ELECTRICAL PRODUCTS FOR

COLD ENVIRONMENTS

- LIGHTING
- POWER DISTRIBUTION
- CONTROL EQUIPMENT
- WIRING METHODS

COOPER Crouse-Hinds

EVEN MORE

THAN YOU EXPECT.

Cold environments pose a tough challenge for electrical products — and the people who maintain them. Regardless of where you operate, you can't afford to sacrifice performance or dependability. That's why Cooper Crouse-Hinds® brings you a wide selection of cold-environment solutions you can count on.

You may already be familiar with many of the products you'll see here. It's likely they're in your facility now, working hard to maximize uptime and minimize maintenance.

But what you may not expect is the breadth of our line. We're your source for cold-tolerant lighting, power distribution and control equipment plus fittings and connectors for all types of conduit and cable systems. We also bring you electric heaters for personnel comfort, equipment protection or process control, and cold-tolerant products for hazardous areas.

Because this broad selection is from Cooper Crouse-Hinds, you can specify with complete confidence. And you'll save time, because you won't have to track down the products you need from multiple sources.

GET COMPLETE DETAILS.

For more information on any of our cold-environment products, see our catalog, visit our website (www.crouse-hinds.com) or contact your nearest Cooper Crouse-Hinds distributor.

Don't have our current catalog?

Just ask your Cooper Crouse-Hinds distributor or sales representative. You can easily find them by using the Locator feature on our website.

Lightning Service™ Delivery

Look for the Lightning Service symbol throughout this brochure. These made-to-order products can be shipped faster than you might expect to meet tight project deadlines. Lightning Service products are also designated in our price book, catalog and website.

PartSpec® Mechanical Parts Library (from Thomas Register)

Fast and efficient, PartSpec and PlantSpec® allow you to tap into our ever-expanding database of product drawings and insert them into your AutoCAD® session. After insertion the drawing retains part number, scale and view. Also see the Resources area of our website for these CAD drawings.

COLD ENVIRONMENT

PROBLEM

COMPROMISED ENVIRONMENTAL SEALING

Cold outdoor environments bring snow, sleet, and freezing rain—causing potentially damaging ice formation. And without proper enclosure design, the performance of enclosed electrical components may be adversely affected.

COOPER CROUSE-HINDS

SOLUTION

WEATHER-RESISTANT CONSTRUCTION

Choose from our rugged, cold-weather-resistant NEMA 4 and 4X watertight products designed to withstand the elements … small-surface-area gasket designs for superior performance in areas where ice build-up is likely … and silicone gaskets for moving parts that stay resilient at temperatures as low as -57°C (-70°F), ensuring flexibility and dependable sealing.

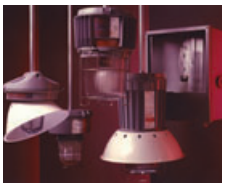
NPJ Nonmetallic Arktite® Plugs and Receptacles

Catalog Section 2P

- NEMA 4X watertight and corrosion resistant.
- Rugged Krydon® fiberglass-reinforced polyester construction.
- Choose from 30, 60 and 100 amps.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

VMV Champ® Luminaires, LMV Champ® Luminaires, DMV Champ® Luminaires, and CPMV Champ-Pak™ Wall Pack Luminaires

Catalog Section 3L

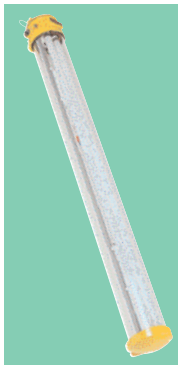


- For indoor and outdoor applications—NEMA 4X, Marine and Wet Locations.
- Corro-free™ epoxy powder-coated aluminum housings offer superior corrosion resistance.
- Silicone gaskets stay resilient to ensure a dependable seal.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

Note: For starting temperatures, see the table on page 5.

AB12 Fluorescent Luminaire

CEAG Catalog



- Small gasket surfaces fight ice accumulation.
- Rigid aluminum end enclosures ensure sealing integrity.
- Operating temperature range: -20° to 55°C (-4° to 131°F).

