



**DATASHEET**  
Free-Standing  
Outdoor Enclosures  
outTEG OMR

# outTEG OMR—

## FREE-STANDING OUTDOOR ENCLOSURES




OMR-DN-106506-R

➤ The outTEG OMR free-standing outdoor enclosure presents an ideal solution for projects with high demands on safety of installed equipment and on stable in-rack climate. Double-walled case design safeguards the installed components from all-weather as well as from vandalism thanks to the cabinet's compact structure which prevents access to the installed components from the outside. For extreme weather conditions, the side panel variants can be modified to allow the installation of fans or air-conditioning units. Resistance to weather is ensured mainly by the AlMg3 alloy used for the cabinet case and the applied finish of polyester powder coating with UV protection. Additional protection is provided by the stainless steel frame and the plinth.

### MAIN ADVANTAGES

- Features integrated roof and plinth
- Welded stainless steel enclosure frame
- All removable parts are made of aluminum
- Compact design—no point of access for lever-type tools
- Ready for crane transport

COLOR:  RAL 7035  RAL 7046



### DESCRIPTION

#### Material

- Door, rear/side panels, roof—2 mm AlMg3
- Frame, plinth—2 mm stainless steel 1.4016 (AISI 403)

#### Coating

- Polyester powder coating with UV protection

#### Color

- Body color—RAL 7035
- Roof and plinth color—RAL 7046

#### IP rating

- IP66 (degree of IP rating can be reduced after mounting some accessories)

#### Seismic protection

- Seismic approvals according to Bellcore GR-63-CORE Zone 3 (Zone 4 upon request)

#### Package includes

- Double-walled outdoor cabinet, fully mounted

- Ventilation—natural air flow between inner and outer walls
- Removable rear panel
- Removable roof
- Front door with multi-point locking system, key combination 333, door stop. Easily configured to a right or left hand door mounting
- 100 mm plinth
- Vertical mounting internal rails with 25 mm perforations

- Removable gland plate
- Set-up for eye-bolts
- Side panels need to be ordered separately (see page 10)

outTEG OMR— FREE-STANDING OUTDOOR ENCLOSURES, DOUBLE-WALLED, SINGLE DOOR, HEIGHT 600–1 200 mm							
H (U)	Package	12 U	16 U	21U	21U	25 U	25 U
H (mm)		600	800	1000	1000	1200	1200
W (mm)		650	650	650	800	800	1000
D (mm)		600	600	600	500	800	700
Weight (kg)		63	69	81	82	115	119
Code	1 pc	OMR-DN-066506-R	OMR-DN-086506-R	OMR-DN-106506-R	OMR-DN-100805-R	OMR-DN-120808-R	OMR-DN-121007-R
ACCESSORIES							
Side panel **	1 pc	OMR-DN-S0606-1	OMR-DN-S0806-1	OMR-DN-S1006-1	OMR-DN-S1005-1	OMR-DN-S1208-1	OMR-DN-S1207-1
Mounting plate, full installation	1 pc	IDO-MM-F665	IDO-MM-F865	IDO-MM-F1065	IDO-MM-F108	IDO-MM-F128	IDO-MM-F1210
19" and 21" vertical rails	1 pair	IDO-MR-V6	IDO-MR-V8	IDO-MR-V10	IDO-MR-V10	IDO-MR-V12	IDO-MR-V12
ETSI vertical rails	1 pair	IDO-MR-E6	IDO-MR-E8	IDO-MR-E10	IDO-MR-E10	IDO-MR-E12	IDO-MR-E12
N profile for vertical rails	1 pair	IDO-MR-N6 *	IDO-MR-N6 *	IDO-MR-N6 *	IDO-MR-N5 *	IDO-MR-N8 *	–
L profile for vertical rails	1 set	–	–	–	IDO-MR-L5	IDO-MR-L8	IDO-MR-L7
Horizontal rail	1 pair	see page 16					
Baying kit	1 set	OMR-DN-K0606	OMR-DN-K0806	OMR-DN-K1006	OMR-DN-K1005	OMR-DN-K1208	OMR-DN-K1207
Fixing frame for concrete base	1 pc	IDO-MF-P6506	IDO-MF-P6506	IDO-MF-P6506	IDO-MF-P0805	IDO-MF-P0808	IDO-MF-P1007

\* You have to order 2 sets, for 1400 a 1600 mm height must be ordered 3 sets. For 800 mm wide enclosures with IDO-MR-Nxx, an IDO-MR-N-B holder (2 sets for 1 set of IDO-MR-Nxx) must be ordered as well.

outTEG OMR— FREE-STANDING OUTDOOR ENCLOSURES, DOUBLE-WALLED, SINGLE DOOR, HEIGHT 1400–1 600 mm							
H (U)	Package	30 U	34 U	34 U	34 U	34 U	34 U
H (mm)		1400	1600	1600	1600	1600	1600
W (mm)		650	650	800	800	1000	1000
D (mm)		600	400	700	1000	800	800
Weight (kg)		91	97	107	124	169	169
Code	1 pc	OMR-DN-146506-R	OMR-DN-166504-R	OMR-DN-160807-R	OMR-DN-160810-R	OMR-DN-161008-R	OMR-DN-161008-R
ACCESSORIES							
Side panel **	1 set	OMR-DN-S1406-1	OMR-DN-S1604-1	OMR-DN-S1607-1	OMR-DN-S1610-1	OMR-DN-S1608-1	OMR-DN-S1608-1
Mounting plate, full installation	1 pc	IDO-MM-F1465	IDO-MM-F1665	IDO-MM-F168	IDO-MM-F168	IDO-MM-F1610	IDO-MM-F1610
19" and 21" vertical rails	1 pair	IDO-MR-V14	IDO-MR-V16	IDO-MR-V16	IDO-MR-V16	IDO-MR-V16	IDO-MR-V16
ETSI vertical rails	1 pair	IDO-MR-E14	IDO-MR-E16	IDO-MR-E16	IDO-MR-E16	IDO-MR-E16	IDO-MR-E16
N profile for vertical rails	1 pair	IDO-MR-N6 *	IDO-MR-N4 *	IDO-MR-N7 *	IDO-MR-N10 *	–	–
L profile for vertical rails	1 set	–	–	IDO-MR-L7	IDO-MR-L10	IDO-MR-L8	IDO-MR-L8
Horizontal rail	1 pair	see page 16					
Baying kit	1 set	OMR-DN-K1406	OMR-DN-K1604	OMR-DN-K1607	OMR-DN-K1610	OMR-DN-K1608	OMR-DN-K1608
Fixing frame for concrete base	1 pc	IDO-MF-P6506	IDO-MF-P6504	IDO-MF-P0807	IDO-MF-P0810	IDO-MF-P1008	IDO-MF-P1008

\* You have to order 2 sets, for 1400 a 1600 mm height must be ordered 3 sets. For 800 mm wide enclosures with IDO-MR-Nxx, an IDO-MR-N-B holder (2 sets for 1 set of IDO-MR-Nxx) must be ordered as well. \*\* You have to order 2 pcs.

