

Since 1963

Aug. 2007

Bakery & Snack Foods Catalog



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PCS-3000 Proofer Control System

Eliminate Proofer Temperature & Humidity Problems Forever!

Designed for retrofitting your existing proof box or fermentation room, the Cooke PCS-3000 state of the art control system eliminates all of the problems associated with wet/dry bulb control systems.

1. Maintenance is virtually eliminated.
2. Better product quality and consistency.
3. Reduced product waste & lost production.
4. Closer control reduces fuel consumption.
5. Eliminates unnecessary sling psychrometer checks.
6. Troublesome start up condensate is prevented by a built in humidity lock out feature.

Your Plant Electrician can easily install the PCS-3000 following these three simple steps:

1. Drill a 1/2" hole through the side of the return duct and mount the combination temperature/humidity sensor using only two screws.
2. Mount Nema 4X control box at any convenient location, connect AC power and pre-wired sensor cable.
3. Install four control wires from terminal strip in control box to control valves.

You're proofing in a matter of minutes! Leave your old system in place and run it parallel with the PCS-3000 for a short time. This will allow production personnel to become acquainted with direct RH readings rather than interpolating from a psychrometric chart. The PCS-3000 is maintenance free and flexible. It can be field wired to control solenoid valves, proportional pneumatic or electric motor actuated valves. You can easily add a recorder at any time.

SCORES OF BAKERIES from Kissimmee, Florida to Anchorage, Alaska have discovered and are using the "Cooke PCS series Proofer Control System."

Industry Leaders such as:

Flowers	Sara Lee
Stroehmann	Interstate
Meyer's	George Weston
Nissen	Northeast Foods



have installed the "Cooke" system over the past fifteen years. Scores of other independent and progressive bakeries in both the United States and Canada are satisfied customers.

Join the many users of this trouble free and easy to install pre-wired system. We're so sure that you'll be glad you did, we make this unconditional guarantee:

"If you are unhappy with your purchase for any reason after a 30-day trial period, simply return the system and we will cancel the invoice."

RTS-800 Dough Temperature Monitor

The Cooke Model RTS-800 Dough Temperature Monitor is the latest electronic tool developed by the Cooke Co. to help the baking industry improve product quality, reduce product loss and prevent costly downtime. Almost every production manager can relate horror stories about pocket thermometers being gobbled up by rising dough or accidentally being left in the dough and sent through the dough pump or divider, ruining an entire batch.

Our RT-888 dough probe is pressed fit together eliminating the possibility of loose screws or nuts, and is equipped with a heavy duty coiled cord capable of extending up to twelve feet away from the control system. For added safety and durability, it also is equipped with a twelve foot stainless steel rope tether for securing to the dough system or the wall to prevent the sensor from being transported to the divider or pump. Smaller diameter probes are available for measuring the temperature of baked products.

A Nema 4X polycarbonate enclosure (stainless steel optional) houses a bright LED display easily visible from 20 ft. away. The solid state readout with one tenth degree resolution assures an accurate, repeatable reading every time. The unit can be recalibrated in seconds without any tools to agree with your standard thermometer, if you wish. An optional data logging device can be added to download up to 32,000 readings or "samples" to your company's personal computer.

We also offer the IRTDS-500 infrared dough system for non-contact temperature measurement. The Nema 4X IR sensor can be mounted permanently above a dough hopper for instantaneous surface temperature on your product. Call for more information.

All spare parts for the RTS-800 dough system are stocked at Cooke Co. for immediate shipping, including the RT-888 replacement probes and RT-811 digital temperature displays.

Whichever method you choose, contact or non-contact a small investment today can prevent a costly mishap tomorrow!



HM70 Hand-held Humidity and Temperature Meter

The HM70 is a user-friendly meter for demanding spot-checking temperature humidity measurements. The HM70 is ideal for field checking and calibration of Vaisala's fixed humidity instruments such as the HMP230 Series Transmitters.

Three probes are available:

- HMP75 general-purpose probe
- HMP76 long, stainless steel probe, especially suitable for spot-checking in ducts
- HMP77 with a small sensor head at the end of a 5-meter cable, ideal for difficult to reach areas and for on-site calibration of Vaisala's process transmitters.

The HM70 features a multilingual, menu-based user interface, and a clear graphical LCD display. Three measurement parameters can be displayed and logged into the meter's memory at the same time. An analog output option is also available.