EDS, EFS and DSD Control Stations

Catalog Sections 4C and 5C

- Choose from a broad array of push buttons, pilot lights, and selector switches.
- Silicone gaskets ensure dependable seals.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

COLD ENVIRONMENT

PROBLEM

STUCK OPERATORS AND SHAFTS

When cold temperatures are extreme, lubricants on shafts and bushings can stiffen to the point that it becomes difficult to actuate switches or other rotating equipment.

COOPER CROUSE-HINDS

SOLUTION

TEMPERATURE-RESISTANT LUBRICANT AND LUBRICANT-FREE DESIGN

Choose from Cooper Crouse-Hinds products that are designed lubricant-free to provide trouble-free operation in cold environments. And, where lubrication is required by design or for maintenance purposes, we have the low-temperature lubricant you need.

WSRD Arktite® Interlocked Receptacles with Enclosed Disconnect Switches

Catalog Section 3P

- Lever-actuated switch prevents cold-temperature freeze-ups.
- Dust, moisture, and corrosion resistant.
- Fusible for short-circuit protection.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

EBBR Arktite® Interlocked Receptacles with Circuit Breakers

Catalog Section 4P

- Lever-actuated switch prevents cold-temperature freeze-ups.
- For Class I and II hazardous locations.
- Choose from 30, 60 and 100 amps.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

HTL4 Thread Lubricant

Catalog Section 4F

- Extremely wide temperature tolerance: -56° to 982°C (-70° to 1800°F).
- Conductive to maintain ground continuity.
- Fights corrosion.

COLD ENVIRONMENT

PROBLEM

LUMINAIRES THAT WON'T START

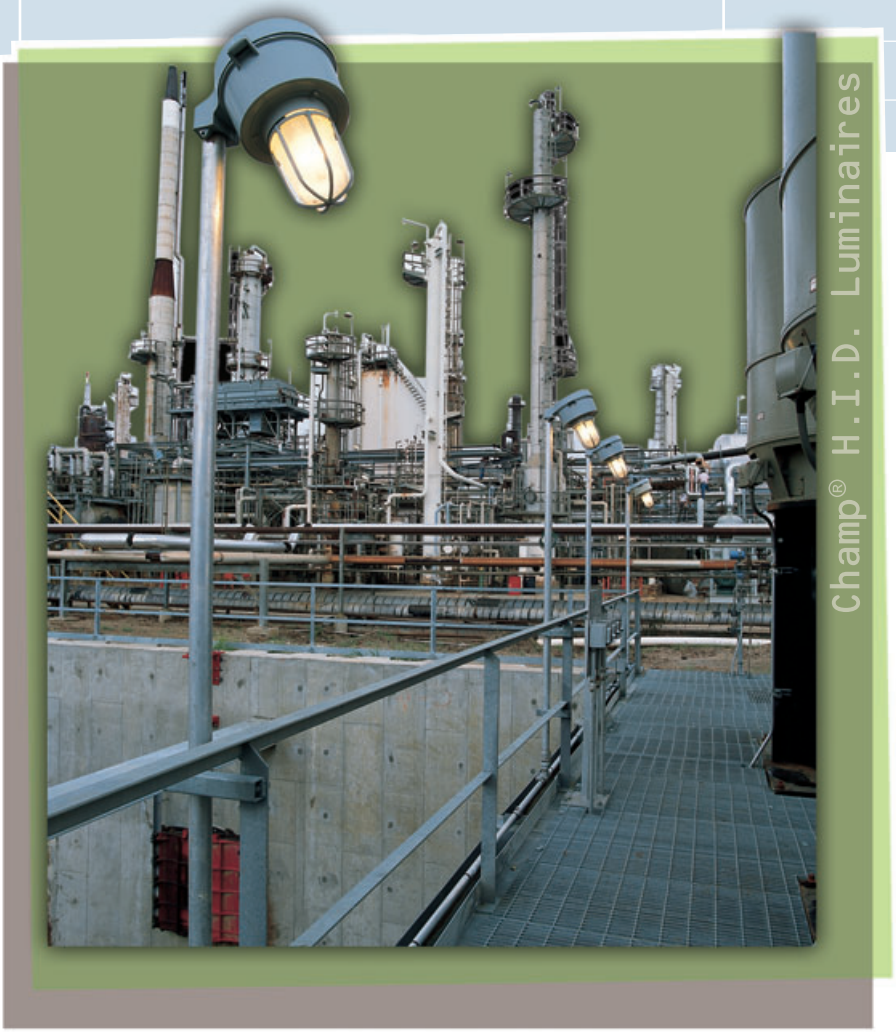
When it's cold, luminaires may have a difficult time starting and maintaining their lumen output.

