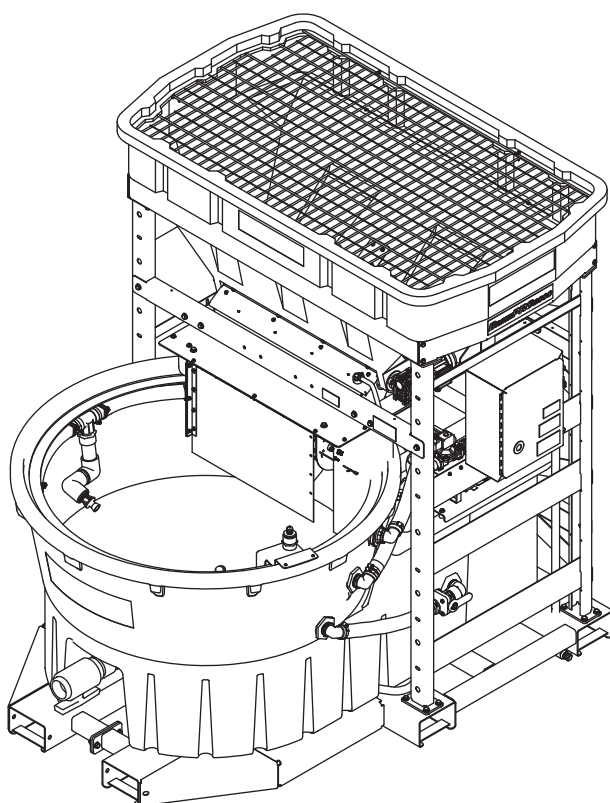




# **BP-2000**

## **Brine Pro™ Brine Maker**

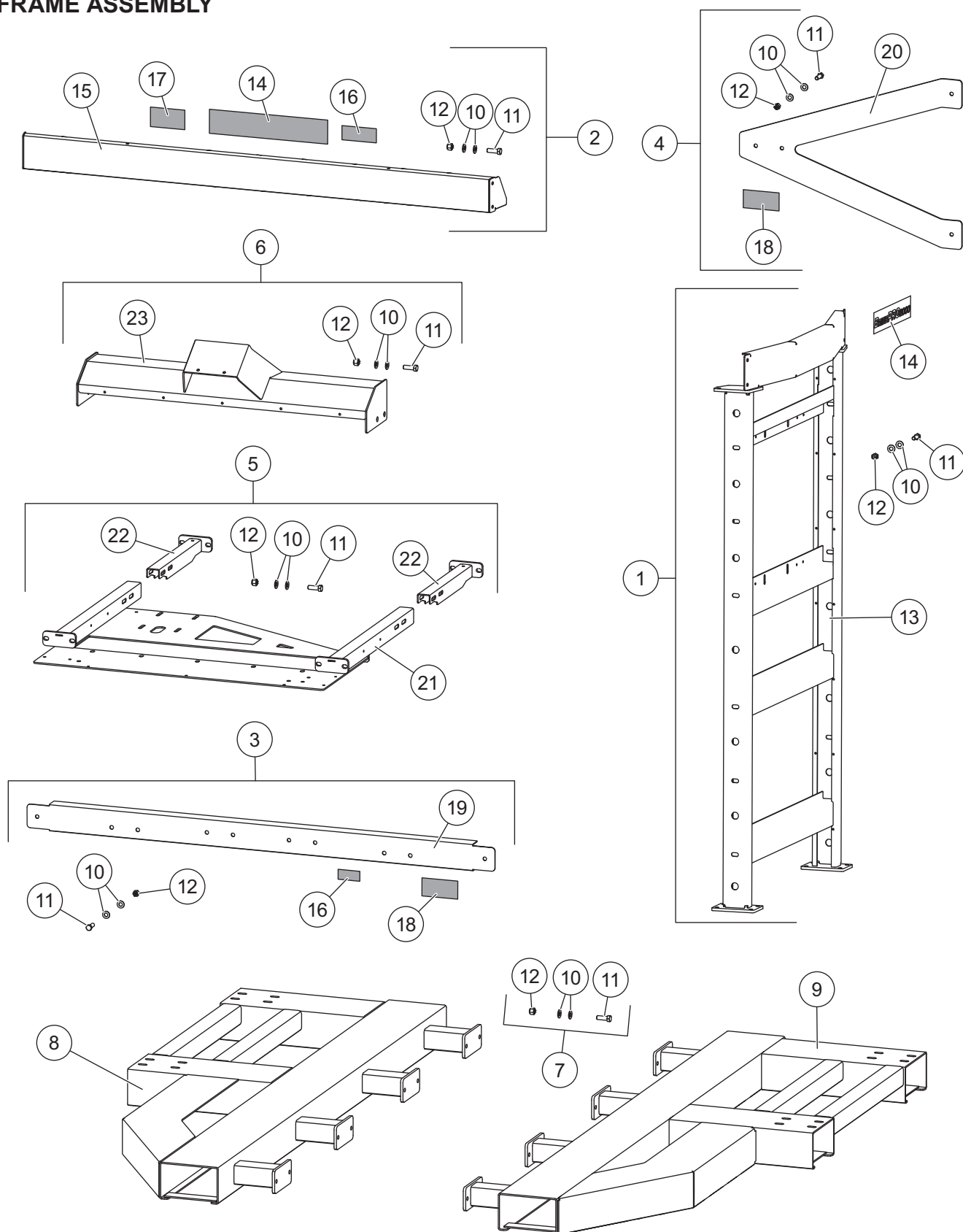
### **Parts List**



This Parts List is for BP-2000 brine makers with serial numbers beginning with 141020 and higher.

