



## VIPER (E) LOW OVERRUN

### Illustrated Parts



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Revision: E

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The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

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This document contains the original instructions for the unit described.

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## CLADDING ASSEMBLY

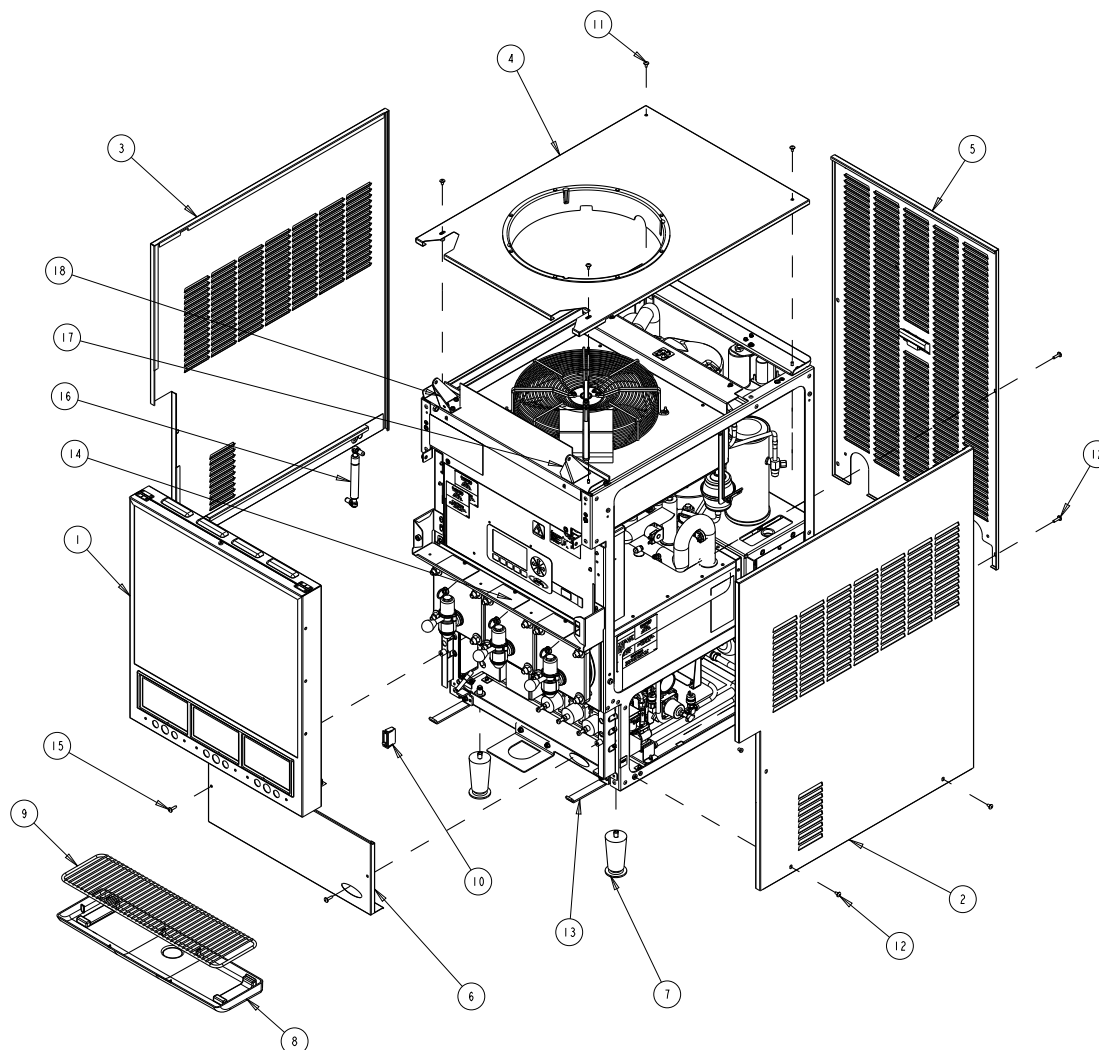


Figure 1. Cladding Assembly

Table 1. Cladding Assembly

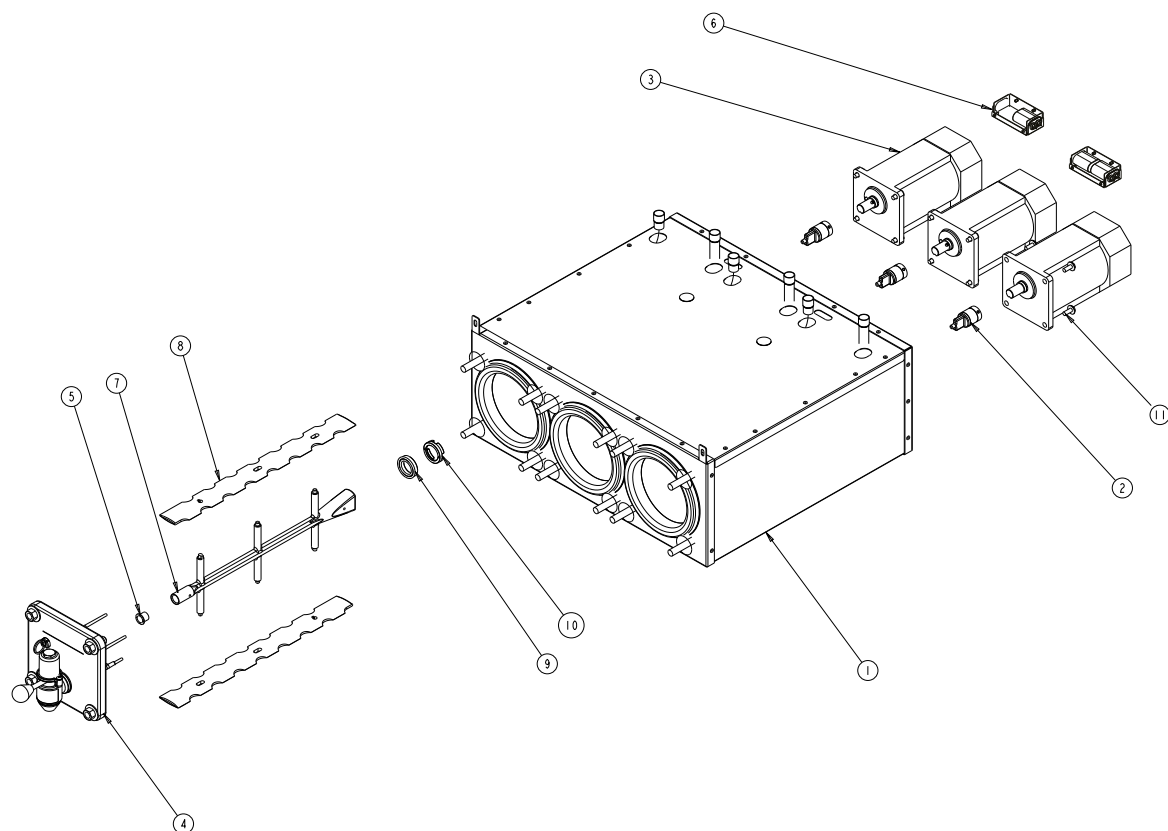
| Item | Part No.  | Description                         |
|------|-----------|-------------------------------------|
| 1    | 620521771 | Merchandiser Assy Tall (Figure 8.)  |
|      | 620048346 | Merchandiser Assy short (Figure 9.) |
| 2    | 620054961 | Side panel Right                    |
| 3    | 620051960 | Side panel left                     |
| 4    | 620048343 | Top Panel 3FL -SS(Tall)             |
|      | 620049768 | Top Panel 3FL -SS(Short)            |
| 5    | 620053955 | Rear Panel 3FL - SS                 |
| 6    | 629097010 | Kit-Splash Panel 3FL                |
|      | 629096963 | Kit Panel Splash 3fl Extended       |
| 7    | 70970     | Leg, 4 inch                         |
| 8    | 620043016 | Drip Tray -3FL                      |
| 9    | 620043018 | Cup Rest -3FL                       |
| 10   | 560001783 | Latch Door 2 Piece PLSTC            |

Table 1. Cladding Assembly

| Item | Part No.  | Description                            |
|------|-----------|----------------------------------------|
| 11   | 620045298 | Screw 10-32 X 3/4" Type F TRPH STZ1    |
| 12   | 620045297 | Screw 10-32 X 3/4" Type F TRPH STZ1    |
| 13   | 620054014 | Brkt Mtg Tray Drip Vpr                 |
| 14   | 620042842 | Diffuser Downlight Merchndsr Viper     |
| 15   | 318308000 | Screw TR 10-32 Paph 32 SS HRD          |
