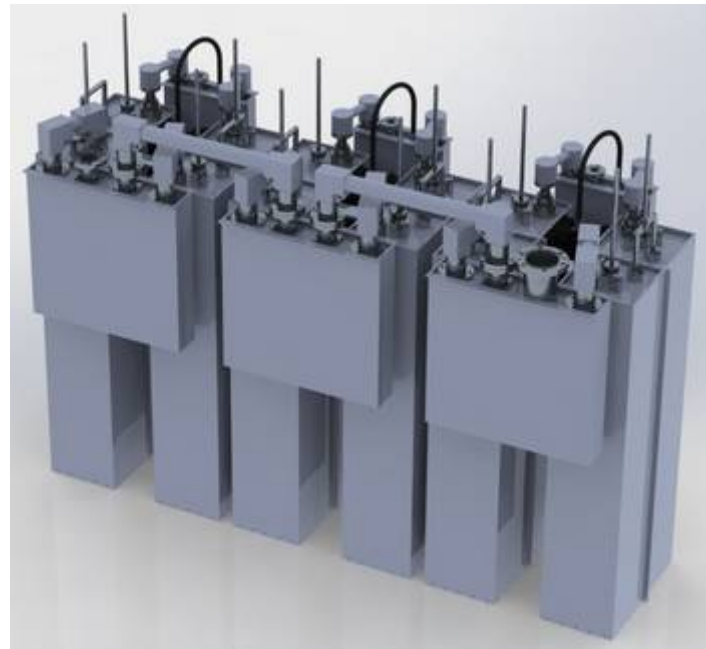


MODEL FQDPDC2-#01

- 4 CHANNELS COMBINER
- IMPEDANCE 50 Ohm
- FM BAND 87.5 ÷ 108 MHz
- BAND II
- DOUBLE BALANCED BRIDGE SYSTEM



The Double Balanced Bridge System consists of two Band Pass Filters, two -3dB Couplers and an Absorbing Load. One of both inputs has narrow-band characteristics (complying with the band-pass functions of the band-pass filters), while the remaining input presents broadband characteristics within the operating frequency range of -3dB couplers. Both inputs exhibit a frequency independent load impedance to the RF source.

TYPICAL SPECIFICATIONS

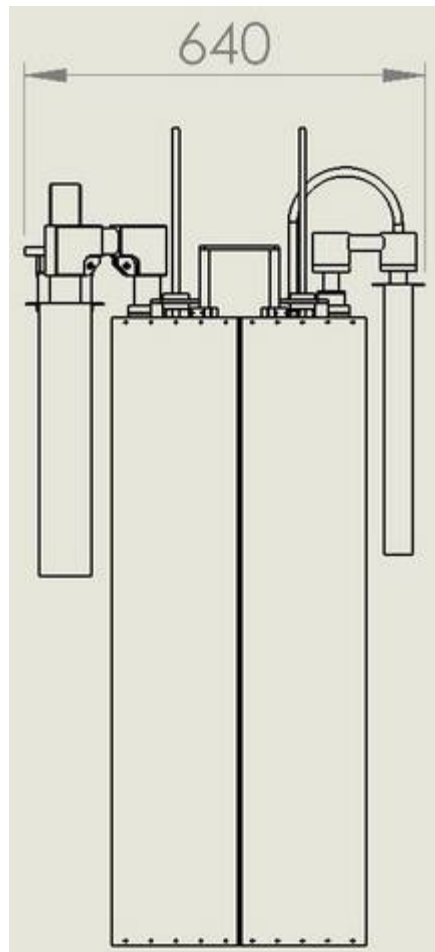
