

## ***Technical Data for Series 3930 Melters***

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This section covers the following unit configurations.	
Model	3930
Voltage	All
Pump	All
Manifold	All
Control	All



# Section D 1

## Technical Data for Series 3930 Melters

### 1. Specifications

Viscosity Range	800–30,000 CPS
Ambient Temperature Range	0–50 °C (32–120 °F)
Operating Temperature Range	70–230 °C (160–450 °F)
Temperature Control Stability	± 0.5 °C (± 1 °F)
Tank Volume	14.6 l (890 cu. in.)
Tank Capacity	13.6 kg (30 lb)
Melt Rate	27.3 kg/hr (60 lb/hr)
Hose/Gun Usage	2,4
Pump Weight	Piston Pump 48 kg (105 lb) AC Gear Pump 48 kg (105 lb)
Electrical service	200–240 VAC, 50/60 Hz, 3Ø, 380–415/220–240 VAC, 50/60 Hz, 3Ø
Tank Dimensions	216 x 117 mm (8.50 x 4.62 in.)

<b>Pump Specifications</b>						
<b>Pump Type</b>	<b>Configure Code</b>	<b>Rate</b>	<b>Displacement</b>	<b>Speed</b>	<b>Maximum Working Pressure</b>	<b>Air Consumption/Speed Reduce Ratio</b>
21:1 Piston	B/F	0.91 kb/min (2 lb/min)	16 cc/stroke (1 in <sup>3</sup> /stroke)	66 strokes/min	104 bar (1500 psi)	115 l/min (4.1 CFM)
1/3 hp AC Gear, 60 Hz	K/L	0.41 kg/min (0.8 lb/min)	3.47 cc/rev. (0.21 in <sup>3</sup> /rev.)	139 rpm	82.7 bar (1200 psi)	N/A
1/3 hp AC Gear, 50 Hz	K/L	0.41 kg/min (0.9 lb/min)	3.47 cc/rev. (0.21 in <sup>3</sup> /rev.)	120 rpm	82.7 bar (1200 psi)	N/A

