



# Greybody Source & QuickCal Blackbody

## Models 975 and 550-02

When the high accuracy of Isotech's superior Blackbody Sources is not necessary these two products offer cost effective solutions for the calibration and testing of infra red thermometers. The QuickCal Blackbody is ideal for rapid and portable checking of infrared thermometers with an emissivity of 0.99 or greater or adjustable emissivity units. The Greybody Model 975 gives fast accurate results with a larger sensing area, for fixed emissivity units typically at 0.95.

A temperature sensor sits just under the target surface and controls the temperature of the source. A custom designed surface sensor is used to set the controller calibration and a NIST traceable certificate is supplied with each source. Either model can be programmed for Fahrenheit operation, at time of order, or in the field.

### SPECIFICATIONS

|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| <b>Blackbody Model</b>     | 550-02                                                                |
| <b>Temperature Range</b>   | 30°C to 350°C                                                         |
| <b>Display Resolution</b>  | 0.1°C                                                                 |
| <b>Time to Temperature</b> | 9 minutes                                                             |
| <b>Target Size</b>         | 25 x 115mm Cavity with end cone                                       |
| <b>Stability</b>           | ±0.5°C                                                                |
| <b>Accuracy</b>            | ±1°C                                                                  |
| <b>Emissivity</b>          | >0.99 Surface coating 0.98 - cavity gives overall emissivity of >0.99 |
| <b>Power</b>               | 110 VAC ±10%<br>300W                                                  |
| <b>Dimensions</b>          | 65mm x 152mm x 175mm (HxWxD)                                          |
| <b>Weight</b>              | 3.3 lbs (1.5kg)                                                       |

### ACCESSORIES

|           |                     |
|-----------|---------------------|
| 931-22-66 | Optional Carry Case |
|-----------|---------------------|

### HOW TO ORDER

|                 |                   |
|-----------------|-------------------|
| 550-02 QuickCal | Black Body Source |
|-----------------|-------------------|

### SPECIFICATIONS

|                            |                               |
|----------------------------|-------------------------------|
| <b>Greybody Model</b>      | 975                           |
| <b>Temperature Range</b>   | 50°C to 350°C                 |
| <b>Display Resolution</b>  | 0.1°C                         |
| <b>Time to Temperature</b> | 35 minutes                    |
| <b>Target Size</b>         | 70mm Diameter                 |
| <b>Stability</b>           | ±0.5°C                        |
| <b>Accuracy</b>            | ±2°C                          |
| <b>Emissivity</b>          | >0.95                         |
| <b>Power</b>               | 180 Watts<br>110 VAC ±10%     |
| <b>Dimensions</b>          | 115mm x 230mm x 225mm (HxWxD) |
| <b>Weight</b>              | 8.6 lbs (3.9kg)               |

### HOW TO ORDER

|                     |
|---------------------|
| 975 Greybody Source |
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