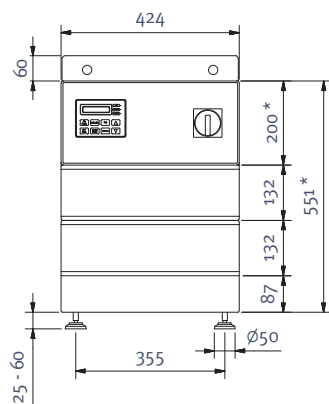
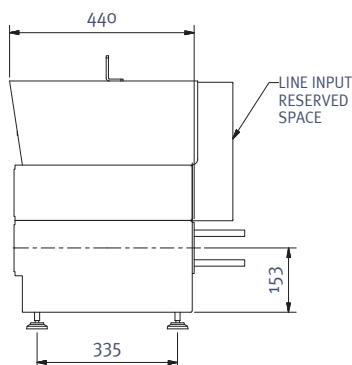
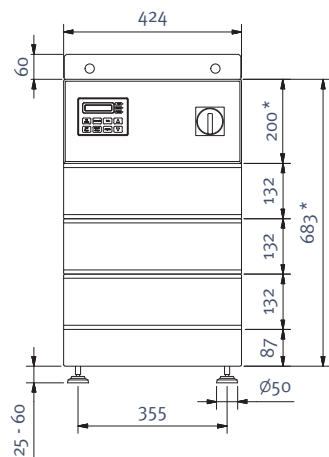
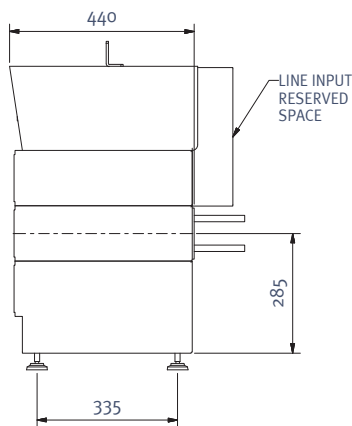


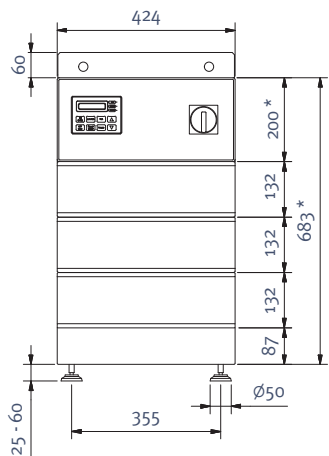
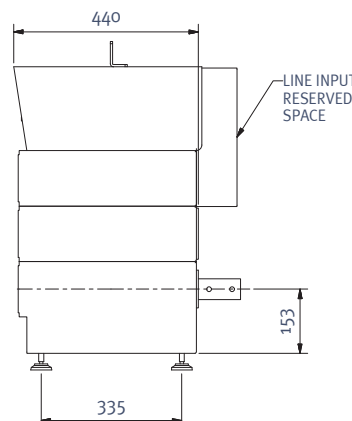
Configuration 02-i1



Configuration 03-i11



Configuration 03-Ri1

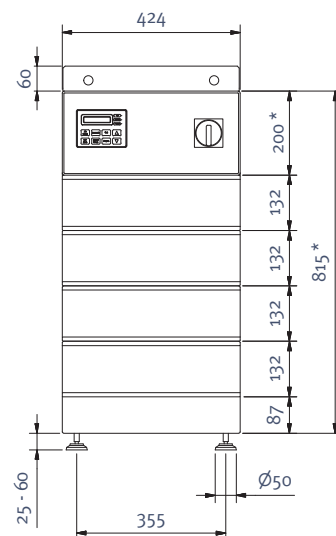
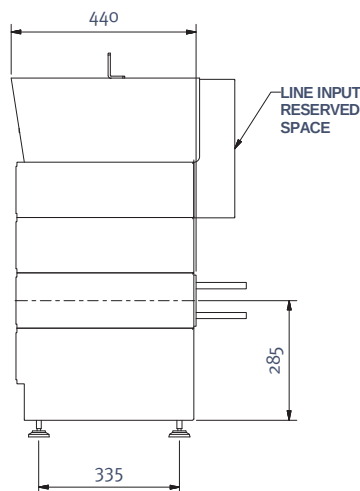


* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

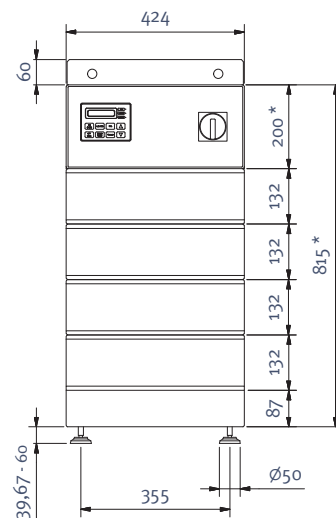
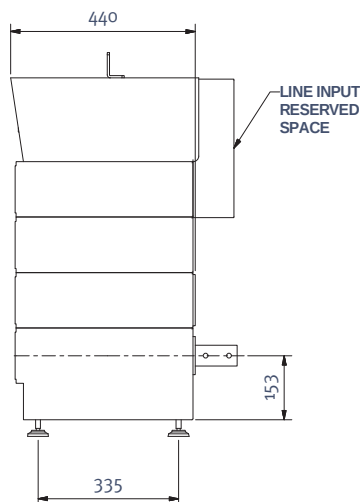
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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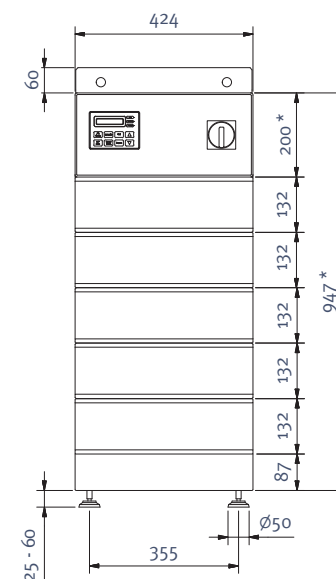
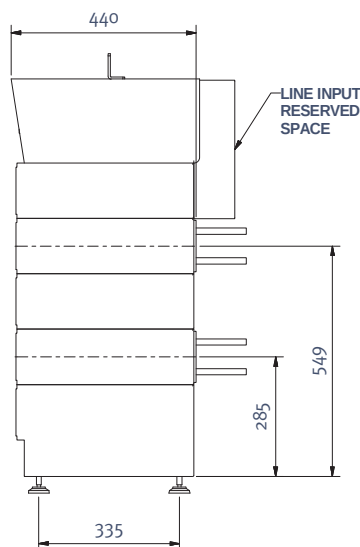
Configuration 04-1i2