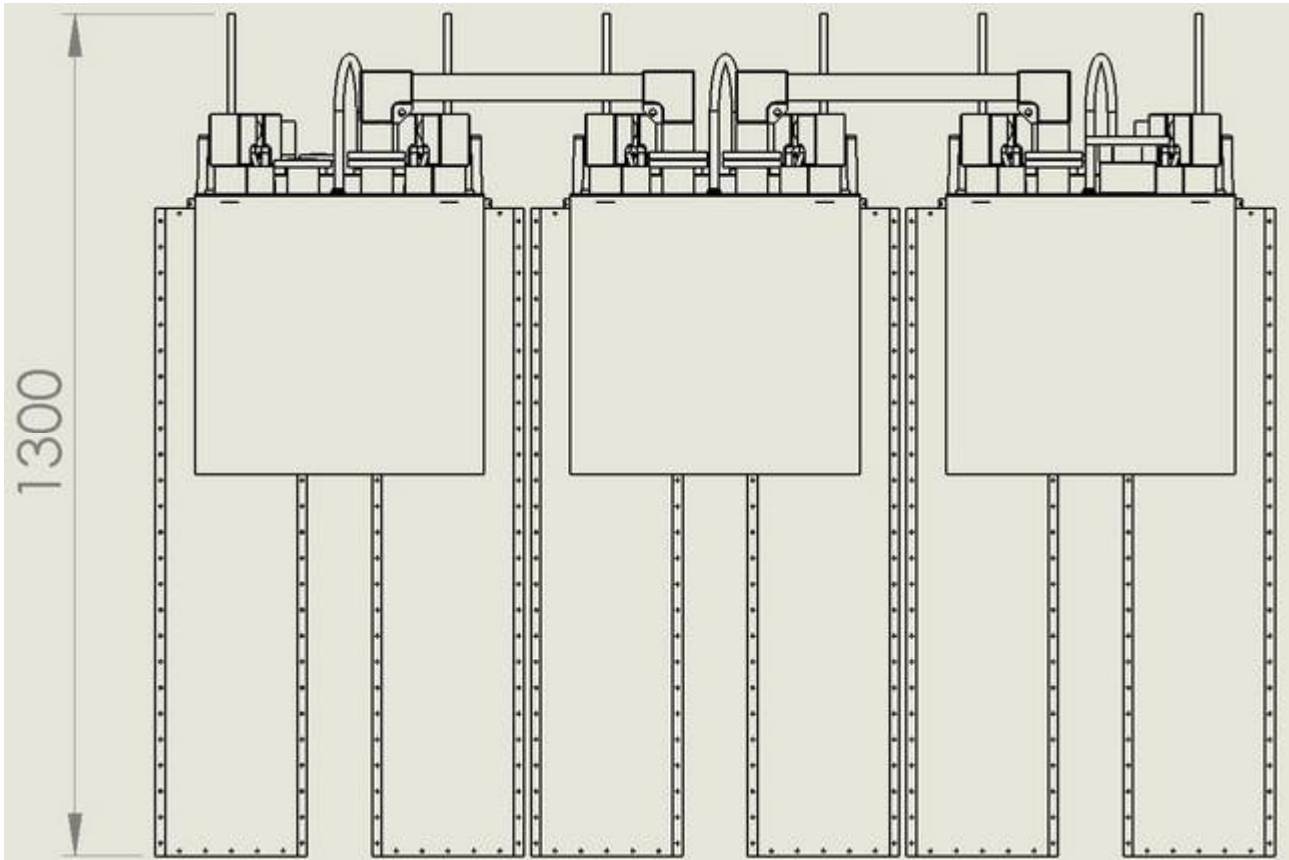
Model	FQDPDC2-#01 – Double Bridge Type
Impedance	50 Ohm
Frequency Range	87.5-108 MHz
VSWR ± 150 KHz	1.1:1 max
Insertion Loss	0.2 dB Max (Broad Band Input) at f_0 0.5 dB Max (Narrow Band Input 1) at f_0 0.4 dB Max (Narrow Band Input 2) at f_0 0.3 dB Max (Narrow Band Input 3)
Return Loss ± 150 KHz	≤ -26 dB
Isolation ± 2 MHz	≥ 30 dB
Input Number	4 (3 NarrowBand + 1 BroadBand)
Output Number	1
Connectors	7/8" EIA Narrow Band Input 1+5/8" EIA Broad Band Input 3+1/8" Output
Max Power (15 KW)	3KW × 3 Narrowband Inputs + 3 KW Broadband Input
Working Temperature	-20°C ÷ +50°C
Colour	Enamel Gray Ral 7001