| 16   | 620054953 | Strut Gas 3fl Viper                    |
| 17   | 620053881 | Brkt Hinge Mtg Right                   |
| 18   | 620053880 | Brkt Hinge Mtg Left                    |
| *    | 629097020 | Rear Merchandiser (Optional-Not Shown) |
| *    | 620043063 | Cord service 230v 30a                  |
| *    | 629096928 | Kit-Install 3B                         |

\* Indicates Not Shown

## FOAM PACK/DRIVE ASSEMBLY



**Figure 2. Foam Pack/Drive Assembly**

**Table 2. Foam Pack/Drive Assembly**

| Item | Part No.  | Description                                                 |
|------|-----------|-------------------------------------------------------------|
| 1    | 629096940 | Kit-Serv Foam Pack Viper 3 Barrel                           |
| 2    | 629096854 | Kit-Adapter Drive Shaft w/Set Screw & Dowel                 |
| 3    | 620314938 | Motor- Gear Viper 220v 50/60Hz 4 Capac 180 Rpm              |
| 4    | 620048365 | Door Frz Cyl Assy. Kit Motorman (See Fig. 3)                |
|      | 620067610 | Door Frz Cyl Asy Kit Motorman ext lever VPR.(See Figure 3.) |
| 5    | 2392      | Bushing Split Flange .5011D NYL                             |

**Table 2. Foam Pack/Drive Assembly**

| Item | Part No.  | Description                              |
|------|-----------|------------------------------------------|
| 6    | 629097286 | Kit Motor Run Capac. Vpr 3fl 60hz        |
|      | 620057820 | Capacitor Motor Run Viper 60Hz           |
| 7    | 620715735 | Body Beater Viper                        |
| 8    | 620049806 | Blade Scraper Freeze Cyl Viper           |
| 9    | 620045383 | Seal Viper Barrel (Pack of 10)           |
|      | 620043064 | Seal Rotary Rubber Viper (Single)        |
| 10   | 620043162 | Spacer Plastic for Utex Seal Viper       |
| 11   | 560003345 | Bolt Mach 1/4-20 X 5/8" Slotted Hex STZ1 |
| *    | 620052296 | Plate Motor Mounting                     |