Configuration 04-Ri2



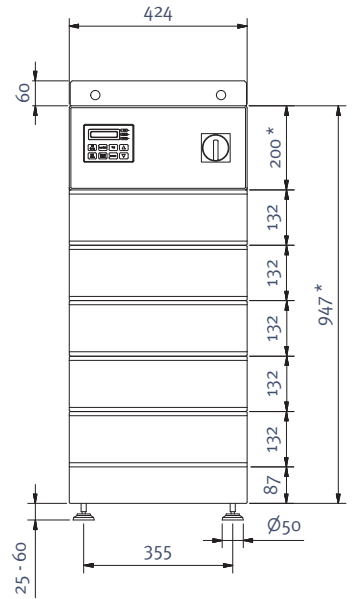
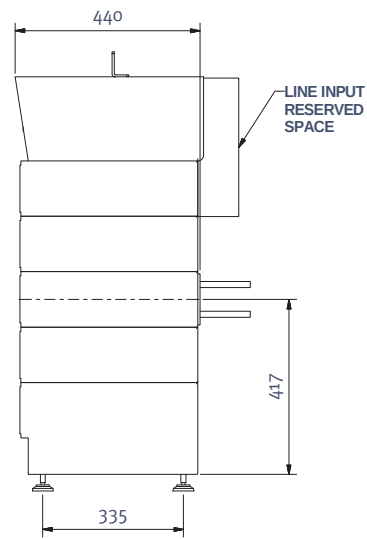
Configuration 05-1i1i1



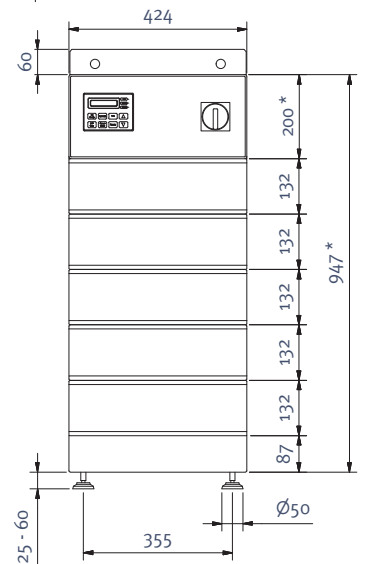
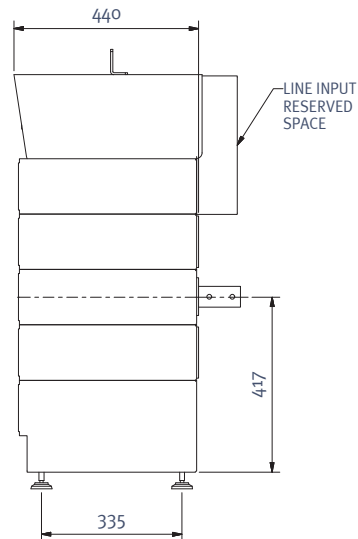
* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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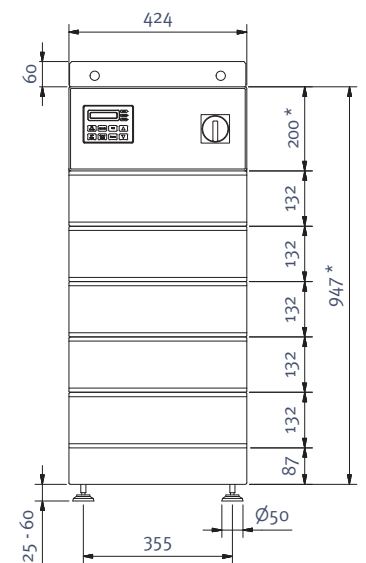
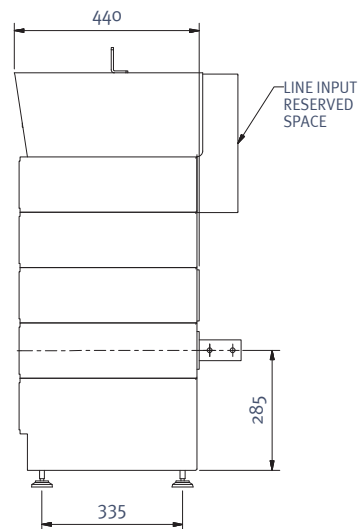
Configuration 05-2i2



Configuration 05-1iRi1



Configuration 05-1Ri2

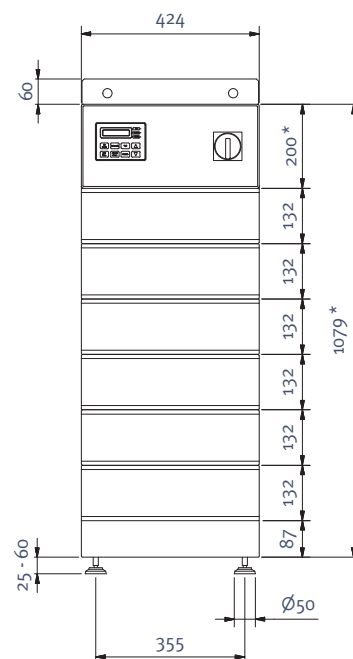
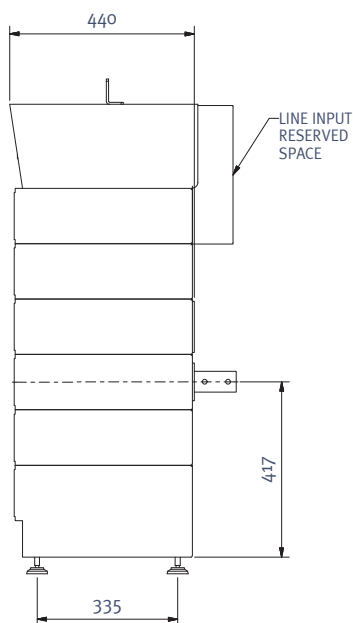


* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

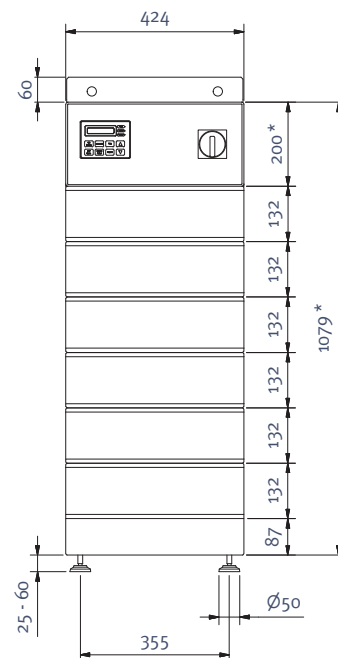
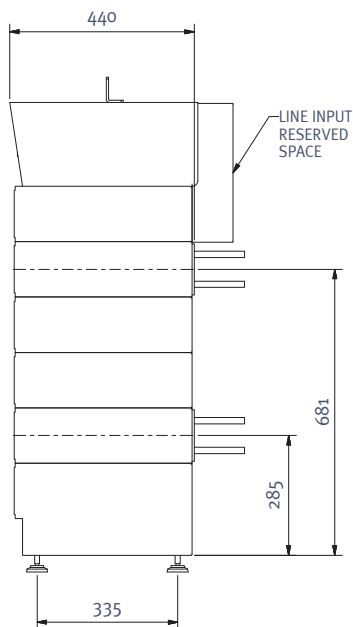
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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Configuration o6-2Ri2

