# CCAI, CCAIF, CCAIF...H

St.

O

- Zone 1, 2, 21, 22
- Group IIC
- Stainless steel junction boxes

0

- Choice of 4 sizes
- IP66

AISI 316L stainless steel

0

Grub screws for opening lid 2))

Lid opening system

Detail of inside of lid



## CCAI-... series Stainless steel junction boxes gas group IIC

CCAI series junction boxes are installed in industrial plants where there is a risk of explosion and fire, where combustible dust and group IIC gases are present, classified as Zone 1, 2, 21, 22. These enclosures are made from welded 316L sheet stainless steel and come complete with stainless steel screws and a silicone gasket running around the perimeter between the body and lid to provide the IP66 protection degree. The CCAI units are mostly used as junction boxes with relevant connection terminals, as enclosures for fuses, transformers and reactors, as monitoring and signalling boards, light and power boards or motor starter boxes with various configurations, which are custom made to the requirements of our customers worldwide.

Cortem Group labels its products with a non-removable adhesive label featuring a hologram and an alphanumerical univocal code, as a safety measure against the illegal sale of fakes so that all the products are guaranteed as original. Non-compliance with the International standards entails serious risks for the environment, especially for those working daily on the plants.

















Application sectors:

Mining Offshore plants

Onshore Oil refining Oil refining Oil refining Oil Oil Parts

Oil refineries Oil loading/ offloading wharfs

Presence of Low hydrogen temperatures

Cortem product

## **CERTIFICATION DATA FOR EMPTY ENCLOSURES**

| Group I/II<br>zone 1 - zone 2 (Gas) | Categor  | ry 2GD  |
|-------------------------------------|--|---|
| zone 1 - zone 2 (Gas)               | zone 21 - zo   |   |
|                                     |  | ne 22 (Dust)  |
| <b>C€</b> 0722 🐼 II 2 GD - Ex db    | IIC Gb - Ex tb   | IIIC Db - IP66  |
| <b>C€</b> 0722                      | ٨b   |   |
| ATEX CESI 01 ATEX 03                | 40   |   |
| IEC Ex CES 14.0012U                 |  |   |
| UKEX AVAILABLE                      |  | All IEC Ex, UKEX, ECASEx, TR CU certification data  |
| ECASEx AVAILABLE                    |  | can be downloaded from www.cortemgroup.com  |
| TR CU AVAILABLE                     |  |   |
|                                     |  |   |
| 💥 -20°C +60°C 👾                     | Standard tempe   | rature on all CCAI boxes.   |
| -60°C +60°C 🌞                       | Special tempera  | ture.   |
|                                     | IPa  | 56  |
|                                     | C€ 0722 ↔ I M2 - Ex db I M<br>ATEX CESI 01 ATEX 03<br>IEC Ex CES 14.0012U<br>UKEX AVAILABLE<br>ECASEx AVAILABLE<br>TR CU AVAILABLE<br>CENELEC EN 60079-0: 2009, E<br>EN 60529: IP91 and EUROPE | IEC Ex CES 14.0012U<br>UKEX AVAILABLE<br>ECASEx AVAILABLE<br>TR CU AVAILABLE<br>CENELEC EN 60079-0: 2009, EN 60079-1: 20<br>EN 60529: 1991 and EUROPEAN DIRECTIVE 2<br>2<br>2<br>20°C +60°C ♀ Standard temper |