1. Specifications (contd.)

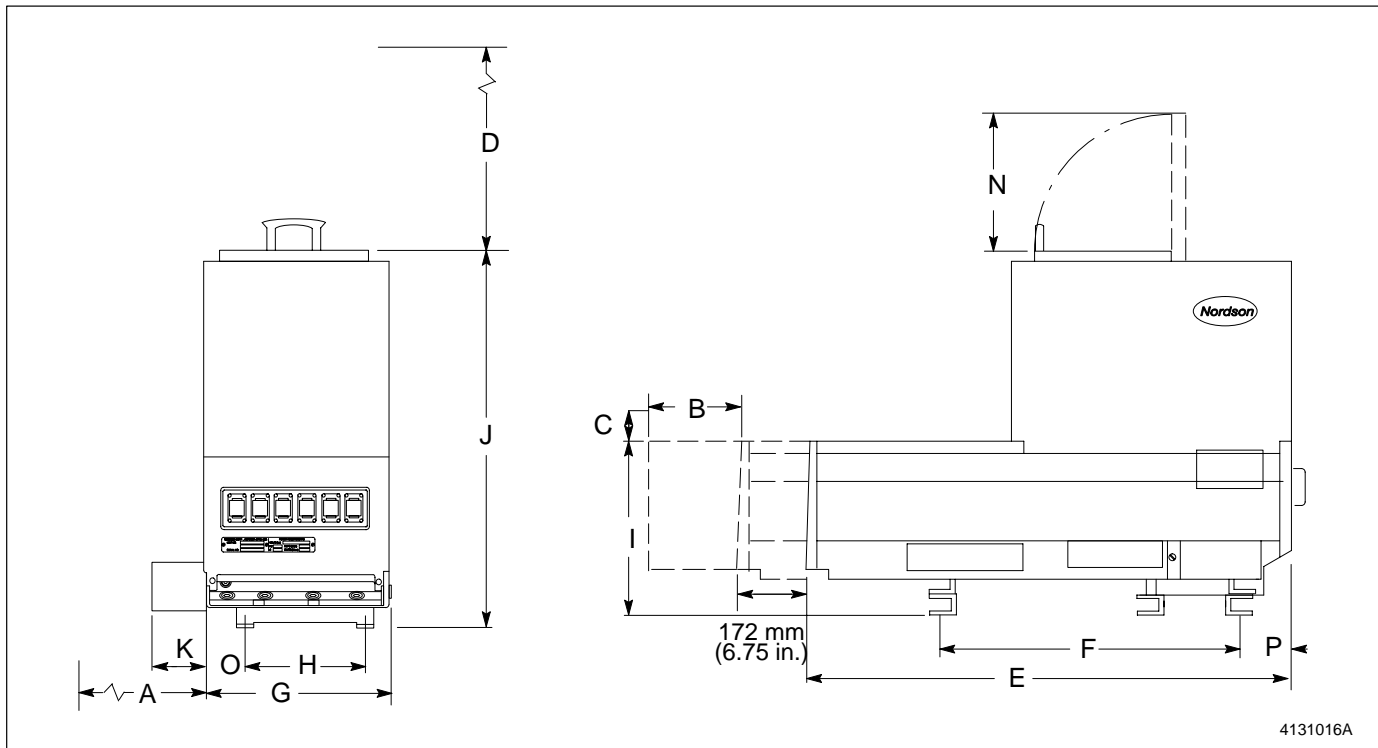
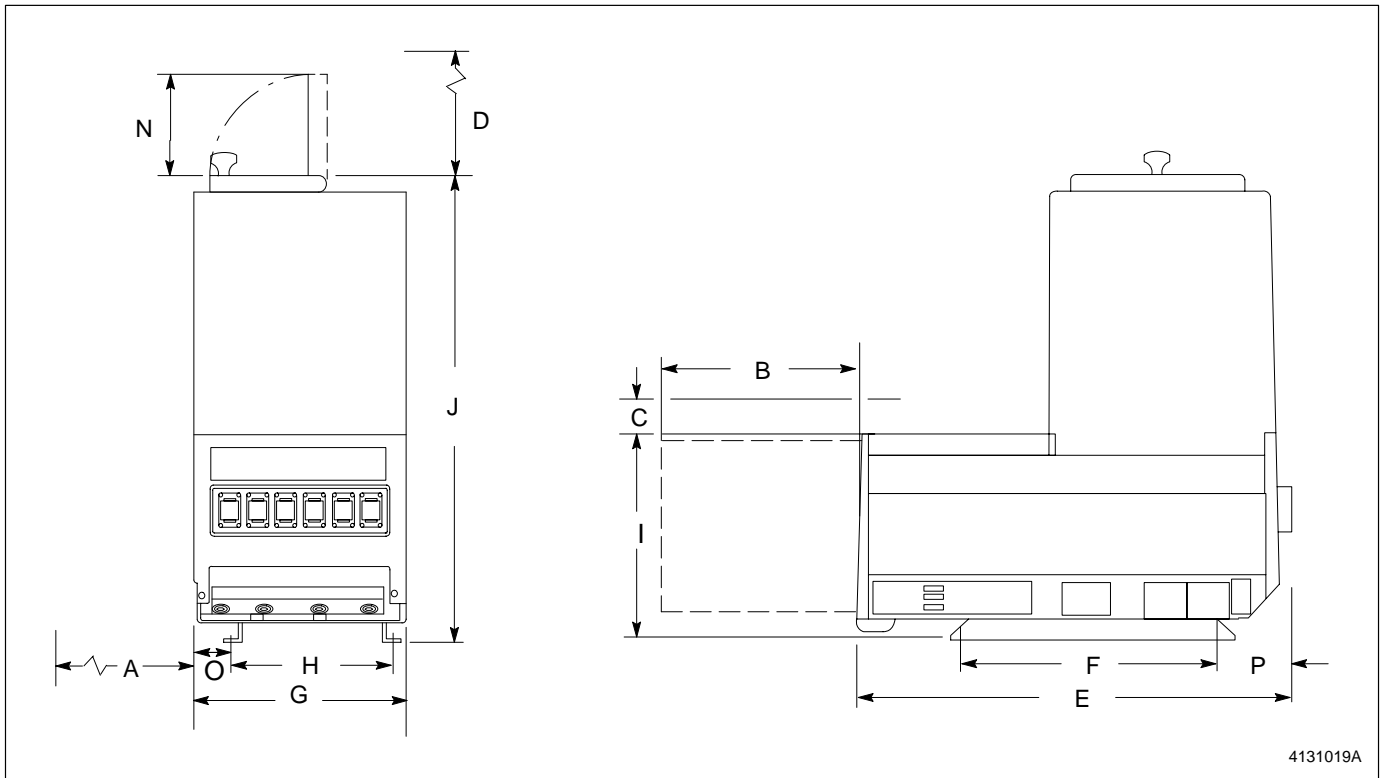


Fig. D 1-1 Series 3930 Piston Pump Melters

Melter Model	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	F (mm/in)	G (mm/in)	H (mm/in)
3930 PP	207 (8.16)	340 (13.38)	38 (1.50)	407 (16.03)	706 (27.80)	432 (17.00)	343 (13.50)	249 (9.80)
3930 AC	207 (8.16)	340 (13.38)	38 (1.50)	407 (16.03)	706 (27.80)	432 (17.00)	343 (13.50)	249 (9.80)
	I (mm/in)	J (mm/in)	K (mm/in)	L (mm/in)	M (mm/in)	N (mm/in)	O (mm/in)	P (mm/in)
3930 PP	322 (12.69)	764 (30.06)	54 (2.13)			152 (6.00)	62 (2.44)	110 (4.32)
3930 AC	322 (12.69)	764 (30.06)	54 (2.13)			152 (6.00)	62 (2.44)	110 (4.32)

**NOTE:** Be sure to provide sufficient clearance room when installing the melter to allow access to the enclosure door, enclosure lid, pump cover and filter assembly.



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Fig. D 1-2 Series 3930 AC Gear Pump Melters

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## **2. Procedure for Calculating Hose/Gun Capacity**

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When you connect hoses and guns to your melter, you must make sure the electrical power requirements of those hoses and guns do not exceed the maximum wattages allowed for your system. Exceeding the maximum wattage can damage your equipment.

For every Series 3000 system, there are four maximum wattages you must not exceed:

- **The single-component maximum wattage:** the wattage of any single hose or gun connected to a power module must not exceed this wattage.
- **The hose/gun pair maximum wattage:** the wattage of any hose and gun (hose/gun pair) connected to a power module must not exceed this wattage.
- **The power module maximum wattage:** the wattage of any two hoses and two guns (two hose/gun pairs) connected to a power module must not exceed this wattage.
- **The total hose/gun maximum wattage:** the wattage of all hoses and guns connected to the melter must not exceed this wattage.