# BP-2000 BRINE MAKER

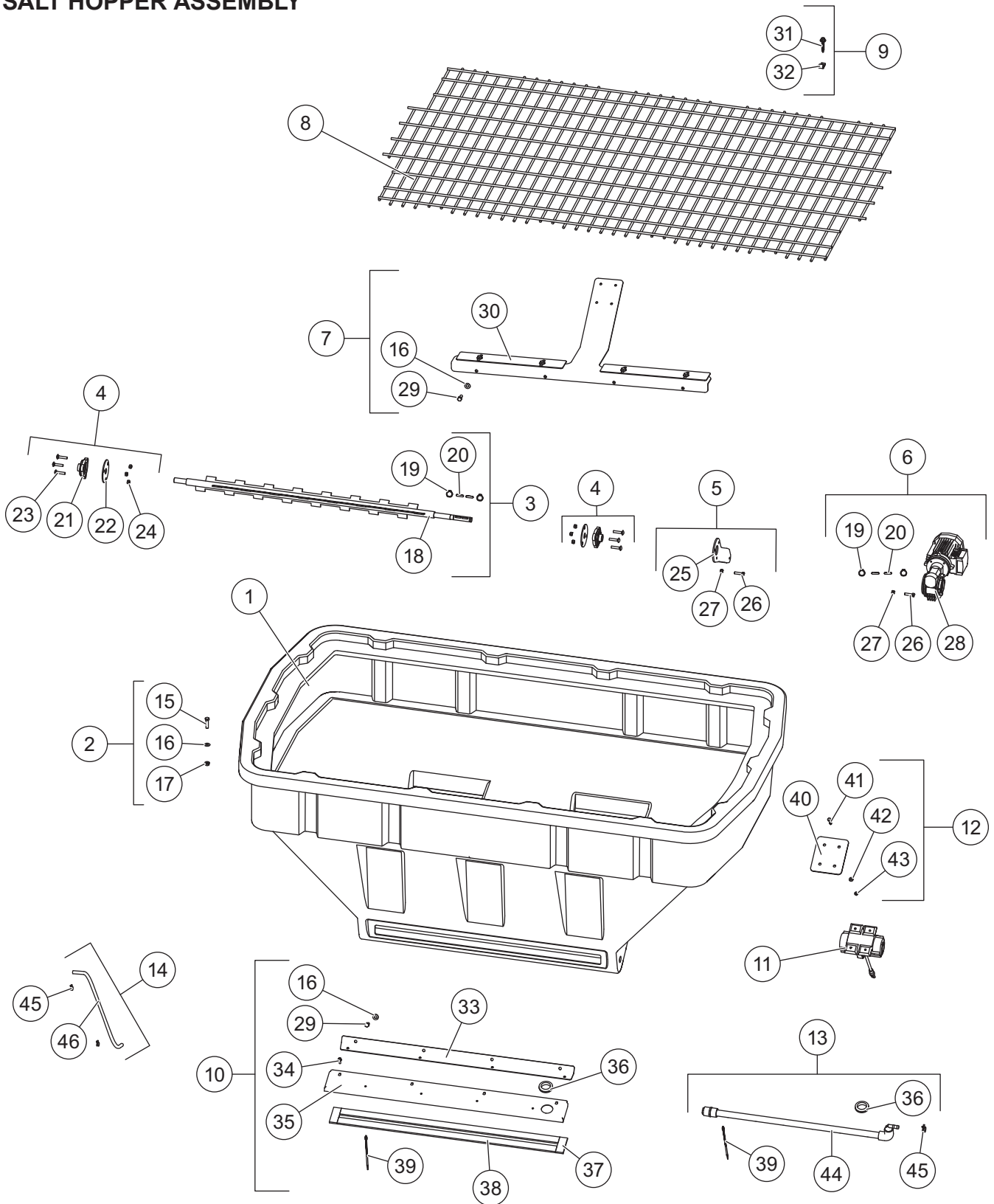
## FRAME ASSEMBLY



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# BP-2000 BRINE MAKER

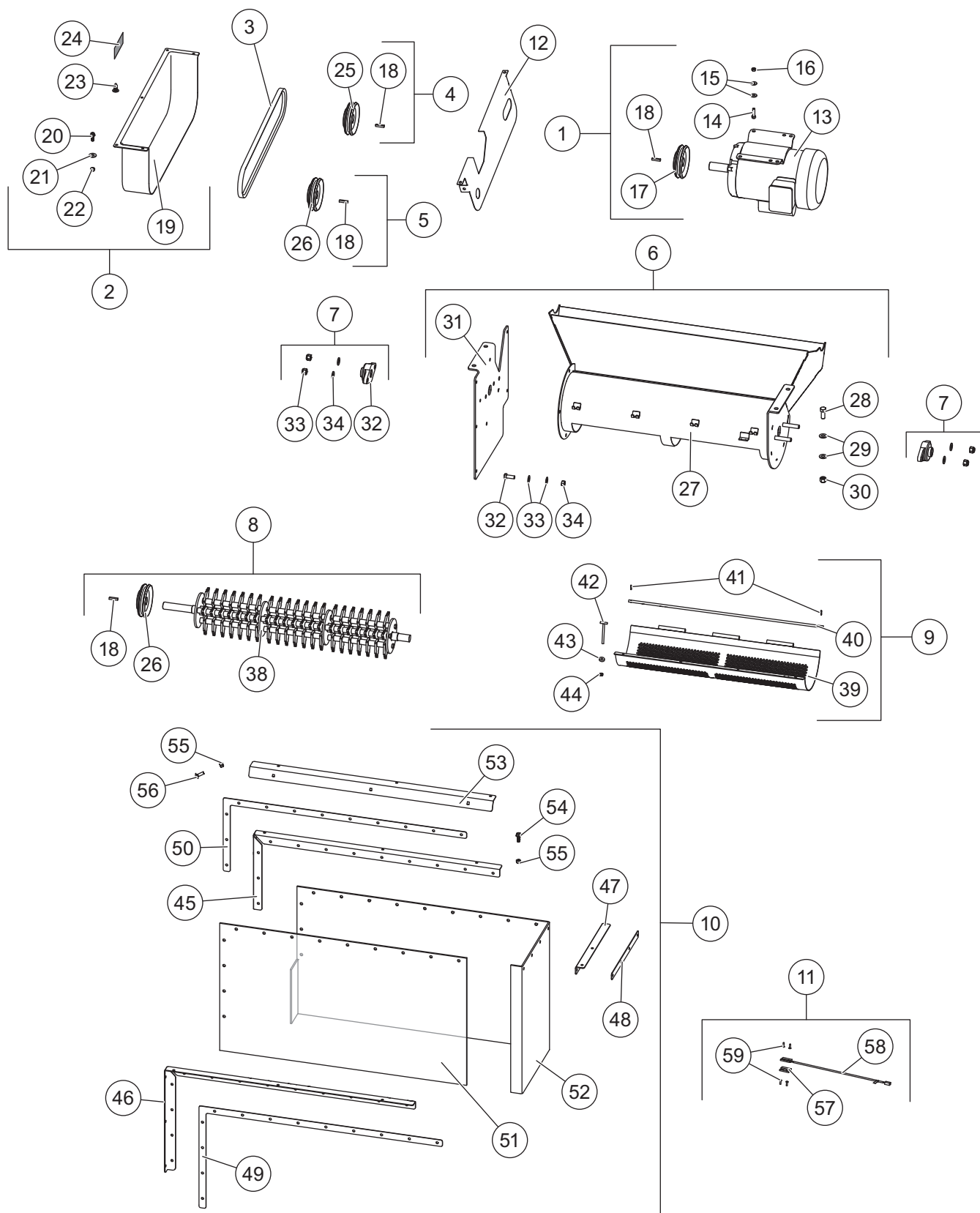
## SALT HOPPER ASSEMBLY



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# BP-2000 BRINE MAKER

## HAMMER MILL ASSEMBLY

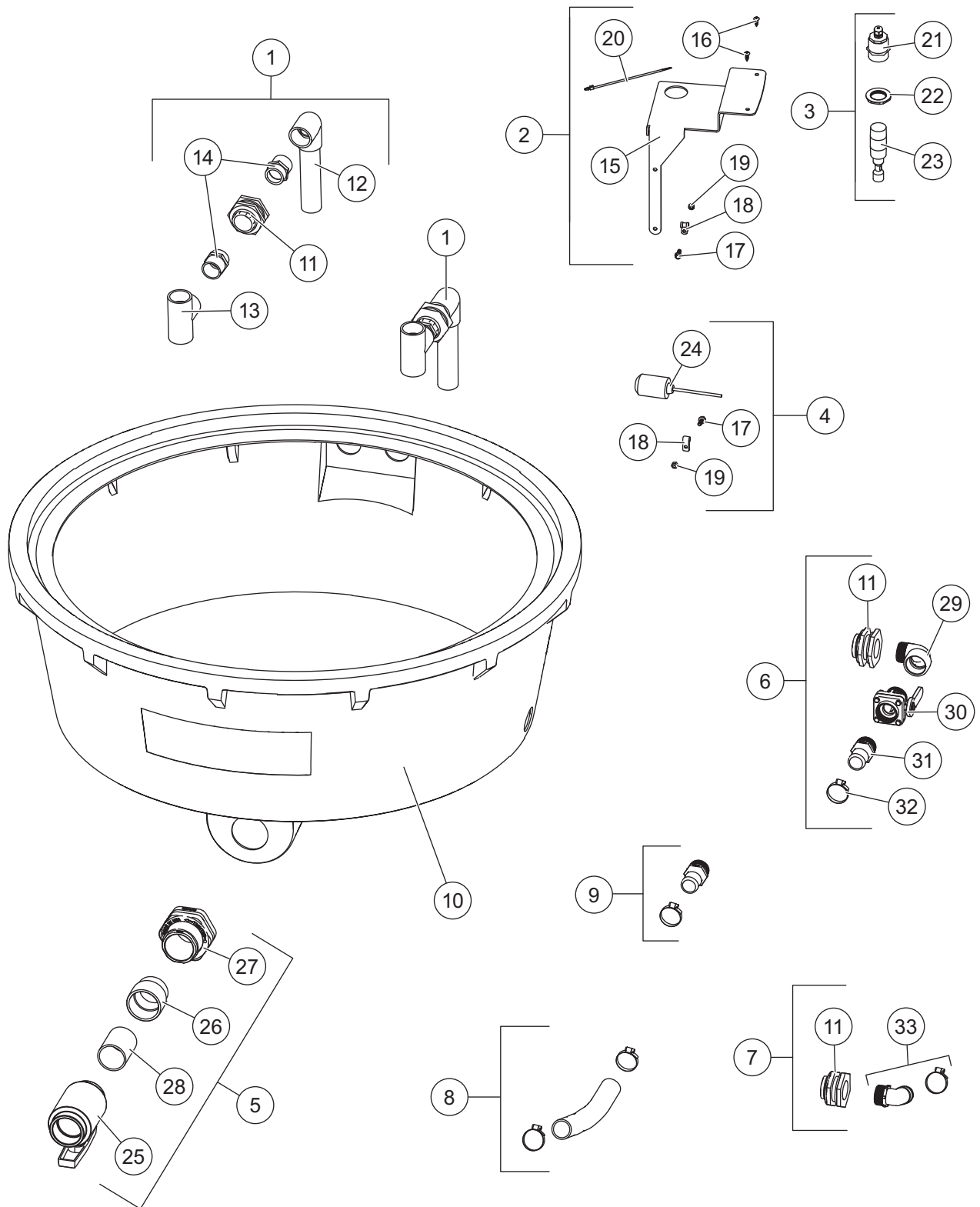


# BP-2000 BRINE MAKER

| Hammer Mill Assembly                               |        |     |                                 |           |       |     |                                  |
|----------------------------------------------------|--------|-----|---------------------------------|-----------|-------|-----|----------------------------------|
| Item                                               | Part   | Qty | Description                     | Item      | Part  | Qty | Description                      |
| 1                                                  | 76215  | 1   | Hammer Mill Motor Kit           | 7         | 76206 | 2   | Bearing, Hammer Mill             |
| 2                                                  | 76209  | 1   | Belt Guard Kit, Hammer Mill     | 8         | 76208 | 1   | Mill Assembly                    |
| 3                                                  | F51746 | 1   | V-Belt, B Section 55"           | 9         | 76207 | 1   | Hammer Mill Door Kit             |
| 4                                                  | 76251  | 1   | Pulley, 1-1/8 Bore x 4-3/4      | 10        | 76214 | 1   | Dust Shield Kit, Complete        |
| 5                                                  | 76252  | 1   | Pulley, 1" Bore x 4-3/4         | 11        | 99975 | 1   | Hammer Mill Safety Switch Kit    |
| 6                                                  | 76205  | 1   | Hammer Mill Casing Kit          | 12        | 76485 | 1   | Aux Belt Guard                   |
| <b>Item 1 76215 Hammer Mill Motor Kit</b>          |        |     |                                 |           |       |     |                                  |
| 13                                                 |        | 1   | Motor, 2 hp                     | 16        |       | 4   | 3/8-16 Hex Locknut SS            |
| 14                                                 |        | 4   | 3/8-16 x 1 Hex Cap Screw SS     | 17        |       | 1   | Pulley, 1-1/8 Bore x 4-3/4 OD    |
| 15                                                 |        | 8   | 3/8 Flat Washer SS              | 18        |       | 1   | Machine Key, 1/4 x 1-1/4 SS      |
| <b>Item 2 76209 Belt Guard Kit, Hammer Mill</b>    |        |     |                                 |           |       |     |                                  |
| 19                                                 |        | 1   | Belt Guard                      | 22        |       | 4   | 5/16-18 Hex Locknut SS           |
| 20                                                 |        | 4   | 5/16-18 x 1 Hex Cap Screw SS    | 23        |       | 1   | 11 x 28 x 22 mm Push Retainer    |
| 21                                                 |        | 8   | 5/16 Flat Washer SS             | 24        |       | 1   | Label –Warning Moving Parts      |
| <b>Item 4 76251 Pulley, 1-1/8 Bore x 4-3/4</b>     |        |     |                                 |           |       |     |                                  |
| 18                                                 |        | 1   | Machine Key 1/4 x 1-1/4 SS      | 25        |       | 1   | Pulley, 1-1/8 Bore x 4-3/4 OD    |
| <b>Item 5 76252 Pulley, 1" Bore x 4-3/4</b>        |        |     |                                 |           |       |     |                                  |
| 18                                                 |        | 1   | Machine Key 1/4 x 1-1/4 SS      | 26        |       | 1   | Pulley, 1" Bore x 4-3/4 OD       |
| <b>Item 6 76205 Hammer Mill Casing Kit</b>         |        |     |                                 |           |       |     |                                  |