COOPER CROUSE-HINDS

SOLUTION

BUILT-IN LOW-TEMPERATURE START CAPABILITY

Lamp starting and ballast striking temperatures determine how well a luminaire starts in cold temperatures. We offer a full range of lamp technologies coupled with low-temperature ballasts, resulting in low-temperature starting capabilities.



Champ® H.I.D. Luminaires—VMV, DMV and LMV

High-Pressure Sodium
Metal Halide Pulse Start

Catalog Section 3L

- Low-temperature start performance.
- Start at -40°C (-40°F); once started, can operate at temperatures as low as -50°C (-58°F).
- Full range of mounting styles for any location.
- Epoxy-coat, copper-free aluminum construction for excellent corrosion resistance.
- Operating temperature range: -50° to 40°C (-58° to 104°F).

SpecOne™ CPMV Champ-Pak™ Wall Pack Luminaire

High-Pressure Sodium
Metal Halide Pulse Start
Induction

Catalog Section 6L

- Enclosure Type 4X, IP66, Marine Listed.
- New induction lamp system offers up to 100,000 hours of lamp life.
- HPS and MH:
  - Start at -40°C (-40°F); once started can operate at temperatures as low as -50°C (-58°F).
  - Operating temperature range: -50° to 40°C (-58° to 104°F).
- Induction:
  - Starting and operating temperature range: -40° to 40°C (-40° to 104°F).

High-pressure sodium and metal halide pulse start lamps offer the best performance in cold temperatures.

LAMP TYPE	STARTING TEMPERATURE
High-Pressure Sodium	-40°C (-40°F)
Metal Halide	-30°C (-22°F)
Metal Halide Pulse Start	-40°C (-40°F)
Mercury Vapor	-30°C (-22°F)
Fluorescent	-29° to 10°C (-20° to 50°F)*
Incandescent	any

**Varies depending on type of lamp and wattage. Straight tubes perform better in cold temperatures than U-shaped tubes.*

COOPER Crouse-Hinds

COLD ENVIRONMENT

PROBLEM

CONDENSATION DUE TO TEMPERATURE CYCLING

Even at very low temperatures, temperature cycles over the course of a day can cause moisture build-up—which can cause ice problems.

COOPER CROUSE-HINDS

SOLUTION

BREATHERS AND DRAINS

Install our breathers and drains in enclosures or conduit systems for proper ventilation to minimize condensation—and allow any accumulated condensate to drain. Many Cooper Crouse-Hinds products are built with—or can be ordered with—breathers and drains.

ECD Breathers and Drains

Catalog Section 8F

- Stainless steel construction for corrosion resistance and durability.
- Available in standard, universal and combination configurations.
- Operating temperature range: -50° to 60°C (-58° to 140°F).

Cooper Crouse-Hinds offers fittings that are fully compatible with cold-weather-tested cables and cords.

CGB Cable Fittings

Catalog Section 5F

- Fully compatible with cold-weather-tested cables and cords.
- Rugged construction protects cables and cords from damage.
- Tightening a single nut provides a watertight seal.
- Operating temperature range: -50° to 60°C (-58° to 140°F).

TECK Connectors

Catalog Section 5F

- Fully compatible with cold-weather-tested cables and cords.
- Rugged construction protects cables and cords from damage.
- Operating temperature range: -50° to 60°C (-58° to 140°F).

COLD ENVIRONMENT

PROBLEM

TOO COLD FOR PERSONNEL OR PROCESSES TO WORK EFFECTIVELY

You may need to prevent process heat loss … maintain constant temperatures … or keep personnel comfortable during maintenance or repair operations.

COOPER CROUSE-HINDS

SOLUTION

EXPLOSIONPROOF HEATERS OR PANELBOARDS FOR HEAT TRACE APPLICATIONS

Our explosionproof heaters can provide heat just where it's needed—safely and conveniently. And we offer a number of panelboard choices that are ideal for heat trace installations to keep your process flowing.