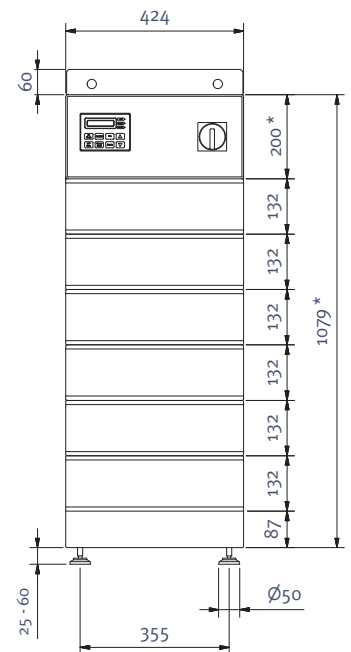
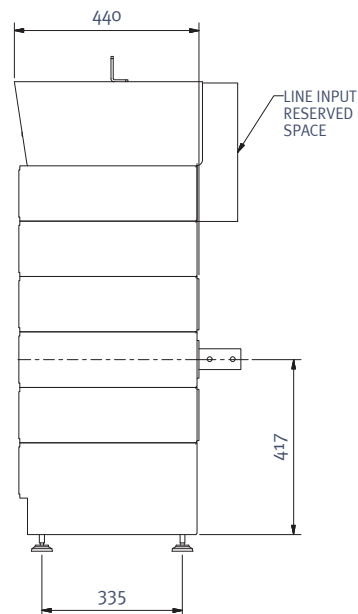
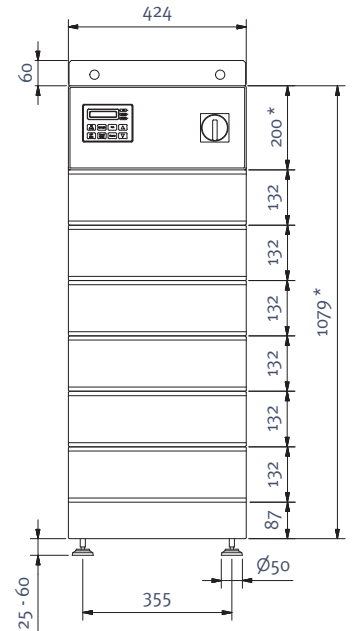


Configuration o6-1i2i1



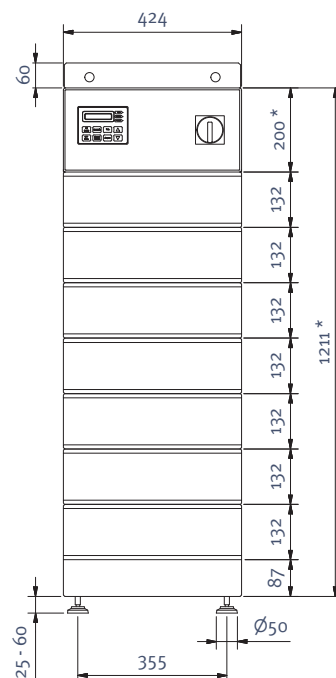
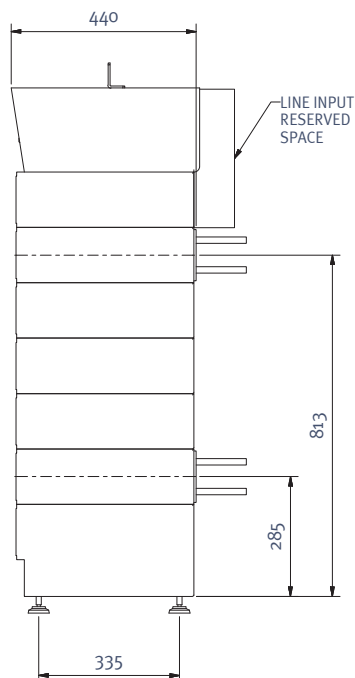
* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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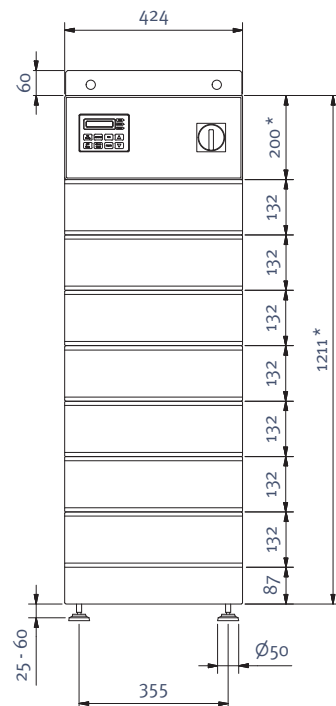
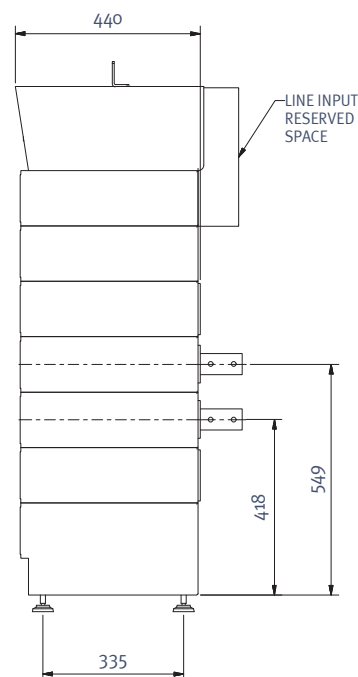


CRS

Configuration 07-1i3i1



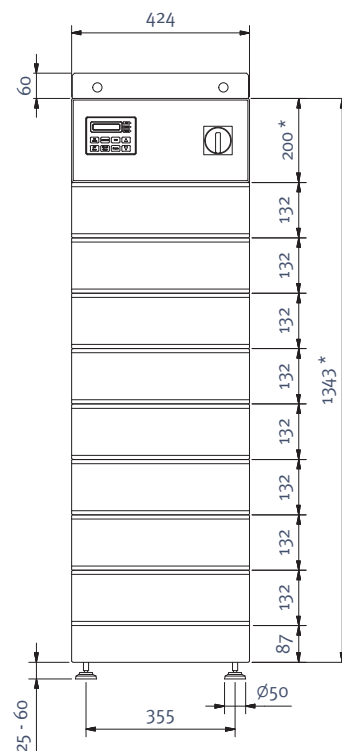
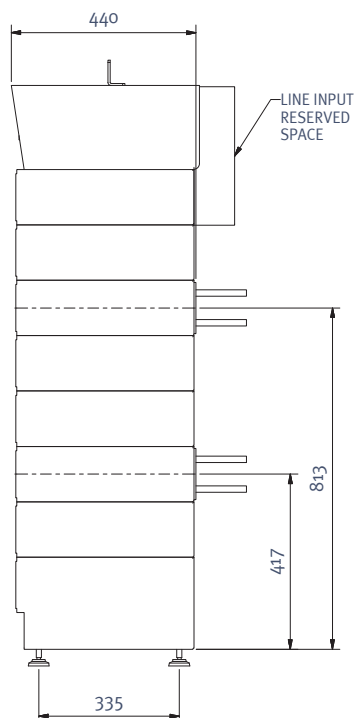
Configuration 07-1iRRi2