To make sure your system does not exceed the maximum allowable wattages, someone (either you or your Nordson representative) must calculate the hose/gun capacity for your system. If your Nordson representative has already made this calculation for the actual hoses and guns you plan to use, you do not need to repeat the calculation now. However, you must make this calculation

- if the hose/gun capacity has not been calculated for your system
- if you have reconfigured your system since the calculations were made
- whenever you add new hoses or guns to an existing system
- whenever you replace an existing hose with a longer one or an existing gun with a larger one

**Calculating Hose/Gun Capacity**

Follow this procedure whenever you need to calculate the hose/gun capacity for any Series 3000 system.

1. Determine which of the following types of electrical service is connected to your melter:

Type of System	Types of Electrical Service that can be Connected
200 VAC system	200 VAC 1Ø 200 VAC 3Ø (without neutral)
220 VAC system	220 VAC 1Ø 220 VAC 3Ø (without neutral) 380/220 3Ø (with neutral)
230 VAC system	230 VAC 1Ø 230 VAC 3Ø (without neutral) 400/230 3Ø (with neutral)
240 VAC system	240 VAC 1Ø 240 VAC 3Ø (without neutral) 415/240 3Ø (with neutral)
400 VAC system	400 VAC 3Ø

**Calculating Hose/Gun Capacity** *(contd.)*

- Use Table D 1-3 and record the wattages in Table D 1-1 for the hoses and guns you wish to connect to your melter. An example is provided as Table D 1-2.

Table D 1-1 Hose/Gun Wattages for Your System

Power Module	Hose or Gun Zone Number	Type of Hose or Gun	Wattage of Hose or Gun from Table D 1-3	Total Wattages
Power module 1	Hose 1			
	Gun 1			
	Hose 2			
	Gun 2			
<b>Total wattage for power module 1</b>				
Power module 2	Hose 3			
	Gun 3			
	Hose 4			
	Gun 4			
<b>Total wattage for power module 2</b>				
Power module 3	Hose 5			
	Gun 5			
	Hose 6			
	Gun 6			
<b>Total wattage for power module 3</b>				
<b>Total wattage for all hoses and guns (sum of the total wattage for all power modules)</b>				

**EXAMPLE:** A Series 3700 6-hose DC gear pump melter is connected to a 240 VAC 3Ø (without neutral) power supply. The user wishes to connect the hoses and guns shown in Table D 1-2.

Table D 1-2 Hose/Gun Wattages for the Example Series 3700 System

Power Module	Hose or Gun Zone	Hose or Gun Type	Hose or Gun Wattage from Table D 1-3	Total Wattages
Power module 1	Hose 1	24 ft hose	691 W	974 W
	Gun 1	H-204 gun	283 W	
	Hose 2	24 ft hose	691 W	920 W
	Gun 2	H-202 gun	229 W	
<b>Total wattage for power module 1</b>				<b>1894 W</b>
Power module 2	Hose 3	6 ft hose	169 W	398 W
	Gun 3	H-202 gun	229 W	
	Hose 4	10 ft hose	289 W	572 W
	Gun 4	H-204 gun	283 W	
<b>Total wattage for power module 2</b>				<b>970 W</b>
Power module 3	Hose 5	24 ft hose	691 W	1131 W
	Gun 5	H-208 gun	440 W	
	Hose 6	24 ft hose	691 W	1131 W
	Gun 6	H-208 gun	440 W	
<b>Total wattage for power module 3</b>				<b>2262 W</b>
<b>Total wattage for all hoses and guns (sum of the total wattage for all power modules)</b>				<b>5126 W</b>

**Calculating Hose/Gun Capacity** (contd.)

Table D 1-3 Wattages for Nordson Hoses and Guns

Hose or Gun Type (See Note A)	Type of Electrical Service Connected to the Melter (See Note B)				
	200 VAC System (See Note C)	220 VAC System	230 VAC System	240 VAC System	400 VAC System
Automatic hose (0.6 m, 2 ft)	<b>45</b>	41	45	49	45
Automatic hose (1.2 m, 4 ft)	<b>100</b>	92	100	109	100
Automatic hose (1.8 m, 6 ft)	<b>155</b>	141	155	169	155
Automatic hose (2.4 m, 8 ft)	<b>205</b>	188	205	223	205
Automatic hose (3 m, 10 ft)	<b>265</b>	242	265	289	265
Automatic hose (3.6 m, 12 ft)	<b>315</b>	288	315	343	315
Automatic hose (4.8 m, 16 ft)	<b>420</b>	384	420	457	420
Automatic hose (7.2 m, 24 ft)	—	581	635	691	635
Manual hose (2.4 m, 8 ft)	<b>205</b>	188	205	223	205
Manual hose (4.8 m, 16 ft)	<b>420</b>	384	420	457	420
H-201 gun (T or T-L)	125	128	140	152	140
H-202 gun (T or T-L)	<b>210</b>	192	210	229	210
H-204 gun (T or T-L)	235	237	260	283	260
H-208 gun (T or T-L)	365	371	405	440	405
H-202 gun (T-E or T-E-L)	330	307	335	365	335
H-204 gun (T-E or T-E-L)	320	320	350	381	350
H-202 gun (T-LP or T-LP-L)	170	169	185	201	185
H-204 gun (T-LP or T-LP-L)	260	261	285	310	285
H-208 gun (T-LP or T-LP-L)	350	357	390	424	390
H-20 gun (T or T-L)	<b>180</b>	124	135	147	135
H-20 gun w/micro (T)	150	146	160	174	160

NOTE A: This table lists the power requirements for only the most common Nordson hoses and guns. If you do not find the hose or gun you are using, contact your Nordson representative for wattage information.