\* Indicates Not Shown

## FACEPLATE ASSEMBLY

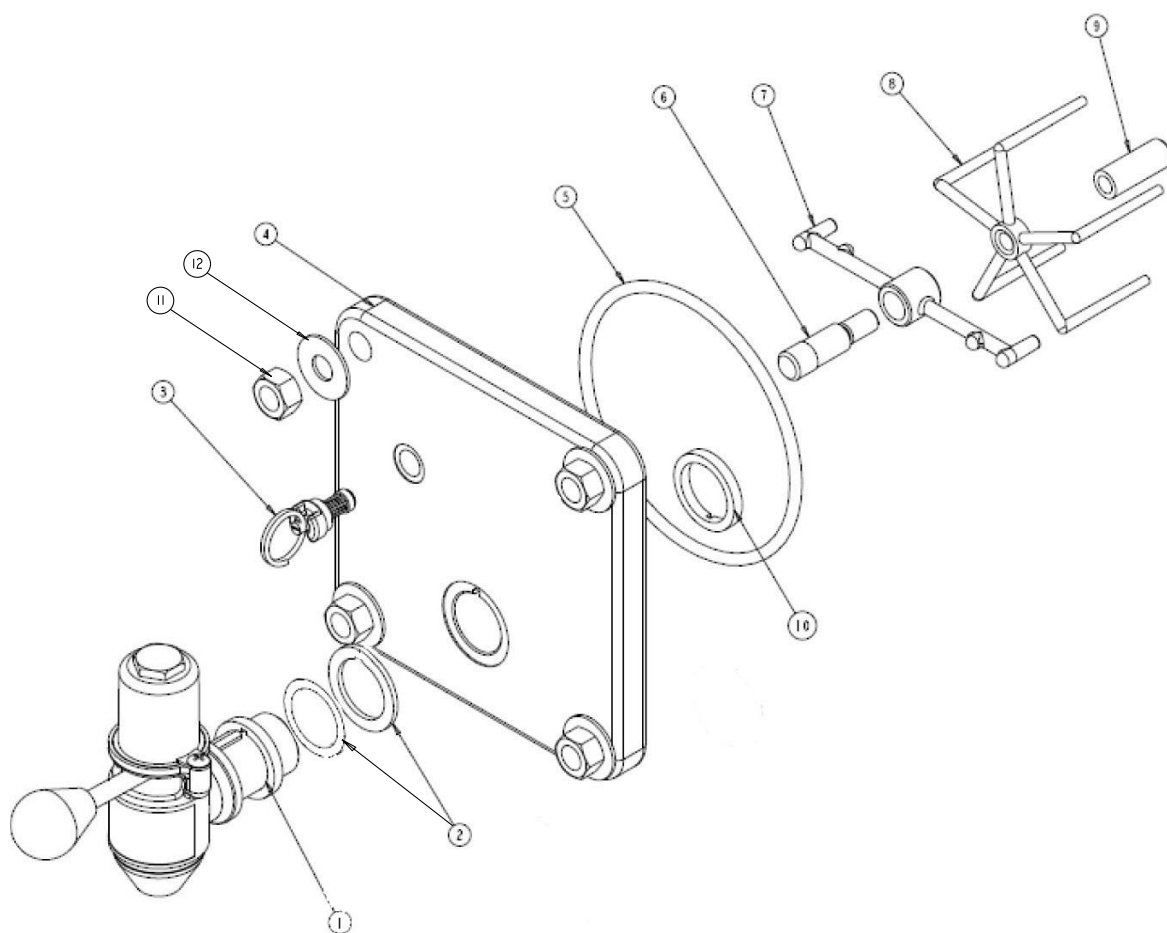


Figure 3. Faceplate Assembly

Table 3. Faceplate Assembly

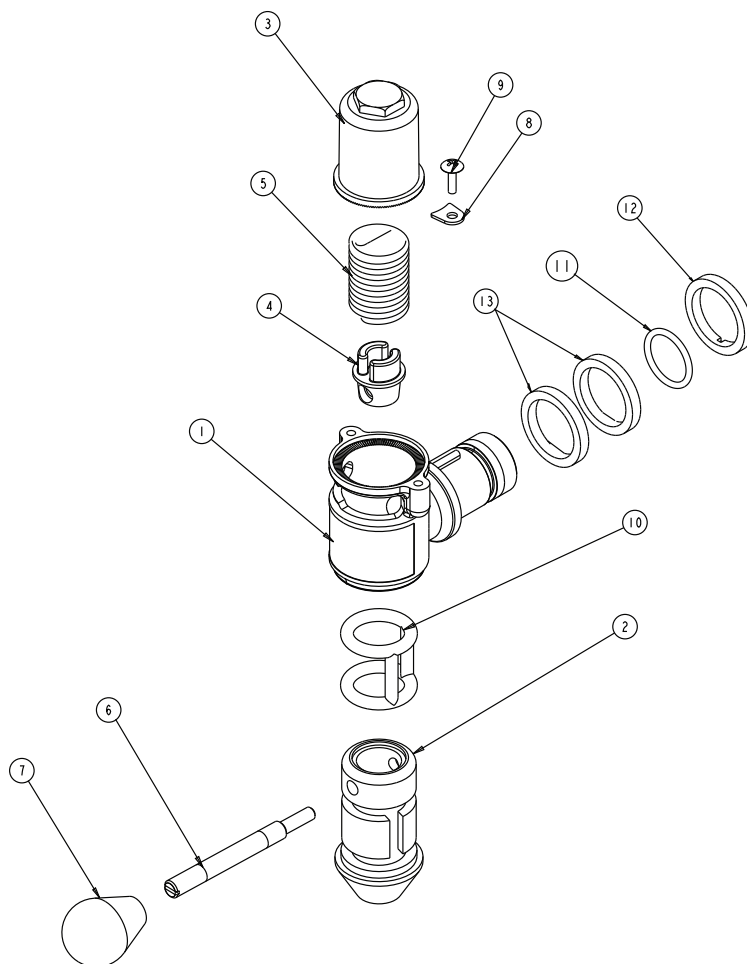
| Item | Part No.  | Description                              |
|------|-----------|------------------------------------------|
| *    | 620048365 | Door Frz Cyl Assy Kit Motorvpr TB        |
|      | 620067610 | Door Frz Cyl Assy Kit Motorman Ext Lever |
| 1    | 620048366 | Valve Disp Assy Motorman (See Figure 4.) |
|      | 620067611 | Valve Disp Asy Motorman Ext lever        |
| 2    | 325936000 | Spacer Val 2F FCB VA                     |
| 3    | 325954000 | Stem Assy R-Val FCB                      |
| 4    | 325918000 | Door Frz Cyl 2 FCB VA (Without line)     |
|      | 620048667 | Door Frz Cyl 2 FCB VA                    |
| 5    | 320678000 | O-Ring 4.60ID 210CS 70DU EY-P            |

