

## HAZARDOUS LOCATION HEATERS AND THERMOSTATS



### INDUSTRY STANDARDS

CE  
cCSAus  
See additional certifications in product tables.

### APPLICATION

Designed for use in hazardous locations where electrical components require protection from cold freezing temperatures, condensation and corrosion.

### SPECIFICATIONS

- 50W, 80W, 200W, 300W, 400W and 600W models available
- Provides freeze protection down to -76 F / -60 C
- Conductive and Convection heating types available
- 50W and 80W models can be mounted directly to manifolds, measuring or analyzing instruments, control valves, and similar equipment
- 200W, 300W, 400W, 600W models are finned heaters that heat the area by transferring the heat from the heater to surrounding air, creating a convection current.
- Two thermostat options available with a 50 F / 10 C or 68 F / 20 C set point

### FINISH

- Black Anodized Aluminum

### Performance Data 50W and 80W Hazardous Location Heaters

| CATALOG NUMBERS                   |                                                                                                                           |                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                   | DAHHL501AC                                                                                                                | DAHHL801AC                                                                                                                |
| HEATING PERFORMANCE               |                                                                                                                           |                                                                                                                           |
| Watts                             | 50                                                                                                                        | 80                                                                                                                        |
| Heating Type                      | Conductive                                                                                                                | Conductive                                                                                                                |
| Power Regulation                  | Self Limiting                                                                                                             | Self Limiting                                                                                                             |
| HAZARDOUS LOCATION CERTIFICATIONS |                                                                                                                           |                                                                                                                           |
| Agency Approvals                  | ATEX, IECEx, CE, cCSAus                                                                                                   | ATEX, IECEx, CE, cCSAus                                                                                                   |
| ATEX / IECEx Certification        | PTB 02 ATEX 1116 X<br>IECEx PTB 07.0055X<br>II 2 G Ex db IIC T4<br>II 2 D Ex tb IIIC T135°C                               | PTB 02 ATEX 1116 X<br>IECEx PTB 07.0055X<br>II 2 G Ex db IIC T3<br>II 2 D Ex tb IIIC T200°C                               |
| NEC cCSAus Certification          | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T4<br>Class II Div 1 Groups E,F,G | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T3<br>Class II Div 1 Groups E,F,G |
| ELECTRICAL DATA                   |                                                                                                                           |                                                                                                                           |
| Rated Voltage (VAC or VDC)        | 110 - 265                                                                                                                 | 110 - 265                                                                                                                 |
| Operating Range                   |                                                                                                                           |                                                                                                                           |
| Maximum (F/C)                     | 302/150                                                                                                                   | 302/150                                                                                                                   |
| Minimum (F/C)                     | -76/-60                                                                                                                   | -76/-60                                                                                                                   |
| UNIT CONSTRUCTION                 |                                                                                                                           |                                                                                                                           |
| Material                          | Black, anodized, seawater-proof aluminium                                                                                 |                                                                                                                           |
| ACCESSORIES                       |                                                                                                                           |                                                                                                                           |
| Thermostat*                       | HLTSTAT10C, HLTSTAT20C                                                                                                    |                                                                                                                           |
| UNIT DIMENSIONS                   |                                                                                                                           |                                                                                                                           |
| Height (in./mm)                   | 3.5/90                                                                                                                    | 3.5/90                                                                                                                    |
| Width (in./mm)                    | 1.6/40                                                                                                                    | 1.6/40                                                                                                                    |
| Depth (in./mm)                    | 1.2/30                                                                                                                    | 1.2/30                                                                                                                    |
| Weight (lb./kg)                   | 1.1/.50                                                                                                                   | 1.1/.50                                                                                                                   |

\* Thermostats sold separately as an accessory.

