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.

- Maintenance is virtually eliminated.
- Better product quality and consistency.
- Reduced product waste & lost production.
- Closer control reduces fuel consumption.
- Eliminates unnecessary sling psychrometer checks.
- 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	Meyer's
Sara Lee	George Weston
Stroehmann	Nissen
Interstate	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!

HMI41 Indicator and HMP42/HMP46 Probes

The Vaisala HUMICAP® Humidity Indicator HMI41 fitted with the Vaisala HUMICAP® Humidity and Temperature Probes HMP42 or HMP46 can be used for spot checking and field calibration applications. In addition to displaying the humidity and temperature readings, the HMI41 indicator calculates dew point and wet bulb temperature, absolute humidity and mixing ratio. The indicator has an easy-to-read two line liquid crystal display. The display units (metric or non-metric) are easily selected. These features, plus fast response time, high measurement accuracy and excellent stability, as well as the unique properties of the probe chosen – either the HMP42 or the HMP46 – make the HMI41 indicator and HMP42/46 combination an ideal choice for the most demanding applications.

Features/Benefits:

- RH measurement range 0...100 %RH
- Temperature measurement range -40...+100 °C (-40 ... +212 °F), with the HMP46 only for short periods up to +180 °C (+356 °F)
- Calculates dew point, wet bulb temperature, absolute humidity and mixing ratio
- Versatile and easy-to-use
- Incorporates Vaisala HUMICAPR Sensor
- Excellent stability
- Data collection with serial line
- NIST traceable (certificate included)
- Optional carrying case and calibration cable

Vaisala HUMICAP® Humidity and Temperature Probe HMP42

The HMP42 probe can be used for spot checking humidity and temperature in applications which require an extremely thin probe. Typically the probe is used for monitoring the drying of structures during construction or after water damage. It is ideal to be used when measuring in any tight places, in ducts or chambers or, for example, under a linoleum floor. The probe diameter is only 4 mm, allowing access into very small, tight, and hard-to-reach spaces.

Vaisala HUMICAP® Humidity and Temperature Probe HMP46

Typical applications for the HMP46 are plant maintenance, installation and inspection of air conditioning systems, production and storage areas and production processes. The HMP46 operates in full humidity range of 0 ... 100 %RH. The temperature range is from -40 to +100 °C (-40 ... +212 °F). For short periods of time, the probe can withstand temperatures up to +180 °C (+356 °F). The HMP46 probe is solid and rugged. Its stainless steel probe is made to withstand rough handling in mechanically demanding applications. The probe's long shaft can also reach otherwise unreachable places.

High Performance Sensor

The HMP42/46 probes incorporate Vaisala HUMICAP® Sensor. This sensor has high accuracy, excellent long-term stability and negligible hysteresis. In addition, the sensor is insensitive to dust, particulate dirt and most chemicals.

Call for pricing

Side Seal Heaters for Bulk Packers

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 Convention 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.

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.
6868 York Road
P.O. Box 893
Hanover, PA 17331

Rev.
7/23/2014

Phone: 717 - 630 - 2222   Fax: 717 - 637 - 9999

COOKE SIDE SEAL HEATERS

SPO-530-TEE

Air heater Rated 600W 120V for Lematic side sealer on bulk packer, supplied with pneumatic tee fitting (or specify right angle) for 1/4" tubing and s.s. compression fitting 3/16" bore x 1/8" NPT for attachment to bottom of air heater with 3/16" OD x 7" long straight **(customer will bend)** piece of s.s. tubing exiting the compression fitting

SPO-530 Cat# SPO-530

Air heater equivalent to Hotwatt cat# 1347 rated 600W 120V for Lematic side sealer on bulk packer. With copper T (or specify right angle) with 1/8" NPT female threads and 3 pin connector and air inlet fitting and s.s. compression fitting 3/16" tube to 1/8" NPT for attachment to bottom of air heater with 7" long piece of s.s. tubing
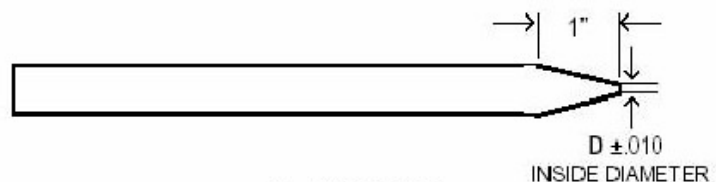
001-10006T Convectronics Side seal air heater 960W-120V

Convectronics						Wattage at Standard Voltages		
Part Number	Type	A	B	C	D	60V	120V	240V
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	7.857	9.25	0.410	0.115	290	1150	*

Standard Heater Specs: Standard Wattage Tolerance +5% -10%

* not recommended

Standard outer casing: quartz.

