

# Idealarc<sup>®</sup> R3R-400 & 500

Look to the R3R-400 and R3R-500 power sources from Lincoln Electric for your heavy-duty stick welding needs. Whether you are using cellulosic, low hydrogen, stainless steel or hardfacing electrodes, the Idealarc R3R-400 and R3R-500 produce smooth, quality arcs for consistent results day-in and day-out.

The R3R-400 and R3R-500 provide peace of mind with their traditional design for long life expectancy and low cost operation, calibrated current control knob for simple and easy procedure setting, and all weather protection including a powder paint finish for durability in the roughest environments. Need to do arc gouging? The R3R-400 and R3R-500 can help you do that too!

## Processes

Stick, TIG, Gouging



Output



Input



## Advantage Lincoln

- The R3R-400 and R3R-500 produce quality, low spatter, smooth arcs without pop-outs. Line voltage fluctuations of up to  $\pm 10\%$  are handled by the R3R compensation function to keep the output constant.
- Easy to operate. Calibrated current control knob makes procedure setting simple and easy. Polarity switch, voltmeter and ammeter are standard.
- Smooth arc makes it easy to weld with mild steel, low hydrogen, stainless steel and hardfacing electrodes.
- Stackable case design with built-in lift hook allows for easy storage and handling. Machines can be safely stacked three high to conserve floor space.
- Submersion dipped transformer assembly for added corrosion and moisture protection.
- Totally enclosed fan motor is permanently lubricated.
- Arc gouging is possible with the R3R-400 with up to 5/16" (7.9mm) diameter carbon electrode and R3R-500 with up to 3/8" (9.5mm) diameter carbon electrode.
- Both the R3R-400 and R3R-500 can be used for limited DC TIG welding – simply add TIG accessories and shielding gas.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Three-year warranty on parts and labor.
- Seven-year warranty on the power rectifier.

## TECHNICAL SPECIFICATIONS

| Product Name | Product Number | Input Power  | Rated Output Current/Voltage/Duty Cycle | Input Current @ Rated Output | Output Range             | Dimensions H x W x D inches (mm)        | Net Weight |
|--------------|----------------|--------------|---|------------------------------|--------------------------|---|------------|
| R3R-400      | K1285-16       | 230/460/3/60 | 400A / 36V / 60%                        | 74/37A                       | 60-500A<br>Max. OCV: 67V | 27.5 x 22.3 x 33.1<br>(699 x 566 x 841) | 402 (183)  |
| R3R-500      | K1286-16       |              | 500A / 40V / 60%                        | 88/44A                       | 72-625A<br>Max. OCV: 67V |   | 446 (203)  |

## RECOMMENDED OPTIONS

### GENERAL OPTIONS

#### Undercarriage

Platform undercarriage with mounting for two gas cylinders at rear of welder.

**Order K841**

### STICK OPTIONS

#### Accessory Kit – 400 Amp

For stick welding. Includes 35 ft. (10.7m) 2/0 electrode cable with lug, 30 ft. (9.1m) 2/0 work cable with lugs, headshield, filter plate, work clamp and electrode holder.

**Order K704**

#### Remote Output Control

For remote output of welding voltage. Consists of control box with 25 or 100 ft. (7.6 or 30m) of four conductor cable and 6 pin MS-type connector.

**Order K857 — 25 ft. (7.6m)**

**Order K857-1 — 100 ft. (30m)**

### TIG OPTIONS

#### Pro-Torch® TIG Torch

A full line of air-cooled and water-cooled torches available.

**Request Lincoln publication E12.150**

#### TIG Module

Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle. Requires TIG Module Control Cable.

**Order K930-2**

#### Docking Kit

Provides a means to "dock" the TIG Module on top of a flat surface measuring at least 10 x 15 in. (254 x 381mm). Includes a latch and provisions for a user-supplied padlock to lock the TIG Module in place.

**Order K939-1**

#### Hand Amptrol™

Provides 25 ft. (7.6m) of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch

**Order K963-3** (One size fits all Pro-Torch TIG Torches.)

#### Foot Amptrol™

Provides 25 ft. (7.6m) of remote output control for TIG welding. (6 pin plug connection).

**Order K870**

#### Contact Kit

Installs in the K930-2 TIG Module for use with welders without a contactor. Makes the TIG torch electrode electrically "cold" until the Amptrol is activated.

**Order K938-1**

#### Water Valve Kit

For use with a water-cooled TIG torch. Installs inside of TIG Module.

**Order K844-1**

#### Control Cable

Connects TIG Module to power source.

**Order K936-3** for 9-pin to 6-pin plus 115V.

#### Control Cable Extension

Allows the TIG Module to be operated at distances up to 200 ft. (61m) from the power source. Available in 45 ft. (13.7m) sections.

**Order K937-45**

#### Deluxe Adjustable Gas Regulator & Hose Kit

Accommodates CO<sub>2</sub>, argon, or argon-blend gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 4.3 ft. (1.3m) gas hose.

**Order K586-1**

## R3R-400 AND R3R-500 ORDER FORM

| PRODUCT DESCRIPTION                            | ORDER NUMBER            | QUANTITY | PRICE |
|--|-------------------------|----------|-------|
| R3R-400  | K1285-16                |          |       |
| R3R-500  | K1286-16                |          |       |
| <b>RECOMMENDED GENERAL OPTIONS</b>             |                         |          |       |
| Undercarriage                                  | K841                    |          |       |
| <b>RECOMMENDED STICK OPTIONS</b>               |                         |          |       |
| Accessory Kit (400 Amp)                        | K704                    |          |       |
| Remote Output Control, 25 ft.                  | K857                    |          |       |
| Remote Output Control, 100 ft.                 | K857-1                  |          |       |
| <b>RECOMMENDED TIG OPTIONS</b>                 |                         |          |       |
| Pro-Torch TIG Torches                          | See Publication E12.150 |          |       |
| TIG Module                                     | K930-2                  |          |       |
| – Docking Kit                                  | K939-1                  |          |       |
| – Hand Amptrol                                 | K963-3                  |          |       |
| – Foot Amptrol                                 | K870                    |          |       |
| – Contact Kit                                  | K938-1                  |          |       |
| – Water Valve Kit                              | K844-1                  |          |       |
| – Control Cable (9 pin to 6 pin and 115V plug) | K936-3                  |          |       |
| – Control Cable Extension – 45 ft.             | K937-45                 |          |       |
| Deluxe Adjustable Gas Regulator & Hose Kit     | K586-1                  |          |       |
| <b>TOTAL:</b>                                  |                         |          |       |

### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service.

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