## CERTIFICATION DATA FOR ENCLOSURES WITH TERMINALS

| Classification:           | Group I/II Category 2GD   |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|
| Installation: EN 60079.14 | zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust)  |  |  |  |  |  |
| Marking:                  | C€ 0722 ⓒ II 2 GD - Ex d IIC T6, T5 Gb - Ex tb IIIC T85, T100°C Db - IP66   |  |  |  |  |  |
|                           | C€ 0722   |  |  |  |  |  |
| Certification:            | ATEX CESI 01 ATEX 036X  |  |  |  |  |  |
|                           | IEC Ex CES 16.0013X   |  |  |  |  |  |
|                           | TR CU AVAILABLE All IEC Ex, TR CU, CCoE certification data can be downloaded from www.cortemgroup.com                       |  |  |  |  |  |
|                           | CCoE AVAILABLE  |  |  |  |  |  |
| Standards:                | CENELEC EN 60079-0: 2018 + A11: 2013, EN 60079-1: 2014, EN 60079-31: 2014, EN 60529: 1991 and EUROPEAN DIRECTIVE 2014/34/UE |  |  |  |  |  |
| Ambient Temp.:            | With temperature class T6 and maximum surface temperature T85°C.  |  |  |  |  |  |
|                           | With temperature class T5 and maximum         surface temperature T100°C.   |  |  |  |  |  |
| Degree of protection:     | IP66  |  |  |  |  |  |
| CERTIFICATION DATA OF ENG | CLOSURES FOR CONTROL, MONITORING AND SIGNALLING UNITS   |  |  |  |  |  |
| Classification:           | Group I/II Category 2GD   |  |  |  |  |  |
| Installation: EN 60079.14 | zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust)  |  |  |  |  |  |
| Marking:                  | C€ 0722 ⓒ 112GD - Ex db 11C T6, T5 Gb - Ex tb 111C T85°C, T100°C Db - 1P66  |  |  |  |  |  |
|                           | C€ 0722   |  |  |  |  |  |
| Certification:            | ATEX CESI 01 ATEX 036X  |  |  |  |  |  |
|                           | IEC Ex CES 16.0013X   |  |  |  |  |  |
|                           | ECASEx AVAILABLE All IEC Ex, ECASEx, TR CU, INMETRO certification<br>data can be downloaded from<br>www.cortemgroup.com     |  |  |  |  |  |
|                           | BRAZILIAN TÜV 11.0161   |  |  |  |  |  |
| Standards:                | CENELEC EN 60079-0: 2018, EN 60079-1: 2014, EN 60439-1, EN 60079-31: 2014, EN 60529: 1991 and EUROPEAN DIRECTIVE 2014/34/UE |  |  |  |  |  |
| Ambient Temp.:            | <b>With temperature class T6 and maximum</b> surface temperature T85°C.   |  |  |  |  |  |
|                           | With temperature class T5 and maximum surface temperature T100°C.   |  |  |  |  |  |
|                           | -60°C on request. (Use indicator light series M-0457AL, M-0457AL/3, M-0457IN or M-0457IN/3)                                 |  |  |  |  |  |
| Degree of protection:     | IP66  |  |  |  |  |  |
|                           |   |  |  |  |  |  |



## CERTIFICATION DATA FOR ENCLOSURES SERVING SURGE ARRESTER FUNCTION

| Classification:           | Group I/II   | Categor                             | ry 2GD  |
|---------------------------|--|-------------------------------------|---|
| Installation: EN 60079.14 | zone 1 - zone 2 (Gas)                                    | zone 21 - zo                        | ne 22 (Dust)  |
| Marking:                  | <b>C€</b> 0722   | IC T6, T5 Gb -                      | Ex tb IIIC T85°C, T100°C Db - IP66  |
|                           | C€ 0722 🐼 I M2 - Ex db I M                               | ٨b                                  |   |
| Certification:            | ATEX CESI 01 ATEX 03                                     | 6X                                  |   |
|                           | IEC Ex CES 16.0013X                                      |                                     | All IEC Ex certification data can be downloaded<br>from www.cortemgroup.com |
|                           | TR CU AVAILABLE  |                                     | All TR CU certification data can be downloaded<br>from www.cortemgroup.com  |
| Standards:                | CENELEC EN 60079-0: 2018, E<br>EN 60529: 1991 and EUROPE |                                     | 14, EN 60439-1, EN 60079-31: 2014,<br>014/34/UE                             |
| Ambient Temp.:            | 💥 -20°C +40°C 🔆  | With temperatur<br>surface tempera  | e class T6 and maximum<br>ture T85°C.                                       |
|                           | 🗱 -20°C +55°C 👾  | With temperature<br>surface tempera | e class T5 and maximum<br>ture T100°C.                                      |
|                           | -60°C on request.  |                                     |   |
| Degree of protection:     |  | IPé                                 | 66  |

