fast 1” Jamesbury (New Round Molded Connector)</td>
<td>1-063-0172-979</td>
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<tr>
<td>Motor Assembly only, Control Valve</td>
<td>1-063-0172-980</td>
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<tr>
<td>Motor Assembly only, On/Off Valve</td>
<td>1-063-0172-981</td>
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<tr>
<td>Motor Assembly only, Fast Valve</td>
<td>1-063-0172-982</td>
</tr>
<tr>
<td>Check Valve Assy NH3 Multi Section</td>
<td>1-063-0173-030</td>
</tr>
<tr>
<td>Valve, Control, 1 1/4” NPT, NH3, SS</td>
<td>1-063-0173-202</td>
</tr>
<tr>
<td>Valve, On/Off, 1 1/4” NPT, NH3, SS</td>
<td>1-063-0173-203</td>
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<tr>
<td>Valve, Fast, 1 1/4” NPT, NH3, SS</td>
<td>1-063-0173-204</td>
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<tr>
<td>Valve, Assembly, 1-1/4” Ball, Stainless Steel</td>
<td>1-063-0173-209</td>
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<tr>
<td>Kit 1” S.S. Ball &amp; Mnt Hrdwr NH3</td>
<td>1-063-0173-256</td>
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<td>Valve, Assembly, 1” Ball, Stainless Steel</td>
<td>1-063-0173-257</td>
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<td>1-1/2 Y strainer assembly</td>
<td>1-063-0173-312</td>
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<tr>
<td>Assembly, Super Cooler</td>
<td>1-063-0173-314</td>
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<tr>
<td>Kit, Gasket*</td>
<td>1-117-0171-121</td>
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<td>Kit, Safety Label</td>
<td>1-117-0171-129</td>
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<tr>
<td>Retrofit Kit NH3 Control Valve &amp; Adpt Cable</td>
<td>1-117-0171-156</td>
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<td>Retrofit Kit NH3 On/Off Valve &amp; Adpt Cable</td>
<td>1-117-0171-158</td>
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<td>Retrofit Kit NH3 Fast Valve &amp; Adpt Cable</td>
<td>1-117-0171-157</td>
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<tr>
<td>On/Off Control Valve Indicator Kit</td>
<td>1-117-0171-219</td>
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<table>
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<tr>
<th>Item Description</th>
<th>Part Number</th>
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<tr>
<td>30 GPM (1 1/2”) NH3 single cooler w/out valves and flow meter, Plumbing</td>
<td>1-117-0171-381</td>
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<tr>
<td>Kit (117-0171-385) included</td>
<td>1-117-0171-381</td>
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<tr>
<td>Tub only NH3 Vapor 3/4”</td>
<td>1-214-0002-002</td>
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<tr>
<td>Tub only NH3 Vapor 1/2”</td>
<td>1-214-0002-003</td>
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<tr>
<td>Gasket Teflon for 1 1/4” Y Strainer</td>
<td>1-219-0000-091</td>
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<tr>
<td>Gasket, Heat Exchanger**</td>
<td>1-219-0000-142C</td>
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<tr>
<td>Gasket, Flange, Heat Exchanger***</td>
<td>1-219-0000-143</td>
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<tr>
<td>Gasket, Retainer, Flange, Heat Exchanger**</td>
<td>1-219-0000-144</td>
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<tr>
<td>Gasket Teflon For 1 1/2” Y Strainer</td>
<td>1-219-0000-154</td>
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<tr>
<td>bushing reducer 1- 1/2 to 1- 1/4</td>
<td>1-333-0003-019</td>
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<tr>
<td>1-1/4 Y strainer assembly</td>
<td>1-333-9000-025</td>
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<tr>
<td>Screen 20 mesh for 1 1/4” Y Strainer</td>
<td>1-333-9000-032</td>
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<td>Y Strainer, 1 1/2”, NH3</td>
<td>1-333-9000-066</td>
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<tr>
<td>Screen 20 mesh for 1 1/2” Y Strainer</td>
<td>1-333-9000-067</td>
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<td>Ball Valve, 1 1/2”, Manual Safety NH3</td>
<td>1-334-0001-063</td>
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<tr>
<td>Pressure Transducer</td>
<td>1-422-0000-090</td>
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Application Controls

AccuFlow™

Controller Kits, CAN AccuFlow™

Note: These kits include the control node and node cable. Please refer to the application drawings for other required cables.

