

**Metering Pump Component Diagram** 

# Series C9

## **Electronic Metering Pump**

**Specification Sheet and Assembly Details** 

Manual No : 1619, 1795

Rev. : G, E

Rev. Date : 6/09, 10/2015





## Specification **Sheet** Series C

#### **GENERAL**

Chemical metering pumps shall be positive displacement, Liquifram™ type pumps that are UL and CUL approved. Output volume shall be adjustable while pumps are in operation from zero to maximum capacity of:

C10, C70, C90 - 1.3 GPH (4.9 liters per hour) C11, C71, C91 - 2.5 GPH (9.5 liters per hour) C12, C72, C92 - 4.0 GPH (15.1 liters per hour) C13, C73, C93 - 8.0 GPH (30.0 liters per hour) C14, C74, C94 - 20.0 GPH (75.7 liters per hour) - 4.0 GPH (15.1 liters per hour) C77\* - 10.0 GPH (38.0 liters per hour) C78\* - 25.0 GPH (95.0 liters per hour)

Chemical metering pumps shall be capable, without a hydraulically backed diaphragm, of injecting solutions against pressures up to:

C10, C70, C90 -300 psig (20.7 bar) C11, C71, C91 - 150 psig (10.3 bar) C12, C72, C92 -100 psig (6.9 bar) C13, C73, C93 60 psig (4.1 bar) C14, C74, C94 25 psig (1.7 bar) C76\* 175 psig (12.1 bar) C77\* 80 psig (5.5 bar) C78\* 30 psig (2.1 bar)

#### TYPE C1

Adjustment shall be by means of readily accessible dial knobs, one for changing stroke length and the other for changing stroke frequency (speed). Both knobs are to be located opposite the liquid handling end.

#### **TYPE C7**

Control of Series C7 metering pumps shall be selectable between internal and external pulsing by means of a 3-position center-off switch. Stroke length shall be adjustable by means of readily accessible dial knob. When in external pulsed mode, Series C7 units shall accept signals without the use of electrical timer or internal timer. Pressure capacity shall be adjustable to reduce noise, vibration and wear.

#### TYPE C9

Series C9 metering pumps shall have a clear liquid crystal display. Control shall be selectable between internal and external pulsing by means of a tactile keypad. Internal stroke frequency shall be adjustable from 1 stroke per hour to 100 strokes per minute. Pressure capacity shall be keypad adjustable to reduce noise, vibration and wear. Metering pump shall be capable of dividing or multiplying pulse inputs from 1 to 999 or responding directly or inversely to a 4-20mA input signal.

#### **DRIVE**

The pump drive shall be totally enclosed with no exposed moving parts. Solid state electronic pulser shall be encapsulated and supplied with quick connect terminals at least 3/16" (4.75 mm) wide. Electronics shall be housed in chemical resistant enclosure at the rear of the pump for maximum protection against chemical spillage. Electrical power consumption shall not exceed 87 watts under full speed and maximum pressure conditions. Pump weight shall not exceed 28 lbs (12.7 kg).

#### **AUTOMATIC PRESSURE RELIEF**

To eliminate need for pressure relief valve, Liquifram<sup>TM</sup> shall automatically stop pulsating when discharge pressure exceeds pump pressure rating by not more than 35%.

#### **MATERIAL**

Chemical metering pump housing shall be of chemically resistant glass fiber reinforced thermoplastic with a glass fiber reinforced polypropylene EPU carrier<sup>1</sup>. All exposed fasteners shall be stainless steel. Chemical metering pump valves shall be ball type, with ceramic balls<sup>2</sup>. Valve seat and seal ring shall be renewable by replacing the combination seat-seal ring<sup>3</sup> or cartridge valve assembly. Pump head shall be of transparent acrylic4 material capable of resisting the pumped chemical. Fittings and connections at pump head shall be PVC5.