| 27                                                 |        | 1   | Hammer Mill Case                | 31        |       | 1   | Mounting Cap                     |
| 28                                                 |        | 7   | 1/2-13 x 1-1/2 Hex Cap Screw SS | 32        |       | 4   | 3/8-16 x 1 Hex Cap Screw SS      |
| 29                                                 |        | 14  | 1/2 Flat Washer SS              | 33        |       | 8   | 3/8 Flat Washer SS               |
| 30                                                 |        | 7   | 1/2-13 Hex Locknut SS           | 34        |       | 4   | 3/8-16 Hex Locknut SS            |
| <b>Item 7 76206 Bearing, Hammer Mill</b>           |        |     |                                 |           |       |     |                                  |
| 35                                                 |        | 1   | Bearing 1" ID 2-Bolt Flange     | 37        |       | 2   | 1/2-13 Hex Locknut SS            |
| 36                                                 |        | 2   | 1/2 Flat Washer Narrow SS       |           |       |     |                                  |
| <b>Item 8 76208 Mill Assembly</b>                  |        |     |                                 |           |       |     |                                  |
| 18                                                 |        | 1   | Machine Key 1/4 x 1-1/4 SS      | 38        |       | 1   | Mill Internals                   |
| 26                                                 |        | 1   | Pulley, 1" Bore x 4-3/4 OD      |           |       |     |                                  |
| <b>Item 9 76207 Hammer Mill Door Kit</b>           |        |     |                                 |           |       |     |                                  |
| 39                                                 |        | 1   | Hammer Mill Screen Door         | 42        |       | 4   | Screen Latch                     |
| 40                                                 |        | 1   | Screen Hinge Pin                | 43        |       | 4   | 1/4 Flat Washer SS               |
| 41                                                 |        | 2   | 3/32 x 1/2 Cotter Pin           | 44        |       | 4   | 1/4-20 Hex Locknut GB            |
| <b>Item 10 76214 Dust Shield Kit, Complete</b>     |        |     |                                 |           |       |     |                                  |
| 45                                                 |        | 1   | Curtain Mount Bracket, Rear     | 51        |       | 1   | Rubber Curtain, Front            |
| 46                                                 |        | 1   | Curtain Mount Bracket, Front    | 52        |       | 1   | Rubber Curtain, Rear             |
| 47                                                 |        | 1   | Curtain Mount Bracket, Right    | 53        |       | 1   | Curtain Support Angle            |
| 48                                                 |        | 1   | Curtain Washer, Right           | 54        |       | 48  | 1/4-20 x 3/4 Hex Flange Screw SS |
| 49                                                 |        | 1   | Curtain Washer, Front           | 55        |       | 48  | 1/4-20 Hex Locknut SS            |
| 50                                                 |        | 1   | Curtain Washer, Rear            | 56        |       | 3   | 1/4-20 x 3/4 Carriage Bolt SS    |
| <b>Item 11 99975 Hammer Mill Safety Switch Kit</b> |        |     |                                 |           |       |     |                                  |
| 57                                                 |        | 1   | Magnetic Actuator               | 59        |       | 4   | 1/8 Pop Rivet SS                 |
| 58                                                 |        | 1   | Chute Switch Assembly           |           |       |     |                                  |
| SS = Stainless Steel                               |        |     |                                 | G = Grade |       |     |                                  |