- Kit, AccuFlow or AccuFlow HP, for existing SCS 4400 Switch Pro (GEN I) 1-117-0171-334
- Kit, CAN AccuFlow or AccuFlow HP, 3 section (GEN II) 1-117-5300-001
- Kit, CAN AccuFlow or AccuFlow HP, 6 section (GEN II) 1-117-5300-002
- Kit, ISO AccuFlow or AccuFlow HP, 3 section 1-117-6300-001
- Kit, ISO AccuFlow or AccuFlow HP, 6 section 1-117-6300-002

Cables

NH3 Cables for Multi Section Bar

- Cable NH3 Flow 3 section for 440/450/Switch Pro 1-115-0171-836
- Cable NH3 Flow 3 section for 4400/Switch Pro 1-115-0171-837
- Cable NH3 12’ Extension for 1 to 3 section 440/450 1-115-0159-856
- Cable NH3 24’ Extension for 1 to 3 section 440/450 1-115-0159-857
- Cable NH3 Flow 6 section for 440/450/Switch Pro 1-115-0171-838
- Cable NH3 Flow 6 section for 4400/Switch Pro 1-115-0171-839
- Cable NH3 12’ Extension 6 section 440/450/Switch Pro 1-115-0171-840
- Cable NH3 24’ Extension 6 section 440/450/Switch Pro 1-115-0171-841
- Cable NH3 12’ Extension 6 section 4400/Switch Pro 1-115-0171-842
- Cable NH3 24’ Extension 6 section 4400/Switch Pro 1-115-0171-843
- Cable Power NH3 Sections 4,5,6 use w/ 840,841,842 or 843 1-115-0171-844

NH3 Cables for Single Section Bar

- Cable NH3 12’ Flow single section for 440 1-115-0171-800
- Cable NH3 12’ Flow single section for 4400 1-115-0171-809
- Cable NH3 12’ Extension single section for 4400 1-115-0171-319
- Cable NH3 24’ Extension single section for 4400 1-115-0171-320

NH3 On/Off Valve Extension Cables

- Cable 6’ Extension for NH3 On/Off Valve 1-115-0171-832
- Cable 12’ Extension for NH3 On/Off Valve 1-115-0171-833
- Cable 24’ Extension for NH3 On/Off Valve 1-115-0171-834
Application Controls

AccuFlow HP™

AccuFlow HP™

Kits, AccuFlow HP™

*Includes Super Coolers, HP pump, Hyd. hose, PWM Valve, Mount Platform, 1 1/4 Control Valve, 1 1/4 On/Off Valve and SS Flowmeter

**Includes Super Coolers, HP pump, Hyd. hose, PWM Valve, Mount Platform, 1 1/4 Fast Valve and SS Flowmeter

***Must order Vapor Tube Kits separately

Kit, AccuFlow HP, Dual Cooler, Two Valve* 1-117-0171-392
Kit, AccuFlow HP, Dual Cooler, Fast Valve** 1-117-0171-393
Kit, Vapor Tube 3/4 two tubes, kit inc hose and clamps*** 1-117-0171-409
Kit, Vapor Tube 1/2 four tubes, kit inc hose and clamps*** 1-117-0171-410

Upgrade Kits, 1 1/4” Coolers, AccuFlow HP™

Note: All kits require a control node/cable kit (see Controller Kits below).

*Requires valve update kit (117-0171-332 or 117-0171-333)

Upgrade kit, pump, for coolers with 1 1/4” inlet and outlet to HP* 1-117-0171-331
Upgrade kit, two valve, for coolers with 1 1/4” inlet and outlet to HP 1-117-0171-332
Upgrade kit, fast valve, for coolers with 1 1/4” inlet and outlet to HP 1-117-0171-333

Upgrade Kits, 1 1/2” Coolers, AccuFlow HP™

Note: A control node/cable kit is required (see Controller Kits below). Valve kits are NOT required.