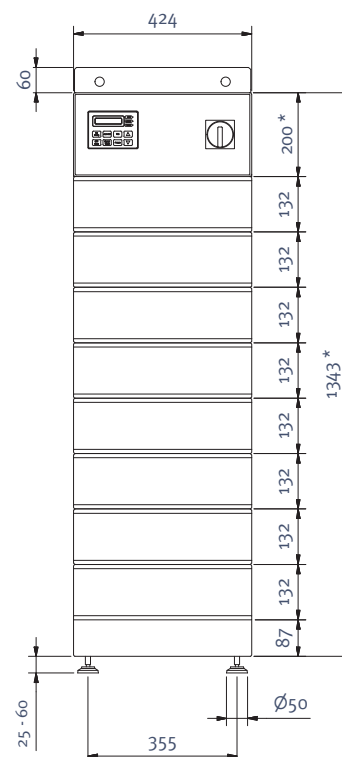
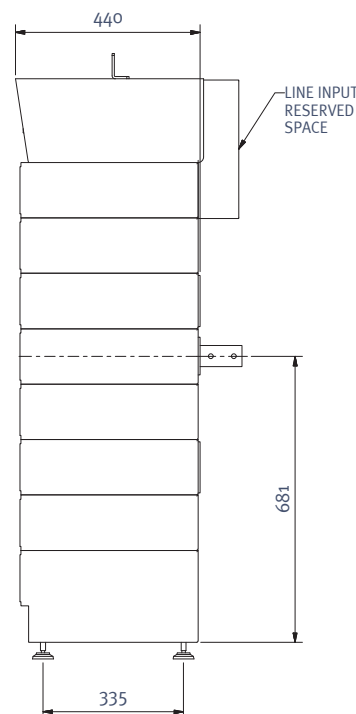
* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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Configuration o8-2i2i2



Configuration o8-2i1Ri2

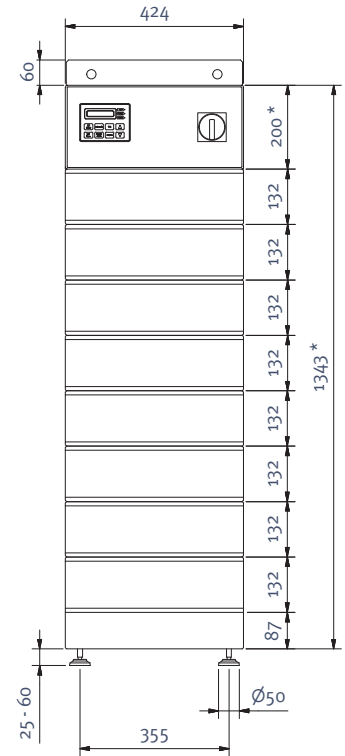
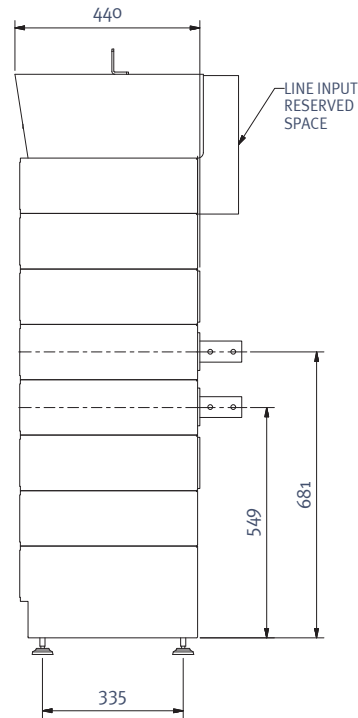


* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

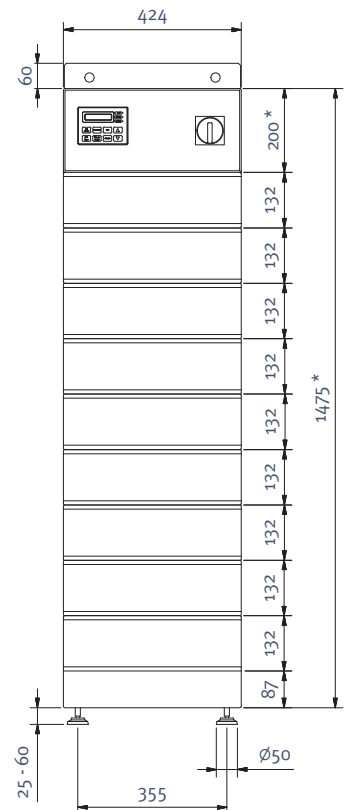
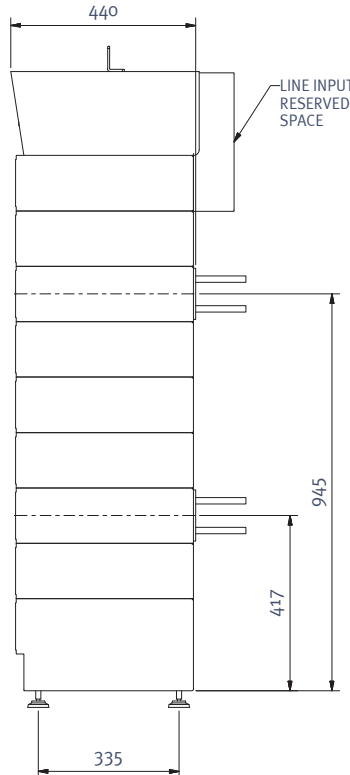
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

CRS_Q500_A50_Conf_Spec_ENG_20140324

Configuration o8-2iRRi2



Configuration o9-2i3i2

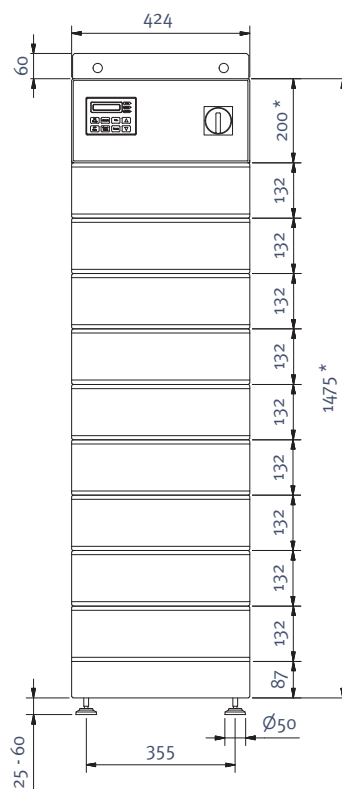
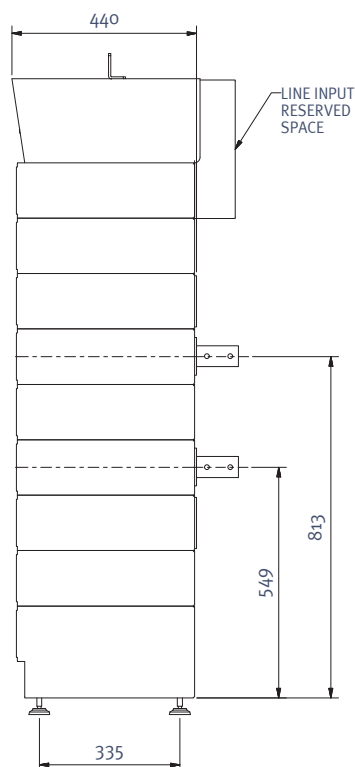


* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

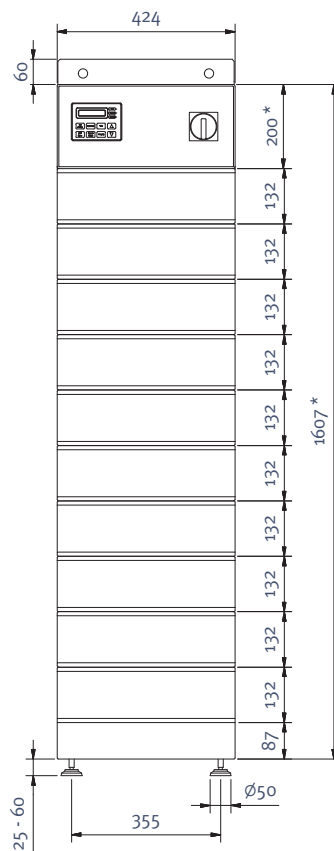
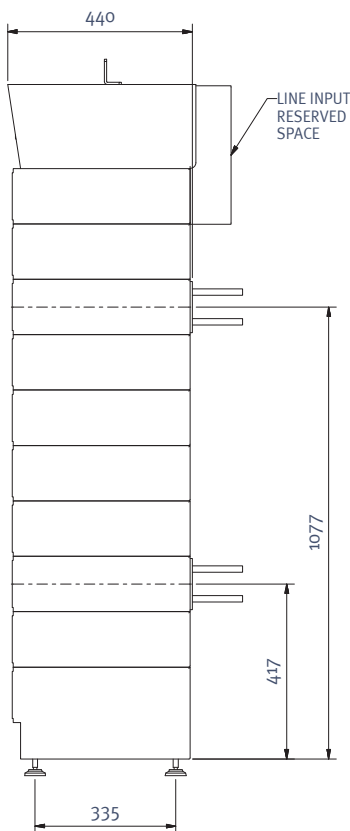
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (I) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

CRS_Q500_A50_Conf_Spec_ENG_20140324

Configuration 09-2iR1Ri2

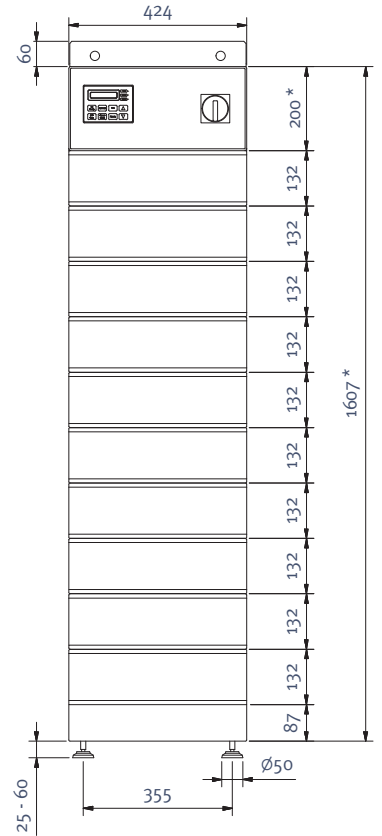
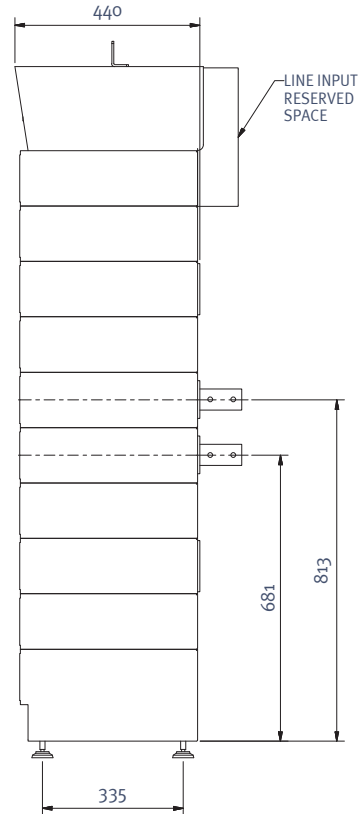
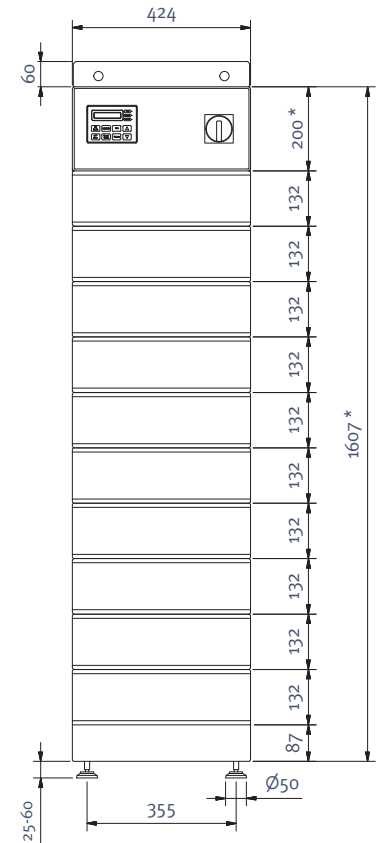
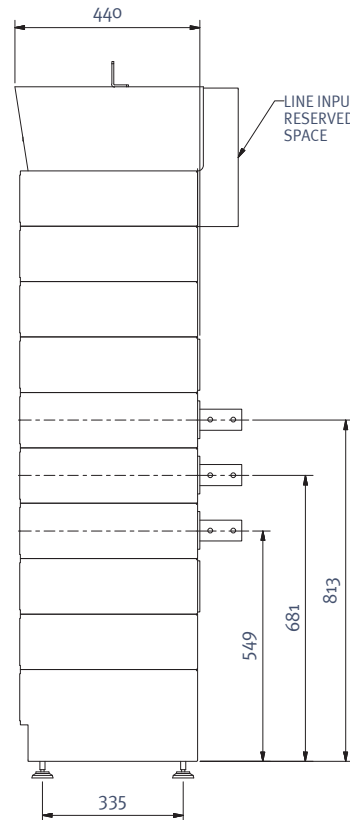


Configuration 10-2i4i2



* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (i) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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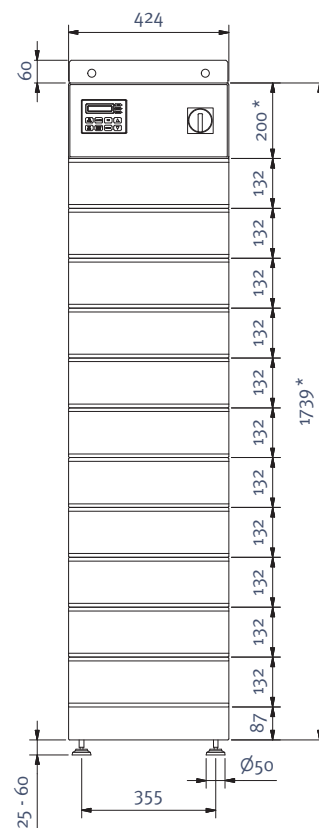
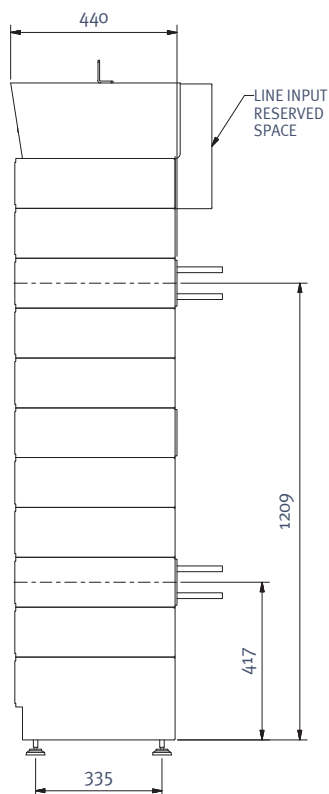
Configuration 10-2i1RR1i2