#### **CHECK VALVES AND TUBING**

A total of 16 ft (4.8 m) of polyethylene tubing<sup>6</sup> shall be provided per pump complete with compression connections. A foot valve with integral one piece strainer shall be provided for the suction line, and an injection check/back pressure valve with 1/2" NPT male connection for the injection point. The injection check valve shall incorporate a dilating orifice which prohibits scale formation and accumulation of crystalline deposits.

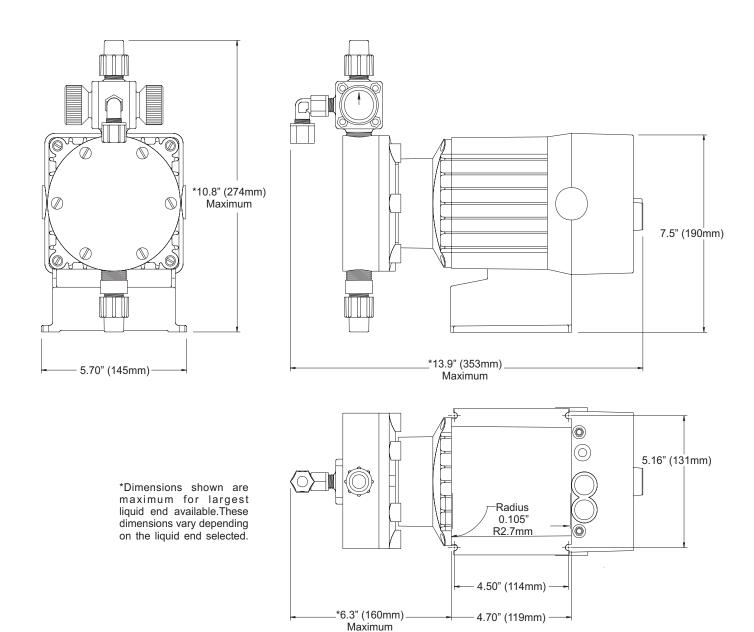
(\* - Not UL or CUL Approved)

#### Notes:

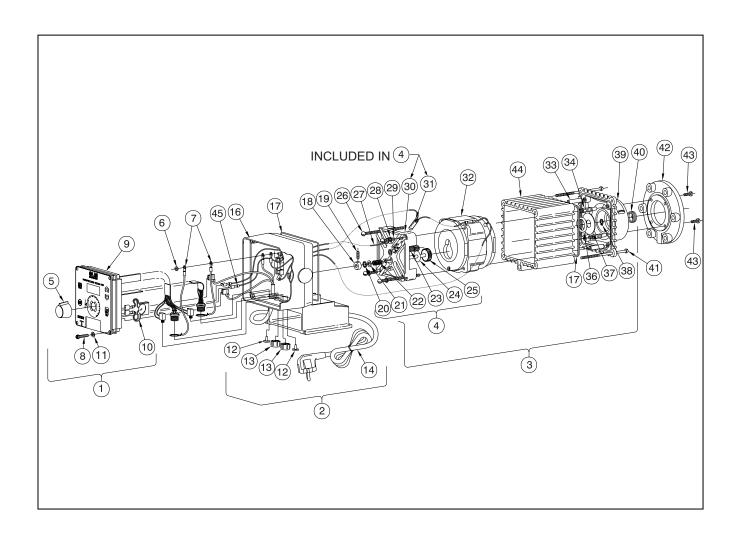
- 2. Type 316 stainless steel or PTFE may be specified.
- 3. Hypalon®, PTFE, Viton® or Polyprel® may be specified.
- 1. With plastic coated cast iron EPU carrier for Series C 76, C77 and C78. 4. PVC, Polypropylene, PDVF or Type 316 stainless steel may be specified.
  - 5. PVDF, Polypropylene, or Type 316 stainless steel may be specified.
  - 6. 6 ft. (1.8 m) of vinyl suction tubing may be specified in place of polyethylene for the suction side only. 1/4" or 1/2" male pipe thread may be specified.



