



Modular Control Boxes

A full line of control boxes for chemical injection modular systems



MJ Systems, LLC
Authorized Graco Distributors
TX - Off (281) 842-7600
LA - Off (225) 726-7114
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



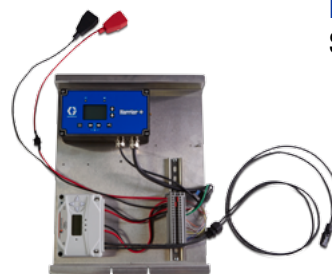
FOUR-BATTERY CONTROL BOXES



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	No Controller	Harrier EZ			Harrier+ SCADA	Harrier+ GSM USA	Harrier+ Global	Harrier+ CDMA
One-Battery Control Box Options	Metal	ASC™ 12/12	B52151	B52150	AC Control Box Options	115 VAC	B52A00	B52A01	B52A02	B52A03
	Plastic	ASC™ 12/12	B52101	B52100		230 VAC	B52A04	B52A05	B52A06	B52A07

		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.