Configuration 10-2iRRRi3


* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

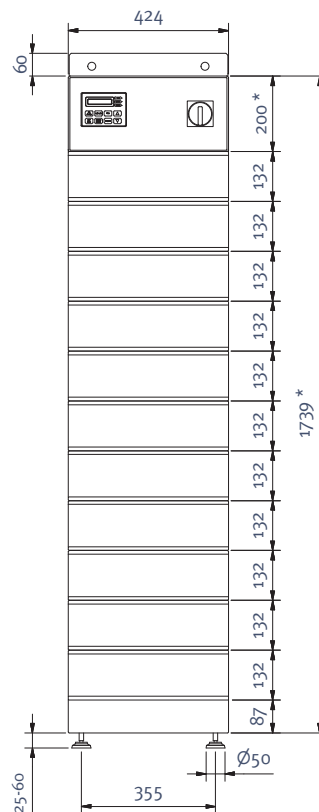
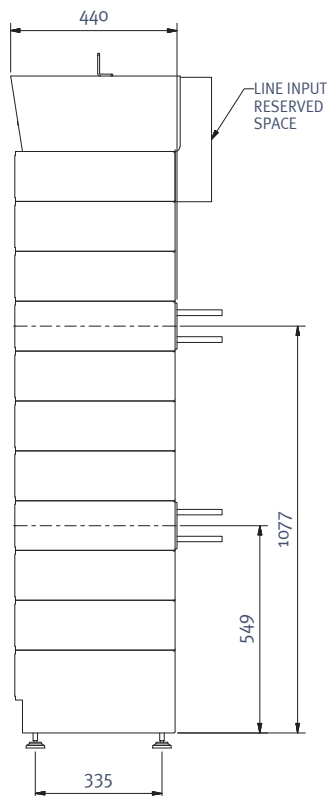
Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (I) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

CRS_Q500_A50_Conf_Spec_ENG_20140324

Configuration 11-2i2i2i2



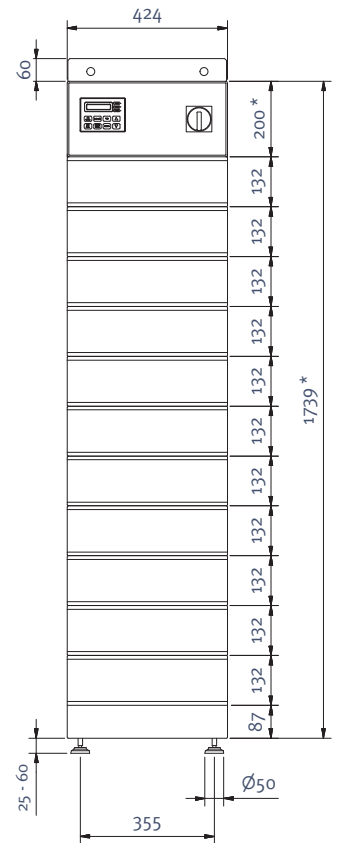
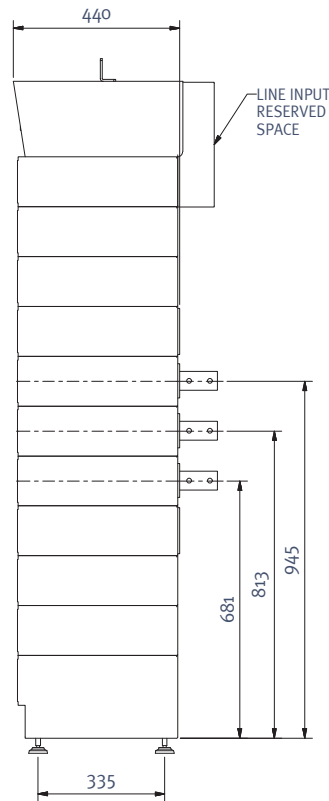
Configuration 11-3i3i3i3



* Up to 160A max input current per phase (Headers: CMHo8E / CMH12E / CMH16E). Above 160A input (Headers: CMH18E / CMH23E), dimension increases + 100 mm.

Legend YY-Z: YY = Number of modules (not including header), Z = (i) Power Module, (R) Reverse Unit, (I) Intermediate Cooling Unit - Order of modules is from the bottom to the top.

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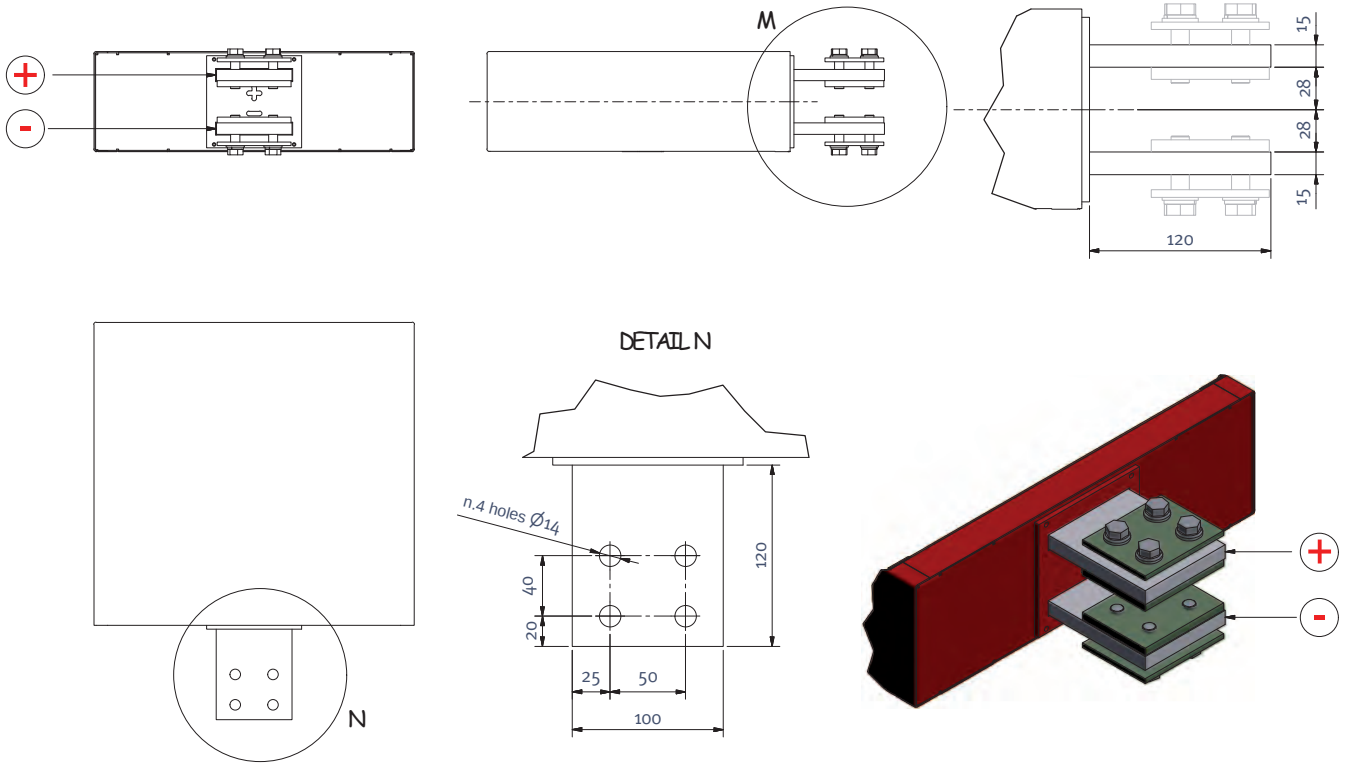
CRS