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## SERIES C9 DRIVE ASSEMBLY EXPLODED VIEW DIAGRAM



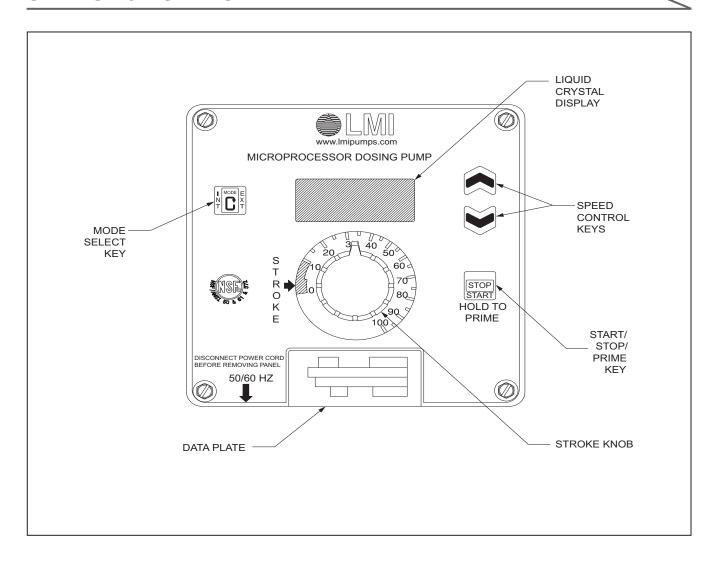
## SERIES C9 DRIVE ASSEMBLY PARTS LIST

Key Number	Model Series	Part Number	Description	Qty
	C901, C911	35960CE	Control Panel Assembly, 120V	1
	C902, C903, C905, C906, C907, C912, C913, C915, C916, C917	35961CE	Control Panel Assembly, 240V	1
	C921	35962CE	Control Panel Assembly, 120V	1
1	C922, C923, C925, C926, C927	35963CE	Control Panel Assembly, 240V	1
	C931	35964CE	Control Panel Assembly, 120V	1
	C932, C933, C935, C936, C937	35965CE	Control Panel Assembly, 240V	1
	C941	35966CE	Control Panel Assembly, 120V	1
	C942, C943, C945, C946, C947	35967CE	Control Panel Assembly, 240V	1
	C901, C911, C921, C931, C941	35949CE	Housing Assembly, 120V	1
	C902, C912, C922, C932, C942	35955CE	Housing Assembly, 230V	1
2	C903, C913, C923, C933, C943	35950CE	Housing Assembly, 220-240V DIN	1
	C905, C915, C925, C935, C945	35951CE	Housing Assembly, 220-240V, U.K.	1
	C906, C916, C926, C936, C946	35956CE	Housing Assembly, 220-240V, Aust.	1
	C907, C917, C927, C937, C947	35952CE	Housing Assembly, 220-240C, SWISS.	1
	C901	32532CE	EPU&Spacer Asm, w/Stroke Adj.,120V	1
	C902, C903,C905, C906,C907	32533CE	EPU&Spacer Asm, w/Stroke Adj.,240V	1
3	C911,C921	32534CE	EPU&Spacer Asm, w/Stroke Adj.,120V	1
	C912, C913,C915, C916,C917, C922,C923,C925, C926, C927	32535CE	EPU&Spacer Asm, w/Stroke Adj.,240V	1
	C931,C941	32536CE	EPU&Spacer Asm, w/Stroke Adj.,120V	1
	C932, C933, C935, C936, C937, C942, C943, C945, C946, C947	32537CE	EPU&Spacer Asm, w/Stroke Adj.,240V	1
4	C9	32251CE	Stroke Bracket Assembly	1
5	C9	31891	Knob, Stroke	1
6	C9	10191	Nut, 6-32	2
7	C9	35266	Wire Assembly	2
8	C9	30306	Screw, 10 x1 S.S.	4
9	C9	10166	O-Ring	1
10	C9X1	35254	MOV/CAP Assembly, 120V	1
	C9X2, C9X3, C9X5, C9X6	35255	MOV/CAP Assembly, 220-240V	1
11	C9	33889	Washer	4
12	C9	30307	Plug	2
13	C9	25930	Cover	2
	C9X1	37213	Power Cord Assembly, 120V	1
14	C9X2	37214	Power Cord Assembly, 240V	1
	C9X3	36001CE	Power Cord Assembly, 220-240V, DIN	1
	C9X5	37215	Power Cord Assembly, 220-240V, UK	1
	C9X6	36002CE	Power Cord Assembly, 220-240V, AUST	1
	C9X7	37216	Power Cord Assembly, 220-240V, SWISS	1

