



Modular Control Boxes

A full line of control boxes for chemical injection modular systems



MJ Systems, LLC
Authorized Graco Distributors
502 N 8th St • La Porte, TX 77571
Off (281) 842-7600 • Fax (281) 842-7601
www.mjsusa.com • sales@mjsusa.com

PROVEN QUALITY. LEADING TECHNOLOGY.

Modular Control Box Options

When specifying the correct chemical injection system, choosing the correct control box configuration can be very critical in ensuring proper system operation. The box options below help meet all chemical injection application requirements.

ONE-BATTERY CONTROL BOX



One-Battery Plastic Box

Part #: B5210X

- For DC power only
- Houses a Harrier® EZ controller
- Separate tray for controller and charge controller
- Lockable box
- Comes standard with G-Chem™ solar systems



One-Battery Metal Box

Part #: B5215X

- For DC power only
- Painted steel construction
- Lockable slide lid
- Configured for a pole mount
- Comes standard with G-Chem™ solar systems

TWO-BATTERY CONTROL BOX



Two-Battery Metal Box

Part #: B522XX

- For DC power only
- Houses up to two batteries
- Aluminum construction
- Lockable slide lid
- Configured for a pole mount
- Includes box and sub-plate



Two-Battery Metal Box Sub-Plate

- Removable sub-plate for easy battery access and ease of serviceability
- Keeps electric components and battery separate
- Sub-plates are configurable with all controller and charge controller options
- On/Off switch

NEMA RATED CONTROL BOXES



NEMA Rated AC Box

Part #: B52AXX

- NEMA 4 rated box
- Conforms to UL-508A and CSA 22.2 No. 14 & 73
- For AC power only
- Houses the Harrier+ controller
- Painted steel construction
- Lockout/Tagout disconnect
- Configured for a pole mount



NEMA Rated DC Box

Part #: B52NXX

- NEMA 4X rated box
- For DC power only
- Separate battery box that holds up to two batteries (Part #: B32808)
- UV resistant polycarbonate construction (UL-5VA rated)
- Lockable hinged door
- Configured for a pole mount
- Additional dual battery boxes can be linked (Part #: B32809)
- On/Off switch



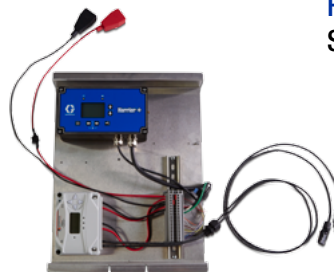
FOUR-BATTERY CONTROL BOXES



Four-Battery Plastic Box

Part #: B32805

- For DC power only
- Houses up to four batteries
- Lockable hinged lid
- Removable sub-plate for easy battery access and ease of serviceability
- Plastic box only



Four-Battery Plastic Box Sub-Plate Part #: B524XX

- Removable sub-plate for easy battery access and ease of serviceability
- Keeps electric components and battery separate
- Sub-plates are configurable with all controller and charge controller options
- On/Off switch

Ordering Information

Selecting the right control box will depend on the box type, voltage, pump controller, and if applicable, charge controller and number of solar panels required. The tables below summarize all of the control box options available for your chemical injection application.

| | | Charge Controller/Controller | | | AC Control Box Options | | | | |
|---------------------------------|---------|------------------------------|---------------|------------|------------------------|----------------|------------------|-----------------|---------------|
| | | Charge Controller/Controller | No Controller | Harrier EZ | | Harrier+ SCADA | Harrier+ GSM USA | Harrier+ Global | Harrier+ CDMA |
| One-Battery Control Box Options | Metal | ASC™ 12/12 | B52151 | B52150 | 115 VAC | B52A00 | B52A01 | B52A02 | B52A03 |
| | Plastic | ASC™ 12/12 | B52101 | B52100 | | 230 VAC | B52A04 | B52A05 | B52A06 |