Technical specifications

Measurement range

0...100 %RH

Accuracy against salt solutions

±2 %RH (0...90 %RH)

±3 %RH (90...100 %RH)

Max. accuracy against high quality certified standards

±1 %RH (0...90 %RH)

±2 %RH (90...100 %RH)

Temperature measurement range

HMP75 -20...+60 °C

HMP76 -50...+120 °C

short time -50...+180 °C

HMP77 -70...+180 °C



Call for pricing

Electric Heaters

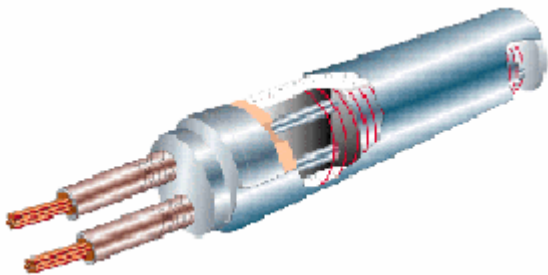
Tubular & Finned Tubular Elements For Baking Ovens

- ❖ Flexible application possibilities.
- ❖ Tubular applications: clamp-on, wrap-around, immersion, convection or radiant heating, defrost, ovens.
- ❖ Finned tubular applications: natural convection or forced draft space heating, industrial process air heating, preheat & reheat.
- ❖ Custom designs to fit the job.
- ❖ Over 600 stock designs.
- ❖ 10 sheath materials available.
- ❖ Options: 16 different terminations, insulators and seals, special fittings and mounting plates.
- ❖ UL and CSA Recognized.

Ruggedly constructed, high watt density Hi Temp Cartridge heaters provide excellent heat transfer efficiency, high operating temperatures and long life. Its swaged construction allows for minimal air gaps providing resistance to impact and vibration

Hi-Temp Cartridge Heaters For Packaging

Ruggedly constructed, high watt density Hi Temp Cartridge heaters provide excellent heat transfer efficiency, high operating temperatures and long life. Its swaged construction allows for minimal air gaps providing resistance to impact and vibration.



Features and Benefits:

- ❖ Withstands internal temperatures of up to 1600 degrees F (871 C)
- ❖ Efficient dissipation of heat
- ❖ Resistant to impact and vibration
- ❖ Dual voltage, selected diameters

See the following pages for a list of heaters and for specific packaging machine manufacturers.

PACKAGING HEATERS & SENSORS FOR HAYSSEN, SANDIACRE, AMI, NORDSON AND WOODMAN PACKAGING MACHINES

Hayssen Parts:

3/8" OD x 6.5" immersion (7" OAL) cart heater with 30" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange (125W-120V) **equal to Hayssen #10327A1087----- call for price**

3/8" OD x 17" immersion (17.5" OAL) cart heater with 30" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange, 600W-120V **equal to Hayssen #10327A0882----- call for price**

3/8" OD x 19.75" (20.375" OAL) cart heater with 30" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange, 500W-120V **equal to Hayssen #10327A1071----- call for price**

3/8" OD x 13.25" immersion (14" OAL) cart heater with 30" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange, 400W-120V **equal to Hayssen #10327A1078-----call for price**

3/8" OD x 9.125" immersion (9.75" OAL) cart heater with 18" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange, 400W-120V **equal to Hayssen #10327A1082----- call for price**

5/16" OD x 13" immersion (13.5" OAL) cart heater with 30" teflon leads exiting at right angle, silicon rubber protection over wire, half moon flange, 250W-120V **equal to Hayssen #10327A1095----- call for price (must use copper elbow)**

1/4" OD x 8.25" immersion (8.75" OAL) with 12" teflon leads, silicon rubber protection over wire, half moon flange, 250W-120V **equal to Hayssen #10327A1099----- call for price**

1/4" OD x 11.5" immersion (12" OAL) cart heater with 12" teflon leads, silicon rubber protection over wire, 375W-120V **equal to Hayssen #10327A1101---- call for price**

3/8" OD x 13.125" immersion (13-5/8" OAL) cart heater with 20" fiberglass leads exiting at right angle, half moon flange, 800W-120V **equal to Hayssen #10327A0991-----call for price**

SP-858 2-wire RTD with half moon flange
A=1.5" B=31.5" **equal to Hayssen**
#10327A1068----- **call for price**



AMI Parts:

3/8" OD x 13" immersion (14" OAL) cart heater with 12" leads exiting at right angle with silicon rubber protection, half moon flange, 400W-120V **equal to #AMI-7301-221---- call for price.**

3/8" OD x 10" immersion (10.5" OAL) cart heater with 27" fiberglass leads, 24" armor cable, 600W-240V **equal to AMI-7301-219----call for price**

Nordson Parts:

3/8" OD x 4" long cart heater with 10" fiberglass leads, 250W-240V **equal to Nordson #64A87---- call for price**

Sandiacre Parts:

3/8" OD x 17" long cart heater with 18" fiberglass leads exiting at right angle, 360W-42V **equal to Sandiacre #E143393-----call for price**

3/8" OD x 11" long cart heater with 18" fiberglass leads exiting at right angle, 900W-42V **equal to Sandiacre #E143393-----call for price**

Woodman Parts:

3/8" OD x 12" long cart heater with 24" teflon leads exiting at right angle, 1000W-230V **equal to Woodman #058482----- call for price**

3/8" OD x 14" immersion (14.25" OAL) cart heater with 24" teflon leads, 500W-230V **equal to Woodman #058476---- call for price**

Standard Delivery: 2-3 weeks ARO (1-3 day delivery available at additional charge)

Minimum Order: 3 piece minimum order per line item

Please confirm dimensions prior to ordering.

Prices subject to change without notice

Heaters / Sensors not listed can be supplied if description is provided

Level Controls

US25

Self-contained Ultrasonic Sensors

Maximum range 9 in. to 25 ft. (0.22 to 8m) Minimum range 1 ft. (0.3m)

Works on solids or liquids

Analog and trip point outputs

AutoSense software available. Provides automatic adjustment of sensor settings.

Easy to install

Internal temperature compensation available

Maintenance free

Many mounting options

Integral keypad adjustment



VBL Series for Solids

Vibrating Level Sensors

The VBL-11 series features a patented principle and probe construction design for use in medium and/or large sized hoppers. There are several versions available to meet a variety of hopper/silo operations.

VBL-11

Compact version

For side and top mount

Model VBL-11 is a compact version used for high and low level detection. For low level detection in large silos, model VBL-11G is available with a protective shield.



**Other level sensing technologies available.
Call us with your application.**

Electric Air Heaters

TYPES

STYLE 001 Efficient Air Heaters in quartz shells.

STYLE 003 Replaceable heater elements in triple pass stainless steel housing. preheats air and maintains cool outer shell.

STYLE 005 Convection heater elements - efficient open coils design.

STYLE 006 Power/Temperature Controls - manual and automatic.

STYLE 007 Stainless steel in line pipe heaters.

FEATURES

- Temperature up to 1500° F.
- Clean electric heat without the flame.
- Compact size with rapid heat-up and cool-down.
- Controllable by varying voltage, flow rate or temperature controls.
- Excellent repeatability.
- Directable heat.
- Easy installation.

These heaters are designed to heat flowing air up to 1500° F. This highly efficient heater can be accurately controlled with a variable voltage source or with automatic temperature controls.

The compactness, long life, and low cost make this heater ideally suited to production as well as test applications.

They are constructed with high quality Fe-Cr-Al alloy designed for 1950° F continuous use element temperature to assure long life. The precision made element is supported on a steatite insulator and placed in either a quartz or cordierite ceramic envelope to provide an extremely efficient heater.

FEATURES

Some of the numerous applications for this heater are:

- Bulk Side Seal Heating
- Heat Sealing
- Soldering
- Curing Epoxies and Inks
- Adhesive Activation
- Plastic Welding and Bonding
- Cutting and Sealing Textile Materials

See the following page for common quartz (side seal shell heaters) sizes and pricing. Some models stocked for immediate shipment.

SIDE SEAL HEATERS

Available from:

W. H. Cooke & Co., Inc.
 P. O. Box 893
 6868 York Rd
 Hanover, PA 17331

Rev.
 8/1/02

Call Toll Free at 1-800-772-5151

Local Phone: 717-630-2222

Local Fax: 717-637-9999

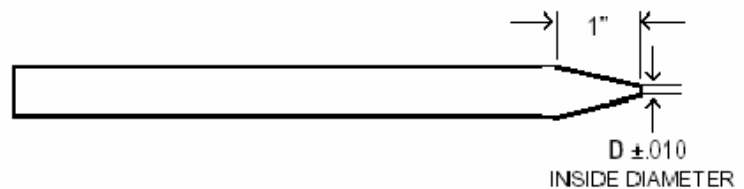
Wattage
 at Standard Voltages

Standard Heater
 Specifications:
 Standard Wattage
 Tolerance +5%, -10%

Convectronics		A	B	C	D	60V	120V	240V
Part Number	Type							
001-10001	OPEN	6.875	8.25	0.410	-	115	465	1850
001-10002	NOZZLE	7.875	9.25	0.410	0.065	115	465	*
001-10003	OPEN	7.75	9.125	0.410	-	210	850	*
001-10004	NOZZLE	8.75	10.125	0.410	0.065	210	850	*
001-10005	OPEN	3.875	5.25	0.410	-	240	960	*
001-10006	NOZZLE	4.875	6.25	0.410	0.065	240	960	*
001-10007	OPEN	3.875	5.25	0.410	-	480	*	*
001-10008	NOZZLE	4.875	6.25	0.410	0.065	480	*	*
001-10009	OPEN	6.875	8.25	0.410	-	290	1150	4650
001-10010	NOZZLE	7.875	9.25	0.410	0.115	290	1150	*