## SIDE PANELS—plain panel and ready for AC units installation



Plain side panel	Side panel, internal part, ready for modifications*	Side panel, external part, ready for modifications*	Enclosure dimensions H × D (mm)	Package
OMR-DN-S0606-1	OMR-DCMI-S0606	OMR-DCME-S0606	600 × 600	1 pc
OMR-DN-S0806-1	OMR-DCMI-S0806	OMR-DCME-S0806	800 × 600	1 pc
OMR-DN-S1005-1	OMR-DCMI-S1005	OMR-DCME-S1005	1000 × 500	1 pc
OMR-DN-S1006-1	OMR-DCMI-S1006	OMR-DCME-S1006	1000 × 600	1 pc
OMR-DN-S1207-1	OMR-DCMI-S1207	OMR-DCME-S1207	1200 × 700	1 pc
OMR-DN-S1208-1	OMR-DCMI-S1208	OMR-DCME-S1208	1200 × 800	1 pc
OMR-DN-S1406-1	OMR-DCMI-S1406	OMR-DCME-S1406	1400 × 600	1 pc
OMR-DN-S1604-1	OMR-DCMI-S1604	OMR-DCME-S1604	1600 × 400	1 pc
OMR-DN-S1607-1	OMR-DCMI-S1607	OMR-DCME-S1607	1600 × 700	1 pc
OMR-DN-S1608-1	OMR-DCMI-S1608	OMR-DCME-S1608	1600 × 800	1 pc
OMR-DN-S1610-1	OMR-DCMI-S1610	OMR-DCME-S1610	1600 × 1000	1 pc

\* Needs to be ordered together as a set.

- Application: for assembling with outdoor enclosures OMR-DN-xxxxxx-R
- Double-walled construction
- Material: 2 mm AlMg3
- Color: RAL 7035
- OMR-DN-Sxxxx-1 plain side panel, for enclosures without climate solution you need 2 pcs, IP66
- OMR-DCMI-Sxxxx and OMR-DCME-Sxxxx plus cutouts in CONTEG Modification Center are ready for installation of cooling unit, IP56  
For complete solution with cooling unit AC-WMO you still have to order 1 pc of OMR-DN-Sxxxx-1
- For more information about cooling units, please visit page 22
- Package includes: assembly parts, variants of side panels

## SIDE PANELS—with AC unit



	Code	Description	Page
1	OMR-DCME-Sxxxx	Side panel, external part, ready for modifications	10
2	OMR-DCMI-Sxxxx	Side panel, internal part, ready for modifications	10
3	AC-WMO-xx-xxxx	Outdoor cooling unit	22

## SIDE PANELS—with forced ventilation



- Application: for assembling with cabinets OMR-DN-xxxxxx-R
- Double-walled construction
- Material: 2 mm AlMg3
- Color: RAL 7035 (light grey, with UV protection for outdoor use)
- OMR-DV-Sxxxx assembled side panels (pair) with forced ventilation 180 m<sup>3</sup>/h, 230 ACV (one side with filter fan and thermostat for cooling, and second one with outlet grid), IP55
- Package includes: assembly parts, variants of side panels

Side panels with filter fan and outlet grid	Outdoor enclosure dimensions H × D (mm)	Package *
OMR-DV-S0606	600 × 600	1 set
OMR-DV-S0806	800 × 600	1 set
OMR-DV-S1005	1000 × 500	1 set
OMR-DV-S1006	1000 × 600	1 set
OMR-DV-S1207	1200 × 700	1 set
OMR-DV-S1208	1200 × 800	1 set
OMR-DV-S1406	1400 × 600	1 set
OMR-DV-S1604	1600 × 400	1 set
OMR-DV-S1607	1600 × 700	1 set
OMR-DV-S1608	1600 × 800	1 set
OMR-DV-S1610	1600 × 1000	1 set

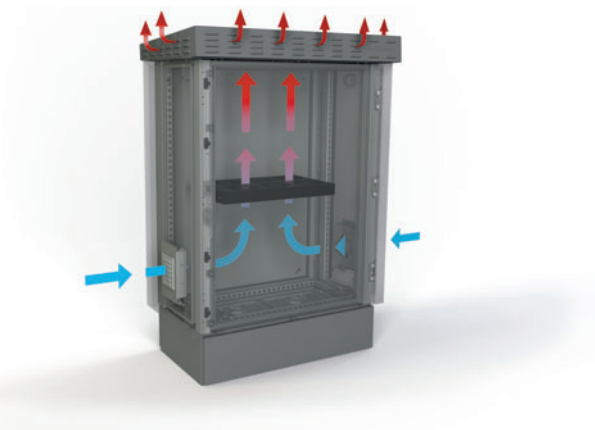
\* 1 set—2 pcs.

## PERFORATED ROOF



- Application: assembled with OMR-DN-xxxxxx-R enclosures
- Material: 2 mm AlMg3
- Color: RAL 7046 (dark grey, with UV protection for outdoor use)
- Package includes: assembly parts

Forced ventilation: perforated roof + ventilation units + modification cover with outlet grid



Ventilation with 19" units + modification cover with outlet grid



PERFORATED ROOF		
Code	For outdoor enclosure dimensions W × D (mm)	Package
OMR-DV-R6504	650 × 400	1 set
OMR-DV-R6506	650 × 600	1 set
OMR-DV-R0805	800 × 500	1 set
OMR-DV-R0807	800 × 700	1 set
OMR-DV-R0808	800 × 800	1 set
OMR-DV-R0810	800 × 1000	1 set
OMR-DV-R1007	1000 × 700	1 set
OMR-DV-R1008	1000 × 800	1 set

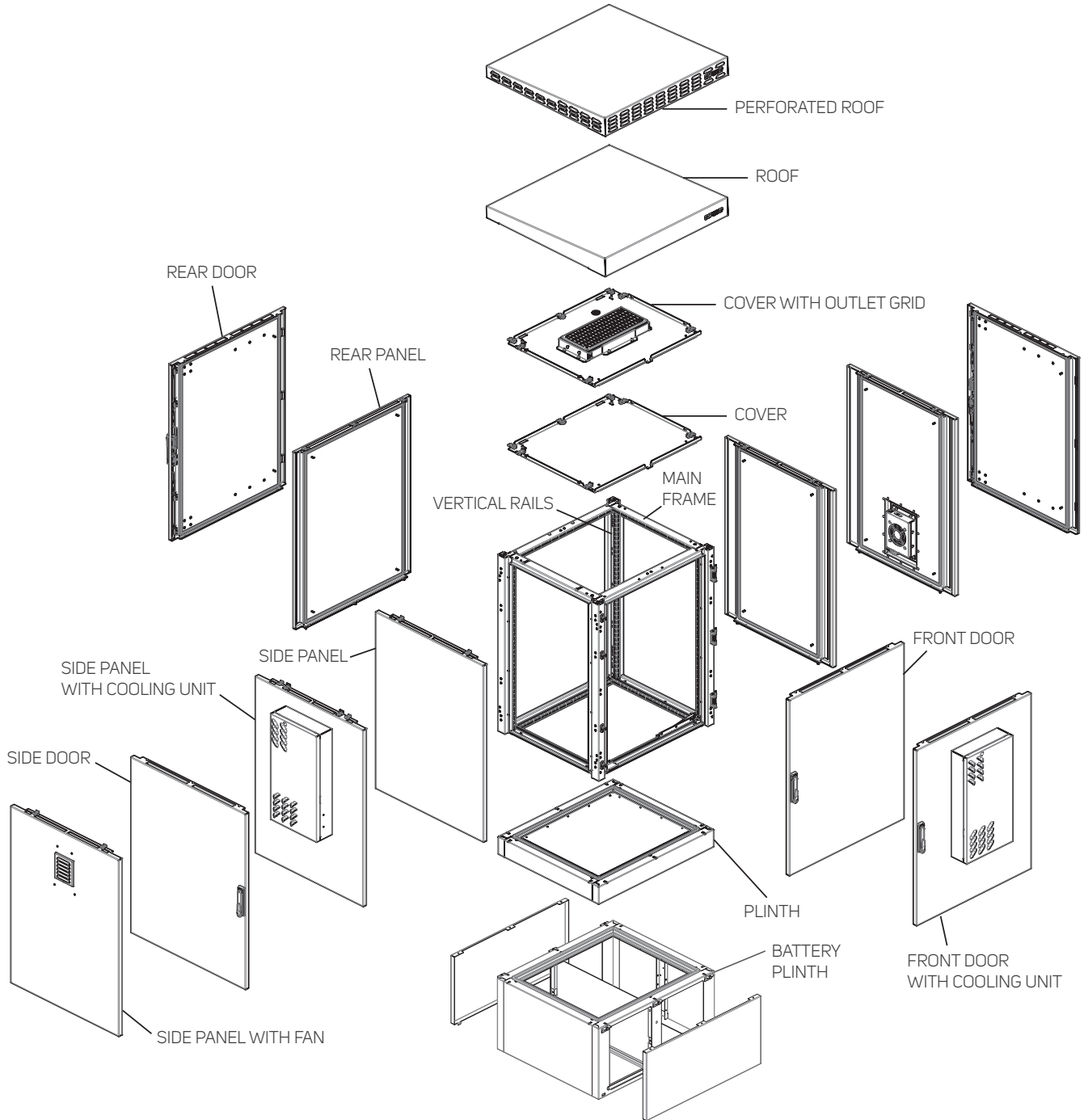
SIDE PANELS WITH OUTLET GRID—FOR VENTILATION IN ROOF		
Code	For outdoor enclosure dimensions H × D (mm)	Package *
OMR-DV-S1005-54	1000 × 500	1 set
OMR-DV-S1207-54	1200 × 700	1 set
OMR-DV-S1208-54	1200 × 800	1 set
OMR-DV-S1406-54	1400 × 600	1 set
OMR-DV-S1604-54	1600 × 400	1 set
OMR-DV-S1607-54	1600 × 700	1 set
OMR-DV-S1608-54	1600 × 800	1 set
OMR-DV-S1610-54	1600 × 1000	1 set