B: Actual line voltage in a plant may vary from nominal voltage by as much as ±15%. To calculate the actual power requirements at other line voltages, use the following formula:

$$PL = PN \times \left[ \frac{EL}{EN} \right]^2$$

In this formula, PL is the wattage at line voltage, PN is the wattage at nominal voltage, EL is the line voltage, and EN is the nominal voltage.

C: The wattages in bold-face type are for hoses or guns specifically designed for 200 VAC operation.

3. Compare the total wattages you calculated in step 2 to the maximum allowable wattages in Table D 1-4. If any wattage is exceeded, then the hose/gun configuration must be modified, either by changing the configuration or by changing the hoses and guns used. An example follows Table D 1-4.

Table D 1-4 Maximum Allowable Wattages for a Single Component, a Hose/Gun Pair, and a Power Module

Item	200 VAC System	220 VAC System	230 VAC System	240 VAC System	400 VAC System
Maximum for a single component (one hose or one gun)	870 W	957 W	1000 W	1043 W	1000 W
Maximum for a hose and gun pair (one hose and one gun)	1071 W	1179 W	1233 W	1286 W	1233 W
Maximum for a power module (two hoses and two guns)	1740 W	1913 W	2000 W	2086 W	2000 W

**EXAMPLE:** In the example from step 2, no hose or gun exceeds the single-component maximum of 1043 W (the closest is the 24 ft hose at 691 W).

Also, no hose/gun pair exceed the hose/gun pair maximum of 1286 W (the closest is in power module 3, where hoses and guns 5 and 6 each equal 1131 W).

However, the total wattage of power module 3 exceeds the power module maximum of 2086 W. This problem can be solved by rearranging hoses and guns 4 and 6 between power modules 2 and 3 as shown in Table D 1-5. The changes are shown in italics.

**Calculating Hose/Gun Capacity** (contd.)

Table D 1-5 Rearranged Hose/Gun Wattages for the Example Series 3700 System

Power Module	Hose or Gun Zone Number	Type of Hose or Gun	Wattage of Hose or Gun from Table D 1-3	Total Wattages
Power module 1	Hose 1	24 ft hose	691 W	974 W
	Gun 1	H-204 gun	283 W	
	Hose 2	24 ft hose	691 W	920 W
	Gun 2	H-202 gun	229 W	
<b>Total wattage for power module 1</b>				1894 W
Power module 2	Hose 3	6 ft hose	169 W	398 W
	Gun 3	H-202 gun	229 W	
	Hose 4	24 ft hose	691 W	1131 W
	Gun 4	H-208 gun	440 W	
<b>Total wattage for power module 2</b>				1529 W
Power module 3	Hose 5	24 ft hose	691 W	1131 W
	Gun 5	H-208 gun	440 W	
	Hose 6	10 ft hose	289 W	572 W
	Gun 6	H-204 gun	283 W	
<b>Total wattage for power module 3</b>				1703 W
<b>Total wattage for all hoses and guns (sum of the total wattage for all power modules)</b>				5126

- The last step is to ensure that the total hose/gun maximum wattage is not exceeded. Compare the total wattage for all power modules, which you calculated in step 2, to the maximum allowable wattage in the *Total Hose/Gun Maximum (W)* column in Table D 1-8, D 1-9, D 1-10, D 1-11, or D 1-12, whichever is appropriate for your system. These tables are contained in the next section, *Power Data Tables*. If the combined power module wattage of your system exceeds the maximum allowable wattage, you will need to reconfigure your system or order different hoses or guns. Contact your Nordson representative for assistance. An example follows this step.

**NOTE:** The other data in the power data tables is for reference only.

**EXAMPLE:** For the example melter from step 2, Table D 1-11 shows that the maximum allowable hose/gun wattage is 5386 W. The total wattage for the example melter is 5126 W, which does not exceed this limit. However, note C in Table D 1-11 indicates that the wattage for hoses and guns 1, 2, 5, and 6 must be less than 3300 W, which is exceeded in the example by power modules 1 and 3, which have a combined wattage of 3597 W. This problem can be solved by rearranging the hoses and guns between power modules 1 and 2 as shown in Table D 1-6. The changes are indicated in italics. After the rearrangement, power modules 1 and 3 have a combined wattage of 3232 W, which is less than the 3300 W limit.