XC and EXH Explosionproof Heaters

Catalog Section 4A

- Suitable for hazardous locations.
- Extra-rugged construction withstands harsh environments.
- Compact designs for easy handling and installation.
- Operating temperature range: -45° to 40°C (-49° to 104°F).

Power and Lighting Panelboards

Powerplus™ EPL/D2L Series
Unibody™ EPLU/D2LU Series
Exactra™ LP1/LP2 Series
SpecOne™ D2Z Series

Catalog Section 1A

- Suitable for hazardous locations.
- The industry's broadest lighting panelboard selection to match your needs exactly.
- Excellent corrosion resistance in both metallic and nonmetallic enclosure designs.
- Operating temperature range: -50° to 40°C (-58° to 104°F)—all except D2Z.
- Operating temperature range: -55° to 55°C (-67° to 131°F)—D2Z only.

COOPER Crouse-Hinds

COLD ENVIRONMENT

PROBLEM

INCREASED EXPLOSION PRESSURE IN COLD TEMPERATURES

As ambient temperatures drop, the potential for increased explosion pressures exists, which can result in increased pressure piling effects.

COOPER CROUSE-HINDS

SOLUTION

EXPLOSIONPROOF CONDUIT SEALS— OR FACTORY-SEALED DEVICES

Use our explosionproof conduit seals to prevent an explosion from traveling throughout the conduit system—and minimize the passage of gas or vapors through the conduit. Or you may be able to eliminate the need for external seals using Cooper Crouse-Hinds factory-sealed equipment.

Condulet® Explosionproof Seals

ES Series EYD Series EYS Series EZD Series EZS Series Chico® A Compound Chico® SpeedSeal™ Compound

Catalog Section 8F & Brochure #4811

- A complete range of rugged conduit seals for enhanced safety.
- Chico SpeedSeal compound sets up in cold environments in 4-10 minutes and hardens in less than 20 minutes. Eliminates need to build temporary shelters around sealing fittings.
- Operating temperature range -50° to 60°C (-58° to 140°F). See page 12 for Chico A and Chico SpeedSeal installation information.

N2SU Factory-Sealed Control Stations

Catalog Section N

- Pushbutton stations, pilot lights, and selector switch are factory sealed.
- Fiberglass-reinforced polyester enclosures provide excellent corrosion resistance.
- Operating temperature range: -50° to 50°C (-58° to 122°F).

SpecOne™ GHG 43 Factory-Sealed Control Stations

Catalog Section N

- NEMA 4X, IP 66 enclosure with formed-in-place gasket.
- Available with all operators: indicator lights, potentiometers, control switches, terminal blocks and meters.
- Easy change-out components snap in place on DIN rail.
- Operating temperature range: -55° to 55°C (-67° to 131°F).

SpecOne™ GHG 26 Explosion-Protected Disconnect Switches

Catalog Section 2A

- Factory-sealed motor circuit switches.
- Innovative break-line in cover allows full access for fast, easy wiring.
- High-impact design with excellent corrosion resistance.
- Operating temperature range: -55° to 55°C (-67° to 131°F).

SpecOne™ D2Z Nonmetallic Factory-Sealed Panelboards

Catalog Section 1A

- Unique design allows for panels with more than 42 circuits.
- UL, cUL and PTB certified for Class I, Division 2 and Zone 1 hazardous areas.
- NEMA 4X, IP66 construction.
- Operating temperature range: -55° to 55°C (-67° to 131°F).