Materials	Aluminum, Brass, Copper, PTFE, Stainless Steel, Silvering (min 12µm thickness)

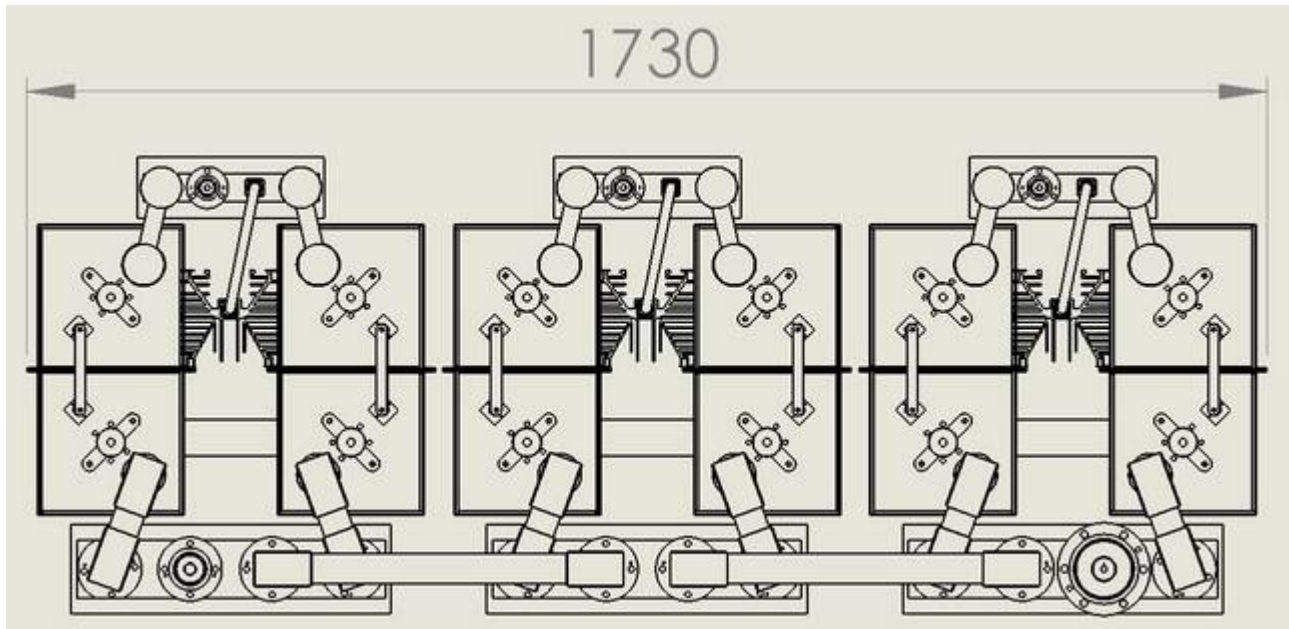
Features:

- Distortion – Free Transmission
- Double Balanced Bridge System
- Frequency Independent Input Impedance
- Frequency at broadband input can be varied without the band-pass cavity filters retuning.
- Broadband input can be used as spare input for expansion without requiring modification for the existing band-pass cavity filters.

If only narrow band input is being used, an extremely high coupling attenuation (directional coupler attenuation plus filter attenuation) can be achieved for very small frequency spacings.