Upgrade kit, for coolers with 1 1/2” inlet, outlet and 1 1/2” valves 1-117-0171-425

Controller Kits, AccuFlow HP™

Note: These kits include the control node and node cable. Please refer to the application drawing for required cables.

Kit, AccuFlow or AccuFlow HP, for existing SCS 4400 Switch Pro (GEN I) 1-117-0171-334
Kit, CAN AccuFlow or AccuFlow HP, 3 section (GEN II) 1-117-6300-001
Kit, CAN AccuFlow or AccuFlow HP, 6 section (GEN II) 1-117-6300-002
Kit, ISO AccuFlow or AccuFlow HP, 3 section 1-117-6300-001
Kit, ISO AccuFlow or AccuFlow HP, 6 section 1-117-6300-002

Service Kits, AccuFlow HP™

Kit, seal pump, hyd. motor, NH3 HP 1-117-0171-354
Kit, seal pump, NH3 HP 1-117-0171-353

AccuFlow™

Service Kits, AccuFlow HP™

Pump Centrifugal, AccuFlow HP 1-416-1001-009

Sky-Trac Extension Cable

12’ Extension Cable RV115-0159-032
24’ Extension Cable RV115-0159-018
# Raven Products

## Application Controls

### AccuFlow HP™

#### Cables, AccuFlow HP™

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<td>Cable, Single Product Node, AccuFlow HP (GEN I)</td>
<td>1-115-0171-909</td>
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<td>Cable, Chassis Cat Challenger / Generic Systems (GEN II)</td>
<td>1-115-0171-915</td>
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<td>Cable, Implement Extension Tee, 1' (GEN II)</td>
<td>1-115-0171-928</td>
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<td>Cable, Implement Extension Tee, 12' (GEN II)</td>
<td>1-115-0171-916</td>
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<td>Cable, Implement Extension Tee, 24' (GEN II)</td>
<td>1-115-0171-917</td>
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<td>Cable, Cab PWR/CAN SCS 4x00/5x00 Series (GEN II)</td>
<td>1-115-0171-927</td>
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<tr>
<td>Cable, Tee Adpt. SCS 4400 to Accuflow HP Node</td>
<td>1-115-0171-940</td>
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#### Valves, AccuFlow HP™

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<td>Valve, Control, 1 1/4&quot; NPT, NH3, SS</td>
<td>1-063-0173-202</td>
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<td>Valve, On/Off, 1 1/4&quot; NPT, NH3, SS</td>
<td>1-063-0173-203</td>
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<tr>
<td>Valve, Fast, 1 1/4&quot; NPT, NH3, SS</td>
<td>1-063-0173-204</td>
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## Notes:

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Raven Products

Application Controls

Sidekick Pro™: Direct Injection

Sidekick Pro™: Direct Injection

Kits, Sidekick Pro™
- Kit, Injection Pump, 1-40 oz/min 1-063-0173-201
- Kit, Injection Pump, 5-200 oz/min 1-063-0173-200
- Kit, Injection Pump w/ tank, 1-40 oz/min 1-063-0173-212
- Kit, Injection Pump w/ tank, 5-200 oz/min 1-063-0173-213

Cables, Sidekick Pro™
- Cable, CAN motor control, with agitator (GEN I) 1-115-0171-943
- Cable, CAN motor control, without agitator (GEN I) 1-115-0171-944
- Cable, Node Injection Pump (GEN II) 1-115-0171-952
- Cable, Node Injection Pump with agitator (GEN II) 1-115-0171-948
- Cable, 35', 3rd/4th injection pump (GEN II) 1-115-0171-953
- Cable, 6', 3rd/4th injection pump (GEN II) 1-115-0171-954
- Cable, 12', 3rd/4th injection pump (GEN II) 1-115-0171-955
- Cable, 24', 3rd/4th injection pump (GEN II) 1-115-0171-956
- Cable, 36', 3rd/4th injection pump (GEN II) 1-115-0171-957

