

ELECTRICAL CONTROL PANELS

AUXILIARY CONTROL PANELS

UNICON provides Motor control center (MCC), Power Control Center (PCC), Variable Frequency Drive (VFD) Both AC and DC Supplies panels with complete accessories and devices such as Mains switch, MCCB, Contactors, Over load relays, Low voltage Switch Gears, Input-Output chokes, and bypass arrangement as per criticality of the application. We are not only providing excellent quality and workmanship but also provide service support to OEM and customers by way of designing the operation and service manuals.

Motor Control Center(MCC)



UNICON recognized as one of the leading manufacturers of (motor circuit control) MCC panels widely appreciated all across the country. These have the capacity to feed larger loads and are designed as per the client specifications. The MCC panels are available with multiple power stabs that help in supporting high capacity industrial motors. Our manufactured motor control center (MCC) units we are using International standard Switch gears and control gears like Schneider, Siemens, ABB, L&T.

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VARIABLE FREQUENCY DRIVE PANELS (VFD)



UNICON is a manufacturing and supplying a diverse range of VFD, which is designed as per the standards. Our VFD Panels are available in various dimensions and standard sizes as per the client's specifications. Apart from this, we are offering VFD Panels of various specifications and are effectively used in various industrial applications.

UNICON provide solution for motor control application by way of VFD Panels by using VFDs of various makes such as ABB, Siemens, Allen Bradley, GE Fanuc, Mitsubishi, Schneider, VFDs of various types vector- non vector and of specific applications are used as per customer choice and their preference from view of earlier supplies and inventory.

- ✱ Bus Bars made of electrolytic grade Aluminum alloy/Copper With certified % IACS conductivity.
- ✱ Separate bus bars chambers isolated from cable alleys and Unit feeder chamber for extra safety of maintenance staff.
- ✱ Design facilitating adequate space for cable or bus duct termination and providing required cable supports.
- ✱ All live parts are properly shrouded by means of acrylic sheet in order to ensure no accidental contact with live parts during maintenance.



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POWER CONTROL CENTER (PCC)



UNICON is One of Leading and engaged manufacturer of High performance Power Control Centers for various applications at Industries. These are offered in both standard and customized designs with Bus bar ratings up to various capacities as per Client's requirements. These control panels are widely appreciated for their reliability, high performance and easy maintenance. In this control panels we are using Air circuit Breaker for incomer and disconnecting fuse/MCCB switches and Power consumption meters, Indicators are International Brands with Fully insulated Copper/Aluminum bus bars for working high Performance.

OUR SPECIAL FEATURES FOR CONTROL PANELS

- ✦ Panel Design Bus bar ratings Upto 4000A.
- ✦ Custom Designed of Control Panels like fixed/Draw out type.
- ✦ Customer choice of Switch Gears and control Gears.
- ✦ Cable entry from Top or bottom Side.
- ✦ Single /double front construction.
- ✦ Easy access from customer PLC/DCS.
- ✦ 400 mm Clear space from ground/floor level.
- ✦ Design to meet all climatic conditions.
- ✦ Free Standing, floor mounting.

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TRANSFORMER RECTIFIER SET & CONTROL PANEL :



UNICON provides Transformer Rectifier (TR) is an IP55 oil Cooled assembly Suitable for Outdoor installation. The TRSET is designed with a conservative temperature and is provided With special surface treatment for extended Life in ESP Rooftop environments. Operating Parameters and diagnostics are conveyed to the operator through the control cabinet , a standard and user Friendly interface for Quick site deployment. The Control cabinet houses the Electronics and switch gear required for the control of the TR. All components used are in international make. The control cabinet can be Configured for Fitment of the ESP manufacturer's controller.

Technical Specification :

- ❖ Voltage Range: 50kv – 140kv (Peak on ESP Load)
- ❖ Current Range: 100 – 3000mA(Mean)
- ❖ Choice of Supply Voltages: 220-480V, 50/60 Hz
- ❖ Choice of Horizontal/ Vertical Bushing
- ❖ Option: Earthing/ Disconnecting Switch
- ❖ Option: Hermitically Sealed Construction

Key Features :

- ❖ Rugged, IP55 construction of TRSET for outdoor duty.
- ❖ Sturdy mechanical design of transformer to withstand Electro mechanical forces generated during spark Conditions.
- ❖ Rectifier bridge with avalanche grade diodes to withstand High surge voltage and long term short circuit conditions.
- ❖ Control panel with high reliability electronics and Switchgears.
- ❖ High life Expectancy through design.

Product Selection Chart :

TRX 90-200-H-ERT.CNT	
High Voltage Transformer Rectifier	Options
DC Voltage(KV) no load	IRT = With Internal Earth Switch
78 KV, 90 KV, 95 KV, 110 KV	OR EXT = With External Earth Switch
120 KV, 150KV	OR DSC = With Disconnect Switch
	CNT = With Powercom Controller
	OR XXX = With User Controller
DC Current(mA)	Orientations of HV Bushing
100 mA - 3000mA	H= Horizontal HV Bushing
	OR V= Vertical HV Bushing