## CERTIFICATION DATA OF ENCLOSURES SERVING INTERFACE UNIT CONTROL AND MONITORING FUNCTION

| Classification:           | Group I/II  | Category 2GD  |  |  |  |  |
|---------------------------|---|---|--|--|--|--|
| Installation: EN 60079.14 | zone 1 - zone 2 (Gas)   | zone 21 - zone 22 (Dust)  |  |  |  |  |
| Marking:                  | C€ 0722 ⓓ II2(1)GD - Ex d   | b [ia Ga] IIC T Gb - Ex tb [ia Da] IIIC T°C Db - IP66   |  |  |  |  |
|                           | <b>C€</b> 0722 € <b>I M2 Ex db [ia</b> /  | Ma] I Mb  |  |  |  |  |
| Certification:            | ATEX CESI 03 ATEX 17  | 74X   |  |  |  |  |
|                           | IEC Ex CES 16.0015X   |   |  |  |  |  |
|                           | ECASEx AVAILABLE  | All IEC Ex, ECASEx, TR CU, UKEX<br>certification data can be downloaded from<br>www.cortemgroup.com |  |  |  |  |
|                           | UKEX AVAILABLE  | www.contenigroup.com  |  |  |  |  |
| Standards:                |   | EN 60079-1: 2007, EN 60079-11: 2007, EN 60079-26:<br>d EUROPEAN DIRECTIVE 2014/34/UE                |  |  |  |  |
| Ambient Temp.:            | 🗱 -20°C +40°C 🌞   | With temperature class T6 and maximum surface temperature T85°C.                                    |  |  |  |  |
|                           | 💥 -20°C +55°C 🌞   | With temperature class T5 and maximum surface temperature T100°C.                                   |  |  |  |  |
|                           | -60°C on request. (Use indicator light series M-0457AL, M-0457AL/3, M-0457IN or M-0457IN/3) |   |  |  |  |  |
| Degree of protection:     |   | IP66  |  |  |  |  |





## **MECHANICAL FEATURES**

| Body and lid:        | AISI 316L stainless steel. Lid fitted with hinges for body coupling system incorporating cylindrical         |
|----------------------|--|
|                      | joint.   |
| Hinges:              | Stainless steel  |
| Gasket:              | Resistant to acids, hydrocarbons and high temperatures, located between body and lid                         |
| Certification label: | Adhesive label located inside on empty enclosures; stainless steel label riveted onto body on other versions |
| Bolts and screws:    | Stainless steel  |
| Earth screws:        | Stainless steel. On inside and outside of body complete with anti-rotation brackets.                         |
| Mounting:            | Stainless steel lugs.  |

## ACCESSORIES AVAILABLE ON REQUEST/ SPECIAL REQUESTS

1.5mm-thick stainless steel internal mounting plate (code K...-265). See accessories section Possible drilling of the enclosure bottom
Breather valve Code ECD-210S
Drain valve Code ECD-210S
Enclosures with windows on lid
Thread options:
NPT threads ANSI B1.20.1

- GAS UNI ISO 7-1 thread
- Metric threads ISO 261/965

Cortem manufactures any type of custom-made products according to customer specifications and in compliance with the certification data.

