



## TEMPERATURE CONTROLS



### NR SERIES, NON-INDICATING COMBINATION CONTROLS

MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. TRANS.	REPL. SENSOR P/N	SHIP WGT. Lbs./kg)
C-NR202	240	20	AHD-20-1	HDD50 2/1	NR25-5L	15
C-NR204	480	20	AHD-20-1	HDD50 4/1	NR25-5L	(6.8)
C-NR302	240	30	AHD-30-1	HDD50 2/1	NR25-5L	15
C-NR304	480	30	AHD-30-1	HDD50 4/1	NR25-5L	(6.8)
C-NR502	240	50	AHD-50-1	HDD50 2/1	NR25-5L	16
C-NR504	480	50	AHD-50-1	HDD50 4/1	NR25-5L	(7.3)
C-NR752	240	75	AHD-75-1	HD100 2/1	NR25-5L	22
C-NR754	480	75	AHD-75-1	HD100 4/1	NR25-5L	(10)
C-NR902	240	90	AHD-90-1	HD100 2/1	NR25-5L	24
C-NR904	480	90	AHD-90-1	HD100 4/1	NR25-5L	(10.9)
C-NR1202	240	120	AHD-120-1	HD100 2/1	NR25-5L	26
C-NR1204	480	120	AHD-120-1	HD100 4/1	NR25-5L	(11.8)
C-NR1502	240	150	AHD-150-1	HDD150 2/1	NR25-5L	32
C-NR1504	480	150	AHD-150-1	HDD150 4/1	NR25-5L	(14.5)

Combination control consists of gasketed plastic enclosure, thermostat, 3 pole contactor and transformer.



## NR Series, Combination Control Features and Benefits

### IMPROVES PROCESS CONTROL:

- ◆ Large, easy to read dial. Provides general control for consistent plating and etch rates in most aqueous processes.

### TEMPERATURE SENSOR:

- ◆ Fluoropolymer (FEP) covered 5-foot (1.5m) copper bulb and capillary included standard with the control. Provides extended service in corrosive liquids. Ethylene glycol filled system.

### CORROSION RESISTANT ENCLOSURE:

- ◆ NEMA 1, IP21, flame retardant and gasketed plastic enclosure with stainless steel hardware.

### CAPACITIES:

- ◆ Large switching capacities from 20 to 150 amps for up to 600 volts.
- ◆ Adjustable temperature range from 30°F(-1°C) to 220°F(104°C).
- ◆ ± 5°F accuracy.
- ◆ 30°F(-1°C) to 150°F(65°C) ambient temperature range.
- ◆ Single or three phase.
- ◆ Control transformer included.

### CERTIFICATIONS: cULus.

### SAFETY FEATURES:

- ◆ Pre-wired P1 terminal blocks.

### OPTIONS AVAILABLE (consult factory):

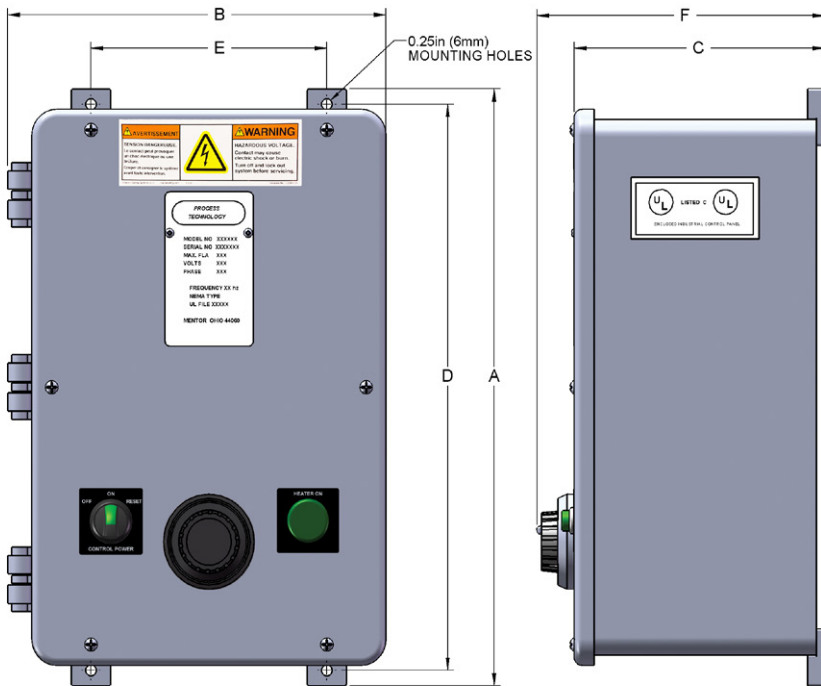
- ◆ 200°F to 550°F temperature range.
- ◆ 12-foot (3.6mm) sensors.
- ◆ P2, P3 or P8 thermal protection systems.
- ◆ Integrated liquid level control components.
- ◆ Front panel mounted digital timers.
- ◆ Pre-wired outlets for plug-in heaters (some sizes).
- ◆ Ground fault protection of equipment (GFPE) circuitry.

Your Distributor:

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## DIMENSIONS



Dimensions	20-50 Amps	75-90 Amps	120-150 Amps
A	14.375" (365mm)	16.04" (408mm)	18.04" (458mm)
B	9.63" (245mm)	14.04" (357mm)	16.04" (408mm)
C	6.25" (159mm)	9.28" (236mm)	9.28" (236mm)
D	13.625" (346mm)	15.27" (388mm)	17.27" (439mm)
E	6" (152mm)	10.56" (268mm)	12.56" (319mm)
F	7.25" (184mm)	10.28" (261mm)	10.28" (261mm)

\*Box dimensions may vary with options.

## NR COMBINATION CONTROL ORDERING INFORMATION

Control Type	Series	Amperes	Voltage	Control Option	Standard Options
C - Combo	NR	20 30 50 75 90 120 150	2 - 240 3 - 380 4 - 480 5 - 415 6 - 600 7 - 400 8 - 208 9 - 220 0 - 200	E = Easyplug	-12 = 12 foot sensor -H = High temp range -P2 = thermal protector 2 circuitry -P3 = thermal protector 3 circuitry -P8 = thermal protector 8 circuitry -LC** = conductive liquid level -ESP** = capacitive liquid level -D = digital timer -G = ground fault protection

### ORDERING EXAMPLE:

C-NR302-P2  
NR combination control, 30 amps, 240 volt, P2 thermal protection.

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