\* 1 set—2 pcs.

# CUSTOMIZED SOLUTIONS FOR outTEG OMR

➤ If you don't choose from our basic series, you can design your own outdoor cabinet according to specific requirements.

Use our web configurator <https://partner.conteg.com/en/outteg/step1> or contact with our experienced sales representatives, who will gladly help you.



## EXAMPLE OF CUSTOMIZED SOLUTIONS FOR outTEG OMR

➤ Support for natural ventilation between the inner and outer walls with roof mounted fans.



# INTERIOR INSTALLATION

## 19", 21" AND ETSI VERTICAL RAILS

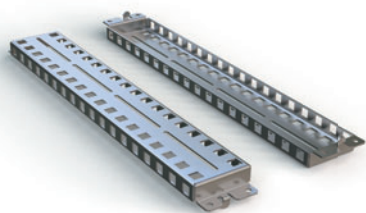


- Application: in combination with N or L profiles
- Material: 2 mm galvanized sheet steel
- Installation: on IDO-MR-Nxx/IDO-MR-Lxx rails
- Package includes: assembly parts

Code (19", 21")	Code (ETSI)	For enclosure height mm (in U)	Package *
IDO-MR-V6	IDO-MR-E6	600 (12U)	1 set
IDO-MR-V8	IDO-MR-E8	800 (16U)	1 set
IDO-MR-V10	IDO-MR-E10	1000 (21U)	1 set
IDO-MR-V12	IDO-MR-E12	1200 (25U)	1 set
IDO-MR-V14	IDO-MR-E14	1400 (30U)	1 set
IDO-MR-V16	IDO-MR-E16	1600 (34U)	1 set

\* 1 set—2 pcs.

## N PROFILE FOR VERTICAL RAILS



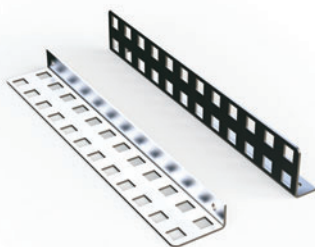
- Application: for 650 and 800 \*\* mm enclosure widths
- Material: 2 mm galvanized sheet steel
- Installation: on the frame profile
- Package includes: assembly parts

Code	For enclosure depth (mm)	Package *
IDO-MR-N4	400	1 set
IDO-MR-N5	500	1 set
IDO-MR-N6	600	1 set
IDO-MR-N7	700	1 set
IDO-MR-N8	800	1 set
IDO-MR-N10	1000	1 set

\* 1 set—2 pcs.

\*\* You have to order 2 sets, for 1400 and 1600 mm heights must be ordered 3 sets. For 800 mm wide enclosures with IDO-MR-Nxx, an IDO-MR-N-B holder (2 sets for 1 set of IDO-MR-Nxx) must be ordered as well.

## L PROFILE FOR VERTICAL RAILS



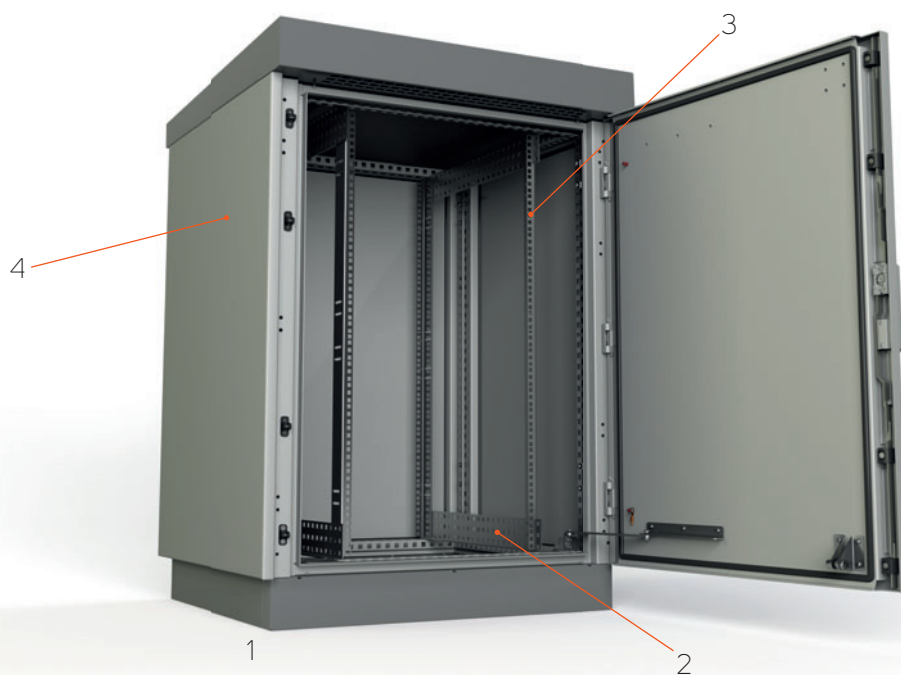
- Application: for 800 and 1000 mm enclosure widths
- Material: 2 mm galvanized sheet steel
- Installation: on the frame profile
- Package includes: assembly parts

Code	For enclosure depth (mm)	Package *
IDO-MR-L5	500	1 set
IDO-MR-L7	700	1 set
IDO-MR-L8	800	1 set
IDO-MR-L10	1000	1 set