# BP-2000 BRINE MAKER

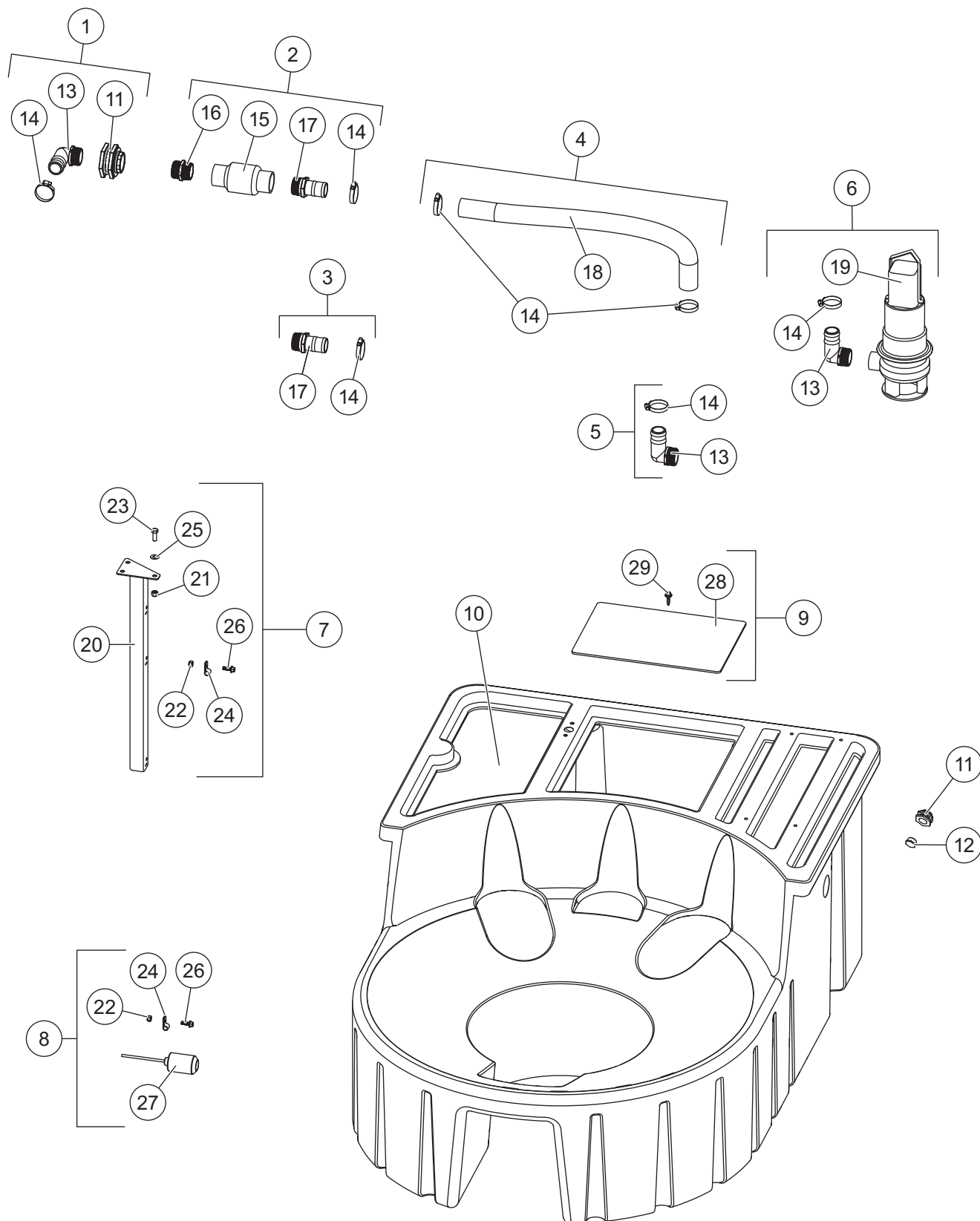
## MIX TANK ASSEMBLY



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# BP-2000 BRINE MAKER

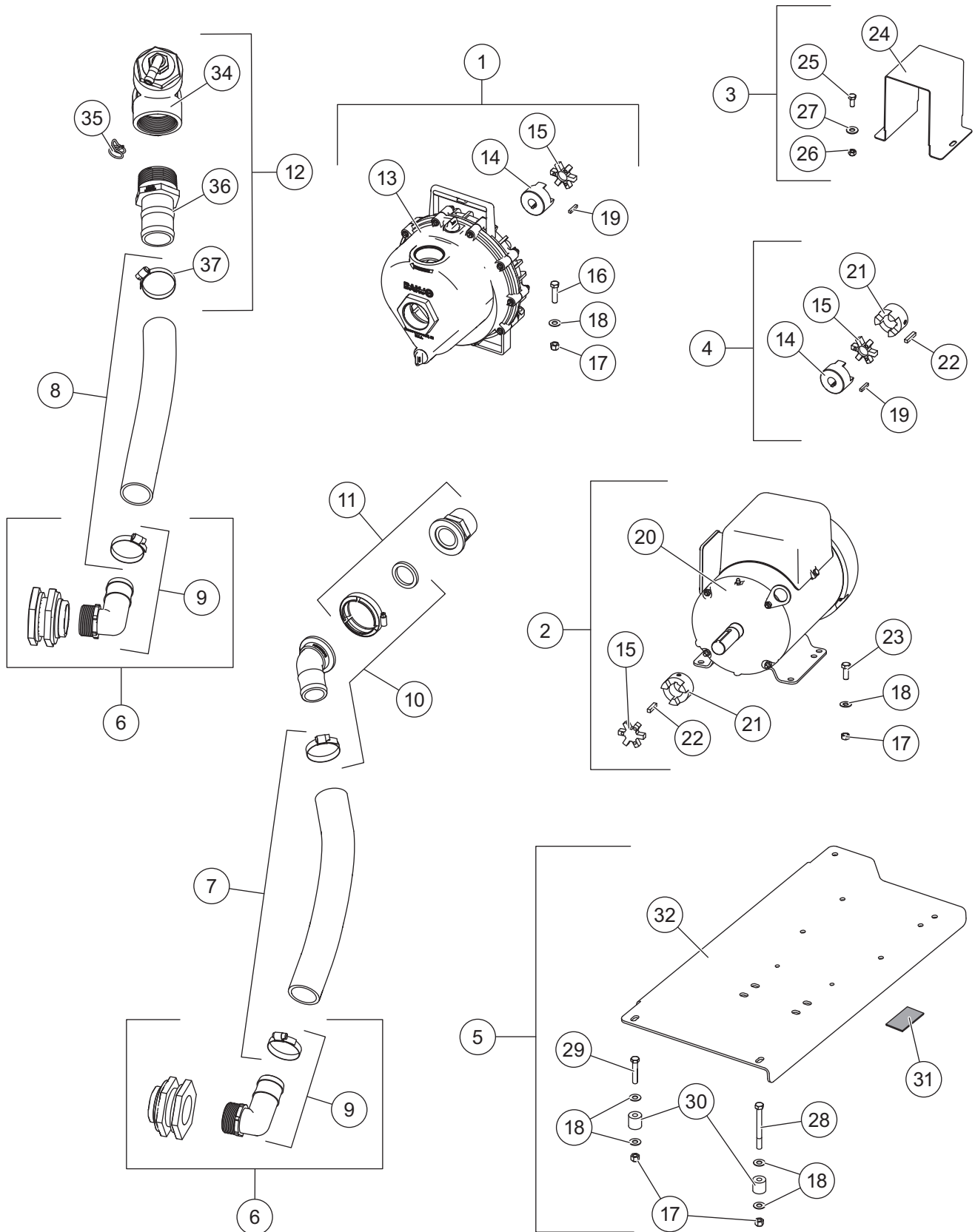
## BRINE TANK ASSEMBLY



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# BP-2000 BRINE MAKER

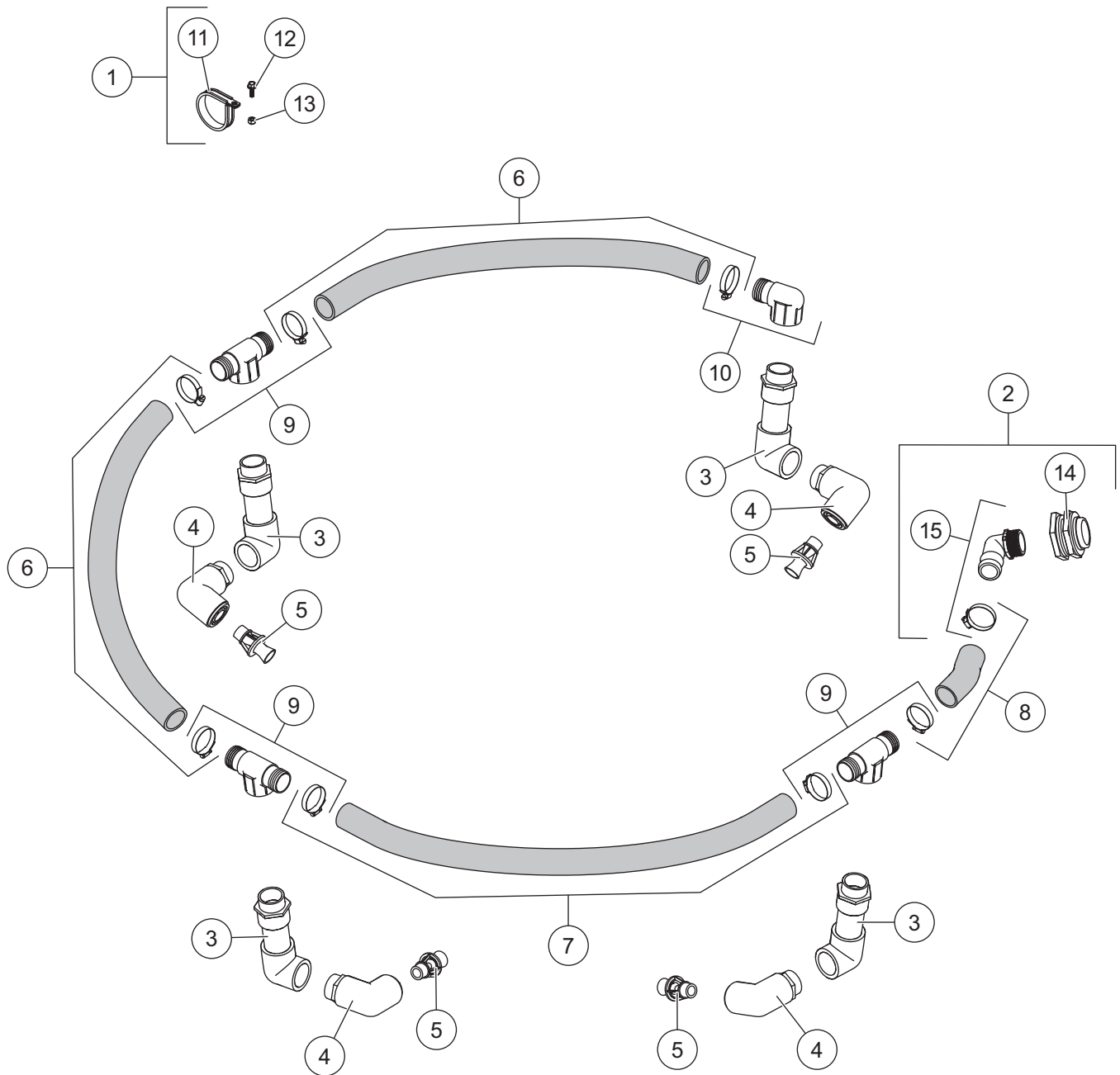
## CIRCULATION PUMP ASSEMBLY



| <b>Circulation Pump Assembly</b>                                                   |             |            |                                    |             |             |            |                                    |
|------------------------------------------------------------------------------------|-------------|------------|------------------------------------|-------------|-------------|------------|------------------------------------|
| <b>Item</b>                                                                        | <b>Part</b> | <b>Qty</b> | <b>Description</b>                 | <b>Item</b> | <b>Part</b> | <b>Qty</b> | <b>Description</b>                 |
| 1                                                                                  | 76229       | 1          | Circulation Pump Kit               | 7           | 76224-1     | 1          | Suction Hose Kit, 2 x 18           |
| 2                                                                                  | 76231       | 1          | Circulation Pump Motor             | 8           | 76233       | 1          | Suction Hose Kit, 2 x 16           |
| 3                                                                                  | 76227-1     | 1          | Pump Shaft Guard Kit               | 9           | 76221       | 2          | Barb Kit 2 NPT x 2, 90°            |
| 4                                                                                  | 76228       | 1          | Pump Drive Coupler                 | 10          | 76234-1     | 1          | Circulation Pump Inlet Flange Kit  |
| 5                                                                                  | 76230       | 1          | Circulation Pump Base Kit          | 11          | 76142       | 1          | Threaded Connector Kit, 2" FL-MNPT |
| 6                                                                                  | 76130       | 2          | Barb & Bulkhead Kit 2", 90°        | 12          | 76479       | 1          | Circulation Pump Exit Kit          |
| <b>Item 1                                76229 Circulation Pump Kit</b>            |             |            |                                    |             |             |            |                                    |
| 13                                                                                 |             | 1          | Pump, Brine Maker                  | 17          |             | 4          | 3/8-16 Hex Locknut                 |
| 14                                                                                 |             | 1          | Jaw Coupling Hub L-095, 3/4        | 18          |             | 4          | 3/8 Flat Washer SS                 |
| 15                                                                                 |             | 1          | Jaw Coupling Spider L-095 Urethane | 19          |             | 1          | 3/16 x 1 Keystock                  |
| 16                                                                                 |             | 4          | 3/8-16 x 1-1/2 Hex Cap Screw SS    |             |             |            |                                    |
| <b>Item 2                                76231 Circulation Pump Motor</b>          |             |            |                                    |             |             |            |                                    |
| 15                                                                                 |             | 1          | Jaw Coupling Spider L-095 Urethane | 21          |             | 1          | Jaw Coupling Hub, L-095, 1-1/8     |
| 17                                                                                 |             | 4          | 3/8-16 Hex Locknut SS              | 22          |             | 1          | 1/4 x 1-1/4 Machine Key            |
| 18                                                                                 |             | 4          | 3/8 Flat Washer SS                 | 23          |             | 4          | 3/8-16 x 1 Hex Cap Screw SS        |
