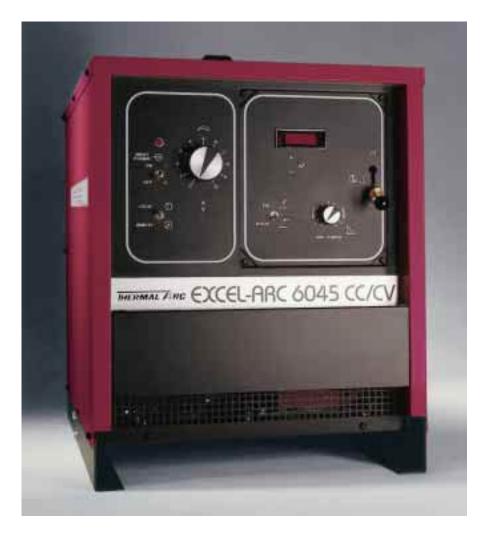


THERMAL FOR EXCEL-ARC[®] 6045 CC/CV THREE PHASE 450 AM PERE CONSTANT VOLTAGE; 400 AM PERE CONSTANT CURRENT.



The Thermal Arc® EXCEL-ARC® 6045 CC/CV is a combination stick and wire machine in one case. No sacrifices were made to either process. The digital meter is standard for preset welding conditions. A locking switch keeps the machine locked into the CC or CV mode, preventing any chance of slipping into a different mode while welding. All controls necessary to operate either process are on the front panel. All feeder connections and auxiliary power connections are on the rear panel keeping the front panel open for easy operator visibility. This user friendly unit is adaptable for input voltage from 200 through 575 volts on 60 Hz and 230/400 volts on 50 Hz. The input connections are easily connected. Arc characteristics are unsurpassed in terms of quality. Stick electrodes are easily run at low amperages.



MORE POWER TO YOU[™]

FEATURES/BENEFITS

Solid State Control. Gives closed loop voltage regulation on a single, protected, reliable (CAD) circuit board.

Volt and Amp Meters Standard.

Single Range Voltage Control. Entire unit output controlled by one low voltage potentiometer.

Built-In Wire Sharpening

Solid State Welding Contactor. Provides long life in repetitive welding applications.

Output Voltage Regulation. (line voltage compensation). Unit automatically monitors output voltage and makes required changes to compensate for line voltage fluctuation, machine drift, etc.

Built-In Overload Protection. Thermal overload with automatic reset on heat sink. Electronic overload circuit protects the SCR units against a shorted output.

Exceptional Dynamic Response. Gives superior lowend characteristics, arc starting and recovery.

Environmental Protection. All transformers, reactors and PC boards are dipped in sealant material to provide reliability in harsh environments.

Designed for Ease of Maintenance. All components are easily accessible and can be removed with normal hand tools. All control circuits are on one PC board. All connections to this board are made with multiple pin plugs.

Arc Force Control. Allows operator to dial in his arc characteristics.

Fan Thermostat Standard. Fan runs on demand.

AVAILABLE FILLER METALS

The high quality line of Thermal Arc filler metals meet a wide variety of application needs. Please contact Customer Service for more detailed information.

SPECIFICATIONS

OUTPUT RATING 60 HzRangeWelding Amps50-600Volts13-40Duty Cycle	450 38	CC 400 36 60%	Range 40-500
OUTPUT RATING 50 HzRangeWelding Amps50-600Volts13-40Duty Cycle	450	CC 500 40 40%	Range 40-600

AUXILIARY POWER DUPLEX RECEPTACLE

9 amps, 115VAC (circuit breaker protected for wire feeder and control

INPUT RATING		60 H	Ηz		50 H	Ηz
Line Voltage	200	230	460	575	230	400
Line Amps						
at rated load	87	76	38	30	77	44
at no load	6.9	6.0	3.0	2.4	3.0	1.8
Phase	3	3	3	3	3	3
Hertz	60	60	60	60	50/60	50/60
KVA	30.1	30.1	30.1	30.1	30.5	30.5
Power Factor At						
Rated Load	.75	.75	.75	.75	.8	.8
DIMENSIONS						
Length				3	1 in. (7	'87 mm)
Width						
Height with lifting eye						
147 1 1	,					(232 ka)

VVIUII	
Height with lifting eye	
Weight	
Approvals	Hz Model) NBMA EW-1, CSA
) NEMA EW-1, CE, IEC 974-1

ORDERING INFORM ATION

EXCEL-ARC 6045 CC/CV, 200/230/460/575, 3 phase, 60 Hz, 500015A-003

EXCEL-ARC 6045 CC/CV, 230/400, 3 phase, 50/60 Hz, 100002-003

Wire feeder compatibility: Model 17A, Porta-Feed 17A, 2210, 2410, Hefty CC/CV, Dual 2000, Digital 2000, Dual Digital 2000, all automatic panels.

Options:

Portable mounting w/o bottle rack 910230B-009 Portable mounting w/ bottle rack 910230B-008 Foot control 200460-007 Remote hand control 492330-009 25' 492330-010 50'

492330-011 100' Mala apple connector 20202

Male cable connector 203032

www.thermalarc.com www.thermadyne.com

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