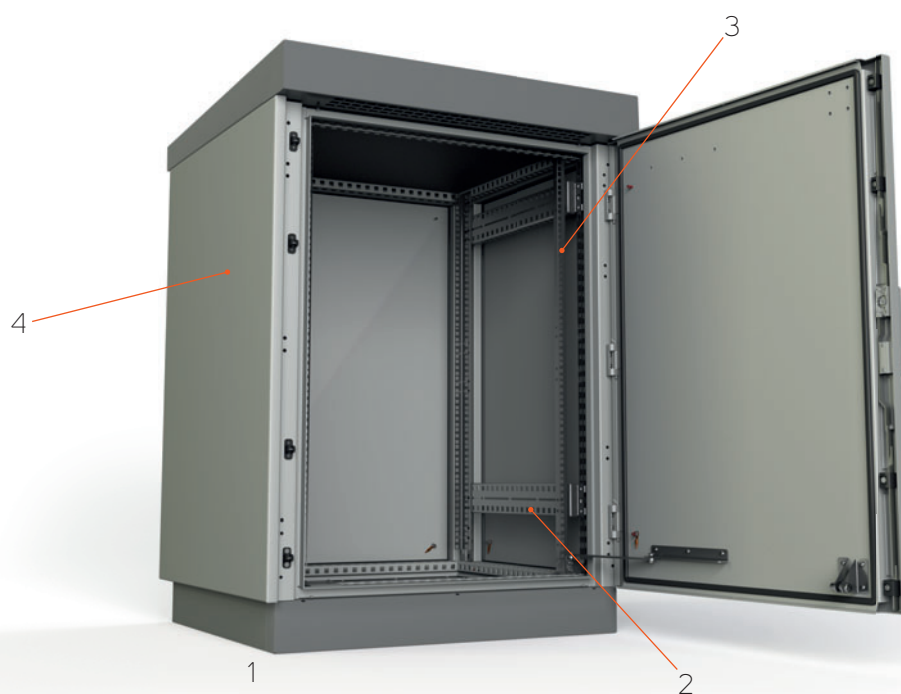
\* 1 set – 4 pcs.



## TYPICAL MOUNTING OPTIONS FOR outTEG OMR

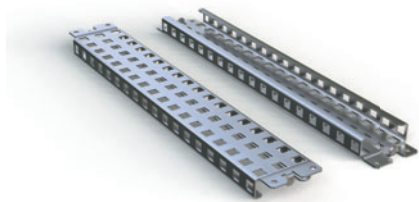


	Code	Description	Page
1	OMR-DN-xxxxxx-R	Outdoor cabinet	9
2	IDO-MR-Lx	L profile for 19" vertical rails (1 set)	14
3	IDO-MR-Vx	Vertical rails (1 set for front and 2 sets for front and rear 19" extrusions)	14
4	OMR-DN-Sxxxx-1	Plain side panels (2 pcs)	10



	Code	Description	Page
1	OMR-DN-xxxxxx-R	Outdoor cabinet	9
2	IDO-MR-Nx	N profile for 19" vertical rails (2-3 sets depends on height of cabinet)	14
3	IDO-MR-Vx	Vertical rails (1 set for front and 2 sets for front and rear 19" extrusions)	14
4	OMR-DN-Sxxxx-1	Plain side panels (2 pcs)	10

## HORIZONTAL AND VERTICAL RAILS



- Application: for additional mounting positions
- Material: 2 mm galvanized sheet steel
- Installation: on the frame profile
- Package includes: assembly parts



## MOUNTING PLATE



- Application: possibility to combine with 19" extrusions
- Material: 3 mm galvanized sheet steel
- Package includes: assembly parts

### VERTICAL RAIL FOR ENCLOSURE HEIGHT

Code	For enclosure H (mm)	Load (kg)	Package *
IDO-MR-HH6	600	240	1 set
IDO-MR-HH8	800	180	1 set
IDO-MR-HH10	1000	140	1 set
IDO-MR-HH12	1200	120	1 set
IDO-MR-HH14	1400	80	1 set
IDO-MR-HH16	1600	80	1 set

### HORIZONTAL RAIL FOR ENCLOSURE WIDTH

Code	For cabinet W (mm)	Load (kg)	Package *
IDO-MR-HW65	650	70	1 set
IDO-MR-HW8	800	50	1 set
IDO-MR-HW10	1000	50	1 set

### HORIZONTAL RAIL FOR ENCLOSURE DEPTH

Code	For cabinet D (mm)	Load (kg)	Package *
IDO-MR-H4	400	140	1 set
IDO-MR-H5	500	100	1 set
IDO-MR-H6	600	70	1 set
IDO-MR-H7	700	60	1 set
IDO-MR-H8	800	50	1 set
IDO-MR-H10	1000	50	1 set

\* 1 set—2 pcs.

### Code For enclosure size H×W (mm) Package

Code	For enclosure size H×W (mm)	Package
IDO-MM-F665	600 × 650	1 pc
IDO-MM-F865	800 × 650	1 pc
IDO-MM-F1065	1000 × 650	1 pc
IDO-MM-F108	1000 × 800	1 pc
IDO-MM-F128	1200 × 800	1 pc
IDO-MM-F1210	1200 × 1000	1 pc
IDO-MM-F1465	1400 × 650	1 pc
IDO-MM-F1665	1600 × 650	1 pc
IDO-MM-F168	1600 × 800	1 pc
IDO-MM-F1610	1600 × 1000	1 pc

## BAYING KIT



- Baying kit for assembling of cabinets in row
- Application: for assembling with OMR-DN-xxxxxx-R cabinets
- Double-walled construction
- Material: 2 mm AlMg3
- Protection degree of assembled cabinets: IP55
- Color: RAL 7035 (light grey, with UV protection for outdoor use)
- Package includes: assembly parts

Code	For enclosure size HxD (mm)	Package
OMR-DN-K0606	600 × 600	1 set
OMR-DN-K0806	800 × 600	1 set
OMR-DN-K1005	1000 × 500	1 set
OMR-DN-K1006	1000 × 600	1 set
OMR-DN-K1207	1200 × 700	1 set
OMR-DN-K1208	1200 × 800	1 set
OMR-DN-K1406	1400 × 600	1 set
OMR-DN-K1604	1600 × 400	1 set
OMR-DN-K1607	1600 × 700	1 set
OMR-DN-K1608	1600 × 800	1 set
OMR-DN-K1610	1600 × 1000	1 set



## FIXING FRAME FOR CAST CONCRETE BASE



- Fixing frame for right position and installation of outTEG cabinet
- Application: for assembling with both series of outTEG cabinets
- Welded frame with anchors and screws
- Material: 4 mm galvanized sheet steel
- Package includes: assembly parts

Code	For enclosure sizes WxD (mm)	Package
IDO-MF-P6504	650 × 400	1 set
IDO-MF-P6506	650 × 600	1 set
IDO-MF-P0805	800 × 500	1 set
IDO-MF-P0807	800 × 700	1 set
IDO-MF-P0808	800 × 800	1 set
IDO-MF-P0810	800 × 1000	1 set
IDO-MF-P1007	1000 × 700	1 set
IDO-MF-P1008	1000 × 800	1 set



# ACCESSORIES

## DOOR SWITCH



- Material of bracket: 2 mm zinc-plated sheet steel
- Door switch: IP65, plastic, 1NO + 1NC, PG13,5, -25 °C to +70 °C
- Rated current: 10 A/250 VAC
- Plug: grey ST 17/2
- Supply cable: 1 m, 2G 1,0 mm<sup>2</sup>
- Package includes: door switch and all necessary assembly parts

Code	Package
IDO-DC	1 pc

## POCKET FOR DOCUMENTS



- Material: ABS
- Color: RAL 7035
- Dimensions: 234 × 241 × 31 mm (H × W × D)
- Mounting: with self-adhesive tape
- Package includes: plastic pocket for documents and adhesive tape

Code	Package
ID-PO-A4	1 pc

## LIGHTING UNIT



- Lamp: LED, 120° angle, 6 500 K
- Luminosity: 400 lm
- Voltage/Frequency: 24-265 V DC/AC ~50/60 Hz
- Power consumption: 5 Watt
- Control of light: Built-in Motion Sensor, switch-off time 5 min.
- Mounting: Magnets
- Operating temperature range: -30°C – 70°C
- Dimensions: 357,4 × 32 × 35,5 mm (H × W × D)
- Weight: 140 gr.
- Certifications: CE, UL

Code	Description	Package
DP-OJ-06	Lighting unit 400 lm with motion sensor, for 24 to 265V/50-60Hz, magnetic fixing	1 set