| 20                                                                                 |             | 1          | Motor 5 hp                         |             |             |            |                                    |
| <b>Item 3                                76227-1 Pump Shaft Guard Kit</b>          |             |            |                                    |             |             |            |                                    |
| 24                                                                                 |             | 1          | Pump Shaft Guard                   | 26          |             | 2          | 5/16-18 Hex Locknut SS             |
| 25                                                                                 |             | 2          | 5/16-18 x 3/4 Hex Cap Screw SS     | 27          |             | 2          | 5/16 Flat Washer SS                |
| <b>Item 4                                76228 Pump Drive Coupler</b>              |             |            |                                    |             |             |            |                                    |
| 14                                                                                 |             | 1          | Jaw Coupling Hub L-095, 3/4        | 19          |             | 1          | 3/16 x 1 Machine Key               |
| 15                                                                                 |             | 1          | Jaw Coupling Spider L-095 Urethane | 21          |             | 1          | Jaw Coupling, L-095 1-1/8          |
|                                                                                    |             |            |                                    | 22          |             | 1          | 1/4 x 1-1/4 Machine Key            |
| <b>Item 5                                76230 Circulation Pump Base Kit</b>       |             |            |                                    |             |             |            |                                    |
| 17                                                                                 |             | 4          | 3/8-16 Hex Locknut SS              | 30          |             | 4          | Motor Mount Anti-Vibration         |
| 18                                                                                 |             | 8          | 3/8 Flat Washer SS                 | 31          | 10815       | 1          | Label – Warning, Rotating Shaft    |
| 28                                                                                 |             | 3          | 3/8-16 x 3-3/4 Hex Cap Screw SS    | 32          |             | 1          | Motor Mount                        |
| 29                                                                                 |             | 1          | 3/8-16 x 2 Hex Cap Screw SS        |             |             |            |                                    |
| <b>Item 6                                76130 Barb &amp; Bulkhead Kit, 2" 90°</b> |             |            |                                    |             |             |            |                                    |
| 9                                                                                  | 76221       | 1          | Barb Kit, 2 NPT x 2, 90°           | 33          |             | 1          | Bulkhead Coupling, 2" Poly         |
| <b>Item 12                              76479 Circulation Pump Exit Kit</b>        |             |            |                                    |             |             |            |                                    |
| 34                                                                                 |             | 1          | Circulation Pump Exit Plumbing     | 36          |             | 1          | Hose Barb, 2 NPT x 2               |
| 35                                                                                 |             | 1          | Double Spring Clamp, 1/2"          | 37          |             | 1          | Band Clamp, 1-3/4 – 2-3/4          |
| SS = Stainless Steel                                                               |             |            |                                    |             |             |            |                                    |