Table 3. Faceplate Assembly

| Item | Part No.  | Description                   |
|------|-----------|-------------------------------|
| 6    | 2361      | Shaft Pivot Faceplate FCB V3+ |
| 7    | 321269001 | Spinner Frz Cyl               |
| 8    | 322441000 | Sensor Visc Mld               |
| 9    | 2358      | Pin Beater Bar FCB V3+        |
| 10   | 321652000 | Nut- Shank 1-1/16 - 16thd     |
| 11   | 320553001 | Nut Hex 7/16-14 Brch          |
| 12   | 320916000 | Washer Ft 450 1.1 062 SS      |
| *    | 321653000 | O-Ring 862ID 103CS 70DU EY-P  |
| *    | 620047188 | Ring Retaining                |

\* Indicates Not Shown

## MOTORMAN VALVE ASSEMBLY



**Figure 4. Motorman Valve Assembly**

**Table 4. Motorman Valve Assembly**

| Item | Part No.  | Description              |
|------|-----------|--------------------------|
| 1    | 620046168 | Body Valve FCB w/Stop    |
| 2    | 1554      | Body Valve Ribbed        |
| 3    | 1576      | Housing Spring FCB Valve |
| 4    | 1575      | Retainer Spring Valve    |
| 5    | 325305000 | Spring Torsion HC FCB    |
| 6    | 321651000 | Lever Valve              |
|      | 620067612 | Lever Valve Extended     |
| 7    | 620049960 | Knob White               |

**Table 4. Motorman Valve Assembly**

| Item | Part No.  | Description                     |
|------|-----------|---------------------------------|
| 8    | 325647000 | Plate Val FCB                   |
| 9    | 317784000 | Screw, TC 08-18 TRPH 16 SSPA 25 |
| 10   | 2818      | O-Ring Caged FCB Val            |
| 11   | 321653000 | O-Ring 862ID 103CS 70DU EY-P    |
| 12   | 321652000 | Nut-Shank 1-1/16-16Thd          |
| 13   | 325936000 | Spacer Val 2F FCB VA            |
| *    | 322859000 | Tool-wrench Spanner             |

\* Indicates Not Shown



## PRODUCT DELIVERY SYSTEM

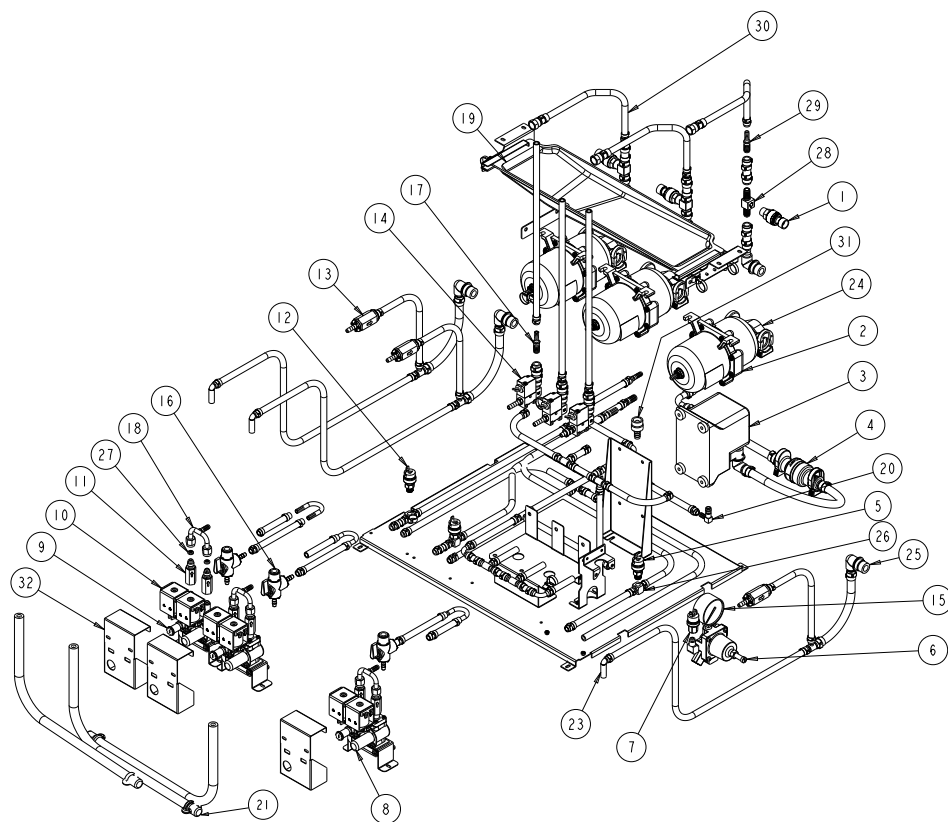


Figure 5. Product Delivery System

Table 5. Product Delivery System

| Item | Part No.  | Description                                  |
|------|-----------|----------------------------------------------|
| 1    | 620047352 | Sensor Press Transducer 0-15 Psig            |
| 2    | 620061583 | Tank Expansion 21.5oz FloJet                 |
|      | 629097625 | Kit Replacement Mini Viper Tank              |
| 3    | 629096937 | Kit-Pump Water FloJet                        |
| 4    | 620054693 | Reg Press Water 30PSIG W 3/8 Fittings        |
| 5    | 620043083 | Switch Sold Out Water - Viper                |
| 6    | 183446016 | Reg S SQ 30 RV CRTN                          |
| 7    | 620313290 | Switch Sold Out CO <sub>2</sub> - 3 FL Viper |
| 8    | 620608747 | Valve SolInd Assy Wtr 0.82GPM                |
| 9    | 620608746 | Valve SolInd Assy Syr 0.21GPM                |
| 10   | 620313722 | Solenoid Pull 24VAC 50/60 C.D.               |
| 11   | 560002991 | Valve Chk 7/16F X 7/16M CHUD                 |
| 12   | 620313291 | Switch Sold Out Syrup - 3 FL Viper           |
| 13   | 620609162 | Valve Chk 1/4 BARB (2) SMC                   |
| 14   | 620048073 | Valve PWM CO <sub>2</sub> 1/8NPT 24VAC 50/60 |
| 15   | 183288000 | Gauge 30PSI 200KPA                           |
| 16   | 620609164 | Valve Shut Off 3-Way Brix Valve              |
| 17   | 620048016 | Orifice .016ID, SS                           |
| 18   | 620720662 | Fitg U-Brb 1/4 X 1/4 FL (2)                  |