OPERATING TEMPERATURE RANGES FOR

LIGHTING

LIGHTING	OPERATING TEMPERATURE RANGE
AB12 Fluorescent Luminaire	-20° to 55°C (-4° to 131°F)
AEV Luminaires—IEC Certified	-45° to 45°C (-49° to 113°F). Test report for -45°C available. Consult factory.
AEVBH Luminaires—IEC Certified	-45° to 45°C (-49° to 113°F). Test report for -45°C available. Consult factory.
Champ® HID Luminaires CPMV Wall Pack Luminaire	HID Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Fluorescent Minimum Starting Temperature: -18°C (0°F) Operating Temperature: -18° to 40°C (0° to 104°F) Induction Minimum Starting Temperature: -40°C (-40°F) Operating Temperature: -40° to 40°C (-40° to 104°F) Selected lamps/wattages suitable for 55° and 65°C—consult factory for temperature performance data.
Champ® HID Luminaires DMV LMV VMV VMV High-Wattage	Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Selected lamps/wattages suitable for 55° and 65°C—see temperature performance data in catalog for details.
DMVF & DMVFB Fluorescent	26 & 39 W: 0° to 40°C (32° to 104°F) DMVF 52 & 64 W: -20° to 40°C (-4° to 104°F) DMVFB 52 & 64 W: 0° to 40°C (32° to 104°F)
eLLK 92 Light Fitting	-20° to 50/55°C (-4° to 122/131°F)
eLLK Fluorescent	NEC/CEC: -25° to 55°C (-13° to 131°F) IEC: -25° to 50°C (-13° to 122°F) Lumen output is reduced at low temperatures.
EV Incandescent	-50° to 40°C (-58° to 104°F)
EVF Fluorescent	32 W T8: -18° to 40°C (0° to 104°F) 60 & 110 W: -20° to 40°C (-4° to 104°F)
EVFDR Fluorescent	32 W T8: -18° to 40°C (0° to 104°F) 60 & 110 W: -20° to 40°C (-4° to 104°F)
EVFT Illuminator™ Fluorescent	10° to 40°C (50° to 104°F)
EVLP Fluorescent and Fluorescent with Emergency Ballast	EVLPF: -20° to 40°C (-4° to 104°F) EVLPFB: 0° to 40°C (32° to 104°F)
EVLP HID Series	Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Fluorescent: -18°C (0°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Selected lamps/wattages suitable for 55° and 65°C—see temperature performance data in catalog for details.
EVM Luminaires—IEC Certified	-45° to 50°C (-49° to 122°F). Test report for -45°C available. Consult factory.
EVP EVM Floodlight	-20° to 55°C (-4° to 131°F)
F2MV HID Compact Floodlight FMV HID Champ® Floodlight FMV1000 Series Floodlight	Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Selected lamps/wattages suitable for 55° and 65°C.