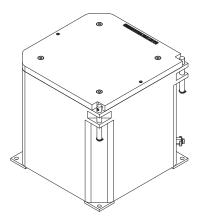


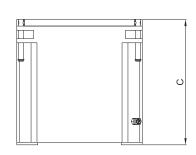
# CCAI-... series Stainless steel junction boxes gas group IIC

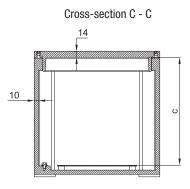
## **ENCLOSURE SELECTION CHART**

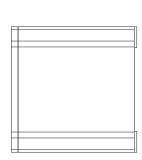
| Code      | Outside dir<br>A | nensions<br>C | Inside dime<br>ØD | ensions<br>C | Mounti<br>i | ng<br>ØG | Weight<br>Kg |
|-----------|------------------|---------------|-------------------|--------------|-------------|----------|--------------|
| CCAI-2020 | 200              | 200           | 160               | 155          | 180         | 10       |              |
| CCAI-3020 | 300              | 200           | 260               | 155          | 280         | 10       |              |
| CCAI-3030 | 300              | 300           | 260               | 255          | 280         | 10       |              |
| CCAI-4030 | 400              | 300           | 360               | 255          | 380         | 12       |              |

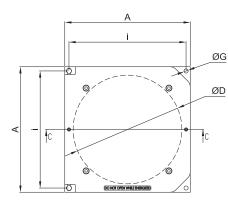
## DIMENSIONAL DRAWING

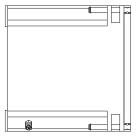








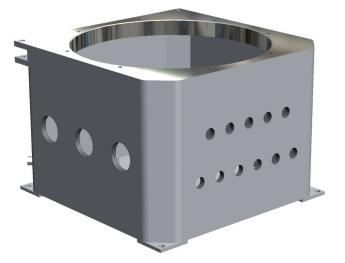




Dimensions in mm



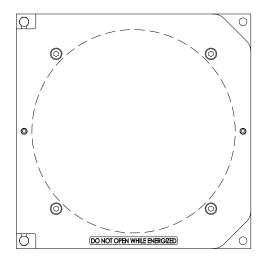
# CCAI-... series Body drilling data

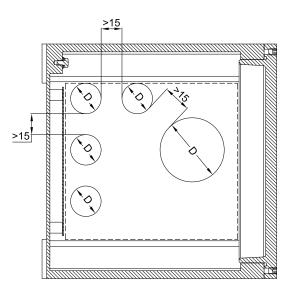


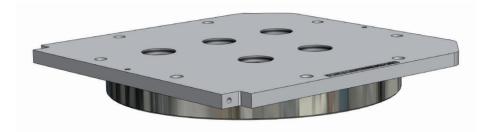
| THREAD COMPARISON CHART     |        |        |        |        |        |        |        |        |         |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| ISO 7-1                     | 1/2"   | 3/4"   |        |        |        |        |        |        |         |
| ANSI B.20.1 NPT             | 1/2"   | 3/4"   |        |        |        |        |        |        |         |
| ISO 261/965                 | 20x1.5 | 25x1.5 | 32x1.5 | 40x1.5 | 50x1.5 | 63x1.5 | 75x1.5 | 90x1,5 | 100x1,5 |
| <b>D</b><br>Thread diameter | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 10      |

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive

|           | HOLE DRILLING IN BODY |                           |    |    |    |          |                     |   |   |    |  |
|-----------|-----------------------|---------------------------|----|----|----|----------|---------------------|---|---|----|--|
| TYPE OF   | One side              |                           |    |    |    |          |                     |   |   |    |  |
| ENCLOSURE | Drilling area         | Drilling area MAXIMUM QUA |    |    |    | ANTITY P | NTITY PER HOLE TYPE |   |   |    |  |
|           | mm                    | 1                         | 2  | 3  | 4  | 5        | 6                   | 7 | 8 | 10 |  |
| CCAI-2020 | 115x125               | 6                         | 6  | 4  | 4  | 2        | 1                   | 1 | 1 | 1  |  |
| CCAI-3020 | 205x120               | 12                        | 8  | 6  | 6  | 5        | 3                   | 2 | 1 | 1  |  |
| CCAI-3030 | 200x220               | 20                        | 16 | 12 | 9  | 6        | 6                   | 4 | 3 | 1  |  |
| CCAI-4030 | 290x225               | 28                        | 25 | 20 | 12 | 12       | 6                   | 6 | 4 | 2  |  |