Table 5. Product Delivery System

| Item | Part No.  | Description                                     |
|------|-----------|-------------------------------------------------|
| 19   | 620522937 | Condensation Tray                               |
| 20   | 620720672 | Fitg CO <sub>2</sub> L-Brb 1/4 X Port BR FloJet |
| 21   | 620047684 | Cap Vinyl .437 ID Plastic                       |
| 22   | 77900300  | Tube U 1/4 Barb(2) Ss                           |
| 23   | 620720663 | Fitg-push L 3/8stem X 1/4barb                   |
| 24   | 620061927 | Insulation W/adhes Mini Exp Tank Viper          |
| 25   | 620720658 | Fitg L-brb 10/13mm X Port FloJet                |
| 26   | 5083      | Fitg T-brb 1/4(2) X 1/8fpt Ss                   |
| 27   | 178025100 | Gasket 1/4 Male Flare Fitg                      |
| 28   | 560002700 | Fitg T-brb 3/8(2) X 1/8fpt SS                   |
| 29   | 77040700  | Splicer Barb 250 X 375 Stn Stl                  |
| 30   | 620048014 | Tube Asy Product Barrel Inlet Vpr Tb            |
| 31   | 620720673 | Fitg Barb 3/8 X Port SS FloJet                  |
| 32   | 620045337 | Cover Flow Control Solenoid Viper               |
| *    | 174478100 | 1/4" Beverage Tubing X 100' Roll                |
| *    | 174292100 | 3/8" Beverage Tubing X 100' Roll                |
| *    | 183099000 | Kit Repair Reg. Secondary                       |
| *    | 620709068 | Fitg L-mix 1/4brb X 1/4 Ss                      |
| *    | 620048073 | Valve PWM Co <sub>2</sub> 1/8npt 24vac 50/60    |

\* Indicates Not Shown

This exploded view diagram illustrates the assembly of a water filtration system. The components are numbered as follows:

- 1:** A circular filter head with a mesh screen.
- 2:** A large vertical cylindrical filter housing.
- 3:** A small vertical cylindrical component, likely a sediment filter.
- 4:** A small vertical cylindrical component, likely a sediment filter.
- 5:** A small vertical cylindrical component, likely a sediment filter.
- 6:** A small vertical cylindrical component, likely a sediment filter.
- 7:** A small vertical cylindrical component, likely a sediment filter.
- 8:** A small vertical cylindrical component, likely a sediment filter.
- 9:** A small vertical cylindrical component, likely a sediment filter.
- 10:** A small vertical cylindrical component, likely a sediment filter.
- 11:** A rectangular base or support structure.
- 12:** A rectangular base or support structure.
- 13:** A small vertical cylindrical component, likely a sediment filter.
- 14:** A small vertical cylindrical component, likely a sediment filter.
- 15:** A small vertical cylindrical component, likely a sediment filter.
- 16:** A small vertical cylindrical component, likely a sediment filter.
- 17:** A small vertical cylindrical component, likely a sediment filter.
- 18:** A small vertical cylindrical component, likely a sediment filter.

| Item | Part No.  | Description                            |
|------|-----------|----------------------------------------|
| 10   | 620609156 | Valve, Expansion Automatic A7-B        |
| 11   | 620608618 | Filter, Air 18.00" X 19.00" 3 FL Viper |
| 12   | 620608016 | Cond-Coil Assy - 3 FL Viper            |
| 13   | 620057820 | Capacitor Motor Run Viper 60hz         |
| 14   | 620314319 | Cap., Run 45uF 370VAC Stud-Mnt-60Hz    |
| 15   | 620314540 | Sensor Transducer 500 PSI Refrig       |
| 16   | 620314539 | Sensor Transducer 300 PSI Refrig       |
| 17   | 2636      | Core Access Valve                      |
| 18   | 315499000 | Cap Quick Seal 1/4                     |