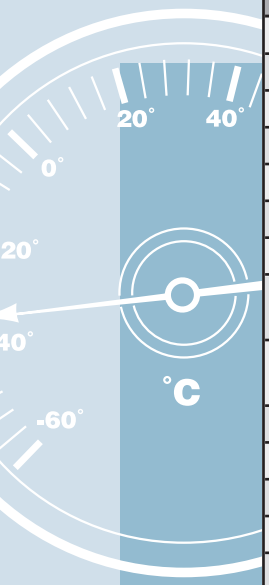
OPERATING TEMPERATURE RANGES FOR

LIGHTING

LIGHTING	OPERATING TEMPERATURE RANGE
FVN Fluorescent	32 W: -18° to 40°C (0° to 104°F) 40 W with suffix BY: -18° to 40°C (0° to 104°F) 60 & 110 W: -29° to 40°C (-20° to 104°F)
FVS Compact Fluorescent	-18° to 55°C (0° to 131°F)
Hazard-Gard® HID Floodlight	Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Selected lamps/wattages suitable for 55°, 65° and 75°C—see temperature performance data in catalog for details.
Hazard-Gard® HID Luminaire	Minimum Starting Temperature: HPS/MH Pulse Start: -40°C (-40°F) MH/MV: -30°C (-22°F) Operating Temperature: -50° to 40°C (-58° to 104°F) Selected lamps/wattages suitable for 55°, 65° and 75°C—see temperature performance data in catalog for details.
HE 5 EN Torch	-20° to 40°C (-4° to 104°F)
HE 8... Handlamp	-20° to 40°C (-4° to 104°F)
HF, HFL Stabex	-20° to 40°C (-4° to 104°F)
HLE 7 L EN Inspection Cap Lamp	-20° to 40°C (-4° to 104°F)
M0 Stabex	-20° to 40°C (-4° to 104°F)
N2MV HID Champs	Minimum Starting and Operating Temperatures: HPS/MH Pulse Start: -40° to 40°C (-40° to 104°F) MH/MV: -30° to 40°C (-22° to 104°F) Selected lamps/wattages suitable for 55°C—see temperature performance data in catalog for details.
N2MVF & N2MVFB Fluorescent	N2MVF: -20° to 40°C (-4° to 104°F) N2MVFB: 0° to 40°C (32° to 104°F)
NFL Fluorescent	(2) lamp 32 W 4': -18° to 40°C (0° to 104°F) All others: 0° to 40°C (32° to 104°F)
NFMV Luminaires—IEC Certified	-20° to 50°C max (-4° to 122°F). Test report for -45°C available. Consult factory.
nLL. 98. Zone 2 Light Fitting	-20° to 50°C (-4° to 122°F)
nLL. 98058/58 Zone 2 Light Fitting	-20° to 40°C (-4° to 104°F)
nLLK Fluorescent	NEC/CEC: -18° to 40°C (0° to 104°F) IEC: -20° to 40°C max (-4° to 104°F)
NVMV Large Body Luminaires—IEC Certified	-20° to 55°C max (-4° to 131°F). Test report for -45°C available. Consult factory.
NVMV Small Body Luminaires—IEC Certified	-20° to 55°C max (-4° to 131°F). Test report for -45°C available. Consult factory.
RCDE-6 and RCDE-10 Incandescent Floodlight	-40° and below to 40°C (-40° to 104°F)
SEB 8, SEB 8 L Searchlight	-20° to 40°C (-4° to 104°F)
Stabex Mini	-20° to 40°C (-4° to 104°F)
V2PC Photocell	-50° to 40°C (-58° to 104°F). Suitable for higher temperatures with selected lamps/wattages.
VF Vaporgard™ Fluorescent	5,7 W: -18° to 40°C (0° to 104°F) 9 W: -4° to 40°C (25° to 104°F)

OPERATING TEMPERATURE RANGES FOR

POWER DISTRIBUTION



POWER DISTRIBUTION	OPERATING TEMP. RANGE
CESD Arktite® Receptacle	-50° to 40°C (-58° to 104°F)
D2D Panelboards	-50° to 40°C (-58° to 104°F)
D2DU Panelboards	-50° to 40°C (-58° to 104°F)
D2L Panelboards	-50° to 40°C (-58° to 104°F)
D2LU Panelboards	-50° to 40°C (-58° to 104°F)
D2PB Panelboards	-50° to 40°C (-58° to 104°F)
D2Z Panelboards	-55° to 55°C (-67° to 131°F)
EBBR Interlocked Arktite Receptacle with Circuit Breaker	-50° to 40°C (-58° to 104°F)
ENR Interlocked Circuit Breaking Receptacle	-50° to 40°C (-58° to 104°F)
EPL Panelboards	-50° to 40°C (-58° to 104°F)
EPLU Panelboards	-50° to 40°C (-58° to 104°F)
EXD Panelboards	-50° to 40°C (-58° to 104°F)
EXDU Panelboards	-50° to 40°C (-58° to 104°F)
GHG 26 Disconnect Switches	-55° to 55°C (-67° to 131°F)
GHG 5 Zone 2 Plugs and Sockets	-20° to 40°C (-4° to 104°F)
GHG 511 8 Flange Socket	-55° to 55°C (-67° to 131°F)
GHG 511 Plugs and Sockets	-55° to 55°C (-67° to 131°F)
GHG 511/512 Socket Distribution	-55° to 55°C (-67° to 131°F)
GHG 512 8 Flange Socket	-55° to 55°C (-67° to 131°F)
GHG 512 Receptacle	-55° to 55°C (-67° to 131°F)