Performance Data **200W, 300W, 400W, 600W Hazardous Location Heaters**

| CATALOG NUMBERS                   |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|----------------|
|                                   | DAHHL200AC                                                                                                                | DAHHL300AC    | DAHHL4001A                                                                                                                | DAHHL4002A     | DAHHL6001A                                                                                                                | DAHHL6002A     |
| HEATING PERFORMANCE               |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Watts                             | 200                                                                                                                       | 300           | 400                                                                                                                       | 400            | 600                                                                                                                       | 600            |
| Heating Type                      | Convection                                                                                                                | Convection    | Convection                                                                                                                | Convection     | Convection                                                                                                                | Convection     |
| Power Regulation                  | Self Limiting                                                                                                             | Self Limiting | Constant Power                                                                                                            | Constant Power | Constant Power                                                                                                            | Constant Power |
| HAZARDOUS LOCATION CERTIFICATIONS |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Agency Approvals                  | ATEX, IECEx, CE, cCSAus                                                                                                   |               | ATEX, IECEx, CE, cCSAus                                                                                                   |                | ATEX, IECEx, CE, cCSAus                                                                                                   |                |
| ATEX / IECEx Certification        | PTB 02 ATEX 1116X<br>IECEx PTB 07.0055 X<br>II 2 G Ex db IIC T3<br>II 2 D Ex tb IIIC T200°C                               |               | PTB 02 ATEX 1041X<br>IECEx PTB 07.0052 X<br>II 2 G Ex db IIC T3<br>II 2 D Ex tb IIIC T200°C                               |                | PTB 02 ATEX 1041X<br>IECEx PTB 07.0052 X<br>II 2 G Ex db IIC T3<br>II 2 D Ex tb IIIC T200°C                               |                |
| NEC cCSAus Certification          | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T3<br>Class II Div 1 Groups E,F,G |               | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T3<br>Class II Div 1 Groups E,F,G |                | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T3<br>Class II Div 1 Groups E,F,G |                |
| ELECTRICAL DATA                   |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Rated Voltage (VAC or VDC)        | 110 - 265                                                                                                                 | 110 - 265     | 108 - 132                                                                                                                 | 207 -253       | 108 - 132                                                                                                                 | 207 -253       |
| Operating Range                   |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Maximum ( F/C)                    | 302/150                                                                                                                   | 302/150       | 302/150                                                                                                                   | 302/150        | 302/150                                                                                                                   | 302/150        |
| Minimum (F/C)                     | -76/-60                                                                                                                   | -76/-60       | -76/-60                                                                                                                   | -76/-60        | -76/-60                                                                                                                   | -76/-60        |
| UNIT CONSTRUCTION                 |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Material                          | Black, anodized, seawater-proof aluminium                                                                                 |               |                                                                                                                           |                |                                                                                                                           |                |
| ACCESSORIES                       |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Thermostat*                       | HLTSTAT10C, HLTSTAT20C                                                                                                    |               |                                                                                                                           |                |                                                                                                                           |                |
| UNIT DIMENSIONS                   |                                                                                                                           |               |                                                                                                                           |                |                                                                                                                           |                |
| Height (in./mm)                   | 8.9/225                                                                                                                   | 12.8/325      | 8.9/225                                                                                                                   | 8.9/225        | 12.8/325                                                                                                                  | 12.8/325       |
| Width (in./mm)                    | 9.0/229                                                                                                                   | 9.0/229       | 9.0/229                                                                                                                   | 9.0/229        | 9.0/229                                                                                                                   | 9.0/229        |
| Depth (in./mm)                    | 2.4/60                                                                                                                    | 2.4/60        | 2.4/60                                                                                                                    | 2.4/60         | 2.4/60                                                                                                                    | 2.4/60         |
| Weight (lb./kg)                   | 8.7/3.95                                                                                                                  | 12.5/5.65     | 8.7/3.95                                                                                                                  | 8.7/3.95       | 12.5/5.65                                                                                                                 | 12.5/5.65      |

\* A thermostat is required for 400W and 600W models. It is sold separately as an accessory.

Performance Data **Hazardous Location Thermostats**

| CATALOG NUMBERS                   |                                                                                                                           |                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                   | HLTSTAT10C                                                                                                                | HLTSTAT20C                                                                                                                |
| HAZARDOUS LOCATION CERTIFICATIONS |                                                                                                                           |                                                                                                                           |
| Agency Approvals                  | ATEX, IECEx, CE, cCSAus                                                                                                   | ATEX, IECEx, CE, cCSAus                                                                                                   |
| ATEX / IECEx Certification        | PTB 03 ATEX 1136 X<br>IECEx PTB 07.0054<br>II 2 G Ex db IIC T6<br>II 2 D Ex tb IIIC T80°C                                 | PTB 03 ATEX 1136 X<br>IECEx PTB 07.0054<br>II 2 G Ex db IIC T6<br>II 2 D Ex tb IIIC T80°C                                 |
| NEC cCSAus Certification          | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T6<br>Class II Div 1 Groups E,F,G | CSA 1655545 (LR43674)<br>Class I Zone 1 and 2 Group IIC<br>Class I Div 1 Groups A,B,C,D T6<br>Class II Div 1 Groups E,F,G |
| ELECTRICAL DATA                   |                                                                                                                           |                                                                                                                           |
| Rated Voltage (VAC or VDC)        | 0-275                                                                                                                     | 0-275                                                                                                                     |
| Max. Rated Current (Amps)         | 10                                                                                                                        | 10                                                                                                                        |
| Operating Range                   |                                                                                                                           |                                                                                                                           |
| Maximum (F/C)                     | 302/150                                                                                                                   | 302/150                                                                                                                   |
| Minimum (F/C)                     | -76/-60                                                                                                                   | -76/-60                                                                                                                   |
| Thermostats Nominal Setpoints     |                                                                                                                           |                                                                                                                           |
| Switch-on Temperature (°F/°C)     | 50 F/10 C                                                                                                                 | 68 F/20 C                                                                                                                 |
| Switch-off Temperature (°F/°C)    | 64 F/18 C                                                                                                                 | 82 F/28 C                                                                                                                 |
| UNIT CONSTRUCTION                 |                                                                                                                           |                                                                                                                           |
| Material                          | Black, anodized, seawater-proof aluminium                                                                                 |                                                                                                                           |
| UNIT DIMENSIONS                   |                                                                                                                           |                                                                                                                           |
| Height (in./mm)                   | 1.10/28                                                                                                                   | 1.10/28                                                                                                                   |
| Width (in./mm)                    | .90/24                                                                                                                    | .90/24                                                                                                                    |
| Depth (in./mm)                    | 4.30/108                                                                                                                  | 4.30/108                                                                                                                  |
| Weight (lb./kg)                   | .50/20                                                                                                                    | .50/20                                                                                                                    |