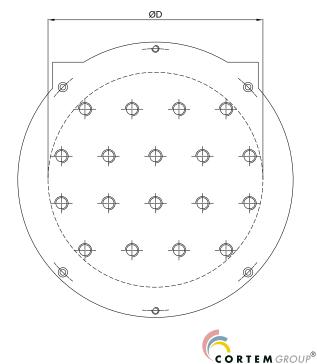


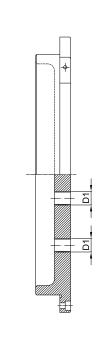
| THREAD COMPARISON CHART |             |         |         |         |         |         |         |         |
|-------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| D1                      | ISO 228     | G 3/8"  | G 1/2"  | G 3/4"  | -       | -       | -       | -       |
|                         | ISO 261/965 | M16x1.5 | M20x1.5 | M25x1.5 | M32x1.5 | M35x1.5 | M40x1.5 | M42x1.5 |

|                        |     | HOLE DRILLING IN LID           |      |      |     |  |  |
|------------------------|-----|--------------------------------|------|------|-----|--|--|
| TYPE OF<br>ENCLOSURE   | ØD  | MAXIMUM QUANTITY PER HOLE TYPE |      |      |     |  |  |
|                        | עש  | 3/8"                           | 1/2" | 3/4" | M32 |  |  |
| CCAI-2020              | 135 | 4                              | 6    | 6    | 6   |  |  |
| CCAI-3020<br>CCAI-3030 | 230 | 7                              | 9    | 9    | 9   |  |  |
| CCAI-4030              | 330 | 18                             | 18   | 18   | 18  |  |  |

#### Notes:

- Standard holes refer to mounting of Cortem control and signalling devices.
- 3/8" Ø holes for Cortem std. side-mounted handles centre-to-centre distance >70mm.
- 1/2" Ø holes for Cortem std. heavy-duty series side-mounted handles centre-to-centre distance >120mm.





## **CCAI-...** series Features of junction boxes with terminals



These enclosures are customized based on size, on the number of terminals or cables they are due to accommodate, or taking into account the number of cable entries and cabling requirements inside a system. Hence we can produce tailor-made solutions as long as you provide us with the appropriate parameters required at the quote request stage, such as the number of cable glands, unions or sealing fittings to be installed, so that we can determine the most suitable size of enclosure. All terminals can be fitted with your requested accessories and mounted on special rails that are fastened to the enclosure's internal mounting frames. Terminal strips can be arranged in various ways, as specified by the customer and always within the limits allowed by the certificate. The options are vertical, horizontal, in a number of rows, or on different levels using suitable spacers.

#### **ELECTRICAL FEATURES**

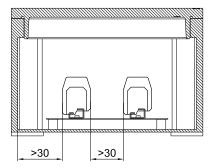
| Rated voltage:<br>Rated frequency:   | 24 / 800 V<br>50 / 60 Hz   |   |
|--|--|---|
| Modular terminals<br>Terminal cross-sectional area:<br>Rated current:<br>Max. current density:   | 2.5; 4; 6; 10; 16; 25; 35; 70; 95; 120; 18<br>12.5 - 400 [A]<br>1.65 - 7 [A/mm²] | 35; 240 [mm²]   |
| Multi-pole terminals<br>Terminal cross-sectional area:<br>Rated current:<br>Max. current density:  | 3x16; 4x16; 3x25; 4x25; 3x40; 3x40; 4x40;<br>48 - 252 [A]<br>0.8 - 3 [A/mm²]     | 3x70; 4x70; 3x125; 3x200; 4x200; 3x315 [mm²]  |
| CORTEM SPA<br>VIA AQUILEIA 10 34070<br>VILLESSE - GO TTALY       Endosurds w         CORTEM M GROUP       20         CESI 01 ATEX 035       (€ 072         Ex tb IIIC T       °C Db       IF         IECEX TSA 06.0012       Ex tb IIIC T       °C Db       IF         VILLESSE - GO TTALY       max current       max current       T | PIECEx label<br>nal enclosures<br>1 2 3<br>                                      | Data filled in:<br>1. year of manufacture<br>2. serial number<br>3. product code<br>4. ambient temperature<br>5. electrical specs<br>6. maximum surface temperature<br>7. temperature class |