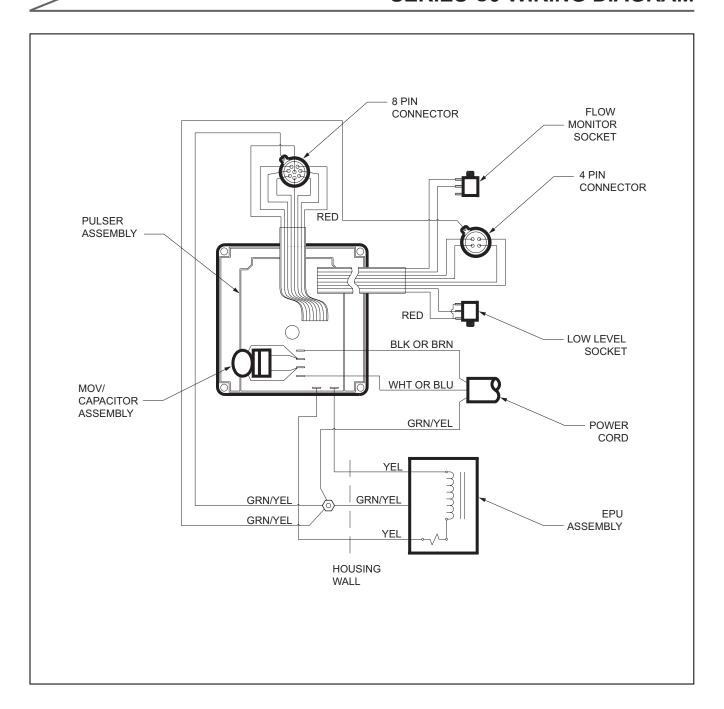
## **SERIES C9 DRIVE ASSEMBLY PARTS LIST**