QUASAR Q500 output connection configuration

Output connection configuration DIRECT (DC / PP model)

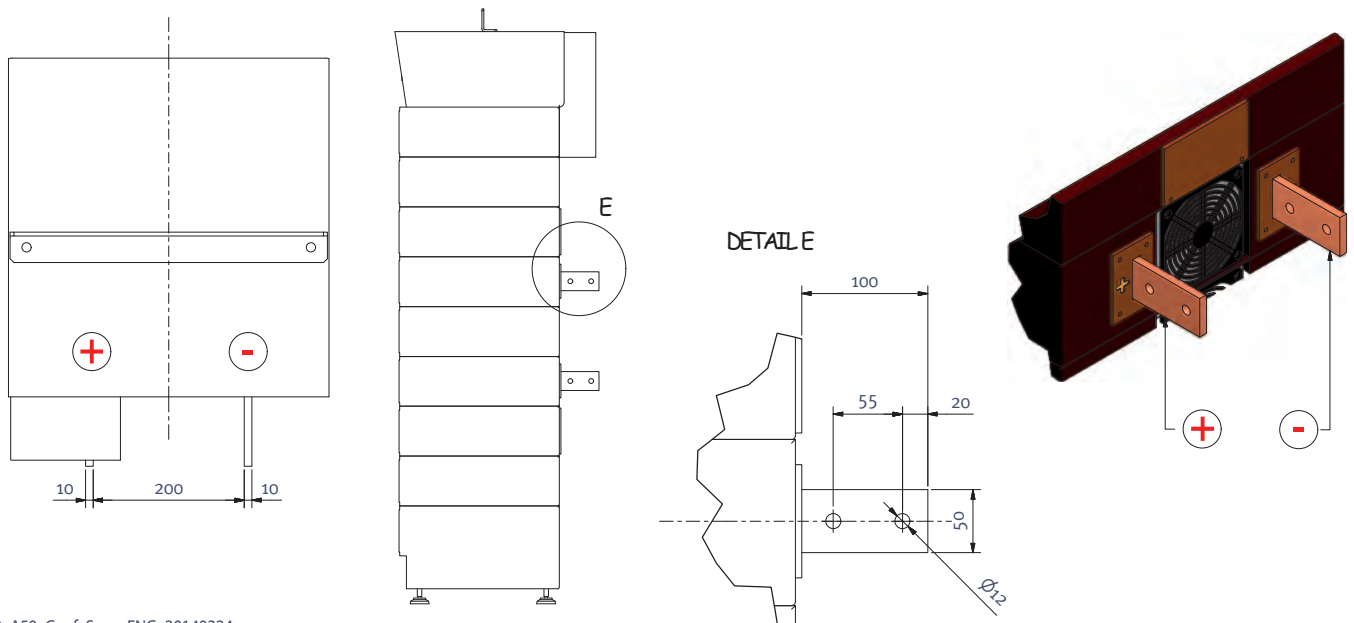
Material of output bars: **aluminum AL6063** (Less than 2A/mm²)

DETAIL M



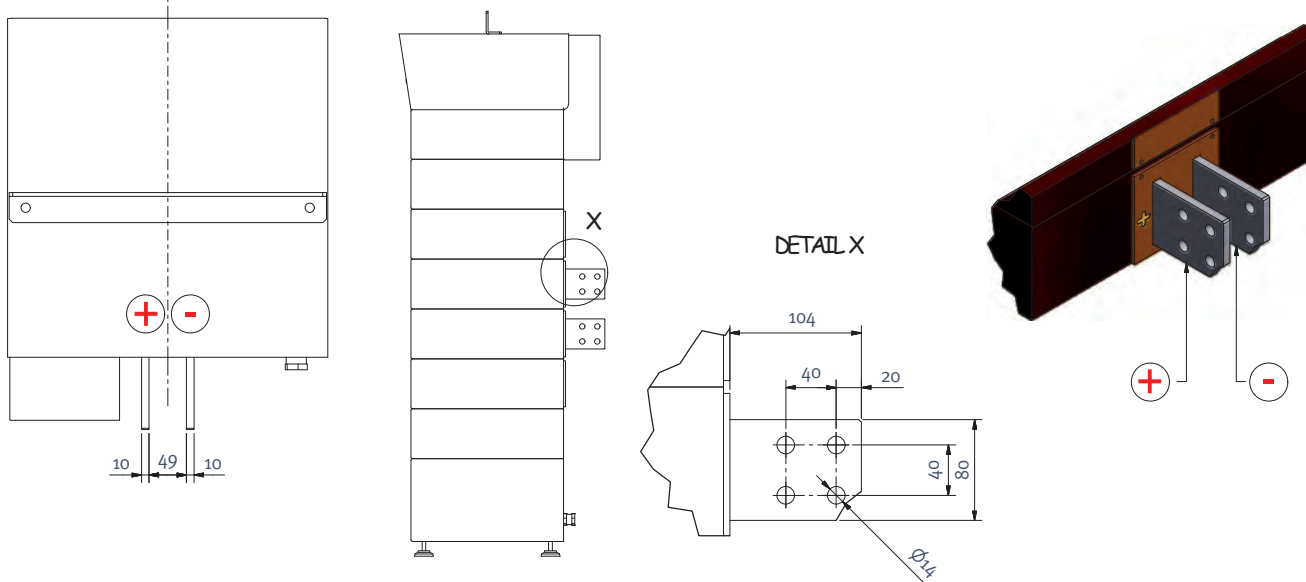
Output connection configuration REVERSE AIR COOLED (DCR / PPR model)

Material of output bars: **copper Cu-ETP** (Less than 3A/mm²)