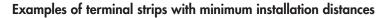


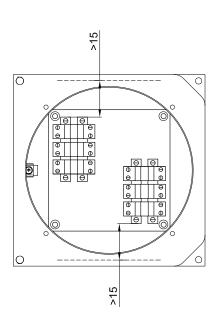
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## CCAI-... series Features of junction boxes with terminals



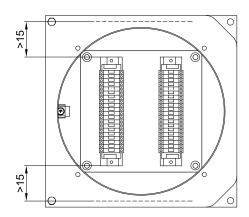


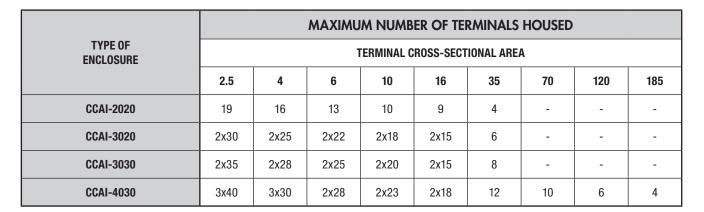


>30

-

>30





Eg. 3x40= 3 rows of 40 terminals (total 120 terminals). The maximum number of standard terminals refers to CABUR terminals







Control, monitoring and signalling units are used to produce control boards that, when positioned near the electrical equipment being controlled, enable the electrical system to operate correctly and guarantee the safety of personnel when maintenance is being performed on the system. Because they are fitted with a Manual/Automatic selector, they allow operators to select the appropriate conditions to enable work to be performed entirely safely. They offer protection and control for electrical equipment and control circuits located in explosion hazard areas and in particularly aggressive environments. They are used to hold electrical equipment, such as switches, indicators, contactors, transformers, analogue and digital components, etc.... with the option of external control by using lid-mounted Cortem control and signalling devices, such as control levers, pushbuttons, indicator lights, etc.... Cortem designs, develops and supplies full cabling for one or more enclosures tailored to your specific requirements, producing panel boards - including even extremely complex solutions - and providing a full inspection and testing service on request.

#### **ELECTRICAL FEATURES**

| Rated voltage:            | 24 / 1000 Vac     | 12 / 250 Vdc |
|---------------------------|-------------------|--------------|
| Max. current on contacts: | 650 A             |              |
| Rated frequency:          | 50 / 60Hz         |              |
| Max. wattage for lamps:   | 5W (for Ta +40°C) |              |
|                           | 3W (for Ta +55°C) |              |

### Features of equipment that can be installed inside enclosures to produce control and monitoring units.

Table of standard electrical features of components that can be installed in enclosures to produce control, monitoring and signalling units.

(The values refer to the catalogues of the leading manufacturers of electrical/electronic components available on the market)

| COMPONENT TYPE                      | Max. V<br>(Volts) | Max. I<br>(Amperes) | Max.<br>power<br>(Watts) |
|-------------------------------------|-------------------|---------------------|--------------------------|
| Analogue and digital instruments    | 660               | 5                   | 10                       |
| Electronic inverters/reactors       | 400               | -                   | 10                       |
| PLCs Multiplexers and<br>amplifiers | 240               | -                   | 80                       |
| Testing and measuring devices       | 240               | -                   | 100                      |
| Circuit breakers                    | 660               | 650                 | -                        |
| Fuses                               | 660               | 400                 | -                        |
| Relays                              | 500               | 10                  | 12                       |
| Electronic control devices          | 660               | -                   | 100                      |
| Contactors                          | 660               | 650                 | 30                       |
| Timers                              | 240               | 10                  | 5                        |
| Twilight relays                     | 240               | -                   | 2                        |
| Capacitors                          | 660               | -                   | -                        |
| Transformers                        | 660               | -                   | 200                      |
| Resistors                           | 240               | -                   | 300                      |
| Terminals                           | 660               | -                   | -                        |
| Reactors                            | 277               | 7.5                 | 40                       |