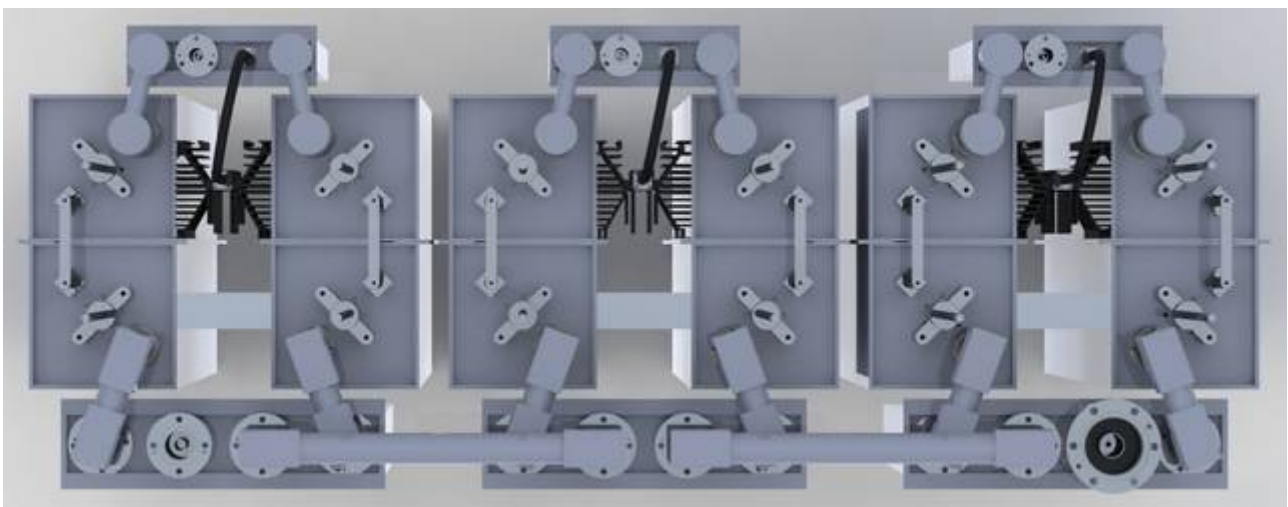
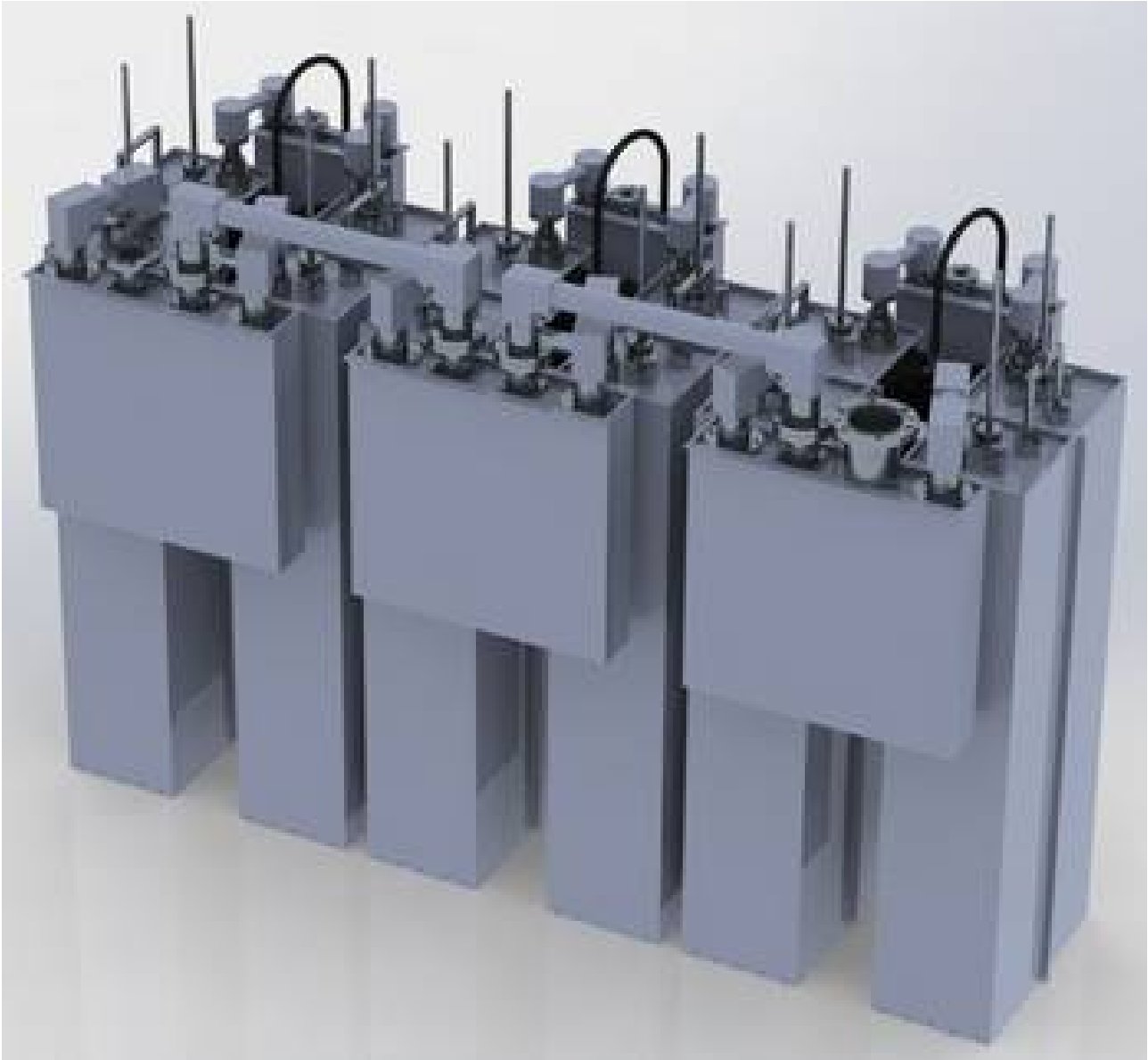