## EYE BOLTS



- Eye bolts for crane transport
- Application: for assembling with OMR-DN-xxxxxx-R, holes with internal threads under roof
- Material: zinc-plated carbon steel
- DIN580
- M10
- Package includes: 4 pcs

Code	Package
IDO-EB	1 set

# RAMOS MONITORING SYSTEM

## RAMOS PLUS



- 4 auto-sense intelligent sensor ports; can be set to either input or output
- All accessories powered via Intelligent ports
- Communication via SNMP v1, v2 and v3
- Notification via email and SNMP traps
- Fully embedded TCP/IP and web server
- Syslog and history with sensor graphs
- Network management system integration
- Security login for user and administrator
- Package includes: RAMOS Plus monitoring device, power adapter, 1.5 m crossover patch cord cable, bracket with screws and installation CD

➤ **RAMOS Plus** is an entry model of the RAMOS intelligent range, designed for use in indoor and outdoor cabinets. Available in either standard or GSM options, the latter with a built-in GSM modem and external antenna. Four intelligent ports provide ample opportunity for multiple use. Improved intelligent ports support a full range of accessories, including RAMOS Ultra for intelligent ports.

RAMOS PLUS	
Code	Package
RAMOS PLUS	1 set *
RAMOS PLUS GSM	1 set **

\* RAMOS Plus monitoring device, power adapter, 1.5 m crossover patch cord cable, bracket with screws and installation CD.  
 \*\* RAMOS Plus monitoring device with built-in 3G modem, GSM antenna with magnetic gripping and SMA connector, power adapter, 1.5 m crossover patch cord cable, bracket with screws and installation CD.

INTELLIGENT ACCESSORIES FOR RAMOS PLUS		
Code	Description	Package
RMS-I-ST	One wire temperature sensor with 30 cm cable; can be extended up to 30 m (Cat. 5/6 LAN) via Cat. 5 coupler (included)	1 set
RMS-I-STH	One wire temperature and humidity sensor with 30 cm cable. Humidity range 0–100%. Can be extended up to 30 m (Cat. 5/6 LAN) via CAT. 5 coupler (included).	1 set
RMS-I-STHB	One wire temperature and humidity sensor in Box with free 1.5 m LAN cable. Humidity range 0–100%. Can be extended up to 300 m (Cat. 5/6 LAN).	1 set
RMS-I-AF	Airflow sensor with attached 1.5 m LAN cable (Cat. 5). On/off airflow signal alarm.	1 set
RMS-I-AS	Siren & Strobe light with attached LAN cable (Cat. 5) 1.5 m. 100 db siren sound and flashing strobe interval 400x per minute. Cable can be extended up to 30 m (Cat. 5/6 LAN).	1 set
RMS-I-DE-01	Smoke detector with attached 1.5 m LAN cable (Cat. 5). On/off smoke detector alarm. Can be connected via dry contact when 9 V battery is used.	1 set
RMS-I-DE-02	PIR motion detector with attached 1.5 m LAN cable (Cat. 5). Can be connected in a chain of up to 10 Motion Detector Sensors on a single port. 60° detection angle. 3 m detection range.	1 set
RMS-I-DE-04	Spot water sensor with 4.5 m cable. Maximum cable extension 60 m.	1 set
RMS-I-DE-06	Rope water sensor with 3 m detection cable. 1.5 m LAN communication cable (Cat. 5) included (max. length 30 m). Protects water-sensitive equipment from potential disaster. Detects battery Acid for short-term exposure. Sensor cable can be extended via RMS-I-DE-06-EXT3.	1 set
RMS-I-DE-06-EXT3	3 m sensor rope extension for RMS-I-DE-06; maximum extension 50 m	1 set
RMS-I-DE-07	Rope water locate sensor with 3 m length detection cable, 6 m non-detection cable and connection cable 1.5 m; can be extended by LAN cable (Cat. 5e/6)	1 set
RMS-I-DE-07-EXT3	3 m rope sensor extension for RMS-I-DE-07; maximum extension 50 m	1 set
RMS-I-DRC	Dry contact with 4.5 m cable, input or output; sources up to 20 mA when used as input. Input voltage range 0 to 5 V.	1 set
RMS-I-MK	Magnetic door contact with 4.5 m cable (mounting holder included). Maximum extension 300 m. Open/closed contact switch.	1 set
RMS-I-PWR-NO	AC-Sensor controlled relay normally open (110 V / 220 V). 1.5 m LAN cable included; maximum length 30 m. Built-in 10A Fuse. C13 and C14 socket connection. Switch can be controlled by any sensor.	1 set
RMS-I-VC	4–20 mA Converter with attached 1.5 m LAN cable (Cat. 5). Collects analog values from a wide array of sensors.	1 set
RMS-I-CON	RJ45-RJ45 coupler (Cat. 5e) for sensor cable extension, package of 10 pcs	1 set
RAMOS ULTRA-EX-D8-8	Expansion board adds 8 dry contacts (IN/OUT) to one intelligent port (RJ45); each can be configured as input or output (sink up to 20 mA). Maximum length of connection cable (LAN Cat. 5/6) 300 m.	1 set
RMS-U-DST	Daisy-chain temperature sensor with attached 1.5 m LAN cable (Cat. 5). Up to 8 sensors can be connected to a single intelligent sensor port in 150 m total cable length.	1 set
RMS-U-DST-8	Package with 8 pcs of RMS-U-DST	1 package
RMS-U-RB-8	Box with 8 changeover relay contacts for control (manually or via notification)	1 set

## RAMOS MINI



- Up to 3 temperature or humidity sensors (with new firmware)
- 1x dry contact input
- 1x output (relay switch contact up to 50 V DC)
- Two alert ranges per sensor
- Notification alarm via email and SNMP trap to several recipients
- Built-in graphic web interface for configuration and value monitoring
- Each sensor comes complete with unique ID
- Alarm updates via email and SNMP trap or SMS (over CONTEG Pro Server Software or 3rd-party software)
- Open communication protocols (web, email, SNMP, XML)
- Security: password
- Optional 255 data point graph view
- Package includes: RAMOS Mini, up to 3 sensors (temperature and humidity), 1x IN, 1x OUT, incl. RMS-ST-02, RMS-PW-05, straight and angle holder, installation CD

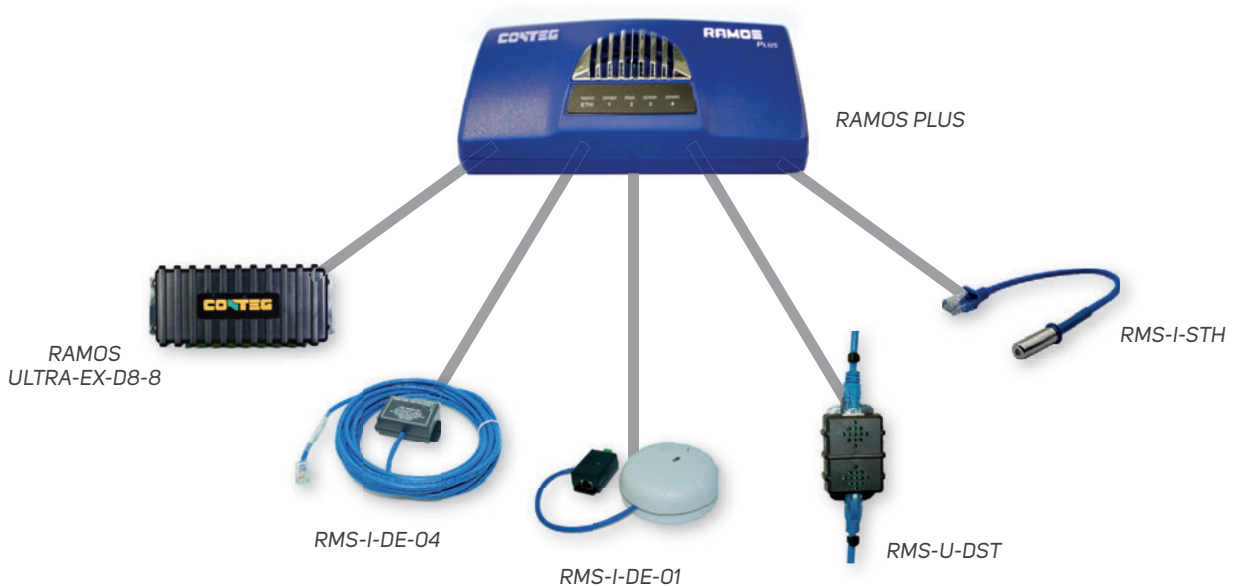
➤ **RAMOS Mini** is designed for deployment within a single rack, monitoring internal and external environments. Attached to a network, it reports the status of sensors deployed in and around racks to any location worldwide. Through the use of SNMP traps, it can fully integrate with any network management software.