Minimum air gap between components

| Component voltage<br>(V ac) | Min. air gap<br>(mm) |  |  |
|-----------------------------|----------------------|--|--|
| 60 - 250                    | 6                    |  |  |
| 250 - 380                   | 8                    |  |  |
| 380 - 500                   | 10                   |  |  |
| 500 - 660                   | 12                   |  |  |
| 660 - 1000                  | 20                   |  |  |
|                             |                      |  |  |
| Component voltage<br>(V dc) | Min. air gap<br>(mm) |  |  |
| 12 - 250                    | 6                    |  |  |



## Table with maximum power dissipation values for CCAI-...series enclosures.

The temperature classes and maximum surface temperatures of control and monitoring unit enclosures depend on the size of the enclosure, ambient temperature and power dissipation inside the enclosure.

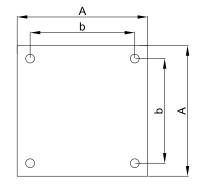
|                | Maximum power dissipation (Watts) with ambient temperature of +40°C |   |  |  |  |  |  |  |
|----------------|---|---|--|--|--|--|--|--|
| Enclosure type | T6 class without indicator lights. Only indicator LEDs are allowed  | T5 class with indicator lights and/or<br>LEDs | T5 class without indicator lights. Only indicator LEDs are allowed |  |  |  |  |  |
| CCAI-2020      | 30  | 35  | 42   |  |  |  |  |  |
| CCAI-3020      | 50  | 54  | 68   |  |  |  |  |  |
| CCAI-3030      | 80  | 85  | 120  |  |  |  |  |  |
| CCAI-4030      | 105   | 112   | 170  |  |  |  |  |  |

|                | Maximum power dissipation (Watts) with ambient temperature of +55°C |   |  |  |  |  |  |  |
|----------------|---|---|--|--|--|--|--|--|
| Enclosure type | T6 class without indicator lights. Only indicator LEDs are allowed  | T5 class with indicator lights and/or<br>LEDs | T5 class without indicator lights. Only indicator LEDs are allowed |  |  |  |  |  |
| CCAI-2020      | 25  | 27  | 34   |  |  |  |  |  |
| CCAI-3020      | 39  | 42  | 53   |  |  |  |  |  |
| CCAI-3030      | 60  | 65  | 100  |  |  |  |  |  |
| CCAI-4030      | 90  | 100   | 140  |  |  |  |  |  |

| DON'T FORGET TO ORDER THE ACCESSORIES |                             |   |                                   |   |                         |   |              |           |  |
|---------------------------------------|-----------------------------|---|-----------------------------------|---|-------------------------|---|--------------|-----------|--|
| Example:                              | Enclosure type<br>CCAI-3020 | + | Internal mounting<br>plate K2-265 | + | Cable glands,<br>unions | 1 | othersee key | ACCESSORY |  |

| ILLUSTRATION | DESCRIPTION                                | MODEL                    | FEATURES  | CODE     | KEY       |  |
|--------------|--|--------------------------|---|----------|-----------|--|
|              |  | CCAI-2020                |   | K1-265   |           |  |
|              |  | CCAI-3020                | Material:   | K2-265   |           |  |
|              | Internal mounting plates                   | CCAI-3030                | AISI 316L stainless steel   | K2-265   | ACCESSORY |  |
|              |  | CCAI-4030                |   | K3-265   |           |  |
|              | Breather and drain valve                   | thread Ø<br>ISO 7-R 3/8" | Material:<br>stainless steel  | ECD-210S | ACCESSOR  |  |
|              | Cable glands and unions                    |                          | For models and codes,<br>visit<br>www.cortemgroup.com   |          | ACCESSOR  |  |
|              | Lid-mounted control and signalling devices |                          | For control and signalling<br>device models and<br>codes, see control<br>and monitoring device<br>chapter |          |           |  |

| Enclosures  | Internal mounting plates |     |        |  |  |  |
|-------------|--------------------------|-----|--------|--|--|--|
| Eliciosures | Α                        | b   | Code   |  |  |  |
| CCAI-2020   | 119                      | 99  | K1-265 |  |  |  |
| CCAI-3020   | 190                      | 170 | K2-265 |  |  |  |
| CCAI-3030   | 190                      | 170 | K2-265 |  |  |  |
| CCAI-4030   | 260                      | 240 | K3-265 |  |  |  |