Table D 1-6 Rearranged Hose/Gun Wattages for the Example Series 3700 System

Power Mod- ule	Hose or Gun Zone Number	Type of Hose or Gun	Wattage of Hose or Gun from Table D 1-3	Total Wattages
Power module 1	Hose 1	<i>6 ft hose</i>	<i>169 W</i>	398 W
	Gun 1	<i>H-202 gun</i>	<i>229 W</i>	
	Hose 2	24 ft hose	691 W	1131 W
	Gun 2	<i>H-208 gun</i>	<i>440 W</i>	
<b>Total wattage for power module 1</b>				1529 W
Power module 2	Hose 3	<i>24 ft hose</i>	<i>691 W</i>	974 W
	Gun 3	<i>H-204 gun</i>	<i>283 W</i>	
	Hose 4	24 ft hose	691 W	920 W
	Gun 4	<i>H-202 gun</i>	<i>229 W</i>	
<b>Total wattage for power module 2</b>				1894 W
Power module 3	Hose 5	24 ft hose	691 W	1131 W
	Gun 5	H-208 gun	440 W	
	Hose 6	10 ft hose	289 W	572 W
	Gun 6	H-204 gun	283 W	
<b>Total wattage for power module 3</b>				1703 W
<b>Total wattage for all hoses and guns (sum of the total wattage for all power modules)</b>				5126

**Power Data Tables**

Use the appropriate table in this section as directed in the previous procedure, *Calculating Hose/Gun Capacity*. Refer to Table D 1-7 to determine the appropriate table.

Table D 1-7 Guide for Determining Which Power Data Table to Use

<b>Type of Electrical Service Connected to Your Melter</b>	<b>Appropriate Power Data Table to Use</b>
200 VAC 1Ø 200 VAC 3Ø (without neutral)	Table D 1-8
220 VAC 1Ø 220 VAC 3Ø (without neutral) 380/220 3Ø (with neutral)	Table D 1-9
230 VAC 1Ø 230 VAC 3Ø (without neutral) 400/230 3Ø (with neutral)	Table D 1-10
240 VAC 1Ø 240 VAC 3Ø (without neutral) 415/240 3Ø (with neutral)	Table D 1-11
400 VAC 3Ø	Table D 1-12

Table D 1-8 Total Hose/Gun Maximum Wattages for 200 VAC 1Ø or 3Ø Systems (used primarily in Japan)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note B)	System Power Maximum (W)	Current	
						1Ø Amps 200 VAC	3Ø Amps 200 VAC
3100 PP	2	1, 3Ø	1740	1303	3043	15	13
	4	1, 3Ø	3480	1303	4783	24	21
3100 AC	2	1, 3Ø	1740	1737	3477	17	15
	4	1, 3Ø	3480	1737	5217	26	23
3400 PP	2	1, 3Ø	1740	1530	3270	16	14
	4	1, 3Ø	3480	1530	5010	25	22
3400 AC	2	1, 3Ø	1740	1965	3705	19	16
	4	1, 3Ø	3480	1965	5445	27	23
3400 DC	2	1, 3Ø	1740	2153	3893	19	17
	4	1Ø	3300	2153	5453	27	—
	4	3Ø	3480	2153	5633	—	25
3500 PP	2	1, 3Ø	1740	2135	3875	19	17
	4	1Ø	3300	2135	5435	27	—
	4	3Ø	3480	2135	5615	—	25
	6	3Ø	5220	2135	7355	—	25
3500 DC	2	1, 3Ø	1740	2758	4498	22	20
	4	1Ø	2700	2758	5458	27	—
	4	3Ø	3300	2758	6058	—	27
	6	3Ø	5140 (C)	2758	7898	—	27
3700 PP	2	1, 3Ø	1740	2891	4631	23	20
	4	3Ø	3480	2891	6371	—	20
	6	3Ø	5040 (D)	2891	7931	—	27

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 C: The total hose/gun maximum wattage for hoses/guns 1, 2, 3, and 4 must not exceed 3400 W.  
 D: The total hose/gun maximum wattage for hoses/guns 1, 2, 5, and 6 must not exceed 3300 W.

**Power Data Tables** (contd.)

Table D 1-8 Total Hose/Gun Maximum Wattages for 200 VAC 1Ø or 3Ø Systems (used primarily in Japan) (contd.)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note B)	System Power Maximum (W)	1Ø Amps 200 VAC	3Ø Amps 200 VAC
3700 DC	2	3Ø	1740	3515	5255	—	20
	4	3Ø	3480	3515	6995	—	23
	6	3Ø	5040 (C)	3515	8555	—	27
3830 AC	2	1, 3Ø	1740	2267	4007	20	17
	4	1Ø	3200	2267	5467	27	—
	4	3Ø	3480	2267	5747	—	25
3860 PP 3890 PP	2	1, 3Ø	1740	2891	4631	23	20
	4	3Ø	3480	2891	6371	—	20
	6	3Ø	5040 (C)	2891	7931	—	27
3860 AC 3890 AC	2	3Ø	1740	3326	5066	—	20
	4	3Ø	3480	3326	6806	—	22
3860 DC 3890 DC	2	3Ø	1740	3515	5255	—	22
	4	3Ø	3480	3515	6995	—	23
	6	3Ø	5040 (C)	3515	8555	—	27
3930 PP	2	3Ø	1740	2853	4593	—	14
	4	3Ø	3480	2853	6333	—	21
3930 AC	2	3Ø	1740	3288	5028	—	16
	4	3Ø	3480	3288	6768	—	22
3960 PP	2	3Ø	1740	5159	6899	—	22
	4	3Ø	3480	5159	8639	—	28
	6	3Ø	5220	5159	10379	—	32
3960 DC	2	3Ø	1740	5783	7523	—	23
	4	3Ø	3480	5783	9263	—	31
	6	3Ø	5220	5783	11003	—	35
AG-30 PP	2	1Ø, 3Ø	1740	2134	3874	19	17
	4	1Ø	3180	2134	5314	27	—
	4	3Ø	3480	2134	5614	—	25
	6	1Ø	4960	2134	7094	35	—
	6	3Ø	5220	2134	7354	—	32

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.