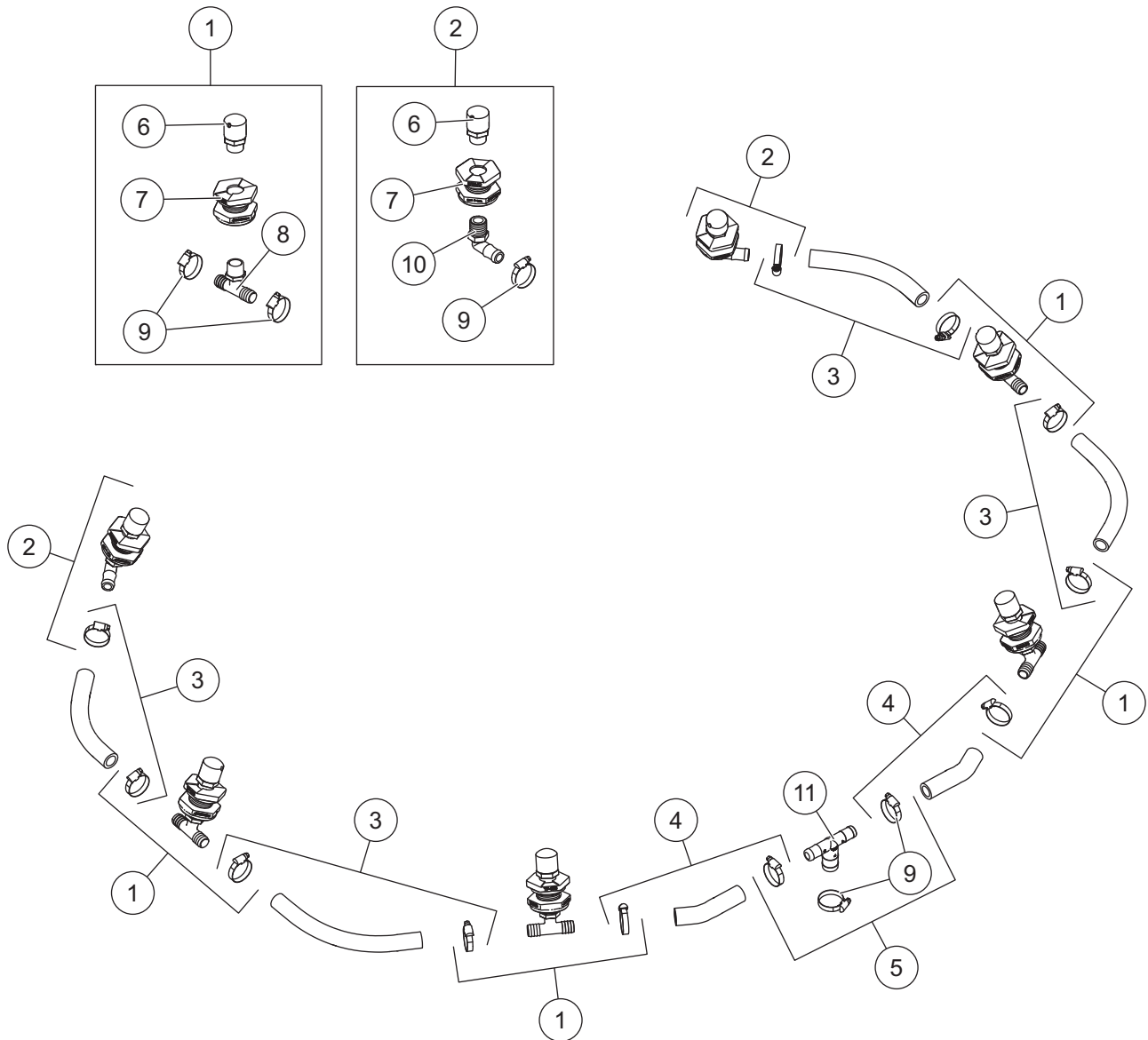
# BP-2000 BRINE MAKER

## CIRCULATION PLUMBING



| Circulation Plumbing                                                               |        |     |                                 |      |       |     |                               |
|------------------------------------------------------------------------------------|--------|-----|---------------------------------|------|-------|-----|-------------------------------|
| Item                                                                               | Part   | Qty | Description                     | Item | Part  | Qty | Description                   |
| 1                                                                                  | 76262  | 2   | Band Clamp Kit, 2-3/8 (5-pack)  | 6    | 76216 | 2   | Hose Kit, 2 x 44 – Black      |
| 2                                                                                  | 76130  | 1   | Barb & Bulkhead Kit, 2" 90°     | 7    | 76246 | 1   | Hose Kit, 2 x 50 – Black      |
| 3                                                                                  | 76243  | 4   | Circulation Pipe, Short         | 8    | 76263 | 1   | Hose Kit, 2 x 6 – Black       |
| 4                                                                                  | 76244  | 4   | Circulation Elbow               | 9    | 76247 | 3   | Tee Kit, 2" Barb / 2" Socket  |
| 5                                                                                  | F51997 | 4   | 1" Eductor Nozzle               | 10   | 76248 | 1   | Elbow Kit, 2" Barb, 2" Socket |
| <b>Item 1                                76262 Band Clamp Kit 2-3/8 (5-pack)</b>   |        |     |                                 |      |       |     |                               |
| 11                                                                                 |        | 5   | Clamp, 2-3/8 SS w/Cushion       | 13   |       | 5   | 1/4-20 Hex Locknut SS         |
| 12                                                                                 |        | 5   | 1/4-20 x 3/4 Hex Flange Bolt SS |      |       |     |                               |
| <b>Item 2                                76130 Barb &amp; Bulkhead Kit, 2" 90°</b> |        |     |                                 |      |       |     |                               |
| 14                                                                                 |        | 1   | Bulkhead Coupling, 2" Poly      | 15   | 76221 | 1   | Barb Kit, 2 NPT x 2, 90°      |
| SS = Stainless Steel                                                               |        |     |                                 |      |       |     |                               |