16         C9         35890         Housing         1           17         C9         35269         O-Ring         2           18         C9         25424         Collar         1           19         C9         25423         Set Screw         1           20         C9         10462         Retaining Ring         1           21         C9         32302         Washer         1           22         C9         32278         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         127561         Washer         4           29         C9         27551         Screw, 10-24x1.25	Key Number	Model Series	Part Number	Description	Qty
18         C9         25424         Collar         1           19         C9         25423         Set Screw         1           20         C9         10462         Retaining Ring         1           21         C9         32302         Washer         1           22         C9         32221         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x4.0         2           30         C9         10415         Washer         4           4         29         C9         27551         Screw, 10-24x4.0         2           31         C9         27501CE         Thermostat         1           32         C9         12751, C921, C	16	C9	35890	Housing	1
19         C9         25423         Set Screw         1           20         C9         10462         Retaining Ring         1           21         C9         32302         Washer         1           22         C9         32221         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           30         C9         127551         Screw, 10-24x1.25         4           30         C9         127551         Screw, 10-24x1.25         4           30         C9         127501CE         Thermostat         1           31         C9         27501CE         Thermostat         1           4         C90, C91, C92, C93, C94         27187         Spacing Stud         2           32         C90, C91, C92, C	17	C9	35269	O-Ring	2
20         C9         10462         Retaining Ring         1           21         C9         32302         Washer         1           22         C9         32221         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           4         C90, C91, C92, C93, C94         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27781         Spacing Stud         2 </td <td>18</td> <td>C9</td> <td>25424</td> <td>Collar</td> <td>1</td>	18	C9	25424	Collar	1
21         C9         32302         Washer         1           22         C9         32221         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         127561CE         Thermostat         1           C9         C91, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27187         Spacing Stud         2           35         C90, C91, C92         37963         Stud Assembly <td>19</td> <td>C9</td> <td>25423</td> <td>Set Screw</td> <td>1</td>	19	C9	25423	Set Screw	1
22         C9         32221         Spring         1           23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           4         C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C901, C91, C92, C93, C94         27187         Spacing Stud         2           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring <td>20</td> <td>C9</td> <td>10462</td> <td>Retaining Ring</td> <td>1</td>	20	C9	10462	Retaining Ring	1
23         C9         32578         Pinion         1           24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           4         C90. C91, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90. C91, C92, C93, C94         27187         Spacing Stud         2           33         C90. C91, C92, C93, C94         27187         Spacing Stud         2           34         C90. C91, C92         337963         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1	21	C9	32302	Washer	1
24         C9         25121         Gasket         1           25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           C90, C91, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         27187         Spacing Stud         2           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           34         C90, C91, C92         37963         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1 </td <td>22</td> <td>C9</td> <td>32221</td> <td>Spring</td> <td>1</td>	22	C9	32221	Spring	1
25         C9         31770         Shaft Assembly         1           26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           4         29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           31         C9         27501CE         Thermostat         1           32         C90, C91, C92, C93, C94         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9	23	C9	32578	Pinion	1
26         C9         27552         Screw, 10-24x4.0         2           27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         27187         Spacing Stud         2           All Models rated 220-240 Volts         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           40         C90, C91, C92, C93, C94         27641-1         Stud Assembly         4           436         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           49         C91, C92         35394         Sp	24	C9	25121	Gasket	1
27         C9         35223         Ground Wire Assembly (GRN)         1           28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           C90, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           39         C91, C92         35394         Spacer, 3.0 SI         1           40         C9         10973         Seal<	25	C9	31770	Shaft Assembly	1
28         C9         10415         Washer         4           29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           C90, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92, C93, C94         27187         Spacing Stud         2           293, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           39         C91, C92         35394         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 3.0 SI         1           40         C9         10973         Seal         1     <	26	C9	27552	Screw, 10-24x4.0	2
29         C9         27551         Screw, 10-24x1.25         4           30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           C90, C91, C92         37963         Stud Assembly         4           C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           40         C9         35394         Spacer, 0.9 SI         1           40         C9         35394         Spacer, 1.8 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         <	27	C9	35223	Ground Wire Assembly (GRN)	1
