

# **THERMAL ARC**

A THERMADYNE® Company

## **THERMAL ARC FABSTAR™ 4030 THREE PHASE 400 AMPERE CONSTANT VOLTAGE POWER SOURCE**



The Thermal Arc FABSTAR™ 4030 is a reliable, versatile, three phase constant voltage MIG power source. An output selector switch lets you choose either forceful or soft arc characteristics (inductance) for your application. Exceptional CV dynamic response gives superior low-end (short circuiting) characteristics, arc starting and recovery.

NEMA rated 400 amps at 60% duty cycle and 300 amps at 100% duty cycle, the FABSTAR provides excellent arc performance with solid wires in short circuit, globular and spray transfers – and with flux or metal cored wires in globular and spray transfer modes.

A standard 19-pin amphenol connector and dual auxiliary power outlets (115VAC, 10A circuit breaker protected) lets you use all Thermal Arc wire feeders.

Other standard features of the solid state FABSTAR include: single voltage range, solid state contactor, output voltage regulation (line voltage compensation), built-in overload protection, volt and amp meters, burnback, and environmental protection for optimum reliability in harsh environments.

# FEATURES/BENEFITS

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

**Volt and Amp Meters Standard Output Selector Switch.**

Lets you choose either forceful or soft arc characteristics (inductance) for your application.

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

**Built-in Burnback**

**Solid State Contactor.** No mechanical devices to open and close. 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 low-end characteristics, arc starting and recovery.

**Environmental Protection.** All transformers, reactors and PC boards are dipped in sealant material to provide optimum 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.



# SPECIFICATIONS

## OUTPUT RATING

Welding Amps	.....400	300
Volts	.....32	32
Duty Cycle	.....60%	100%

## WELD VOLTAGE RANGE

12 volts minimum to 35 volts maximum.

**AUXILIARY POWER DUPLEX RECEPTACLE:** 10 amps, 115 VAC (Circuit breaker protected for wire feeder & control)

## INPUT RATING

	300 amps, @ 32 volts			
Line Voltage	.....200	230	460	575
Line Amps at				
Rated Load	......44	38	19	15
Line Amps at				
at no load	......4.6	4	2.7	2.5
Phase	.....3			
Hertz	.....60			
KV	.....15.2			
Power Factor At Rated Load	......83%			

## DIMENSIONS

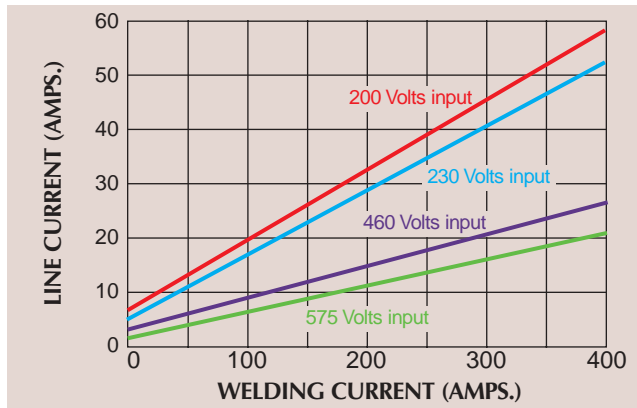
Length	......25-1/2" (64.8 cm)
Width	......19-1/8" (48.6 cm)
Height with lifting eye	......27-3/8" (69.5 cm)
Weight	......368 lbs. (167 kg)

**APPROVALS** .....NEMA EW-1, CSA

# ORDERING INFORMATION

- A. FABSTAR 4030 power source 100010A-001  
200 / 230 / 460 / 575 volts, 60 Hz, 3 Phase
- B. Wire Feeder compatibility: Model 17A,  
Porta-Feed 17A, 2210, 2410, Dual-Feeder.
- C. Portable mounting with bottle rack 910230B-007
- D. Optional Field installed fan thermostat kit 200155A

## AVERAGE INPUT LINE CURRENT (AMPS.)



www.thermarc.com  
www.thermadyne.com

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