B: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.

C: The total hose/gun maximum wattage for hoses/guns 1, 2, 5, and 6 must not exceed 3300 W.

Table D 1-9 Total Hose/Gun Maximum Wattages for 220 VAC 1Ø, 220 VAC 3Ø (without neutral), and 380/220 3Ø (with neutral) Systems (used primarily in Europe)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 220 VAC	3Ø Amps 220 VAC	3Ø Amps 380/220 VAC
3100 PP	2	1, 3Ø	1913	1576	3489	16	14	9
	4	1, 3Ø	3826	1576	5402	25	22	17
3100 AC	2	1, 3Ø	1913	2102	4015	18	16	10
	4	1, 3Ø	3826	2102	5928	27	24	17
3400 PP	2	1, 3Ø	1913	1851	3764	17	15	9
	4	1, 3Ø	3826	1851	5677	26	23	17
3400 AC	2	1, 3Ø	1913	2377	4290	20	17	11
	4	1Ø	3500	2377	5877	27	—	—
	4	3Ø	3826	2377	6203	—	25	17
3400 DC	2	1, 3Ø	1913	2606	4519	21	18	12
	4	1Ø	3300	2606	5906	27	—	—
	4	3Ø	3826	2606	6432	—	25	17
3500 PP	2	1, 3Ø	1913	2583	4496	20	18	12
	4	1Ø	3300	2583	5883	27	—	—
	4	3Ø	3826	2583	6409	—	25	17
	6	3Ø	5739	2583	8322	—	25	20
3500 DC	2	1, 3Ø	1913	3338	5251	24	21	12
	4	1Ø	2700	3338	6038	27	—	—
	4	3Ø w/o N	3400	3338	6738	—	27	—
	4	3Ø w/N	3826	3338	7164	—	—	21
	6	3Ø w/o N	5313 (D)	3338	8651	—	27	—
	6	3Ø w/N	5739	3338	9077	—	—	21
3700 PP	2	1, 3Ø	1913	3498	5411	25	22	16
	4	3Ø	3826	3498	7324	—	22	17
	6	3Ø w/N	5213 (E)	3498	8711	—	27	—
	6	3Ø w/o N	5739	3498	9237	—	—	26

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 3, and 4 must be less than 3,400 watts.  
 E: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.

Continued on next page

**Power Data Tables** (contd.)

Table D 1-9 Total Hose/Gun Maximum Wattages for 220 VAC 1Ø, 220 VAC 3Ø (without neutral), and 380/220 3Ø (with neutral) Systems (used primarily in Europe) (contd.)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 220 VAC	3Ø Amps 220 VAC	3Ø Amps 380/220 VAC
3700 DC	2	3Ø	1913	4253	6166	—	22	19
	4	3Ø	3826	4253	8079	—	24	19
	6	3Ø w/o N	5213 (D)	4253	9466	—	27	—
	6	3Ø w/N	5739	4253	9992	—	—	26
3830 AC	2	1, 3Ø	1913	2743	4656	21	18	12
	4	1Ø	3300	2743	6043	27	—	—
	4	3Ø	3826	2743	6569	—	26	17
3830 AC	2	1, 3Ø	1913	2743	4656	21	18	12
	4	1Ø	3300	2743	6043	27	—	—
	4	3Ø	3826	2743	6569	—	26	17
3860 PP 3890 PP	2	1, 3Ø	1913	3498	5411	25	22	16
	4	3Ø	3826	3498	7324	—	22	17
	6	3Ø w/o N	5213 (D)	3498	8711	—	27	—
	6	3Ø w/N	5739	3498	9237	—	—	26
3860 AC 3890 AC	2	3Ø	1913	4024	5937	—	22	18
	4	3Ø	3826	4024	7850	—	23	18
3860 DC 3890 DC	2	3Ø	1913	4253	6166	—	22	19
	4	3Ø	3826	4253	8079	—	24	19
	6	3Ø w/o N	5213 (E)	4253	9466	—	27	—
	6	3Ø w/N	5739	4253	9992	—	—	26
3930 PP	2	3Ø	1913	3452	5635	—	14	9
	4	3Ø	3826	3452	7278	—	22	16
3930 AC	2	3Ø	1913	3978	5819	—	17	10
	4	3Ø	3826	3978	7804	—	23	16
3960 PP	2	3Ø	1913	6242	8155	—	25	17
	4	3Ø	3826	6242	10068	—	29	17
	6	3Ø	5739	6242	11981	—	33	20
3960 DC	2	3Ø	1913	6997	8910	—	25	17
	4	3Ø	3826	6997	10823	—	33	21
	6	3Ø	5739	6997	12736	—	36	21
AG-30 PP	2	1Ø, 3Ø	1913	2583	4496	20	18	12
	4	1Ø	3260	2583	5843	27	—	—
	4	3Ø	3826	2583	6409	—	25	17
	6	1Ø	5220	2583	7803	35	—	—
	6	3Ø	5739	2583	8322	—	33	20

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.  
 E: The total for hoses/guns 1, 2, 3, and 4 must be less than 2,700 watts.