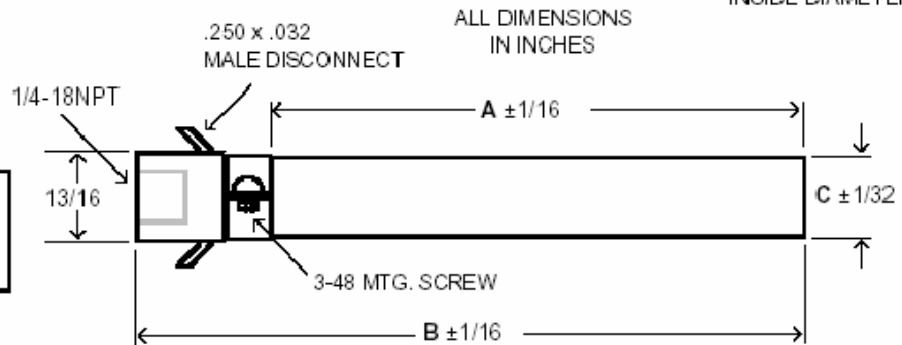
* not recommended

Standard outer casing: quartz.



Standard - female 1/4 - 18 NPT

Available - 3/8 outside dia. -
 Tubing Fitting. Add "T" to end of
 part number.



Cross
 Reference
 Chart

Sylvania Part Number	Convectronics Part Number	Price
010226	001-10001T	\$127.00
014682	001-10002T	\$152.00
014371	001-10003T	\$176.00
014683	001-10004T	\$202.00
016501	001-10005T	\$114.00
016502	001-10006T	\$139.00
016503	001-10007T	\$164.00
016504	001-10008T	\$190.00
017558	001-10009T	\$211.00
017575	001-10010T	\$297.00

Hand Held Thermometers

Perhaps you need a handheld thermocouple and thermometer for taking remote temperature readings. W. H. Cooke has a large offering of handheld meters, thermometers, and pyrometers to meet your needs.

Model 421501

Big Digit, Type K Single Input Thermometer

Single input with large backlit LCD and water resistant housing

- Rugged water tight design
- Large 0.8" (20mm) digit LCD with backlighting
- MAX readings
- Data Hold



Model 421502

Type J/K, Dual Input Thermometer with Alarm

Dual J or K input with dual display, relative and programmable High/Low audible alarms

- Widest range with highest 0.05% accuracy
- Rugged design for field use
- Large dual LCD displays T1, T2 or T1-T2, plus Elapsed Time
- Min/Max/Avg readings
- Data Hold and Relative functions
- Programmable Hi/Lo audible alarms



Model 421509

7 Thermocouple Datalogger with Alarm

Memory stores up to 16 data sets, 1024 maximum data capacity

- Seven Thermocouple type selections: K, J, T, E, R, S, and N
- Large backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, Time and advanced readouts
- T/C offset adjustment
- REC, MAX, MIN, MAX-MIN, AVG and °C/°F switchable
- Complete with two Type-K bead wire temperature probes
- (-4 to 482°F/-20 to 250°C),
- Windows® 95/98/ME/NT/ 2000/XP compatible software
- RS-232 cable, protective holster, and 9V battery



Model 422324

Thermocouple Thermometer Printer, Dual Input with Alarm
Ideal for field testing providing a hard copy data

- Four Thermocouple type selections: K, J, T, and E
- Scan mode sequentially displays T1, T2, or (T1-T2) and simultaneously prints all 3 readings
- Max/Min/Avg readings
- Hi/Lo alarm settings
- Programmable time intervals with real time clock (hours, minutes, and seconds) and calendar



Model 42500

Mini IR Thermometer

Compact thermometer measures up to 500°F (260°C)

- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off



Model 42510

Wide Range Mini IR Thermometer

Compact thermometer with wide temperature range

- Measures temperature from -58 to 1000°F with 0.1° resolution up to 199.9°
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator
- Automatic Data Hold when trigger released



Model 42545

High Temperature IR Thermometer

Measures up to 1832°F with 50 to 1 distance to target ratio

- High and low alarm set points
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- High resolution of 0.1° up to 199.9°
- Adjustable emissivity
- Wide temperature range -58 to 1832°F (-50 to 1000°C)

