



# METRA CLARK

Refrigeration & Air-Conditioning Wholesale



## DYNAPLEX

D I G I T A L S C R O L L

TYPE:  
CDU

CONFIGURATION:  
OUTDOOR

CAPACITY RANGE:  
47 to 120 kW

# COMMENTS

The DynaPlex condensing unit range has been designed utilising first order thermodynamic principles to ensure optimal component sizing and high refrigeration efficiency. Digital scroll capacity unloading technology ensures finely controlled cooling capacity that matches cooling demands, and decreases operating current with the added benefit of decreasing starting inrush current. Therefore, the DynaPlex range is the most complete and energy efficient range of outdoor condensing units suited for every commercial refrigeration application under the Metraclark Dynamic brand. The DynaPlex range is manufactured under strict ISO 9001:2015 quality management and all units are pressure tested before dispatching.

## DESIGN

- Two, and three Copeland scroll ZB and ZF compressor model options with digital modulation capabilities.
- Rigid, high strength, fully welded S355JR steel frame.
- Complete inboard modular mechanical design with component layout aimed to aid serviceability and maintenance.
- Connected discharge and liquid lines.
- Electrical wiring and switchgear layout based on a modular design, and wiring done to SANS regulations.
- Mid point corner lifting lug locations.
- Centre of mass forklift channels, and corner castor wheel channels.
- Single or dual entry suction header for improved suction pressure distribution and oil return.
- Copper discharge header.
- Conventional oil separator for oil retention within the parallel compressor system.
- Low pressure oil management system with oil reservoir and oil return header, feeding into the Copeland scroll compressors via Emerson TraxOil electronic oil level management.
- Full sized horizontal liquid receiver mounted inboard with proper gravitational liquid flow.

## STANDARD COMPONENTS

- Individual Danfoss discharge non-return check valve.
- Individual Danfoss suction shut-off and filter drier with replaceable solid core.
- Individual Danfoss HP and LP switches, with global HP and LP transducers, and gauges.
- Compressor discharge and suction line vibration eliminators.
- Henry conventional oil separator with ball and float.
- Henry main discharge line magnetic non-return check valve.
- Oil return line includes; hand shut-off valve, filter drier, solenoid valve, and sight glass.
- Oil return header with individual isolating valves.
- TraxOil electronic oil level regulator.
- Danfoss liquid line replaceable filter drier, sight glass, and ball valves.
- Dixell condenser fan speed control.
- Rack controller and digital compressor driver: Dixell IPRO208D and XEV02D.
- Horizontal liquid receiver manufactured and certified to European specifications, available in 80, 110 Liters.
- Outdoor housing.
- Recam V-type condenser with 380Vac fans.