RAMOS MINI	
Code	Package
RAMOS MINI	1 set

RAMOS MINI ACCESSORIES		
Code	Description	Package
RMS-ST-02	1-wire temperature sensor with 3 m cable; -10 °C to +80 °C	1 pc
RMS-SH-02	1-wire humidity sensor with 3 m cable; 0-100% RH	1 pc
RMS-ST-04	Daisy-chain temperature sensor with 3 m cable; -10 °C to +80 °C	1 pc
RMS-STH-02	Daisy-chain temperature and humidity sensor with 3 m cable; -10 °C to +80 °C; 0-100% RH	1 pc
RMS-DE-01	Optical smoke detector*	1 pc
RMS-DE-02	PIR motion detector*	1 pc
RMS-DE-04	Flood detector*	1 pc
RMS-DE-05	Broken glass dual detector*	1 pc
RMS-VS	Vibration sensor	1 pc
RMS-MK-01	Magnetic door contact with fixing bracket and 2.5 m cable	1 pc
RMS-CON-04	Hub for connecting two 1-wire sensors to 1 Wire bus	1 pc
RMS-AS-01	Acoustic siren with LED signaling, 120 dB*	1 pc
RMS-PWR-01	Power Box, remote switching external devices up to 230 V/10 A, power detection feature	1 pc
RMS-PW-05	Universal power supply 5 V DC	1 pc
RMS-PW-12	EU plug power supply for accessories 12 V DC	1 pc

\* Requires external power supply 12V DC (e.g. RMS-PW-12).

## Example of accessories for RAMOS Plus



# CLIMATE CONTROL SOLUTIONS FOR outTEG OMR

## OUTDOOR COOLING UNITS

### COMPACT—external mounting position



- Housing material: steel sheet, powder coated
- Color: RAL 7035 (light grey)
- Refrigerant: R134a
- Protection degree:
  - Cabinet air circuit: IP56
  - Ambient air circuit: IP24
- Option: additional heater, see page 43
- Mounting: External mounting
- Certification: CE, cURus, cULus
- Cut-outs for installation in CONTEG Modification Center
- Package includes: unit ready for connection

**Note: Comes with outTEG outdoor enclosures, with a cut-out as specified on the side panel or door.**



OUTDOOR AIR-CONDITIONING UNITS—WALL-MOUNTED, 550-1 000 W					
Code *		AC-WMO-05-400C	AC-WMO-07-400C	AC-WMO-09-400C	AC-WMO-10-400C
Material		sheet steel	sheet steel	sheet steel	sheet steel
Dimensions (mm)	H	830	830	830	900
	W	304	304	304	304
	D	270	270	270	270
Minimum enclosure dimensions (doors or side)	H × W, H × D	1 000 × 500 mm	1 000 × 500 mm	1 000 × 500 mm	1 000 × 500 mm
Voltage/Frequency **		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	550 W	750 W	850 W	1 000 W
	L35 L50	445 W	650 W	610 W	660 W
Rated power consumption	L35 L35	450 W	560 W	730 W	770 W
Max. air volume flow	Ambient air circuit	315 m³/h	315 m³/h	410 m³/h	320 m³/h
	Cabinet air circuit	165 m³/h	165 m³/h	200 m³/h	375 m³/h
Rated current	L35 L35	2,6 A	3,2 A	4,1 A	4 A
Starting current		10 A	11 A	16,5 A	16 A
Pre-Fuse T		5 A	6 A	10 A	10 A
Operating temperature range		–40 °C/+55 °C	–40 °C/+55 °C	–40 °C/+55 °C	–40 °C/+55 °C
Temperature range setting min/max		+20 °C/+50 °C	+20 °C/+50 °C	+20 °C/+50 °C	+20 °C/+50 °C
Weight		30 kg	30 kg	32 kg	38 kg
Compressor		reciprocating	reciprocating	reciprocating	reciprocating
Connection		connection terminals	connection terminals	connection terminals	connection terminals

\* For stainless steel version use AC-WMO-xx-x2xx.

\*\* Other input voltage upon request.



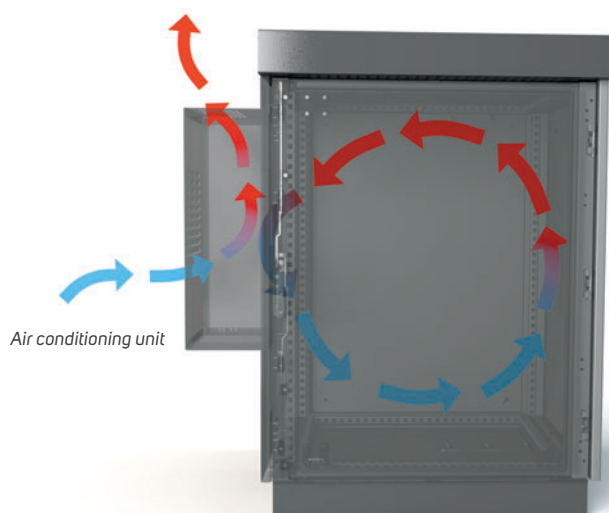
OUTDOOR AIR-CONDITIONING UNITS—WALL-MOUNTED, 1500-4 000 W						
Code *		AC-WMO-15-400C	AC-WMO-20-400C	AC-WMO-25-400C	AC-WMO-30-400C	AC-WMO-40-400C
Material		sheet steel	sheet steel	sheet steel	sheet steel	sheet steel
Dimensions (mm)	H	1150	1150	1550	1550	1550
	W	395	395	457	457	457
	D	270	270	355	355	355
Minimum enclosure dimensions (doors or side)	H × W, H × D	1200 × 600 mm	1200 × 600 mm	1600 × 800 mm	1600 × 800 mm	1600 × 800 mm
Voltage/Frequency **		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	1500 W	2 000 W	2 500 W	3 000 W	4 000 W
	L35 L50	1220 W	1600 W	1970 W	2 380 W	3 180 W
Rated power consumption	L35 L35	800 W	1117 W	1030 W	1320 W	1880 W
Max. air volume flow	Ambient air circuit	655 m³/h	655 m³/h	765 m³/h	765 m³/h	990 m³/h
	Cabinet air circuit	400 m³/h	400 m³/h	950 m³/h	950 m³/h	950 m³/h
Rated current	L35 L35	4,6 A	5,5 A	4,4 A	5,8 A	8,9 A
Starting current		16 A	16 A	22,5 A	30 A	50 A
Pre-Fuse T		9 A	13 A	16 A	16 A	16 A
Operating temperature range		-40 °C/+55 °C	-40 °C/+55 °C	-40 °C/+55 °C	-40 °C/+55 °C	-40 °C/+55 °C
Temperature range setting min/max		+20 °C/+50 °C	+20 °C/50 °C	+20 °C/50 °C	+20 °C/50 °C	+20 °C/50 °C
Weight		48 kg	48 kg	78 kg	75,3 kg	82 kg
Compressor		reciprocating	rotary piston	rotary piston	rotary piston	rotary piston
Connection		connection terminals	connection terminals	connection terminals	connection terminals	connection terminals

\* For stainless steel version use AC-WMO-xx-x2xx. \*\* Other input voltage upon request.