## FRESH WATER NOZZLE PLUMBING



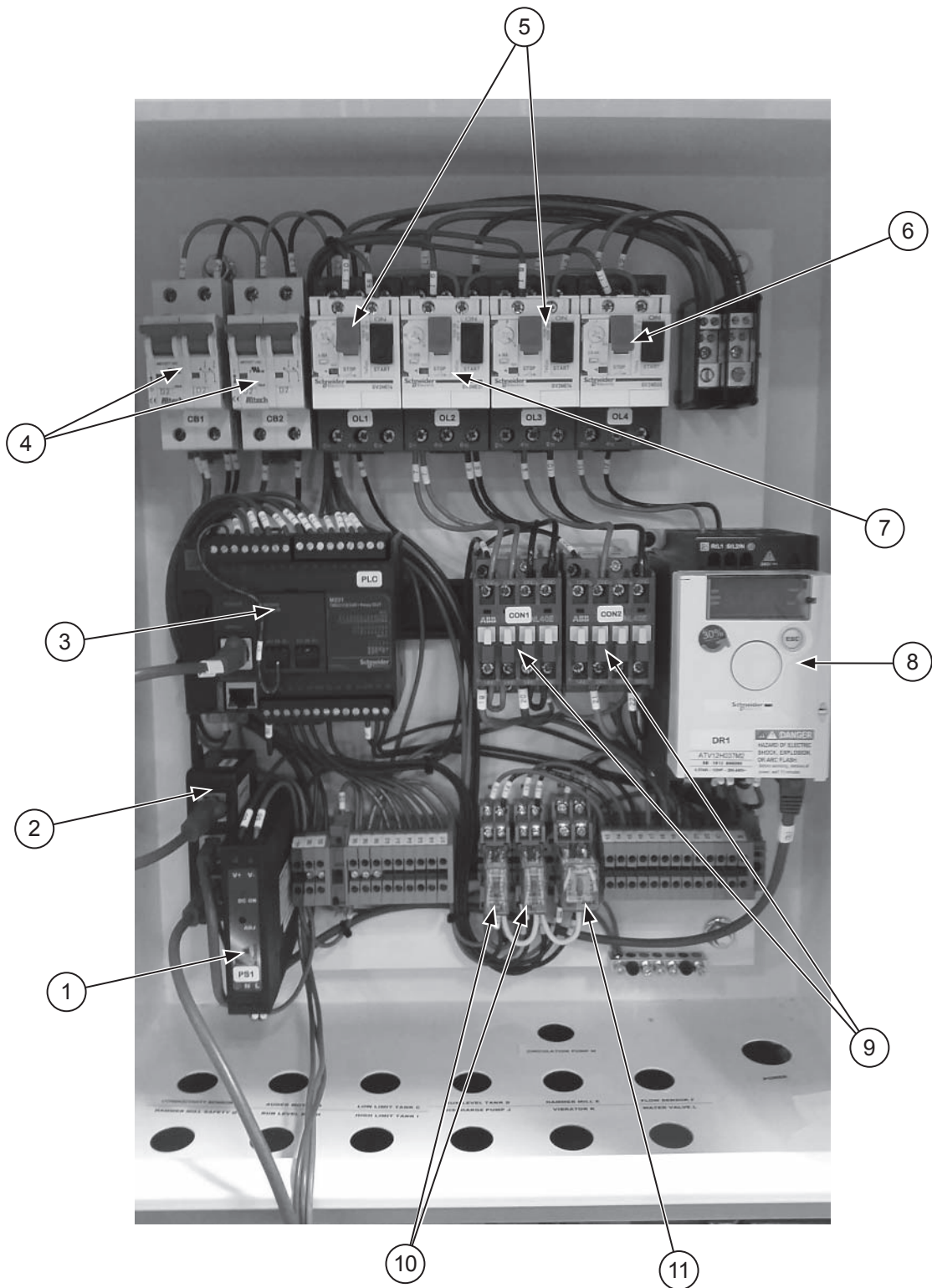
| Fresh Water Nozzle Plumbing                                                  |       |     |                                |      |       |     |                               |
|------------------------------------------------------------------------------|-------|-----|--------------------------------|------|-------|-----|-------------------------------|
| Item                                                                         | Part  | Qty | Description                    | Item | Part  | Qty | Description                   |
| 1                                                                            | 76249 | 4   | Fresh Water Nozzle, Tee        | 4    | 76240 | 2   | Hose Kit, 3/4 x 5-3/4 – Black |
| 2                                                                            | 76250 | 2   | Fresh Water Nozzle, Elbow      | 5    | 76241 | 1   | Tee Kit, 3/4 – 1 – 3/4        |
| 3                                                                            | 76239 | 4   | Hose Kit, 3/4 x 11-1/2 – Black |      |       |     |                               |
| <b>Item 1                                76249 Fresh Water Nozzle, Tee</b>   |       |     |                                |      |       |     |                               |
| 6                                                                            | 10793 | 1   | Water Inlet Nozzle             | 8    |       | 1   | Barb Tee, 3/4 NPT x 3/4 Barb  |
| 7                                                                            |       | 1   | Bulkhead Coupling, 3/4 Poly    | 9    |       | 2   | Band Clamp, 11/16 – 1-1/2     |
| <b>Item 2                                76250 Fresh Water Nozzle, Elbow</b> |       |     |                                |      |       |     |                               |
| 6                                                                            | 10793 | 1   | Water Inlet Nozzle             | 9    |       | 2   | Band Clamp, 11/16 – 1-1/2     |
| 7                                                                            |       | 1   | Bulkhead Coupling, 3/4 Poly    | 10   |       | 1   | Hose Barb, 3/4 x 3/4 NPT 90°  |
| <b>Item 5                                76241 Tee Kit, 3/4 – 1 – 3/4</b>    |       |     |                                |      |       |     |                               |
| 9                                                                            |       | 3   | Band Clamp, 11/16 – 1-1/2      | 11   |       | 1   | Hose Barb Tee, 3/4 x 3/4      |