| | | Charge Controller/Controller | No Controller | Harrier EZ | Harrier | Harrier+ SCADA | Harrier+ GSM USA | Harrier+ Global | Harrier+ CDMA |
|---------------------------------|---|------------------------------|---------------|------------|---------|----------------|------------------|-----------------|---------------|
| Two-Battery Control Box Options | ASC™ 12/12 (12VDC, one panel) | B52200 | B52201 | B52202 | B52203 | B52204 | B52205 | B52206 | |
| | SunSaver™ SS20L-12V (12VDC, one panel) | B52207 | B52208 | B52209 | B52210 | B52211 | B52212 | B52213 | |
| | Prostar™ 30 (12/24 VDC, one panel) | B52214 | B52215 | B52216 | B52217 | B52218 | B52219 | B52220 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52221 | B52222 | B52223 | B52224 | B52225 | B52226 | B52227 | |
| | ASC™ 24/16 (24 VDC, one panel) | B52228 | B52229 | B52230 | B52231 | B52232 | B52233 | B52234 | |
| | SunSaver™ SS20L-24V (24 VDC, one panel) | B52235 | B52236 | B52237 | B52238 | B52239 | B52240 | B52241 | |
| | ASC™ 12/16 (12 VDC, two panel) | B52242 | B52243 | B52244 | B52245 | B52246 | B52247 | B52248 | |
| | SunSaver™ SS20L-12V (12 VDC, two panel) | B52249 | B52250 | B52251 | B52252 | B52253 | B52254 | B52255 | |
| | Prostar™ 30 (12/24 VDC, two panel) | B52256 | B52257 | B52258 | B52259 | B52260 | B52261 | B52262 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52263 | B52264 | B52265 | B52266 | B52267 | B52268 | B52269 | |
| | ASC™ 24/16 (24 VDC, two panel) | B52270 | B52271 | B52272 | B52273 | B52274 | B52275 | B52276 | |
| | SunSaver™ SS20L-24V (24 VDC, two panel) | B52277 | B52278 | B52279 | B52280 | B52281 | B52282 | B52283 | |

| | | Charge Controller/Controller | No Controller | Harrier EZ | Harrier | Harrier+ SCADA | Harrier+ GSM USA | Harrier+ Global | Harrier+ CDMA |
|---------------------------------|---|------------------------------|---------------|------------|---------|----------------|------------------|-----------------|---------------|
| Four-Battery Back Panel Options | ASC™ 12/12 (12VDC, one panel) | B52400 | B52401 | B52402 | B52403 | B52404 | B52405 | B52406 | |
| | SunSaver™ SS20L-12V (12VDC, one panel) | B52407 | B52408 | B52409 | B52410 | B52411 | B52412 | B52413 | |
| | Prostar™ 30 (12/24 VDC, one panel) | B52414 | B52415 | B52416 | B52417 | B52418 | B52419 | B52420 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52421 | B52422 | B52423 | B52424 | B52425 | B52426 | B52427 | |
| | ASC™ 24/16 (24 VDC, one panel) | B52428 | B52429 | B52430 | B52431 | B52432 | B52433 | B52434 | |
| | SunSaver™ SS20L-24V (24 VDC, one panel) | B52435 | B52436 | B52437 | B52438 | B52439 | B52440 | B52441 | |
| | ASC™ 12/16 (12 VDC, two panel) | B52442 | B52443 | B52444 | B52445 | B52446 | B52447 | B52448 | |
| | SunSaver™ SS20L-12V (12 VDC, two panel) | B52449 | B52450 | B52451 | B52452 | B52453 | B52454 | B52455 | |
| | Prostar™ 30 (12/24 VDC, two panel) | B52456 | B52457 | B52458 | B52459 | B52460 | B52461 | B52462 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52463 | B52464 | B52465 | B52466 | B52467 | B52468 | B52469 | |
| | ASC™ 24/16 (24 VDC, two panel) | B52470 | B52471 | B52472 | B52473 | B52474 | B52475 | B52476 | |
| | SunSaver™ SS20L-24V (24 VDC, two panel) | B52477 | B52478 | B52479 | B52480 | B52481 | B52482 | B52483 | |
| | Prostar™ 30 (12/24 VDC, three panel) | B52484 | B52485 | B52486 | B52487 | B52488 | B52489 | B52490 | |
| | Prostar™ 30M (12/24 VDC, three panel) | B52491 | B52492 | B52493 | B52494 | B52495 | B52496 | B52497 | |

