

UNITROL SOLUTION Sizing Chart

SINGLE PHASE CONTROL SIZING CHART

WELDER PRIMARY VOLTAGE					MODEL NUMBERS		CABINET SIZE		
208 Volts	230 Volts	380 Volts	460 Volts	575 Volts	With Circuit Breaker	Without Protection	A	B	C
1-15 KVA	1-15 KVA	1-25 KVA	1-30 KVA	1-40 KVA	9180-990	9180-900	20	20	9
					-	9180M-900	-	-	8
					9180L-990	9180L-900	20	20	9
					9180D-990	9180D-900	20	20	9
16-30 KVA	16-35 KVA	26-50 KVA	31-65 KVA	41-80 KVA	9180-810	9180-800	20	20	9
					-	9180M-800	-	-	8
					9180L-810	9180L-800	20	20	9
					9180D-810	9180D-800	20	20	9
31-75 KVA	36-80 KVA	51-130 KVA	66-170 KVA	81-200 KVA	9180-620	9180-600	20	20	9
					-	9180M-600	-	-	14
					9180L-620	9180L-600	20	20	9
					9180D-620	9180D-600	20	20	9
76-120 KVA	81-130 KVA	131-200 KVA	171-250 KVA	201-325 KVA	9180-630	same as above	24	24	9
					9180L-630		24	24	9
					9180D-630		24	24	9
					-		-	-	-
121-200 KVA	131-250 KVA	201-450 KVA	251-500 KVA	326-600 KVA	9180-440	-	30	30	13
					9180L-440	-	30	30	13
					9180D-440	-	30	30	13
					-	9180-400	20	20	9
-	-	9180L-400	20	20	9				
-	-	9180D-400	20	20	9				

COMPLETE 1Ø RETROFIT SYSTEMS WITHOUT POWER CABINETS

For use with existing SCR Contactors..... 9180-SCO, 9180M-S00, 9180-S00

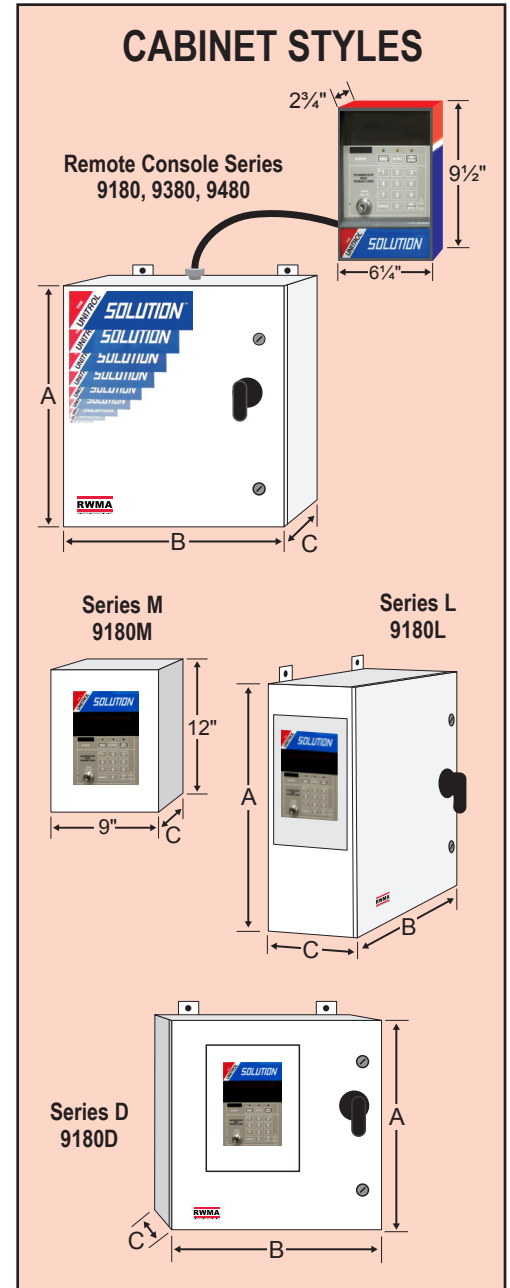
THREE PHASE CONTROL SIZING CHART

WELDER PRIMARY VOLTAGE				MODEL NUMBERS				CABINET SIZE		
208 & 230 Volts	380 Volts	460 Volts	575 Volts	FREQUENCY CONVERTER		D.C. SECONDARY		A	B	C
				With Circuit Breaker	Without Protection	With Circuit Breaker	Without Protection			
-	to 50 KVA	to 65 KVA	to 80 KVA	9380-610	-	9480-610	-	30	30	13
				-	9380-600	-	9480-600	24	24	13
to 75 KVA	51-130 KVA	66-170 KVA	81-200 KVA	9380-620	-	9480-620	-	30	30	13
				-	9380-600	-	9480-600	24	24	13
76-150 KVA	131-200 KVA	171-250 KVA	201-325 KVA	9380-430	-	9480-430	-	36	30	13
				-	9380-400	-	9480-400	30	30	13
151-200 KVA	201-450 KVA	251-500 KVA	326-600 KVA	9380-440	-	9480-440	-	36	36	13
				-	9380-400	-	9480-400	30	30	13

COMPLETE 3Ø RETROFIT SYSTEMS WITHOUT POWER CABINETS

Frequency Converter Control for use with existing SCR Contactors..... 9380-S00

3Ø D.C. Secondary Control for use with existing SCR Contactors 9480-S00



1. Find the **primary voltage** of your welder in the **red** area of the chart below.
2. Move **downward** from this **primary voltage** to the **blue** box that includes the KVA as shown on the nameplate of your welder.
3. From this point, move to the **right** for the **SOLUTION®** Model Number in the column that lists the desired **circuit protection** and **cabinet style** (see photos at right). Note that circuit breakers are recommended for most production welding systems.
EXAMPLE: The correct **single phase SOLUTION®** controls **with circuit breaker** protection for a **50 KVA** spot welder working at **460 volts** are: **#9180-810, 9180L-810, or 9180D-810** (depending on desired cabinet style).
4. Order this model number from your authorized **UNITROL** representative or distributor who will recommend control options.