Table D 1-10 Total Hose/Gun Maximum Wattages for 230 VAC 1Ø, 230 VAC 3Ø (without neutral) (used primarily in North America), and 400/230 VAC 3Ø (with neutral) (used primarily in Europe) Systems

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 230 VAC	3Ø Amps 230 VAC	3Ø Amps 400/230 VAC
3100 PP	2	1, 3Ø	2000	1723	3723	16	14	9
	4	1, 3Ø	4000	1723	5723	25	22	17
3100 AC	2	1, 3Ø	2000	2298	4298	19	16	10
	4	1, 3Ø	4000	2298	6298	27	24	17
3400 PP	2	1, 3Ø	2000	2023	4023	17	15	9
	4	1, 3Ø	4000	2023	6023	26	23	17
3400 AC	2	1, 3Ø	2000	2598	4598	20	17	11
	4	1Ø	3500	2598	6098	27	—	—
	4	3Ø	4000	2598	6598	—	25	17
3400 DC	2	1, 3Ø	2000	2848	4848	21	18	12
	4	1Ø	3300	2848	6148	27	—	—
	4	3Ø	4000	2848	6848	—	26	17
3500 PP	2	1, 3Ø	2000	2823	4823	21	18	12
	4	1Ø	3300	2823	6123	27	—	—
	4	3Ø	4000	2823	6823	—	26	17
	6	3Ø	6000	2823	8823	—	26	21
3500 DC	2	1, 3Ø	2000	3648	5648	25	21	12
	4	1Ø	2500	3648	6148	27	—	—
	4	3Ø w/o N	3400	3648	7048	—	27	—
	4	3Ø w/N	4000	3648	7648	—	—	21
	6	3Ø w/o N	5400 (D)	3648	9048	—	27	—
	6	3Ø w/N	6000	3648	9648	—	—	21
3700 PP	2	1, 3Ø	2000	3823	5823	25	22	17
	4	3Ø	4000	3823	7823	—	22	17
	6	3Ø w/o N	5300 (E)	3823	9123	—	27	—
	6	3Ø w/N	6000	3823	9823	—	—	26

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 3, and 4 must be less than 3,400 watts.  
 E: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.

*Continued on next page*

**Power Data Tables** (contd.)

Table D 1-10 Total Hose/Gun Maximum Wattages for 230 VAC 1Ø, 230 VAC 3Ø (without neutral) (used primarily in North America), and 400/230 VAC 3Ø (with neutral) (used primarily in Europe) Systems (contd.)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 230 VAC	3Ø Amps 230 VAC	3Ø Amps 400/230 VAC
3700 DC	2	3Ø	2000	4648	6648	—	22	20
	4	3Ø	4000	4648	8648	—	25	20
	6	3Ø w/o N	5300 (D)	4648	9948	—	27	—
	6	3Ø w/N	6000	4648	10648	—	—	26
3830 AC	2	1, 3Ø	2000	2998	4998	22	19	13
	4	1Ø	3300	2998	6298	27	—	—
	4	3Ø	4000	2998	6998	—	26	17
3860 PP 3890 PP	2	1, 3Ø	2000	3823	5823	25	22	17
	4	3Ø	4000	3823	7823	—	22	17
	6	3Ø w/o N	5300 (D)	3823	9123	—	27	—
	6	3Ø w/N	6000	3823	9823	—	—	26
3860 AC 3890 AC	2	3Ø	2000	4398	6398	—	22	19
	4	3Ø	4000	4398	8398	—	24	19
3860 DC 3890 DC	2	3Ø	2000	4648	6648	—	22	20
	4	3Ø	4000	4648	8648	—	25	20
	6	3Ø w/o N	5300 (D)	4648	9948	—	27	—
	6	3Ø w/N	6000	4648	10648	—	—	26
3930 PP	2	3Ø	2000	3773	5773	—	15	9
	4	3Ø	4000	3773	7773	—	22	17
3930 AC	2	3Ø	2000	4348	6348	—	17	11
	4	3Ø	4000	4348	8348	—	24	17
3960 PP	2	3Ø	2000	6823	8823	—	26	17
	4	3Ø	4000	6823	10823	—	30	17
	6	3Ø	6000	6823	12823	—	33	21
3960 DC	2	3Ø	2000	7647	9647	—	26	17
	4	3Ø	4000	7647	11647	—	33	21
	6	3Ø	6000	7647	13647	—	36	21
AG-30 PP	2	1Ø, 3Ø	2000	2823	4823	21	18	12
	4	1Ø	3300	2823	6123	27	—	—
	4	3Ø	4000	2823	6823	—	26	17
	6	1Ø	5340	2823	8163	35	—	—
	6	3Ø	6000	2823	8823	—	33	21

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.

