



# Entec 12kV Solid Insulated Vacuum RMU

## Benefits

- ✓ Simple to use and operator friendly
- ✓ Numerous safety features
- ✓ Ultra low maintenance
- ✓ Low cost of ownership
- ✓ Designed for NZ conditions
- ✓ Stainless steel cabinet
- ✓ Outdoor ready
- ✓ Network reliability improvement
- ✓ Environmentally friendly



## Features

- ✓ Solid insulation
- ✓ Vacuum interruption
- ✓ Two switchgear types: CB and LBS
- ✓ Reduced inventory saves money
- ✓ Extensible, both sides
- ✓ Internal arc fault management
- ✓ Double skinned terminal box
- ✓ Sturdy and reliable mechanisms
- ✓ Logical mimic panel

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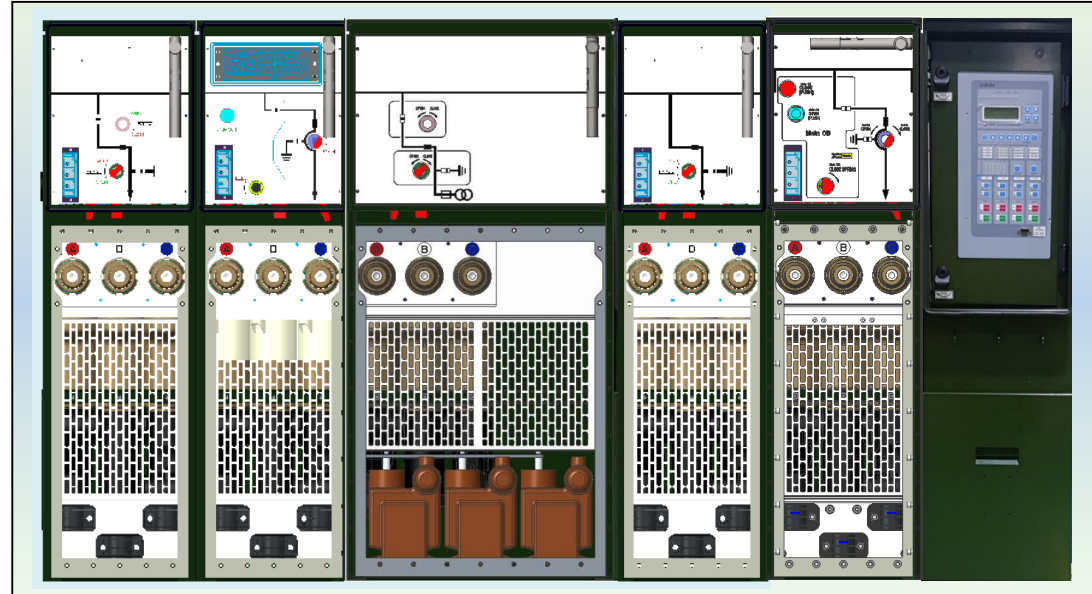
**CHRISTCHURCH**  
UNIT 4, 89 VICKERYS ROAD  
WIGRAM 8042  
PO BOX 11 033, SOCKBURN  
CHRISTCHURCH 8443  
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# Mechanical and Electrical Characteristics

	LBS	CB
Type	Modular Outdoor RMU	
Insulation media	Solid Epoxy Polymer	
Interruption media	Vacuum	
Rated voltage	12kV	
Rated frequency	50/60Hz	
Rated current	630A	
Load breaking current	630A	
Short time withstand current	20kA 3s	
Short circuit making current (peak)	52kA	
Short circuit breaking current	-	20kA
Capacitive breaking current (single bank)	-	50A (C2)
Line Charging Current	10A	-
Cable charging current	31.5A (C1)	
Lightning impulse withstand, phases and ground	85kV	
Lightning impulse withstand, across isolating distance	95kV	
Power frequency withstand, phases and ground	32kV 1 min	
Power frequency withstand, across isolating distance	32kV 1 min	
Internal arc classification (IEC62271-200)	B(FLR)	
Internal arc withstand test	16kA 1s	
Earth Switch short time withstand current	20kA 3s	
Earth Switch short circuit making current (peak)	52kA	
Mechanical endurance class; CB, LBS, ES	M1 (2000,1000,1000 cycles)	
Electrical endurance class; CB, LBS, ES	E1	
Enclosure	304 stainless steel, painted	
Degree of protection (front covers open, IEC60529:2013.08)	IP3X	
Degree of protection (all covers closed, IEC60529:2013.08)	IP55	
Rated operating sequence (IEC 62271-100)	-	CO-180s-CO *
Mechanism	Spring Charged Manual /Electric release	
Cable connections	IEC DIN 'C' 630A	
Voltage sensors / Indicator	3Ø CVD / LED Indication Unit	
Current sensors for fault indicator (optional)	3Ø, on Bushing or Cable 100:1, 200:1, 400:1, 600:1	-
Fault indicator (optional)	3Ø OC and EF	-
Current sensors for protection relay (optional)	-	3Ø, on Bushing or Cable 100:1, 200:1, 400:1, 600:1
Protection relay (optional)	-	Refer ADR
Seismic rating	IEEE 693 High	
Altitude (IEC 62271-200)	<1000m	
Ambient air temperature (IEC 62271-200)	-25 to +55 °C	
Relative humidity	95%	
Maintenance	Ultra Low	
Dimensions (per module)	H1250 x W350 x D730	
Mass (per module)	204 kg	224 kg

\* Reclosing option available on request

# Available Halo Modules



**C**      **V**      **M**      **D**      **P**      **S**

**C** = Cable Switch

**V** = Circuit Breaker

**M** = Metering Unit

**D** = Direct Connect

**P** = Pre-Charged

**S** = Scada Cabinet