POWER DISTRIBUTION	OPERATING TEMP. RANGE
GHG 514 Plugs and Sockets	-55° to 55°C (-67° to 131°F)
GHG 542 5 Flange Socket	-55° to 55°C (-67° to 131°F)
GHG 591 Plugs and Sockets	-20° to 55°C (-4° to 131°F)
GHG 591/511 Plugs and Sockets	-20° to 55°C (-4° to 131°F)
GHG 60.0 Terminal Box	-55° to 55°C (-67° to 131°F)
GHG 619 Distribution Board	-55° to 55°C (-67° to 131°F)
GHG 72 Terminal Box	-55° to 55°C (-67° to 131°F)
GHG 73 Terminal Box	-55° to 55°C (-67° to 131°F)
GHG 74 Terminal Box	-55° to 55°C (-67° to 131°F)
GHG 758 Bus Bar System	-55° to 40°C (-67° to 104°F)
GHG 981 Socket Distribution	-55° to 55°C (-67° to 131°F)
IEC 309 Plugs and Receptacles	-50° to 40°C (-58° to 104°F)
LP1 Panelboards	-50° to 40°C (-58° to 104°F)
LP2 Panelboards	-50° to 40°C (-58° to 104°F)
NBR/NSR Interlocked Receptacle	-50° to 40°C (-58° to 104°F)
NPJ Plugs	-50° to 40°C (-58° to 104°F)
NPR Connectors	-50° to 40°C (-58° to 104°F)
NRE Receptacles	-50° to 40°C (-58° to 104°F)
NRS Disconnect Switches	-50° to 40°C (-58° to 104°F)
WSRD Interlocked Receptacle	-50° to 40°C (-58° to 104°F)

OPERATING TEMPERATURE RANGES FOR

CONTROL EQUIPMENT

CONTROL EQUIPMENT	OPERATING TEMP. RANGE
dLS 92 Built-in Switch	-55° to 70°C (-67° to 158°F)
EDS/EFS/DSD Control Stations	-50° to 40°C (-58° to 104°F)
EXH Electric Heaters	-45° to 40°C (-49° to 104°F) (not available in Canada)
FB Intrinsically Safe Remote I/O	-20° to 40°C (T6) (-4° to 104°F) -20° to 55°C (T4) (-4° to 131°F)
GHG 2 Control Switch 20 A	-55° to 45°C (-67° to 113°F)
GHG 23 Main Switch	-55° to 40°C (-67° to 104°F)
GHG 261 Switch	-55° to 52°C (-67° to 125°F)
GHG 262/263 Control Switch 20 A/40 A	-55° to 55°C (-67° to 131°F)
GHG 263 Main Switch 40 A	-55° to 55°C (-67° to 131°F)
GHG 264 Main Switch	-36° to 55°C (-32° to 131°F)
GHG 265/266 Main Switch 125 A	-55° to 55°C (-67° to 131°F)
GHG 270 Installations Switch	-55° to 40°C (-67° to 104°F)
GHG 29 Control Switch	-55° to 55°C (-67° to 131°F)

CONTROL EQUIPMENT	OPERATING TEMP. RANGE
GHG 292/293 Control Switch	-55° to 55°C (-67° to 131°F)
GHG 41 Built-in Switch	-55° to 50°C (-67° to 122°F)
GHG 41/43 Control Station	-55° to 55°C (-67° to 131°F)
GHG 418 Signal Light	-55° to 40°C (-67° to 104°F)
GHG 44 Control Station	-55° to 55°C (-67° to 131°F)
GHG 61. MCB	-55° to 110°C (-67° to 230°F)
GHG 610 Actuating Flap	-55° to 60°C (-67° to 140°F)
GHG 635 Motor Starter	-20° to 55°C (-4° to 131°F)
Intrinsically Safe Barriers	-40° to 60°C (-40° to 140°F)
Intrinsically Safe DIN Rail Devices	-20° to 60°C (-4° to 140°F)
LB Local Bus Intrinsically Safe	-20° to 60°C (-4° to 140°F)
.M45/.M72 Measuring Instrument	-55° to 58°C (-67° to 136°F)
N2SU Control Stations	-50° to 50°C (-58° to 122°F)
Signal Light Components for Switch Board	-55° to 50°C (-67° to 122°F)
XC Electric Heaters	-45° to 40°C (-49° to 104°F)