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## E-Box ASSEMBLY

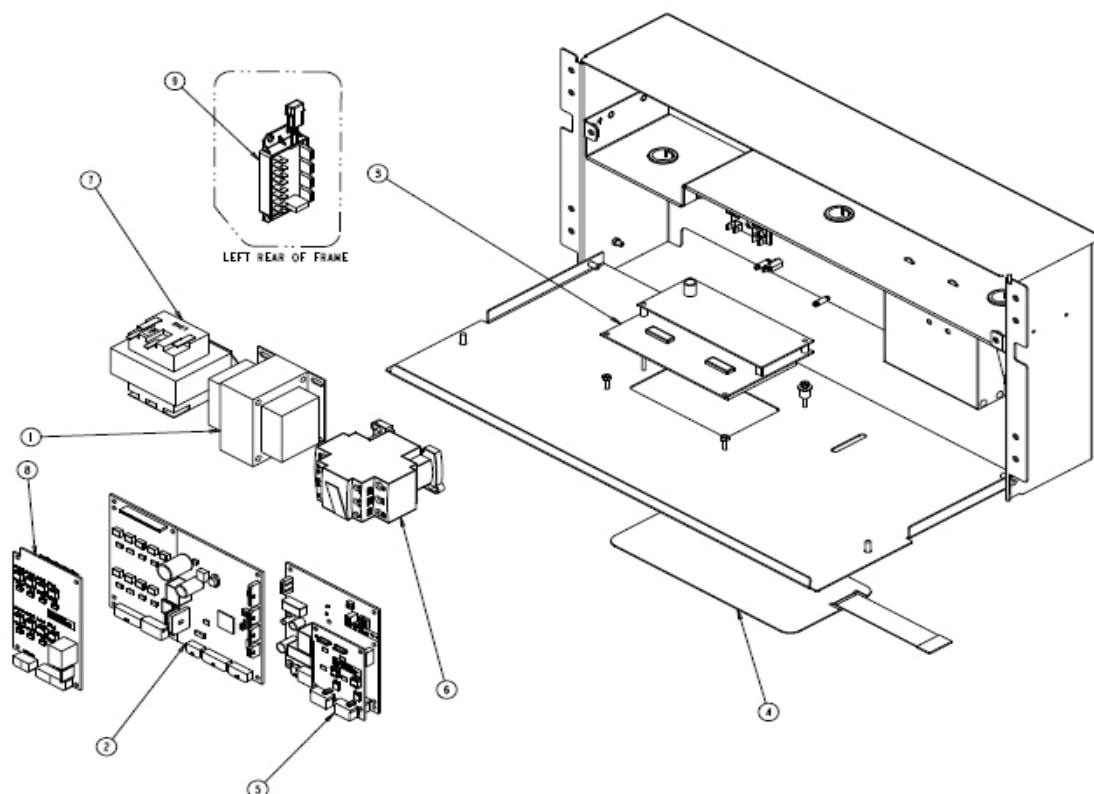


Figure 7. E-Box Assembly

Table 7. E-Box Assembly

| Item | Part No.       | Description                                    |
|------|----------------|------------------------------------------------|
| 1    | 620710739S     | Transformer 60+75VA 240V:24V 50/60HZ           |
| 2    | 620314869-200S | Kit-Board 3 FL Viper Ctl_Main I/O Board Ver. 2 |
| 3    | 620314871-200S | Kit Board Viper Ctl-main U/i Board             |
| 4    | 629096275S     | Kit-Key Pad Ctl Viper                          |
| 5    | 620045351-100S | Kit Control Motor Asy 3/4 Barrel               |
| 6    | 620314029      | Relay Compress 24VAC Coil 600VAC Contacts      |
| 7    | 620710737S     | Transformer 80VA 240V; 24V 60Hz                |
| 8    | 620314870S     | Kit Brd Expander 3FL Viper CTL Main IO Brd     |
| 9    | 620047160-100  | PCBA Analog Pressure Switch                    |

Table 7. E-Box Assembly

| Item | Part No.      | Description                                                 |
|------|---------------|-------------------------------------------------------------|
| *    | 629096930TC   | Kit, Language Chip - Chinese Traditional UI Software Ver. 2 |
| *    | 629096930SC   | Kit, Language Chip - Chinese Simple UI Software Ver. 2      |
| *    | 629096931TC   | Kit, Language Chip - Chinese Traditional UI Software Ver. 3 |
| *    | 629096931SC   | Kit, Language Chip - Chinese Simple UI Software Ver. 3      |
| *    | 629096931KR   | Kit, Language Chip - Korean UI Software Ver. 3              |
| *    | 629096931SP   | Kit, Language Chip - Spanish UI Software Ver. 3             |
| *    | 629096931JP   | Kit, Language Chip - Japanese UI Software Ver. 3            |
| *    | 629096931FR   | Kit, Language Chip- French UI Software Ver. 3               |
| *    | 629096931LOFR | Kit, Language Chip- Low Over-run French UI Software Ver. 3  |

\* Indicates Not Shown

**Table 8. Harness Assemblies (Not Shown)**

| Item | Part No.  | Description                                              |
|------|-----------|----------------------------------------------------------|
| *    | 620043067 | Harness, Secondary, Exp Transformer                      |
| *    | 620045291 | Harness, Motor Ground                                    |
| *    | 620323046 | Harness, Mn E-Box IO PCBA to Sold-Out Sw                 |
| *    | 620323247 | Harness, Main E-Box IO PCBA to 24VAC Strip               |
| *    | 620323348 | Harness, Main E-Box Mtr Cont PCBA to Motor 1             |
| *    | 620323657 | Harness, Main Power E-Box 240VAC Pwr Sply                |
| *    | 620323661 | Harness, Compressor Ground                               |
| *    | 620323662 | Harness, Mn E-Box IO PCBA to AC Loads                    |
| *    | 620323663 | Harness, Mn E-Box IO PCBA to LCD Usr Intrfc PCBA         |
| *    | 620323664 | Harness, Mn E-Box 24VAC Strip to Mtr PCBA                |
| *    | 620323665 | Harness Pwr E-Box IO PCBA to Mtr Cntrl PCBA, Comm        |
| *    | 620323667 | Harness, Mn E-Box Mtr Cntrl PCBA to 24VAC Sply Pwr E-Box |
| *    | 620323668 | Harness, Mrchdsr Mn LED Stat to Extnr LED Stat           |
| *    | 620323669 | Harness, Pwr. E-Box 240VAC Compr Cap                     |

**Table 8. Harness Assemblies (Not Shown)**

| Item | Part No.  | Description                                    |
|------|-----------|------------------------------------------------|
| *    | 620323670 | Harness, Pwr E-Box 240VAC Compr Cont.          |
| *    | 620323671 | Harness, Pwr 240VAC to Condenser Fan Contact   |
| *    | 620323700 | Harness, Mn E-Box to TCO                       |
| *    | 620323706 | Harness, Mn E-Box Mtr Cntrl PCBA to Motor 2    |
| *    | 620323716 | Harness, Mn E-Box AC Loads 3-Brl               |
| *    | 620323717 | Harness, Mn E-Box Mtr Cntrl PCBA to Motor 3    |
| *    | 620323718 | Harness, Mn E-Box IO PCBA to Sold-Out Sw Brl 3 |
| *    | 620323719 | Harness, Mn E-Box IO PCBA to Therm 3-Brl       |
| *    | 620323729 | Harness, Dual Pres. Transducer                 |
| *    | 620323731 | Harness, Condenser Fan, Long                   |
| *    | 620323732 | Harness, Compressor Pwr, Long                  |
| *    | 620323733 | Harness, Primanry, Second Transformer          |
| *    | 620323738 | Harness, Mn E-Box to Mn Transformer            |
| *    | 620047351 | Harness Analog Pressure Switch PCBA 24VAC      |
| *    | 620047350 | Harness Analog Pressure Switch                 |
| *    | 620053073 | Harn Barrel Fill Switch                        |