DIMENSIONS (mm)

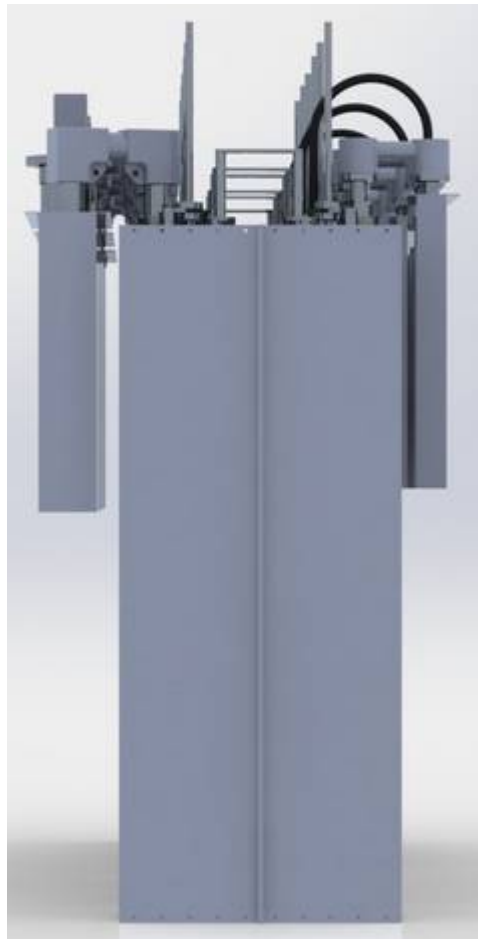
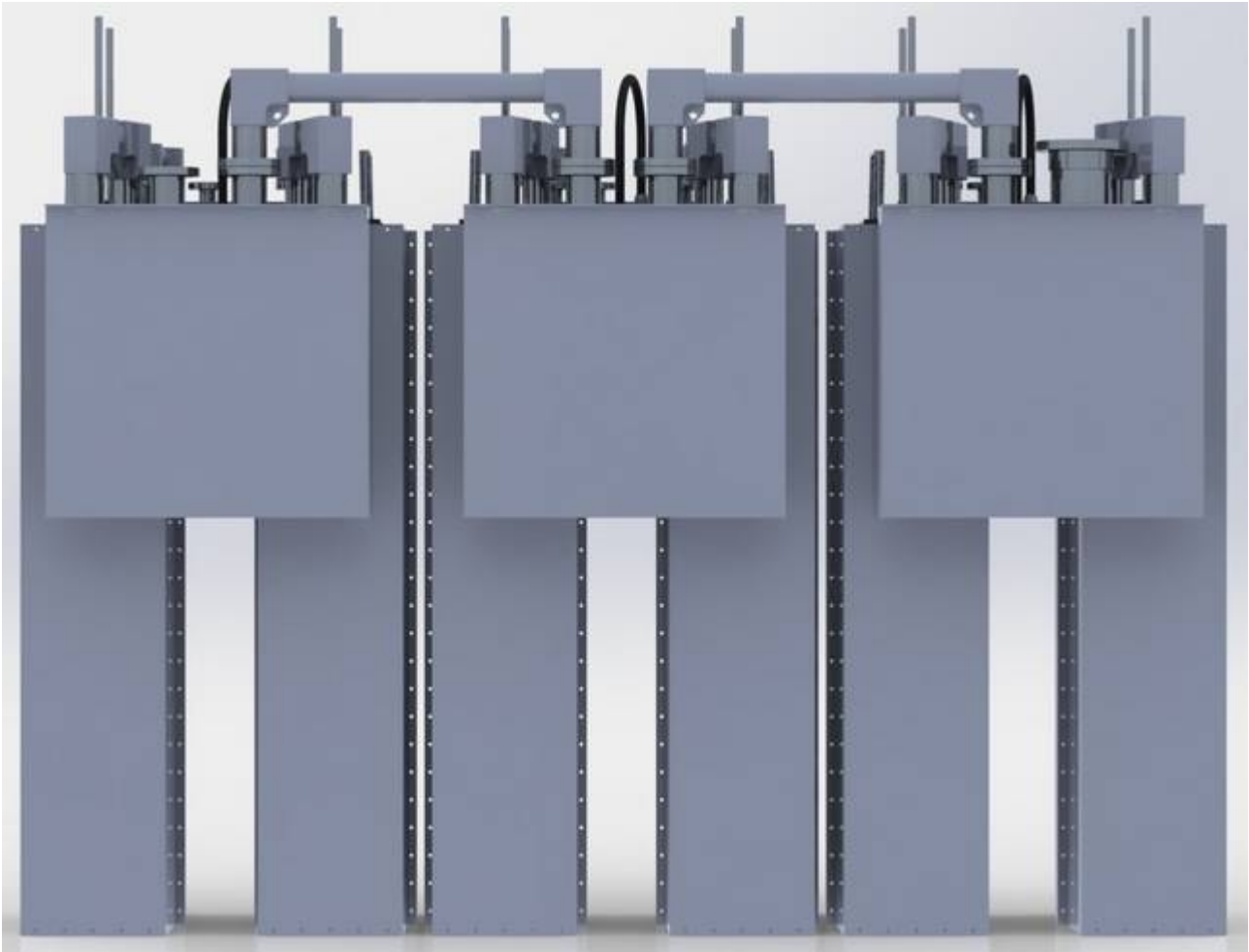