Table D 1-11 Total Hose/Gun Maximum Wattages for 240 VAC 1Ø, 240 VAC 3Ø (without neutral), and 415/240 VAC 3Ø (with neutral) (used primarily in the British Commonwealth) Systems

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 240 VAC	3Ø Amps 240 VAC	3Ø Amps 415/240 VAC
3100 PP	2	1, 3Ø	2086	1876	3962	17	14	9
	4	1, 3Ø	4172	1876	6048	25	22	17
3100 AC	2	1, 3Ø	2086	2502	4588	19	17	10
	4	1Ø	3900	2502	6402	27	—	—
	4	3Ø	4172	2502	6674	—	24	17
3400 PP	2	1, 3Ø	2086	2203	4289	18	15	9
	4	1, 3Ø	4172	2203	6375	27	23	17
3400 AC	2	1, 3Ø	2086	2829	4915	20	18	12
	4	1Ø	3600	2829	6429	27	—	—
	4	3Ø	4172	2829	7001	—	25	17
3400 DC	2	1, 3Ø	2086	3101	5187	22	19	13
	4	1Ø	3300	3101	6401	27	—	—
	4	3Ø	4172	3101	7273	—	26	17
3500 PP	2	1, 3Ø	2086	3074	5160	22	19	13
	4	1Ø	3300	3074	6374	27	—	—
	4	3Ø	4172	3074	7246	—	26	17
	6	3Ø	6258	3074	9332	—	26	22
3500 DC	2	1, 3Ø	2086	3972	6058	25	22	13
	4	1Ø	2500	3972	6472	27	—	—
	4	3Ø w/o N	3400	3972	7372	—	27	—
	4	3Ø w/N	4172	3972	8144	—	—	21
	6	3Ø w/o N	5486 (D)	3972	9458	—	27	—
	6	3Ø w/N	6258	3972	10230	—	—	22
3700 PP	2	1, 3Ø	2086	4163	6249	26	23	17
	4	3Ø	4172	4163	8335	—	23	17
	6	3Ø w/o N	5386 (E)	4163	9549	—	27	—
	6	3Ø w/N	6258	4163	10421	—	—	26

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 3, and 4 must be less than 3,400 watts.  
 E: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.

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**Power Data Tables** (contd.)

Table D 1-11 Total Hose/Gun Maximum Wattages for 240 VAC 1Ø, 240 VAC 3Ø (without neutral), and 415/240 VAC 3Ø (with neutral) (used primarily in the British Commonwealth) Systems (contd.)

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power (See Note B)	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note C)	System Power Maximum (W)	Current		
						1Ø Amps 240 VAC	3Ø Amps 240 VAC	3Ø Amps 415/240 VAC
3700 DC	2	3Ø	2086	5061	7147	—	23	21
	4	3Ø	4172	5061	9233	—	26	21
	6	3Ø w/o N	5386 (D)	5061	10447	—	27	—
	6	3Ø w/N	6258	5061	11319	—	—	26
3830 AC	2	1, 3Ø	2086	3264	5350	22	19	14
	4	1Ø	3300	3264	6564	27	—	—
	4	3Ø	4172	3264	7436	—	27	17
3860 PP 3890 PP	2	1, 3Ø	2086	4163	6249	26	23	17
	4	3Ø	4172	4163	8335	—	23	17
	6	3Ø w/o N	5386 (D)	4163	9549	—	27	—
	6	3Ø w/N	6258	4163	10421	—	—	26
3860 AC 3890 AC	2	3Ø	2086	4789	6875	—	23	20
	4	3Ø	4172	4789	8961	—	25	20
3860 DC 3890 DC	2	3Ø	2086	5061	7147	—	23	21
	4	3Ø	4172	5061	9233	—	26	21
	6	3Ø w/o N	5386 (D)	5061	10447	—	27	—
	6	3Ø w/N	6258	5061	11319	—	—	26
3930 PP	2	3Ø	2086	4108	6194	—	15	9
	4	3Ø	4172	4108	8280	—	23	17
3930 AC	2	3Ø	2086	4734	6820	—	17	11
	4	3Ø	4172	4734	8906	—	25	17
3960 PP	2	3Ø	2086	7429	9515	—	27	18
	4	3Ø	4172	7429	11601	—	31	18
	6	3Ø	6258	7429	13687	—	34	22
3960 DC	2	3Ø	2086	8327	10413	—	27	18
	4	3Ø	4172	8327	12499	—	34	21
	6	3Ø	6258	8327	14585	—	37	22
AG-30 PP	2	1Ø, 3Ø	2086	3074	5160	22	19	13
	4	1Ø	3300	3074	6374	27	—	—
	4	3Ø	4172	3074	7246	—	26	17
	6	1Ø	5440	3074	8514	35	—	—
	6	3Ø	6258	3074	9332	—	34	22

NOTE A: PP stands for piston pump, AC stands for AC gear pump, and DC stands for DC gear pump.  
 B: W/o N means without neutral and w/N means with neutral.  
 C: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.  
 D: The total for hoses/guns 1, 2, 5, and 6 must be less than 3,300 watts.

Table D 1-12 Total Hose/Gun Maximum Wattages for 400 VAC 3Ø (used primarily in France) Systems

Melter Model (See Note A)	Hose/Gun Electrical Capacity	Type of Power	Total Hose/Gun Maximum (W)	Internal Component Power (W) (See Note B)	System Power Maximum (W)	Current (3Ø Amps 400 VAC)
3100 PP	2	3Ø	1000	1507	2507	4
3400 PP	2	3Ø	2000	2239	4239	7
	4	3Ø	2000	2239	4239	7
3500 PP	2	3Ø	2000	3125	5125	8
	4	3Ø	2000	3125	5125	8
	6	3Ø	2000	3125	5125	8

NOTE A: PP stands for piston pump.

B: The internal component power is the combined wattage of any of the following components your melter has: a tank, a motor, a grid, and a reservoir.