COOPER Crouse-Hinds

OPERATING TEMPERATURE RANGES FOR

WIRING METHODS

WIRING & INSTALLATION METHODS	OPERATING TEMPERATURE RANGE
Blanking Plug GHG 960	-55° to 55°C (-67° to 131°F)
Bus Bar System GHG 758	-55° to 40°C (-67° to 104°F)
Cable Entry GHG 960	-55° to 70°C (-67° to 158°F)
CD Drain	-50° to 60°C (-58° to 140°F)
CGB Cable Fittings	-50° to 60°C (-58° to 140°F)
CHICO® A and Chico® SpeedSeal™ Sealing Compound	CHICO A installation must be performed at or above 2°C (35°F) for Groups C & D, at or above 4.4°C (40°F) for Group B, and must cure according to instructions enclosed with product. The temperature of Chico SpeedSeal compound must be between 10° and 29°C (50° and 85°F) before mixing. The sealing fitting must be kept at or above 4°C (40°F) during the 4 to 10 minute expansion/gel time of the compound. Remove all ice crystals from inside the conduit seal before dispensing Chico SpeedSeal compound. After curing, the operating temperature is determined by the fitting with which it is installed.
Distribution Board GHG 619	-55° to 55°C (-67° to 131°F)
ECD Breathers, Drains and Universal Drain/Breathers	-50° to 60°C (-58° to 140°F)
EJB Junction Boxes	-50° to 60°C (-58° to 140°F)
ES Seals	-50° to 60°C (-58° to 140°F)*
EYD Seal and Drain	-50° to 60°C (-58° to 140°F)*
EYDX Expanded Fill Sealing Fittings and Drain	-50° to 60°C (-58° to 140°F)*
EYS Seals	-50° to 60°C (-58° to 140°F)*
EYS29 Elbow Seals	-50° to 60°C (-58° to 140°F)*
EYSR Retrofit Seal/Drain Seal	-50° to 60°C (-58° to 140°F)*
EYSX Expanded Fill Sealing Fitting	-50° to 60°C (-58° to 140°F)*
EZD Inspection Seal and Drains	-50° to 60°C (-58° to 140°F)*
EZS Seals	-50° to 60°C (-58° to 140°F)*
Flameproof Cable Bushing	-20° to 100°C (-4° to 212°F)
Flameproof Enclosure GHG 6	-45° to 40°C (-49° to 104°F)
Form 7, Form 8, Mark 9 Conduit Outlet Bodies	-50° to 60°C (-58° to 140°F)
FS/FD Device Boxes	-50° to 60°C (-58° to 140°F)
GHG 960 Cable Entry	-55° to 70°C (-67° to 158°F)
GHG 960 Drainage Plug	-20° to 40°C (-4° to 104°F)
GUA/EAB/EAJ Conduit Outlet Boxes	-50° to 60°C (-58° to 140°F)
GUB Junction Boxes	-50° to 60°C (-58° to 140°F)
HTL Lubricant	-56° to 982°C (-70° to 1800°F)
NCG Nonmetallic Cable Glands	-30° to 60°C (-22° to 140°F)
NH Fuse GHG 611	-55° to 100°C (-67° to 212°F)
PLG Plugs	-50° to 60°C (-58° to 140°F)
RE/REC Reducers	-50° to 60°C (-58° to 140°F)
STL Lubricant	-28° to 148°C (-20° to 300°F)
TECK Connectors	-50° to 60°C (-58° to 140°F)
Terminal Box GHG 60.0	-55° to 55°C (-67° to 131°F)
Terminal Box GHG 72	-55° to 55°C (-67° to 131°F)
Terminal Box GHG 73	-55° to 55°C (-67° to 131°F)
Terminal Box GHG 74	-55° to 55°C (-67° to 131°F)
Terminal Box GHG 79	-50° to 40°C (-58° to 104°F)
Terminal GHG 240	-55° to 55°C (-67° to 131°F)
TMC Fittings	-50° to 60°C (-58° to 140°F)
TMCX Fittings	-50° to 60°C (-58° to 140°F). Epoxy installation must be performed at or above 4.4°C (40°F) and must cure according to instructions enclosed with product.
Trumpet-Shaped Cable Entry GHG 960	-50° to 80°C (-58° to 176°F)
UNY/UNF Unions	-50° to 60°C (-58° to 140°F)
W-Series Junction Boxes	-50° to 60°C (-58° to 140°F)

**CHICO A installation must be performed at or above 2°C (35°F) for Groups C & D, at or above 4.4°C (40°F) for Group B, and must cure according to instructions enclosed with product. The temperature of Chico SpeedSeal compound must be between 10° and 29°C (50° and 85°F) before mixing. The sealing fitting must be kept at or above 4°C (40°F) during the 4 to 10 minute expansion/gel time of the compound. Remove all ice crystals from inside the conduit seal before dispensing Chico SpeedSeal compound.*

For more information:

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