Flow Monitor Cables (3 pin weatherpack connector)
- Cable, Sidekick Pro, Gen I w/agitator 1-115-0172-104
- Cable, Sidekick Pro Gen I w/out agitator 1-115-0172-105
- Cable, Adapter, -952 Cable to -492 Flow Monitor (Old power cable; 3 pin)
  1-115-0172-110
- Cable, Adapter, -952 Cable to -979 Flow Monitor (New power cable; 3 pin weatherpack)
  1-115-0172-111
- Cable, Adapter, -107 Cable to -979 Flow Monitor (New power cable; 3 pin
  weatherpack to old Flow Monitor; 3 pin Conxall) 1-115-0171-111

Components, Sidekick Pro™
- Pump, 5-200 oz/min 1-063-0173-081
- Pump, 1-40 oz/min 1-063-0173-103
- Valve, recirculation w/ calibrator 1-063-0173-260
- Cover, calibrator 1-106-0159-637
- Bearing Kit (pump, drive bearing, screws, o-ring and key) 1-117-0171-394
- Seal Kit for Pump 1-117-0159-987
- Check Valve, recirculation/priming w/ bleed hole 1-333-0011-100
- Motor, 12V, 1250 RPM 1-416-0000-039
- Motor, 12V, 250 RPM, sealed 1-416-0000-040
- Pump Only 1-063-0172-924
- Inlet Check Valve Assembly 1-063-0172-504
- Outlet Check Valve with Transducer 1-063-0173-310
- Intake Check Valve Assembly 1-063-0172-503
- Pump Calibrator 1-063-0172-822
Raven Products

Application Controls

Sidekick Pro™: Direct Injection

ISO Injection Pumps, Sidekick Pro™

ISO Pump, without tank, 1-40 oz/min 1-063-0173-420
ISO Pump, without tank, 5-200 oz/min 1-063-0173-421
ISO Pump, with 24 gal tank, 1-40 oz/min 1-063-0173-422
ISO Pump, with 24 gal tank, 5-200 oz/min 1-063-0173-423

Components & Cables, ISO Injection

Pump, ISO Injection, 5-200 oz/min, without calibrator 1-063-0173-402
Pump, ISO Injection, 1-40 oz/min, without calibrator 1-063-0173-403
Cable Adapter, JD ISO to Raven ISO Injection, 6’ 1-115-0172-081
Cable Adapter, JD ISO to Raven ISO Injection, 12’ 1-115-0172-082
Cable Adapter, JD ISO to Raven ISO Injection, 24’ 1-115-0172-083
Cable Adapter, JD ISO to Raven ISO Injection, 36’ 1-115-0172-084
Cable, ISO motor control, with agitator 1-115-0172-0106
Cable, ISO motor control, without agitator 1-115-0172-107
Cable, 6’ Extension, JD ISO to Raven ISO 1-115-0172-093
Cable, 12’ Extension, JD ISO to Raven ISO 1-115-0172-094
Cable, 24’ Extension, JD ISO to Raven ISO 1-115-0172-095

Sidekick™: Direct Injection

SCS-Sidekick™

Components, SCS-Sidekick™

* For systems other than Sidekick, add a Motor Control and a Motor Control Mounting Kit.

Console Cable 15’ 1-115-0171-130
Product Cable 27’ 1-115-0171-138
Adapter Cable, Non-Raven to SCS-Sidekick 1-115-0171-147
Plumbing Kit 1-117-0159-760
Product Cable 3’ 1-115-0171-305

Cables, SCS-Sidekick™

Adapter Cable, SCS-Sidekick to John Deere 4700/4710/4720 1-115-0171-185
Cable Boom SCS-Sidekick to John Deere 4920/4930 1-115-0171-522
Cable Boom Sense SCS-Sidekick to John Deere 4920/4930 1-115-0171-523
Boom Adapter Cable, SCS-Sidekick to John Deere 4730/4830 1-115-0171-757