30         C9         12064         Bracket (without mating parts)         1           31         C9         27501CE         Thermostat         1           20         C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           32         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           39         C91, C92         35394         Spacer, 0.9 Sl         1           40         C9         35394         Spacer, 3.0 Sl         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 Sl<	28	C9	10415	Washer	4
31         C9         27501CE         Thermostat         1           32         C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           33         C90, C91, C92, C93, C94         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           4         C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           39         C91, C92         35394         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 3.0 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598	29	C9	27551	Screw, 10-24x1.25	4
C901, C911, C921, C931, C941         38390         EPU Assembly, 120V         1           C90, C91, C92, C93, C94 All Models rated 220-240 Volts         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           24         C90, C91, C92         37963         Stud Assembly         4           4         C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           40         C9         38303         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 1.8 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068	30	C9	12064	Bracket (without mating parts)	1
32         C90, C91, C92, C93, C94 All Models rated 220-240 Volts         32159CE         EPU Assembly, 240V         1           33         C90, C91, C92, C93, C94         27187         Spacing Stud         2           34         C90, C91, C92         37963         Stud Assembly         4           C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           C90         38303         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 1.8 SI         1           C93, C94         35395         Spacer, 3.0 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068         Sleeve, EPU         1	31	C9	27501CE	Thermostat	1
All Models rated 220-240 Volts  32159CE EPU Assembly, 240V  33		C901, C911, C921, C931, C941	38390	EPU Assembly, 120V	1
34       C90, C91, C92       37963       Stud Assembly       4         C93, C94       27641-1       Stud Assembly       4         36       C9       26983       O-Ring       1         37       C9       27586       Shim       1         38       C9       27253       Retaining Ring       1         C90       38303       Spacer, 0.9 SI       1         39       C91, C92       35394       Spacer, 1.8 SI       1         C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	32		32159CE	EPU Assembly, 240V	1
34         C93, C94         27641-1         Stud Assembly         4           36         C9         26983         O-Ring         1           37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           C90         38303         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 1.8 SI         1           C93, C94         35395         Spacer, 3.0 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068         Sleeve, EPU         1           45         C9         28856CE         Wire Assembly         2	33	C90, C91, C92, C93, C94	27187	Spacing Stud	2
C93, C94       27641-1       Stud Assembly       4         36       C9       26983       O-Ring       1         37       C9       27586       Shim       1         38       C9       27253       Retaining Ring       1         C90       38303       Spacer, 0.9 SI       1         39       C91, C92       35394       Spacer, 1.8 SI       1         C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	34	C90, C91, C92	37963	Stud Assembly	4
37         C9         27586         Shim         1           38         C9         27253         Retaining Ring         1           C90         38303         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 1.8 SI         1           C93, C94         35395         Spacer, 3.0 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068         Sleeve, EPU         1           45         C9         28856CE         Wire Assembly         2		C93, C94	27641-1	Stud Assembly	4
38         C9         27253         Retaining Ring         1           C90         38303         Spacer, 0.9 SI         1           39         C91, C92         35394         Spacer, 1.8 SI         1           C93, C94         35395         Spacer, 3.0 SI         1           40         C9         10973         Seal         1           41         C9         25127         Screw, RH Slotted, S.S.         4           42         C94         38856         Spacer Adapter, 6.0 SI         1           43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068         Sleeve, EPU         1           45         C9         28856CE         Wire Assembly         2	36	C9	26983	O-Ring	1
C90       38303       Spacer, 0.9 SI       1         39       C91, C92       35394       Spacer, 1.8 SI       1         C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	37	C9	27586	Shim	1
39       C91, C92       35394       Spacer, 1.8 SI       1         C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	38	C9	27253	Retaining Ring	1
C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	39	C90	38303	Spacer, 0.9 SI	1
C93, C94       35395       Spacer, 3.0 SI       1         40       C9       10973       Seal       1         41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2		C91, C92	35394	Spacer, 1.8 SI	1
41       C9       25127       Screw, RH Slotted, S.S.       4         42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2		C93, C94	35395		1
42       C94       38856       Spacer Adapter, 6.0 SI       1         43       C9       10598       Screw       4         44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	40	C9	10973	Seal	1
43         C9         10598         Screw         4           44         C90, C91, C92, C93, C94         25068         Sleeve, EPU         1           45         C9         28856CE         Wire Assembly         2	41	C9	25127	Screw, RH Slotted, S.S.	4
44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	42	C94	38856	Spacer Adapter, 6.0 SI	1
44       C90, C91, C92, C93, C94       25068       Sleeve, EPU       1         45       C9       28856CE       Wire Assembly       2	43	C9	10598	Screw	4
45 C9 28856CE Wire Assembly 2	44	C90, C91, C92, C93, C94	+	Sleeve, EPU	1
	45				2
	Not Shown	C9	25849	•	1

### **SERIES C9 CONTROL PANEL DETAIL**



### **SERIES C9 WIRING DIAGRAM**



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