## CCAIF-..., CCAIF...H Stainless steel junction boxes gas group IIC

**CCAIF** 

CCAIF...H



CCAIF and CCAIF...H series junction boxes in stainless steel have a **screw cover** with or without round window. They are used either as junction boxes with/without terminals and the body and cover can be drilled and threaded according to customers' specification. In accordance with rules, Cortem only can perform the drilling.

#### **CARATTERISTICHE MECCANICHE**

| Body and lid:<br>Gasket:<br>Certification label: | AISI 316L stainless steel.<br>Resistant to acids, hydrocarbons and high temperatures, located between body and lid<br>Adhesive label located inside on empty enclosures; stainless steel label riveted onto body on<br>other versions. |
|--|--|
| Bolts and screws:                                | Stainless steel.   |
| Earth screws:                                    | Stainless steel. On inside and outside of body complete with anti-rotation brackets.   |
| Mounting:  | Stainless steel lugs.  |

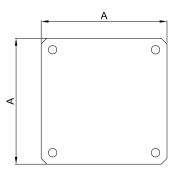
## ACCESSORI A RICHIESTA / ESECUZIONI SPECIALI

Breather valve Code ECD-210S Drain valve Code ECD-210S Enclosures with windows on lid Thread options:

- NPT threads ANSI B1.20.1
- GAS UNI ISO 7-1 thread
- Metric threads ISO 261/965

Cortem manufactures any type of custom-made products according to customer specifications and in compliance with the certification data.

1.5mm-thick stainless steel internal mounting plate

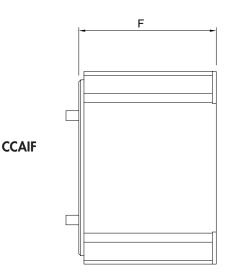


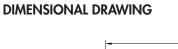
| Code   | Dimensions<br>A | Box type   |
|--------|-----------------|------------|
| K2-349 | 110             | CCAIF-2020 |
| K3-349 | 180             | CCAIF-3020 |
| K4-349 | 260             | CCAIF-4030 |

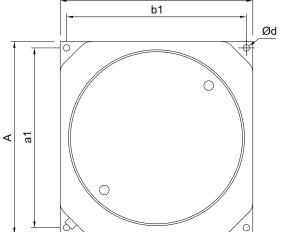


## **ENCLOSURE SELECTION CHART**

| Code       | Outside dimensions |     |     |     | Mounting |    |    |  |
|------------|--------------------|-----|-----|-----|----------|----|----|--|
|            | Α                  | В   | F   | a1  | b1       | Ød | Kg |  |
| CCAIF-2020 | 200                | 200 | 200 | 180 | 180      | 10 |    |  |
| CCAIF-3020 | 300                | 300 | 200 | 280 | 280      | 10 |    |  |
| CCAIF-4030 | 400                | 400 | 300 | 380 | 380      | 12 |    |  |







в

| Code        | Outside dimensions |     |     |     | Mounting |     |    |    |
|-------------|--------------------|-----|-----|-----|----------|-----|----|----|
|             | A                  | В   | F   | D1  | a1       | b1  | Ød | Kg |
| CCAIF-2020H | 200                | 200 | 200 | 90  | 180      | 180 | 10 |    |
| CCAIF-3020H | 300                | 300 | 200 | 140 | 280      | 280 | 10 |    |
| CCAIF-4030H | 400                | 400 | 300 | 180 | 380      | 380 | 12 |    |

## DIMENSIONAL DRAWING