Injection Check Valves

Check Valve, 3/8", 5 PSI, SS, Teflon Ball 1-333-0011-078
Check Valve, 1/2", SS, 12 PSI, Extreme Viton (use w/ NH3 and N Serve) 1-333-0011-102
Check Valve, 1", 14 GPM, carrier 1-333-0011-090
Check Valve, 1 1/4", 22 GPM, carrier 1-333-0011-091
Check Valve, 2", 70 GPM, carrier 1-333-0011-093
Check Valve, 3", 110 GPM, carrier 1-333-0011-094

Miscellaneous Components, SCS-Sidekick™

Calibration Flask 1-106-0159-454
Kit, Circuit Breaker Sidekick 1-117-0159-967
Raven Products

Application Controls

Sidekick™: Direct Injection

SCS-Sidekick™

Injection Components

Motor Controls
- Motor Control (for 700/750 Injection systems) w/out bracket 1-063-0172-226
- Motor Control w/ bracket (replaces 063-0159-788) 1-063-0172-297
- CAN Motor Control 1-063-0172-360
- CAN Motor Control w/ Agitator control capability 1-063-0172-479
- Cable, 35' Power CAN Motor Control 1-115-0171-582
- Kit, Motor Control Mounting 1-117-0159-384
- Kit, Motor Control CAN w/ Agit and Power Cable 9-117-0171-029
- Kit, Motor Control CAN w/out Agit and Power Cable 1-117-0171-030

Mix-All Agitators (48” shaft cut to desired length)
- 3” Blade Mix-All Electric Agitator 1-910-0000-331
- 4” Blade Mix-All Electric Agitator 1-910-0000-341
- 30’ Extension Cable for Agitators 1-115-0159-468

In-Line Mixers
- In-Line Mixer, 1 1/4” Poly 1-063-0159-832
- In-Line Mixer, 2” Poly 1-083-0171-300
- In-Line Mixer, 1” Poly 1-063-0171-303
- Stainless Steel Mixer, 3” Diameter 1-333-5000-010
- Mixer, Flow Assembly 1” NPT (Cast Iron) NH3 1-063-0171-784
- Mixer, Flow Assembly 1 1/4” NPT (Cast Iron) NH3 1-063-0173-388
- 4” Mixer, SS, assembled w/ back check and injection ports 1-063-0173-264
- 3” Mixer, SS, assembled w/ back check and injection ports 1-063-0173-272
- 2” Mixer, Poly, assembled w/ back check and injection ports 1-063-0173-235
- Mixer, Flow Assembly, 1” NPT, Low Flow 1-063-0173-432

Tanks and Saddles
- 24 gal. Poly Tank 1-117-0159-540
- 24 gal. Poly Tank (Agitator) 1-117-0159-541
- Kit Plug Asy Injct 1-117-0159-555
- Cover 8-16-24 Gal Tank 1-118-0159-043
- Kit Saddle Asy 24 Gal Tank 1-117-0159-554
- Tank Saddle Only 1-118-0159-007

Agitator Kits
- Kit, Agitator, 8 Gal 1-117-0159-542
- Kit, Agitator, 15 Gal 1-063-0159-729
- Kit, Agitator, 16 Gal 1-117-0159-543
- Kit, Agitator, 24 Gal 1-117-0159-544
- Kit, Agitator, 30 Gal 9-063-0159-678
**Vehicle Speed Sensors**
Regulating valve and flow meter selection are determined by flow rate and pressure requirements.

