

# Converters Container Technical Data Sheet – 4 pomps operate x 250 kW

## CVSD\_4X250\_LV type

### 1. CONSTRUCTIVE DATA

CABIN		
1	Metallic frame from welded steel sheet. It is covered with epoxy primer chromed with zinc, one layer, min 40 microns; Epoxy paint against corosion V341 type, one layer, min 30 microns; Polyurethane paint 477 series, one layer, min 30 microns	1 pc.
2	Thermal insulated walls, 80 mm thick, made from sandwich metallic panels, REI wall type - with insulation made of mineral wool fire resistant class EI60 conf. EN 13501-2 / 200;	5 pcs.
3	Thermal insulated roof, 80 mm thick, made from metallic sandwich panels REI wall type - with insulation made of mineral wool fire resistant class EI60 conf. EN 13501-2 / 200;	1 pc.
4	Technological floor made of 4 mm steel plates	1 pc.
5	Concrete basement H=600mm equipped with HSI cable glands for LV and MV cable inputs	1 set.
6	Simple alluminium profile door and metallic sandwich panels REI wall type, foreseen with cremone and painted RAL 9003 – LV compartment	1 pc.
7	Double alluminium profile door foreseen with cremone and ventilator HJBPA 5200m <sup>3</sup> /h (Ioannina) type, ensuring IP43, painted RAL 9003 in the transformer room	1 pc.
MAIN ELECTRICAL EQUIPMENT		
1	LV Panel equipped with: <ul style="list-style-type: none"> <li>▪ 1 feeding circuit with 3P automatic withdrawble 2500 A circuit breaker</li> <li>▪ 5 distribution circuits with vertical disconnectors 500A</li> <li>▪ 1 feeding circuit for metering unit PM5100 through 3 pc CT2500/5A</li> <li>▪ internal services circuits (heating, internal/external lighting, sockets) supplied through inersor source type INS100</li> </ul>	
2	Frequency convertors for starting pomps 250kW - 4 pcs	
3	Harmonics filter -1pc	
4	Braking rezistor - 4 pcs	
5	Automation panel -1 pc	
6	ECO-R; 6/0.4kV dry transformer – 1 pc	
CONTAINER ACCESSORIES		
1	Internal grounding belt;	1 pc.
2	External earthing junction box with insulation metering of the ground insulation resistance;	2 pcs.
3	2 x 36 w neon lamp for internal lighting;	2 pcs.

4	8w battery emergency lighting lamp OVA37071E(Schneider) type, installed on the top of the door;	1 pc.
5	8W battery safety lighting OVA 37068E type 3h operating autonomy;	2 pcs.
6	15 W external lighting lamp ,IP54, installed on the top of the access door	1 pc.
7	Shucko socket 230 V ac;	1 pc.
8	10A normal lighting CB;	1 pc.
9	Thermostat with contact min./max. temperature surveylance inside the cabin;	1 pc.
10	Ventilation module with fan HJB 45 5200mc/h type and gravitational grilles, combined with chevron type for air evacuation	2 pcs.
11	Ventilation module with fan HJB 45 5200mc/h type and gravitational grilles, combined with chevron type for air intake	2 pcs.
12	1500W – Noirot heating convector;	1 pc.
13	Climatisation air/heating SPLIT system (cooling summer/heating winter); Ualim=230V;12.000 BTU(Fujitsu)(CFAN-97-HAC-001 si CFAN-97-HAC-004) - will operate when the 4 pomps are not commanded	1 pc.
14	Warning signs mounted on the entrance cabin door;	1 pc.
15	ID Plate;	1 pc.
16	Rubber carpet with insulating properties on the access lane to the equipments;	1 pc.
17	Lifting rings;	1 set.
18	RV-K (Cu) cable with XLPE insulation for internal cabin - internal services circuits connections (heating, internal lighting, external lighting, sockets, air conditioning)	

## 2. TECHNICAL CHARACTERISTICS

Nr.Crt.	Characteristic	Value
1	Total length;	8.200 mm
2	Height with roof and basement	3.000 mm
3	Total depth;	2.500 mm
4	Total weight unequipped;	7 tons
5	Protection degree;	IP 42
6	Combustibility class;	B
7	Smoke emissions in the equipment compartment;	S 1
8	Fire melted particles in the equipment compartment;	d 0
9	Fire protection degree according to IEC 13501-2;	EI 60
10	Water permeability;	Class C
11	Thermal transfer type;	10K

### 3. OPERATING CONDITIONS

Nr.Crt.	Characteristic	Value
1	Mounting	Exterior
2	Operating conditions	N3
3	Min/Max Temperature	-35 °C / + 45 °C
4	The highest average temperature	+35 °C
5	Relative average humidity	90%
6	Maximal altitude	1000 m

### 4. CABLING AND MOUNTING TYPE

Nr.Crt.	Characteristic	Value
1	Montage	On concrete basement with 600mm height
2	External cables access	Through the basement;
3	Internal cabling type	On the cable traces installed on the top part.