| | | Charge Controller/Controller | No Controller | Harrier EZ | Harrier | Harrier+ SCADA | Harrier+ GSM USA | Harrier+ Global | Harrier+ CDMA |
|-----------------------------------|---|------------------------------|---------------|------------|---------|----------------|------------------|-----------------|---------------|
| NEMA Rated DC Control Box Options | ASC™ 12/12 (12VDC, one panel) | B52N00 | B52N01 | B52N02 | B52N03 | B52N04 | B52N05 | B52N06 | |
| | SunSaver™ SS20L-12V (12VDC, one panel) | B52N07 | B52N08 | B52N09 | B52N10 | B52N11 | B52N12 | B52N13 | |
| | Prostar™ 30 (12/24 VDC, one panel) | B52N14 | B52N15 | B52N16 | B52N17 | B52N18 | B52N19 | B52N20 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52N21 | B52N22 | B52N23 | B52N24 | B52N25 | B52N26 | B52N27 | |
| | ASC™ 24/16 (24 VDC, one panel) | B52N28 | B52N29 | B52N30 | B52N31 | B52N32 | B52N33 | B52N34 | |
| | SunSaver™ SS20L-24V (24 VDC, one panel) | B52N35 | B52N36 | B52N37 | B52N38 | B52N39 | B52N40 | B52N41 | |
| | ASC™ 12/16 (12 VDC, two panel) | B52N42 | B52N43 | B52N44 | B52N45 | B52N46 | B52N47 | B52N48 | |
| | SunSaver™ SS20L-12V (12 VDC, two panel) | B52N49 | B52N50 | B52N51 | B52N52 | B52N53 | B52N54 | B52N55 | |
| | Prostar™ 30 (12/24 VDC, two panel) | B52N56 | B52N57 | B52N58 | B52N59 | B52N60 | B52N61 | B52N62 | |
| | Prostar™ 30M (12/24 VDC, one panel) | B52N63 | B52N64 | B52N65 | B52N66 | B52N67 | B52N68 | B52N69 | |
| | ASC™ 24/16 (24 VDC, two panel) | B52N70 | B52N71 | B52N72 | B52N73 | B52N74 | B52N75 | B52N76 | |
| | SunSaver™ SS20L-24V (24 VDC, two panel) | B52N77 | B52N78 | B52N79 | B52N80 | B52N81 | B52N82 | B52N83 | |
| | Prostar™ 30 (12/24 VDC, three panel) | B52N84 | B52N85 | B52N86 | B52N87 | B52N88 | B52N89 | B52N90 | |
| | Prostar™ 30M (12/24 VDC, three panel) | B52N91 | B52N92 | B52N93 | B52N94 | B52N95 | B52N96 | B52N97 | |

* Dual battery box sold under Part #: B32808 and dual battery add-on kit sold under Part #: B32809. The battery add-on kit is used for setups requiring more than two batteries and will include cables used to link it to other boxes.

Ordering Information

| Part No. | Solar Panels |
|----------|--|
| B32016 | 50 W Solar Panel, ordinary location |
| B32014 | 100 W Solar Panel, ordinary location |
| B32021 | 160 W Solar Panel, ordinary location |
| B32752 | 265 W Solar Panel, 24V ordinary location |
| B32018 | 50 W Solar Panel, C1D2 |
| B32017 | 90 W Solar Panel, C1D2 |
| B32751 | 150 W Solar Panel, C1D2 |
| B32753 | 120 W Solar Panel, 24V, C1D2 |

| Part No. | Solar Panel Stands |
|----------|--|
| B32789 | 1-Panel Stand, 3 ft., for 50 W - 100 W panel |
| B32790 | 1-Panel Stand, 3 ft., for 120 W - 160 W panel |
| B32791 | 1-Panel Stand, 3 ft., for 265 W panel |
| B32792 | 1-Panel Stand, 6 ft., for 50 W - 100 W panel |
| B32793 | 1-Panel Stand, 6 ft., for 120 W - 160 W panel |
| B32794 | 1-Panel Stand, 3 ft., for 265 W panel |
| B32796 | 3-Panel Stand, 3 ft., for 120 W - 160 W panels |
| B32797 | 3-Panel Stand, 6 ft., for 120 W - 160 W panels |
| B32795 | AC Box Stand |
| B32739 | A-Frame Stand, for 100 W panel |

| Part No. | Charge Controllers |
|----------|--|
| B32748 | SunSaver™ SS20L-24V (24 V, C1D2, LVD) |
| B32745 | Prostar™ 30 (12/24 V, LVD, ordinary location) |
| B32746 | Prostar™ 30M (12/24 V, LVD, ordinary location, screen) |
| B32012 | ASC™ 12/12 (12 V, C1D2, no LVD) |
| B32749 | ASC™ 12/16 (12 V, C1D2, no LVD) |
| B32747 | ASC™ 24/16 (12 V, C1D2, no LVD) |
| B32744 | SunSaver™ SS20L-12V (12 V, C1D2, LVD) |