## COOLING UNITS WITH ADDITIONAL HEATERS

For ordering of cooling unit with additional heater use code AC-WMO-xx-4xHx.

Code	Cooling capacity	Heating capacity	Temperature range	
			Cooling	Heating
AC-WMO-05-40HC	550	400	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-07-40HC	750	400	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-09-40HC	850	400	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-10-40HC	1000	400	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-15-40HC	1500	1000	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-20-40HC	2 000	1000	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-25-40HC	2 500	1500	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-30-40HC	3 000	1500	20 °C/50 °C	-20 °C/+20 °C
AC-WMO-40-40HC	4 000	2 000	20 °C/50 °C	-20 °C/+20 °C



# COOLING AND HEATING

## THERMOELECTRIC COOLERS

THERMOELECTRIC COOLERS, COOLING POWER 100–800 W						
Code		ID-EP-10X-1	ID-EP-10X-4	ID-EP-20X-4	ID-EP-40X-4	ID-EP-80X-4
Dimensions (mm)	H	200	280	500	600	972
	W	304	350	330	432	514
	D	138 (74 mm outside of enclosure)	165 (113 mm outside of enclosure)	196 (130 mm outside of enclosure)	202 (135 mm outside of enclosure)	211 (135,5 mm outside of enclosure)
Cut out dimension		160 × 260 mm	252 × 322 mm	472 × 302 mm	550 × 382 mm	922 × 464 mm
Cooling capacity to DIN 3168"		100 W	100 W	200 W	400 W	800 W
Max. air volume flow	Ambient air circuit	128 m³/h	128 m³/h	106 m³/h	240 m³/h	480 m³/h
	Cabinet air circuit	46 m³/h	46 m³/h	150 m³/h	240 m³/h	480 m³/h
Voltage/Frequency		24 V DC	120–230 V AC – 50/60Hz	120–230 V AC – 50/60Hz	120–230 V AC – 50/60Hz	120–230 V AC – 50/60Hz
Starting current		4,8 A	1,6 A (120V) 0,8 A (230V)	2,9 A (120V) 1,5 A (230V)	5,8 A (120V) 3 A (230V)	11,6 A (120V) 6 A (230V)
Max. current		7,4 A	1,1 A (120V) 0,6 A (230V)	2 A (120V) 1 A (230V)	4 A (120V) 2,1 A (230V)	8 A (120V) 4,2 A (230V)
Fuse		8 A (T)	2 A (T) (120V) 1 A (T) (230V)	3 A (T) (120V) 2 A (T) (230V)	6 A (T) (120V) 4 A (T) (230V)	12 A (T) (120V) 7 A (T) (230V)
Connection		connection terminal block	8-pole connector	8-pole connector	8-pole connector	8-pole connector
Operating temp. range		–20 °C / +65 °C	–20 °C / +65 °C	–20 °C / +65 °C	–20 °C / +65 °C	–20 °C / +65 °C
Weight		5,9 kg	9,4 kg	17,2 kg	34 kg	66 kg
Power supply		ID-PS-120-41	integrated	integrated	integrated	integrated



ID-EP-10X-1

- Material: stainless steel housing
- Protection degree: IP66
- Sealing: permanent sealing gasket in closed cell foam polyethylene
- Connection by terminal block
- Regulation: for more information, please contact our technical support
- Package includes: thermoelectric cooling unit ready for connection



ID-PS-120-41

POWER SUPPLIES FOR THERMOELECTRIC UNITS		
Code	ID-PS-120-41	
Dimensions (mm)	H	125
	W	60
	D	113
Power		120 W
Input voltage		110–240 V AC; 90–350 V DC
Output voltage		24 V DC
Current		5 A
Weight		0,62 kg
Mounting position		DIN rail
Rated temperature range		–40 °C / +70 °C



Outdoor enclosure outTEG OMR with thermoelectric coolers

## HEATERS



- Material: aluminum profile
- Technology: PTC, self regulating
- ID-EH-80F-4: two heating circuits
- Ingress protection: IP20
- Installation: snap-on fixing on DIN rail 35 mm EN 50022
- Package includes: heater ready for connection

HEATERS		
Code	ID-EH-25PF-4	ID-EH-80F-4
Thermal output (W)	250	450/800
Number of heating circuits	1	2
Operation voltage (V AC)	230	230
Operating temperature range (°C)	-10 °C/+50 °C	-40 °C/+60 °C
Dimension (mm)	H	193
	W	61,5
	D	85
Fan	Airflow (m <sup>3</sup> /h)	-
	Operation voltage (VAC)	230
Weight (kg)	0,7	0,8
Electrical connection	3 poles terminal	6 poles terminal

## THERMOSTAT FOR COOLING AND HEATING



- Sensor element: thermostatic bi-metal
- Maximum tolerance:  $\pm 4$  K
- Switching difference (hysteresis) is  $7^\circ\text{C} \pm 3$  K
- Switching capacity (max. load):
  - 15 A resistive/ 2 A inductive @ 120 V AC
  - 10 A resistive/ 2 A inductive @ 120 V AC
  - DC 30 W
  - Connections: 2-pole terminal for AWG 14 max. (2,5 mm<sup>2</sup>)
- Mounting: clip for 35 mm DIN rail
- Dimensions (H x W x D): 55 x 33 x 43 mm
- Setting temperature range: 0 to + 60 °C
- Operating temperature: -20 to + 80 °C
- Weight: 40 g
- Thermostat for cooling—contact normally open
- Thermostat for heating—contact normally closed
- Package includes: thermostat ready for connection

Code	Package
<b>Thermostat for cooling (NO)</b>	
ID-EO-TC	1 pc
<b>Thermostat for heating (NC)</b>	
ID-EO-TH	1 pc

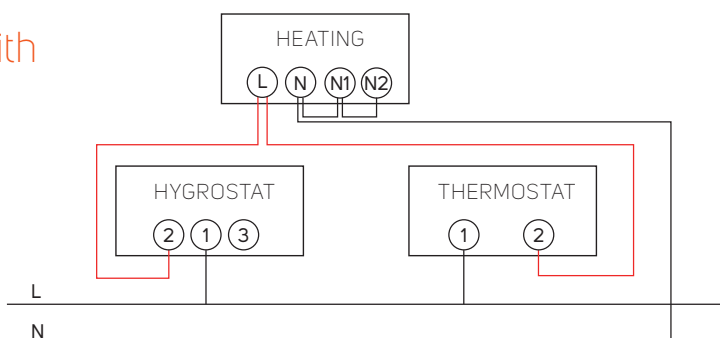
## HYGROSTAT



- Installation: DIN rail 35 mm
- Connection: screw terminals
- Range of humidity control: 35–100 % RH
- Switching capacity (max. load): 5 A/230 V
- Switching hysteresis:  $\pm 3$  % RH
- Dimensions (H x W x D): 67 x 50 x 38 mm
- Package includes: hygrometer ready for connection

Code	Package
ID-EO-HY	1 pc

Circuit diagram of heater controlled with thermostat or hygrometer.