\* Indicates Not Shown

## MERCHANDISER ASSEMBLY (TALL)

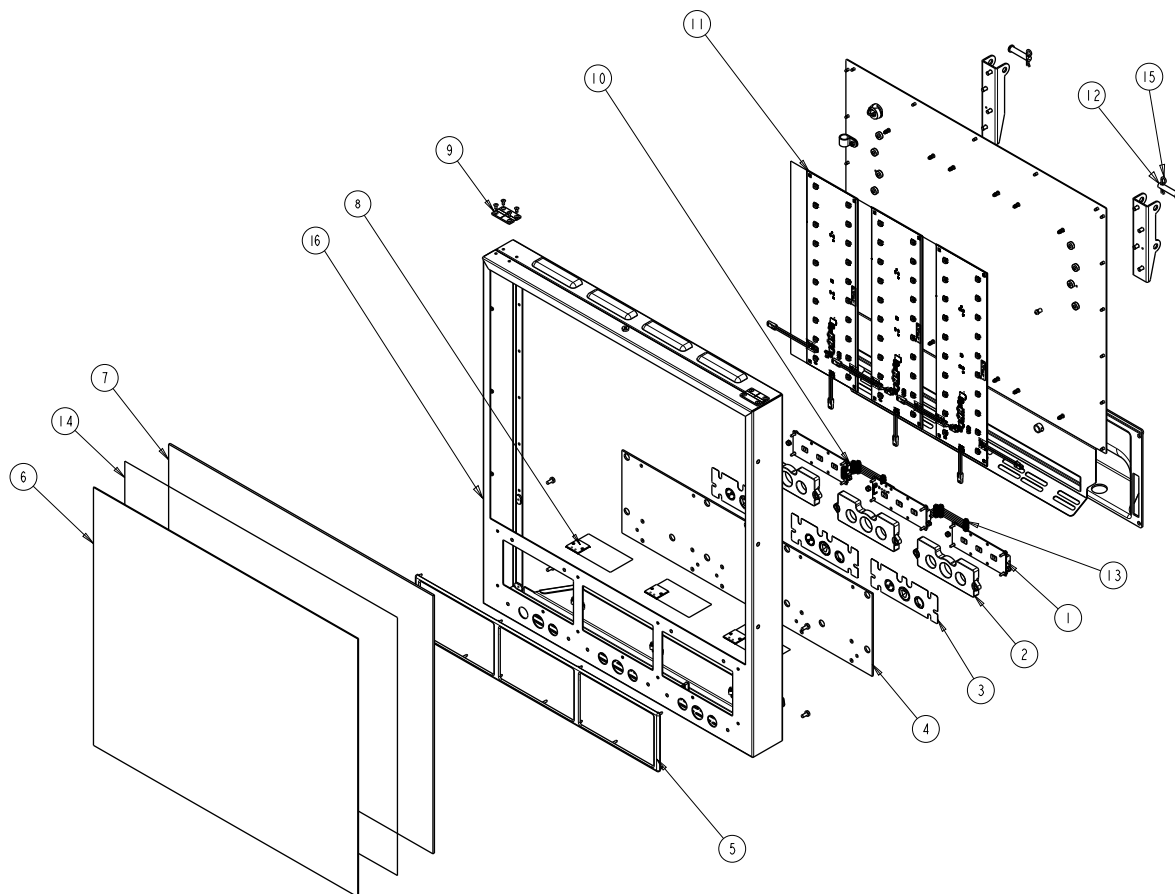


Figure 8. Merchandiser Assembly (Tall)

Table 9. Merchandiser Assembly

| Item | Part No.  | Description                                   |
|------|-----------|-----------------------------------------------|
| 1    | 620314875 | Kit-Board Viper Ctl_Barrel Status Extender    |
| 2    | 620518917 | Plate Mtg Viper Ctl Barrel Status             |
| 3    | 620928781 | Graphic Board Viper Ctl Barrel Status         |
| 4    | 620042855 | Diffuser Flavor Card 3FL Viper                |
| 5    | 620050816 | Display Flavor Card CT PCL                    |
| 6    | 620518246 | Lens Graphic Merchandiser 3FL Viper           |
| 7    | 620053953 | Kit-Diffuser Inside MErchandiser 3FL Viper    |
| 8    | 620521775 | Kit-Merchandiser Assy Downlight PCBA          |
| 9    | 629096926 | Kit-Hinge Plastic Merchandiser 3FL Viper 2Pcs |
| 10   | 620314874 | Kit-Board 3FL Viper Ctl_Barrel Status         |
| 11   | 620061825 | Merchndsr Assy Backlight Pcba W/led Circuit   |
|      | 629097425 | Kit Led Backligh Merch 3 FI Viper             |
| 12   | 629096936 | Kit-Pin Hinge 3FL Viper 2Pcs                  |

Table 9. Merchandiser Assembly

| Item | Part No.  | Description                                    |
|------|-----------|------------------------------------------------|
| 13   | 620323668 | Harness Main LED Status to Extender LED Status |
| 14   | 620046410 | Graphics Viper 3FL                             |
| 15   | 398034400 | Pin Htch 080D 1.562 STZI                       |
| 16   | 620050225 | Merchndsr Box 3fl Viper                        |
| *    | 620042868 | Flavor Card - 18 Card Set                      |
| *    | 620046771 | Hinge for Short Merchandiser Viper             |
| *    | 620061826 | Harn Merchndsr Viper Led Backlight             |
| *    | 620052148 | Card Flavor Bp Viper                           |
| *    | 620051378 | Card Flavor Coke Viper                         |
| *    | 620051379 | Card Flavor Pepsi Viper                        |
| *    | 620055021 | Card Flavor Viper Hs                           |
| *    | 620065324 | Card Flavor Viper 6.5 X 4.0 - Bk               |
| *    | 620043061 | Harness Main E-Box to Merchandiser W/24VAC     |