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# BP-2000 BRINE MAKER

## BRINE PRO™ ELECTRICAL PANEL

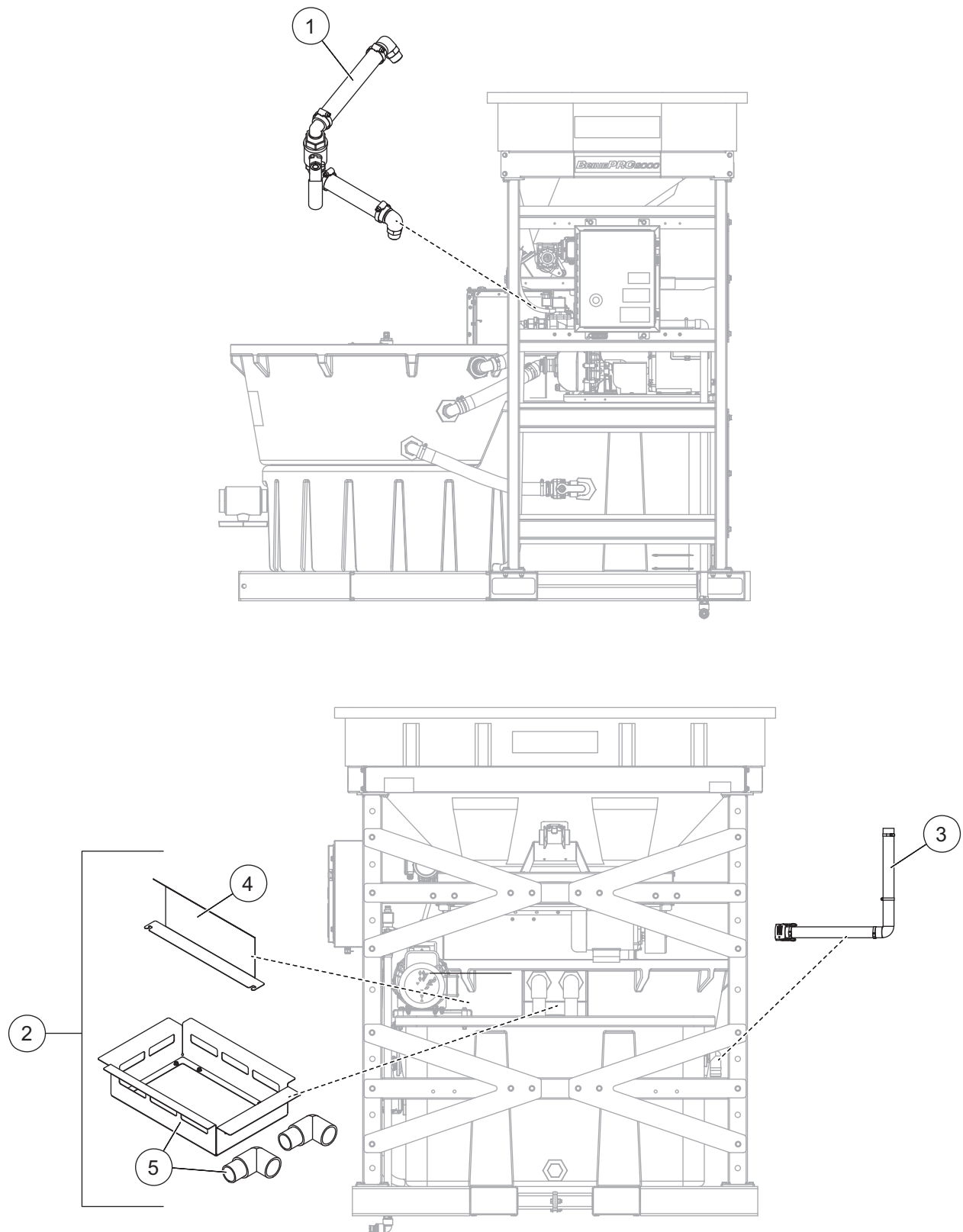


## BP-2000 BRINE MAKER

| Brine Pro™ Electrical Panel |       |     |                                         |      |       |     |                                |
|-----------------------------|-------|-----|-----------------------------------------|------|-------|-----|--------------------------------|
| Item                        | Part  | Qty | Description                             | Item | Part  | Qty | Description                    |
| 1                           | 10838 | 1   | Power Supply BP-2000 [PS1]              | 8    | 10847 | 1   | Variable Frequency Drive [DR1] |
| 2                           | 10853 | 1   | Serial Hub                              | 9    | 10852 | 2   | Contactor BP-2000 [CON1, CON2] |
| 3                           | 10844 | 1   | PLC Assembly BP-2000 [PLC]              | 10   | 76556 | 2   | Relay, 24 VDC, 3 A             |
| 4                           | 10839 | 2   | Circuit Breaker BP-2000 [CB1, CB2]      | 11   | 76557 | 1   | Relay, 24 VDC, 10 A            |
| 5                           | 10841 | 2   | Circuit Protector GV2ME14<br>[OL1, OL3] | ns   | 10846 | 1   | Touch Screen ASM BP-2000       |
| 6                           | 10843 | 1   | Circuit Protector GV2ME08 [OL4]         | ns   | 10854 | 1   | E-Stop Push Button Assembly    |
| 7                           | 10842 | 1   | Circuit Protector GV2ME21 [OL2]         | ns   | 11834 | 1   | Brine Pro™ Media Kit           |
|                             |       |     |                                         | ns   | 11220 | 1   | Refractometer Kit              |
| ns = not shown              |       |     |                                         |      |       |     |                                |

# BP-2000 BRINE MAKER

## BRINE PRO™ ACCESSORIES



## BP-2000 BRINE MAKER

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| Brine Pro™ Accessories |       |     |                          |                                     |       |     |                         |
|------------------------|-------|-----|--------------------------|-------------------------------------|-------|-----|-------------------------|
| Item                   | Part  | Qty | Description              | Item                                | Part  | Qty | Description             |
| 1                      | 11268 | 1   | 1" Spraybar Plumbing Kit | 3                                   | 11269 | 1   | Discharge Hose Assembly |
| 2                      | 11839 | 1   | Strainer and Guard Kit   |                                     |       |     |                         |
| <b>Item 2</b>          |       |     |                          | <b>11839 Strainer and Guard Kit</b> |       |     |                         |
| 4                      | 11706 | 1   | Splash Guard Kit         | 5                                   | 11263 | 1   | Rear Tank Strainer Kit  |
| ns = not shown         |       |     |                          |                                     |       |     |                         |



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