## DRAINAGE DEVICE



- Material: plastic according to UL94 V-0, umbra grey, waterproof with UV protection
- Protection degree: IP67
- Sealing: NBR
- Dimensions: Ø 60×49,5 mm, 17,5 mm inside enclosure
- Water flow rate: 200 ml/hour
- Mounting: vertically at the lowest point, thread M50×1.5 with nut (cut-out Ø 50 mm)
- Package includes: 1 pc of drainage device

Code	Package
ID-EO-DD	1 pc

## PRESSURE COMPENSATOR



- Mounting: PG 29 thread with union nut (cut-out diameter 37 mm)
- Fitting position: vertical (Protection type is restricted to IP54 if fitting position of pressure compensator is not vertical.)
- Material: plastic according to UL94 V-0, light grey RAL 7035
- Protection degree: IP55
- Dimensions: Ø 65,5 × 30,5 mm
- Package includes: 2pcs of compensator

Code	Package
ID-EO-PC	2 ks

## VENTILATION UNITS—DP-VEN



- One to nine fans
- Possible to install: in 19" extrusions—horizontally
- Temperature range -10 °C to 55 °C
- Thermostat ranging from 0 °C to 60 °C included; no thermostat option
- Voltage range 230V/50Hz (48V DC option)
- Protection category to EN 60 529 IP20
- Color: RAL (standard RAL 9005)
- Package includes: ventilation unit ready for connection

Code	Outlet grid	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption* (kWh/year)	Possible heat removal** (kW)	Package
DP-VEN-03 *	ID-EF-07	336	0,270	57	499	0,57	1 pc
DP-VEN-06 **	ID-EF-09	672	0,540	114	999	1,14	1 pc

\* You have to order 2 pcs of ID-EF-07.

\*\* You have to order 2 pcs of ID-EF-09.

## OUTLET FILTER GRID

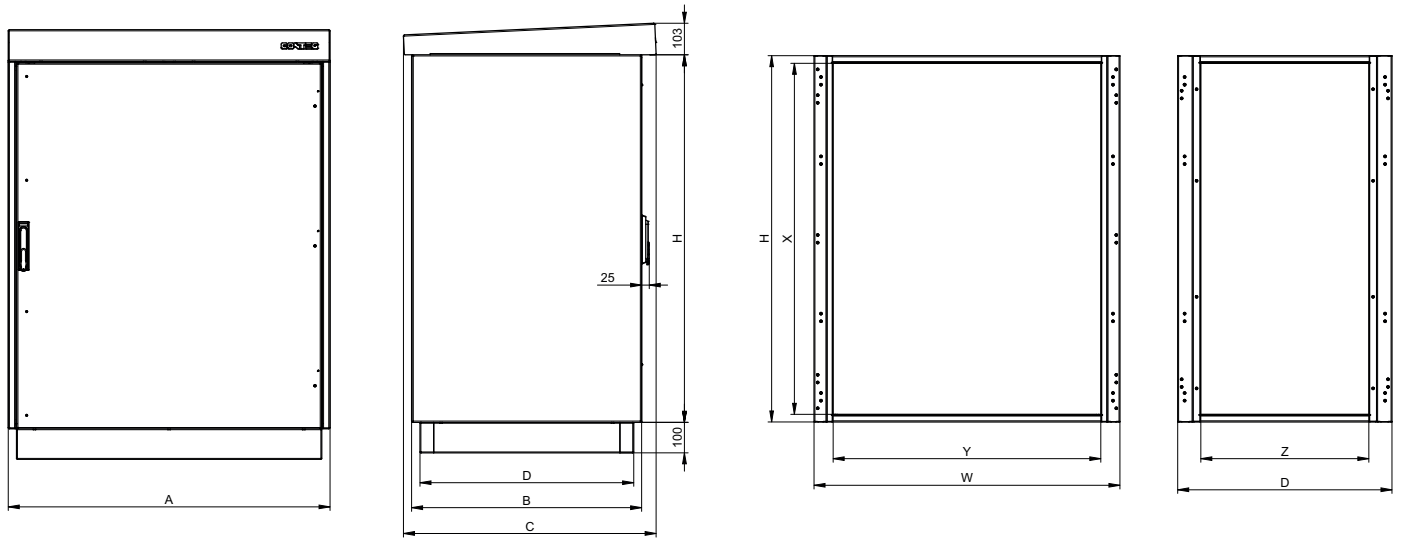


- Material: PC/ABS Alloy, PA 66 GH13 HSL for elastic clips
- Color: RAL 7035
- Protection degree: IP54/IP55
- Package includes: unit ready for mounting.

Code	For filter fan units	Package
ID-EF-07	250 × 250 mm, airflow max. 270 m³/h	1 pc
ID-EF-09	325 × 325 mm, airflow max. 800 m³/h	1 pc

# TECHNICAL DRAWINGS

outTEG OMR—free-standing outdoor enclosures—double-walled



Code	Height (mm)		Width (mm)			Depth (mm)			
	H	X	W	A	Y	D	B	Z	C
OMR-DN-066506-R	600	550	652	704	527	602	654	450	728
OMR-DN-086506-R	800	750	652	704	527	602	654	450	728
OMR-DN-106506-R	1000	950	652	704	527	602	654	450	728
OMR-DN-100805-R	1000	950	802	854	677	502	554	350	628
OMR-DN-120808-R	1200	1150	802	854	677	802	854	650	928
OMR-DN-121007-R	1200	1150	1002	1054	877	702	754	550	828
OMR-DN-146506-R	1400	1350	652	704	527	602	654	450	728
OMR-DN-166504-R	1600	1550	652	704	527	402	454	250	528
OMR-DN-160807-R	1600	1550	802	854	677	702	754	550	828
OMR-DN-160810-R	1600	1550	802	854	677	1002	1054	850	1128
OMR-DN-161008-R	1600	1550	1002	1054	877	802	854	650	928

# HEAT LOSS DISPERSION

outTEG OMR—free-standing outdoor enclosure, double-walled,  
measuring inside enclosure,  $\Delta T = 15 \text{ K}$ , wind speed  $0 \text{ m/s}$

Code	H (mm)	W (mm)	D (mm)	Thickness of material (mm)	Surface (m <sup>2</sup> )	Effective area *	Heating dissipation (W)
OMR-DN-066506-R	600	650	600	2,00	2,28	1,60	64,08
OMR-DN-086506-R	800	650	600	2,00	2,78	2,06	82,57
OMR-DN-106506-R	1000	650	600	2,00	3,28	2,52	101,05
OMR-DN-100805-R	1000	800	500	2,00	3,40	2,62	105,17
OMR-DN-120808-R	1200	800	800	2,00	5,12	4,01	161,22
OMR-DN-121007-R	1200	1000	700	2,00	5,48	4,30	172,67
OMR-DN-146506-R	1400	650	600	2,00	4,28	3,44	138,01
OMR-DN-166504-R	1600	650	400	2,00	3,88	3,16	126,76
OMR-DN-160807-R	1600	800	700	2,00	5,92	4,83	193,96
OMR-DN-160810-R	1600	800	1000	2,00	7,36	5,98	240,37
OMR-DN-161008-R	1600	1000	800	2,00	7,36	5,98	240,37

\* Enclosure standing alone, area without bottom.

# Do you need a customized solution?

Use services of our **CONTEG Modification Center**.



➤ Individual orders are fulfilled in the **modification center, which is a part of a modern industrial enterprise in Pelgrimov**. The center also has a MODCentrum 29 CNC milling machine. We can cut holes for filter fans, coolers, control panels, and buttons. The cabinets can be made of sheet steel, stainless steel (AISI 304 and 316L) or aluminum.

Cutouts can be made on flat removable parts of the rack walls (doors, cable entries, side panels, roofs and mounting plates), as well as in welded monolithic cabinets.



For more information please contact our sales or technical team at [www.conteg.com/contacts](http://www.conteg.com/contacts)



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**CONTEG**