\* Indicates Not Shown

## MERCHANDISER ASSEMBLY (MODIFIED SHORT)

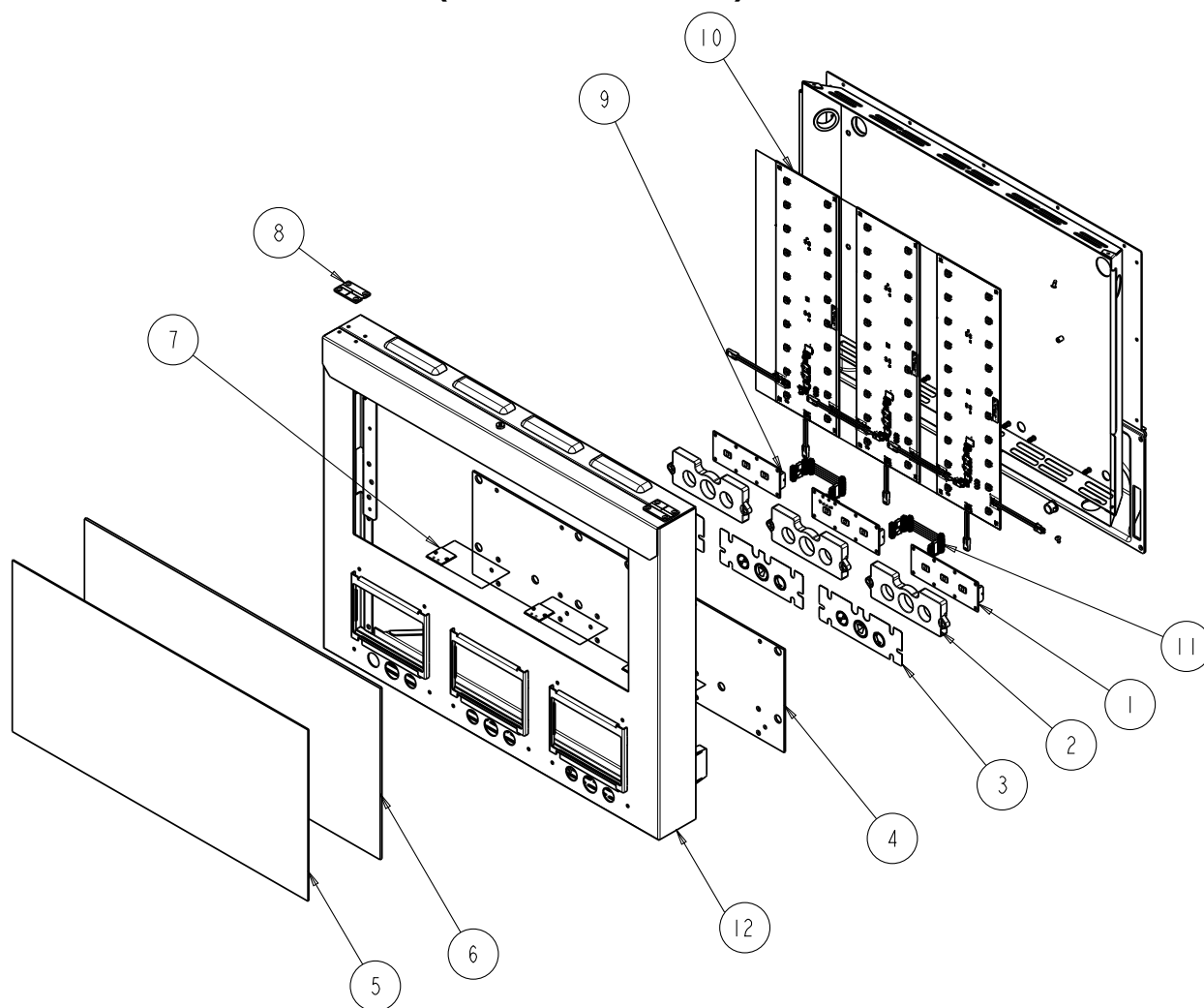


Figure 9. Merchandiser Assembly (Modified Short)

Table 10. Merchandiser Assembly

| Item | Part No.  | Description                                       |
|------|-----------|---------------------------------------------------|
| 1    | 620314875 | Kit-Board Viper Ctl_Barrel Status Extender        |
| 2    | 620518917 | Plate Mtg Viper Ctl Barrel Status                 |
| 3    | 620928781 | Graphic Board Viper Ctl Barrel Status             |
| 4    | 620042855 | Diffuser Flavor Card 3FL Viper                    |
| 5    | 620048345 | Lens Graphic Merchandiser 3FL Viper - Short       |
| 6    | 620048344 | Kit-Diffuser Inside Merchandiser 3FL Viper- Short |
| 7    | 620521775 | Kit-Merchandiser Assy Downlight PCBA              |
| 8    | 629096926 | Kit-Hinge Plastic Merchandiser 3FL Viper 2Pcs     |

Table 10. Merchandiser Assembly

| Item | Part No.  | Description                                    |
|------|-----------|------------------------------------------------|
| 9    | 620314874 | Kit-Board 3FL Viper Ctl_Barrel Status          |
| 10   | 620061825 | Merchndsr Assy Backlight Pcba W/ led Circuit   |
|      | 629097425 | Kit Led Backligh Merch 3 FI Viper              |
| 11   | 620323668 | Harness Main LED Status to Extender LED Status |
| 12   | 620047344 | Merchndsr Short Box 3fl Vpr Tb                 |
| *    | 620046771 | Hinge for Short Merchandiser Viper (Not Shown) |
| *    | 620061826 | Harn Merchndsr Viper Led Backlight             |
| *    | 620043061 | Harness Main E-Box to Merchandiser W/24VAC     |

\* Indicates Not Shown



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