1"

D ±.010
INSIDE DIAMETER

.250 x .032
MALE DISCONNECT

ALL DIMENSIONS IN INCHES

1/4-18NPT

A ±1/16

Standard - female 1/4 - 18 NPT

13/16

C ±1/32

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

3-48 MTG. SCREW

B ±1/16
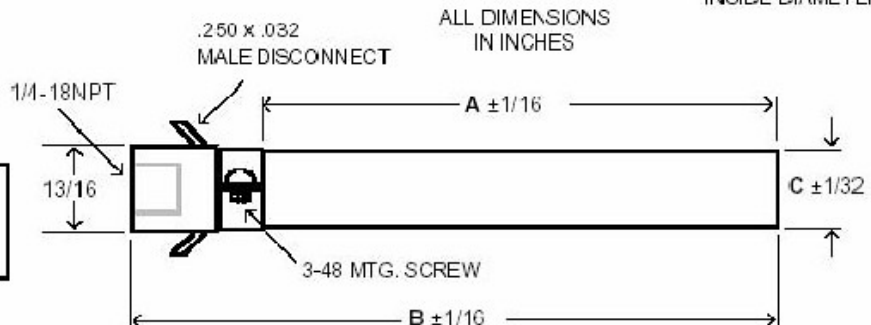
| Sylvania Part Number	Convectronics Part Number	Price
10226	001-10001T	Call for Pricing
14682	001-10002T	Call for Pricing
14371	001-10003T	Call for Pricing
14683	001-10004T	Call for Pricing
16501	001-10005T	Call for Pricing
16502	001-10006T	Call for Pricing
16503	001-10007T	Call for Pricing
16504	001-10008T	Call for Pricing
17558	001-10009T	Call for Pricing
17575	001-10010T	Call for Pricing

Cartridge Heaters For Packaging Machinery

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 cartridge heaters provide excellent heat transfer efficiency, high operating temperatures and long life. Swaged construction allows for minimal air gaps providing resistance to impact and vibration.
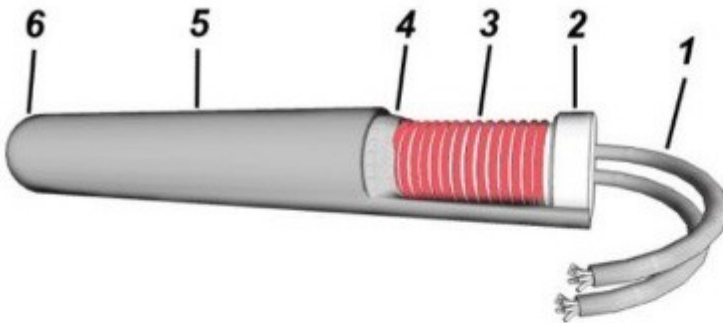
1. **High Temperature Lead Wires:** for temperatures up to 550° C.

2. **High Impact Ceramic Cap:** Retards contamination and is suitable for high vibration applications. Deep holes in cap prevent fraying of leads when bent.

3. **Nickel-Chromium Resistance Wire:** For maximum heater life, evenly wound for even heat distribution.

4. **High Purity Magnesium Oxide Fill:** Selected for maximum dielectric strength and thermal conductivity, highly compacted for maximum heat transfer.

5. **304 Stainless Steel Sheath:** For oxidation resistance in a wide variety of environments. 316 Stainless Steel and Incoloy® are also available.

6. **TIG Welded End Disc:** To prevent contamination and moisture absorption.

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

COOKE SP-858-RTD
EQUAL TO HAYSSEN #10327A1068

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" fiberlgass 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

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 you needs.

EA11A
EasyView Type K Single Input Thermometer

- Compact and rugged design with high contrast large LCD display
- Manually store/recall up to 150 readings
- Wide temperature range with 0.1°/1° resolution
- Data Hold function freezes reading on display
- Records Max/Min/Avg readings for later recall
- Offset key used for zero function to make relative measurements
- Auto Power off with disable feature
- Low battery and overrange indication
- Complete with built-in stand, protective holster, general purpose
- Type K bead wire temperature probe (-4 to 482°F/-20 to 250°C) and 6 AAA batteries

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
- 6:1 Field of View

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
- 8:1 Field of View

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)

Level Controls

LPU-2127 Loop Powered Ultrasonic Sensor

With a built in keypad for easy programming and flexibility, the LPU-2127 provides continuous level/distance measurement you can count on. Its durability, range, and simplicity make it a great sensor for many applications.

Features:

- 1 - 25 ft. (0.3 - 7.6 m) detection range on liquids
- 1 - 10 ft. (0.3 - 3 m) detection range on solids
- Loop powered 4-20 mA output
- Integrated keypad and LCD display

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.