Technical Data

| One-Battery DC Control Boxes | | |
|--|--|-----------------------------|
| | US | Metric |
| Nominal Voltage | 12 V | |
| Maximum Solar Input Current | | |
| ASC™ Charge Controller 12/12 | 12 A | |
| Maximum Load Current | 16 A | |
| Battery Size | Designed for a maximum of one Group 31 battery | |
| Operating Temperature Range | | |
| Plastic Control Box | 32 – 131°F | 0 – 55°C |
| Metal Control Box | -40°– 131°F | -40°– 55°C |
| Overall Dimensions (L x W x H) | | |
| Plastic Control Box | 10.5" x 17.5" x 12.25" | 26.7 cm x 44.5 cm x 31.1cm |
| Metal Control Box | 10.0" x 14.0" x 11.0" | 25.4 cm x 35.6 cm x 27.9 cm |
| Weight | | |
| Control Box (without battery), Plastic | 5.5 lbs. | 2.5 kg |
| Control Box (without battery), Metal | 16.0 lbs. | 7.3 kg |

| AC Control Box (NEMA 4) | | |
|--------------------------------|----------------------------------|--------------------------------|
| | US | Metric |
| Nominal Voltage | | |
| CI-A1A-xxxx-xx | 115 VAC | |
| CI-A2A-xxxx-xx | 230 VAC | |
| Maximum Current | | |
| CI-A1A-xxxx-xx | 5 A | |
| CI-A2A-xxxx-xx | 3 A | |
| Operating Temperature Range | -40 – 131°F | -40 – 55°C |
| Overall Dimensions (L x W x H) | 17.5 in x 14.0 in. x 6.5 in. | 44.5 cm x 35.6 cm x 16.5 cm |
| Weight | -40°– 131°F | -40°– 55°C |
| Control Box | 20.0 lbs | 9.07 kg |
| Enclosure Approvals | UL-508A / CSA C22.2 No. 14 & 73. | |

| Multi-Battery DC Control Boxes | | |
|---|--|--------------------------------|
| | US | Metric |
| Maximum Solar Input Current From Charge Controller | | |
| ASC™ 12/12 | 12 A | |
| SunSaver™ SS20L-12V | 20 A | |
| Prostar™ 30 | 30 A | |
| Prostar™ 30M | 30 A | |
| ASC™ 24/16 | 16 A | |
| SunSaver™ SS20L-24V | 20 A | |
| ASC™ 12/16 | 16 A | |
| Maximum Load Current | Varies by pump controller | |
| Harrier EZ | 16 A | |
| Harrier | 16 A | |
| Harrier+ (all variations) | 25 A | |
| Bare Box | N/A | |
| Battery Size | | |
| Two-Battery Aluminum and NEMA boxes | Designed for a maximum of two 12 V, Group 31 batteries. | |
| Four-Battery Back Panel | Will fit a maximum of four 12 V, Group 31 batteries when using recommended Contica® box. | |
| Operating Temperature Range | -40 – 131°F | -40 – 55°C |
| Overall Dimensions (L x W x H) | | |
| Two-Battery Aluminum Box | 15.20" x 16.32" x 16.28" | 38.6 cm x 41.5 cm x 41.4 cm |
| Four-Battery Back Panel | 37.0" x 23.0" x 21.0" | 94.0 cm x 58.4 cm x 53.3 cm |
| NEMA 4X Rated Control Box | 16.0" x 14.0" x 7.0" | 40.65 cm x 35.56 cm x 17.78 cm |
| 2-Battery (NEMA 4X) Box | 18.0" x 16.0" x 10.0" | 45.72 cm x 40.64 cm x 25.4 cm |
| Weight | | |
| 2-Battery Aluminum Box (without battery) | 21.5 lbs | 9.75 kg |
| 4-Battery Back Panel | 8.0 lbs | 3.6 kg |
| NEMA Control Box | 16.9 lbs | 7.67 kg |

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Call today for product information or to request a demonstration:
866.552.1868, email oilandgas@graco.com or visit us at www.graco.com.