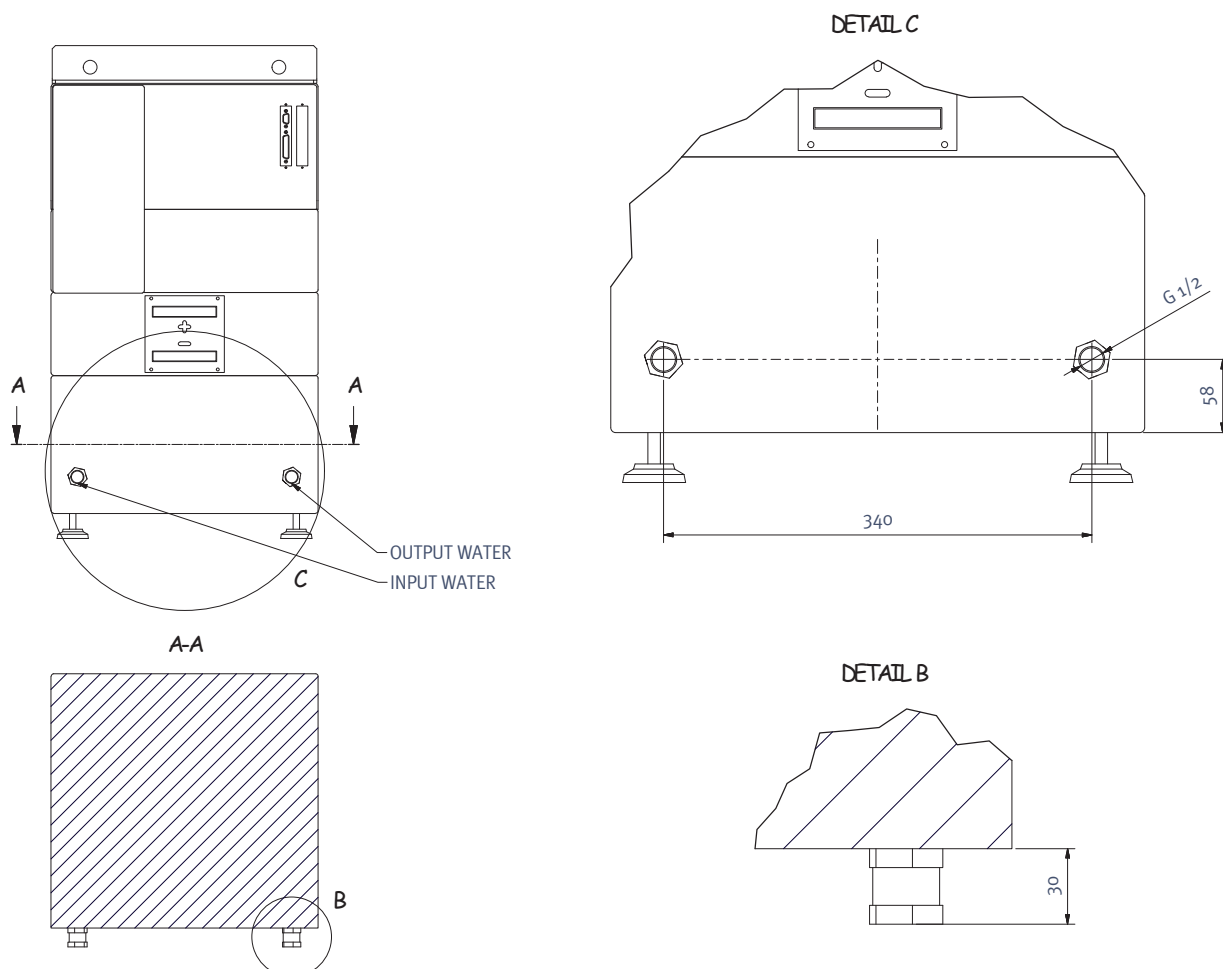


Output connection configuration REVERSE WATER COOLED (DCR / PPR model)

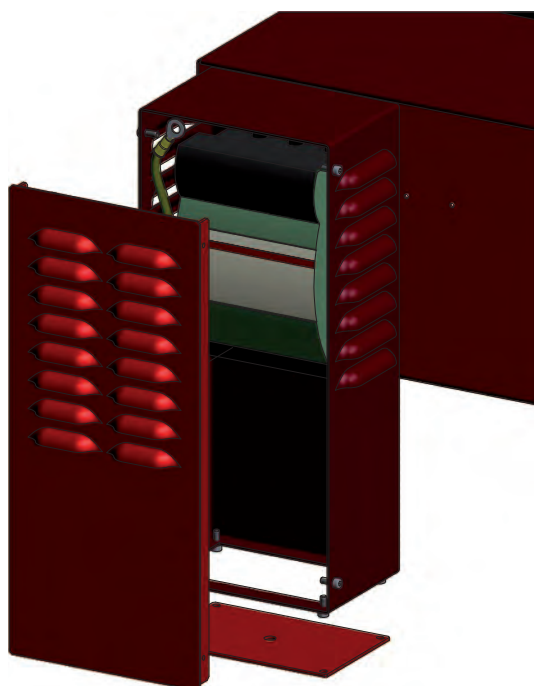
Material of output bars: **aluminum AL6063** (Less than 2.5A/mm²)



Input & output water connections



AC input box



Up to 160A max input current per phase
(Headers: CMH08E / CMH12E / CMH16E)

- The user must connect the main AC input directly to the external NH00 fuse holder 690V/160V from serie NT-IN of EFEN (contained in the AC input box). Main fuses type is indicated on the identification label of the machine.
Sizes: 16A - 35A - 63A - 80A - 100A - 125A - 160A

- Box dimension: L= 95mm, W= 145mm, H= 330mm

Above 160A max input current per phase
(Headers: CMH18E / CMH23E)

- The user must connect the main AC input directly to the terminal blocks contained in the AC input box. Range of connecting capacity: 50 to 150 mm² for flexible wire and 50 to 185 mm² for rigid wire

- Box dimension: L= 130mm, W= 145mm, H= 248mm

Weight

CONFIGURATION	AIR max weight [Kg]	WATER max weight [Kg]
02-i1	79	86
03-1i1	99	110
03-Ri1	102	112
04-1i2	119	134
04-Ri2	122	136
05-1i1i1	143	160
05-2i2	139	158
05-1iRi1	146	162
05-1Ri2	142	160
06-2Ri2	162	184
06-1i2i1	163	184
06-2i3	159	182
06-1iRi2	166	186
07-1i3i1	183	208
07-1iRRi2	189	212
08-2i2i2	203	232
08-2i1Ri2	206	234
08-2iRRi2	209	236
09-2i3i2	223	256
09-2iR1Ri2	229	260
10-2i4i2	243	280
10-2i1RR1i2	249	284
10-2iRRRi3	252	286
11-2i2i2i2	267	306
11-3i3i3	263	304
11-3iRRRi3	293	310

IMPORTANT NOTES

- All the dimensions in catalogue are in MILLIMETERS
- The machines are shipped with the 4 legs/supports (included but not mounted)
- For lifting instructions refer to paragraph 6.1 of "Manual of installation , use and maintenance"
- Electrolytic grease for electrical contacts (ex. BECHEM-RHUS SU 2) must be applied between rectifier's output bars and copper plates or wires that go to treatment tanks. See paragraph 6.6 of "Manual of installation, use and maintenance"