- Raven radar speed sensor that utilizes state of the art array antenna. The housing is constructed of glass reinforced polypropylene, and weighs only 3 lbs. and measures 5” x 8” x 2 ½ thick.
- Wheel drive speed sensor that mounts on the rim and spindle of a non-driven wheel on the vehicle.
- Speedometer drive sensor which mounts in-line on the back of the vehicle speedometer.
- Drive shaft sensor which mounts on the vehicle drive shaft.
- Radar interface cables for adaptation to Dickey-John, Magnavox, and the TWR radar guns.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>117-0159-822</td>
<td>Raven Radar Gun with 9’ Cable</td>
<td>538.58</td>
</tr>
<tr>
<td>063-0159-484</td>
<td>Wheel Drive Speed Sensor</td>
<td>247.93</td>
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<tr>
<td>115-0159-517</td>
<td>Radar Interface Cable - DJ/Case/IH/Ford/White After 1990</td>
<td>118.86</td>
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<tr>
<td>115-0159-518</td>
<td>Radar Interface Cable - DJ/Cat/Challenger</td>
<td>182.00</td>
</tr>
<tr>
<td>115-0159-519</td>
<td>Radar Interface Cable - DJ/Magnavox/John Deere after 1990</td>
<td>107.72</td>
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<tr>
<td>115-0159-526</td>
<td>Radar Interface Cable - Dickey John</td>
<td>95.65</td>
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<tr>
<td>115-0171-670</td>
<td>John Deere 30 Series</td>
<td>89.15</td>
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<tr>
<td>115-0159-700</td>
<td>John Deere 7000/8000/9000 Series</td>
<td>100.29</td>
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<tr>
<td>115-0171-304</td>
<td>New Holland TG, Case MX or STX</td>
<td>162.50</td>
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<tr>
<td>115-0159-518</td>
<td>Cat 65 &amp; 75</td>
<td>182.00</td>
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<tr>
<td>115-0159-627</td>
<td>Cat 65C &amp; 75C, 65D, 75D, &amp; 85D</td>
<td>127.22</td>
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<tr>
<td>115-0159-580</td>
<td>Cat E Series</td>
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<td>DJV5111</td>
<td>DJ Radar</td>
<td>624.14</td>
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<tr>
<td>S113588</td>
<td>Sky-Trac Raven Cable</td>
<td>400.68</td>
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<tr>
<td>S113587</td>
<td>Sky-Trac Dickey John Cable</td>
<td>400.68</td>
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</table>

**Flow Meters**

**RFM-100 Poly**
Polypropylene housing. 3-100 GPM, 2” FNPT inlet and outlet 150 PSI Rating — For use with chemicals and liquid fertilizer.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>063-0171-066</td>
<td>RFM-100</td>
<td>585.00</td>
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</table>

**RFM-60P**
Polypropylene housing. 1 to 60 GPM (4 to 208 liters) flow rate. 1 ¼” hose barbs and outlet. 175 PSI rating. For use with chemicals and liquid fertilizer.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>063-0171-793</td>
<td>RFM-60P</td>
<td>366.65</td>
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</table>

**RFM-60S**
303 Stainless Steel housing. Capacity 1-60 GPM, pressure rating 300 PSI — 1 ½” FPT Inlet and outlet.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>063-0171-666</td>
<td>RFM-60S</td>
<td>571.08</td>
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</tbody>
</table>

**RFM-200 CAST**
Nickel plated cast iron housing. 15 to 200 GPM (55 to 750 liters) flow rate. 3” NPT Female inlet and outlet. 300 PSI rating. For use with chemicals and liquid fertilizer.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>063-0159-574</td>
<td>RFM-200</td>
<td>900.72</td>
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</tbody>
</table>

**RFM-200 POLY**
High density polyethylene construction. 15 to 200 GPM (55 to 750 liters) flow rate. 3” NPT Female inlet and outlet. 90 PSI rating. For use with chemical, liquid fertilizer and fertilizer with high acid content.

<table>
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<tr>
<th>Part No.</th>
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<th>Price</th>
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<tbody>
<tr>
<td>063-0159-751</td>
<td>RFM-200</td>
<td>891.43</td>
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</table>

**Regulating Valves**

**2” Stainless-Steel Butterfly Valve**
2” Stainless Steel butterfly valve. For use with high volume applications and high pressure, 300 PSI rating. Viton o’ rings and seals.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>063-0172-177</td>
<td>Control Valve</td>
<td>603.58</td>
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</tbody>
</table>

**1” And 1 ½” Poly Butterfly Valve**
All polypropylene valve features high torque, 12V DC motor. 175 PSI rating. For use with chemicals and liquid fertilizers.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>063-0172-125</td>
<td>1” Valve</td>
<td>232.15</td>
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<tr>
<td>063-0171-894</td>
<td>1-1/2&quot; Valve</td>
<td>265.58</td>
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