# 5551
# IGNITRON
## SIZE B

### DATA

**General:**

| | |
|---|---|
| Peak Voltage Drop | 12 volts |
| Cooling: | |
| Type | Water |
| Minimum Flow | 1 gallon/minute |
| Maximum Outlet Water Temperature | 40°C |
| Minimum Inlet Water Temperature | 10°C |
| Pressure Drop per tube, at Min. Flow | 1.6 lb./sq.in. |
| Temp. Rise at Minimum Flow (Average current 40 amp/anode) Approx. | 2°C |
| Mounting Position | Vertical, Flexible Lead Up |
| Max. Rigid Length (Approx.) | 13-1/2" |
| Max. Diameter, including Cooling Connections | 5-3/4" |

### AC WELDER-CONTROL SERVICE®

Ratings are for any voltage from 250 to 600 volts rms at frequencies from 25 to 60 cycles

**Maximum Ratings,** Absolute Values:

| | | |
|---|---|---|
| DEMAND | 600 max. | kva |
| CORRESPONDING AVERAGE ANODE CURRENT | 30.2 max. | amp |
| AVERAGE ANODE CURRENT | 56 max. | amp |
| CORRESPONDING DEMAND | 200 max. | kva |
| TIME OF AVERAGING ANODE CURRENT: | | |
| At 500 volts rms | 9 max. | sec |
| At 250 volts rms | 18 max. | sec |
| SURGE ANODE CURRENT | ■ peak | amp |
| PEAK POSITIVE IGNITOR VOLTAGE § | 900 max.<br>200 min. | volts<br>volts |
| PEAK NEGATIVE IGNITOR VOLTAGE | 5 max. | volts |
| PEAK IGNITOR CURRENT § | 100 max.<br>30 min. | amp<br>amp |
| AVERAGE IGNITOR CURRENT* | 1 max. | amp |
| IGNITION TIME § | 100 max. | μsec |

CURVES FOR THE 5551 IN THIS CLASS OF SERVICE ARE SHOWN UNDER TYPE 5550

### INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles

**Maximum Ratings,** Absolute Values:

| | | |
|---|---|---|
| PEAK FORWARD ANODE VOLTAGE | 500 max. | volts |
| PEAK INVERSE ANODE VOLTAGE | 500 max. | volts |
| PEAK ANODE CURRENT | 700 max. | amp |
| AVERAGE ANODE CURRENT# | 40 max. | amp |
| SURGE ANODE CURRENT for 0.15 sec. max. | 8000 max. | amp |

*, ■, §, ●, #: See next page.

5551

# 5551
# IGNITRON

| | | |
|---|---|---|
| PEAK POSITIVE IGNITOR VOLTAGE § | 900 max. | volts |
| | 200 min. | volts |
| PEAK NEGATIVE IGNITOR VOLTAGE | 5 max. | volts |
| PEAK IGNITOR CURRENT § | 100 max. | volts |
| | 30 min. | volts |
| AVERAGE IGNITOR CURRENT | 1 max. | amp |
| IGNITION TIME § | 100 max. | μsec |

* Averaged over any 5-second interval.
\# Averaged over any 3-second interval.
■ Must be limited to 280% of maximum rms demand current.
● RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.
§ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignitor ignition time.