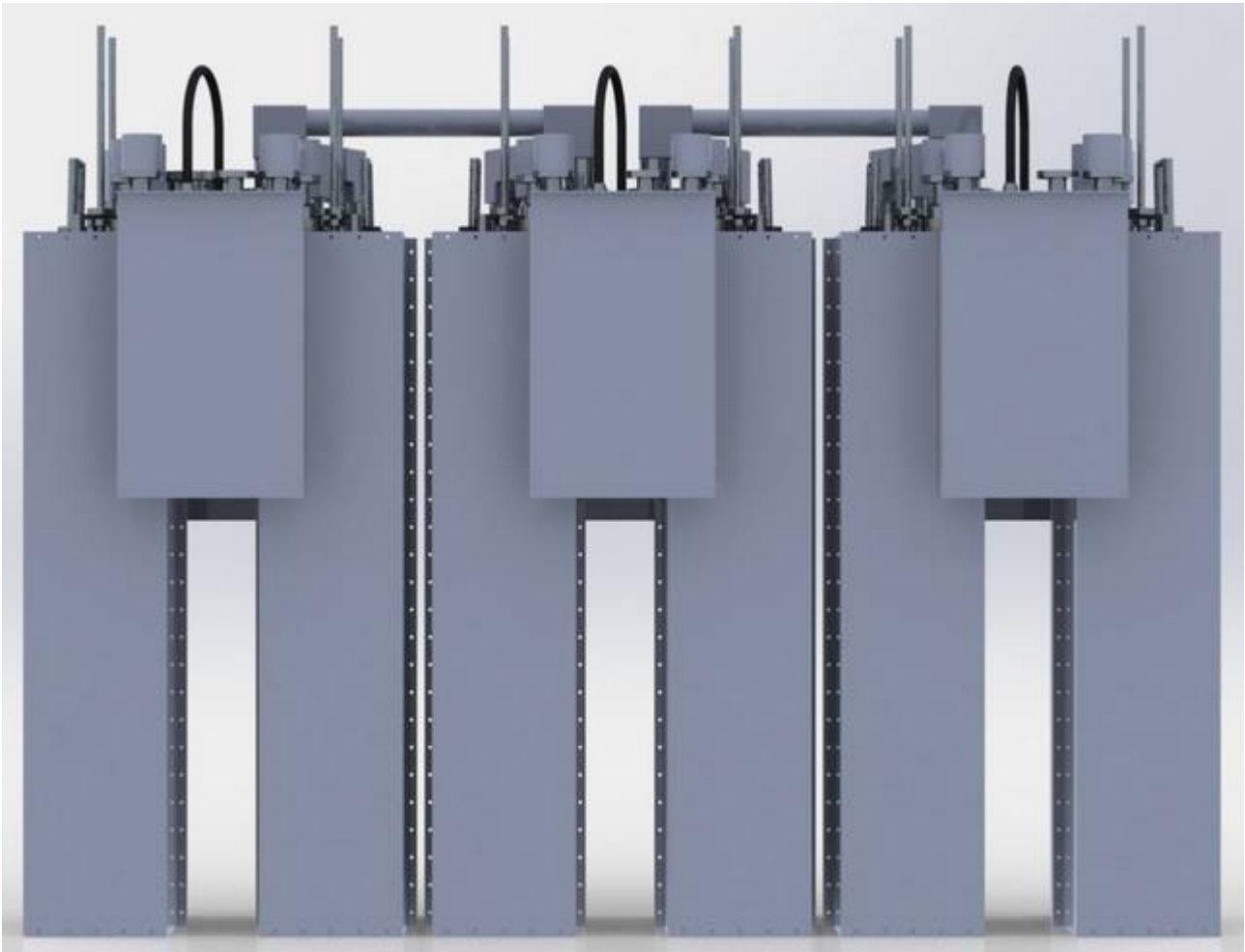


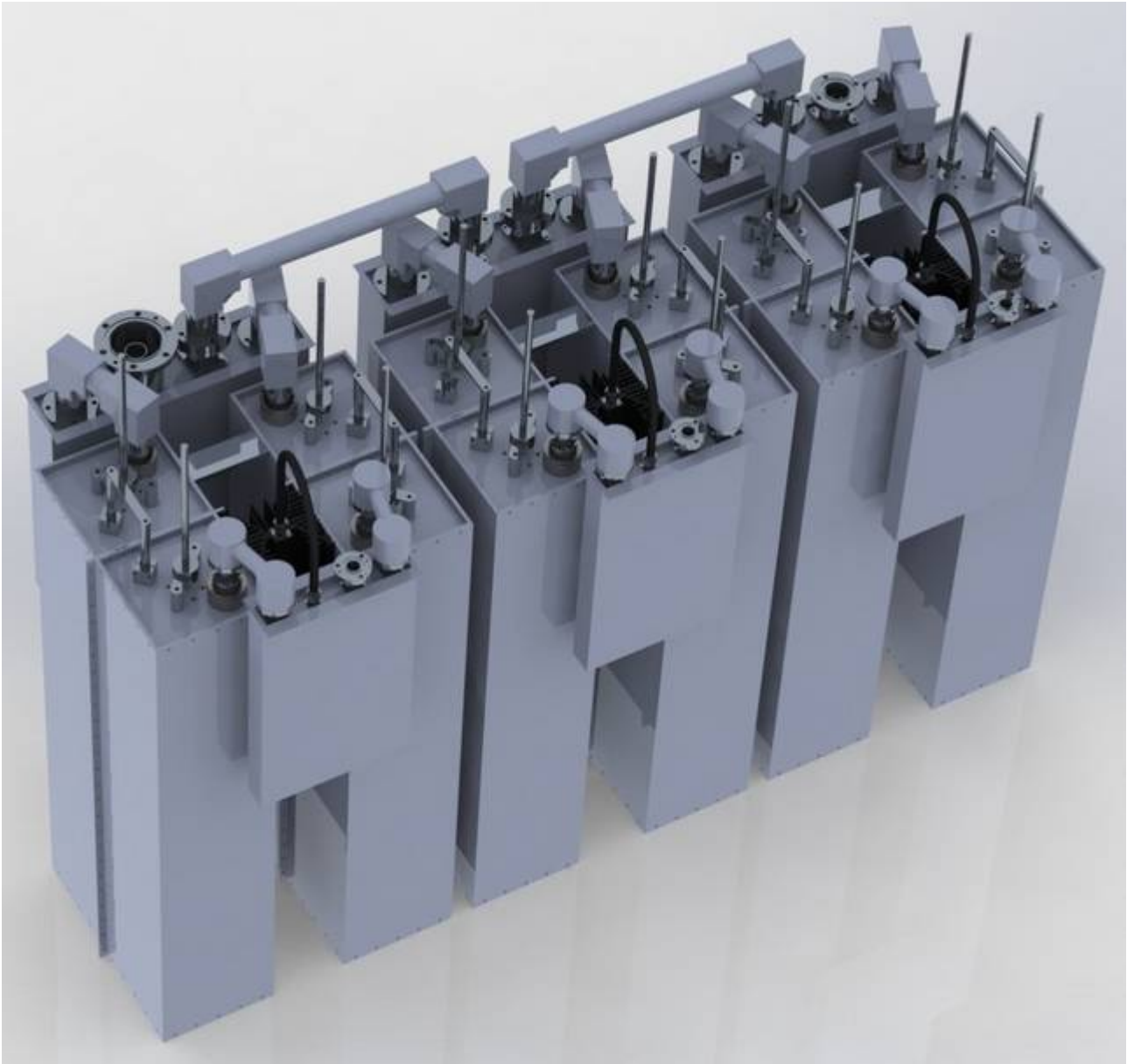
Dimensions	1300 (Max size)×1730×640 mm (51.1(Max size)×70.4×25.1inch) (H×L×W)
Net Weight	≅ 210 Kg approx.

IEWS OF THE SYSTEM









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