

# LIEBERT® XDC™ REFRIGERANT CHILLER WITH LIEBERT ICOM™ CONTROLS

Specifically Designed To Support Liebert XD System Cooling Modules



## BENEFITS

### Reliability:

- Can cool more than 30 kW per rack. Supports Smart Module or Standard configurations of Liebert® XD Modules
- Uses pumped refrigerant, which is ideal for use around electronic equipment
- Includes redundant pumps, for increased reliability
- The packaged unit includes Enclosure, Pumps, Heat Exchanger, Scroll Compressor, Receiver Tank, Liebert ICOM Controls, Valves and Piping

### Flexibility:

- The Liebert ICOM control system features maintenance history, spare parts list, Liebert IntelliSlot® for up to two cards (web compatibility and BMS), and comprehensive monitoring
- Complements Liebert room-based precision cooling units
- Scalable system allows easy addition of additional cooling modules
- Increases control of data center cooling to the rack level

### Low Total Cost Of Ownership:

- Provides superior cost for cooling per high heat density rack
- Highly energy efficient

The Liebert XDC Refrigerant Chiller With Liebert ICOM Controls is a part of the highly energy-efficient Liebert XD™ high heat density cooling system.

The system can cool more than 30kW per rack and uses pumped refrigerant, which is ideal for use around electronic equipment.

Liebert XDC is specifically designed to support the Liebert XDO, XDV, XDH and CoolFrame modules. The Liebert XDC is an indoor unit that connects directly to the Liebert XD cooling modules and it provides refrigerant circulation and control while maintaining the refrigerant at a temperature always above the actual dewpoint.

The Liebert XDC with ICOM is also designed to support Liebert XD Smart Modules – with cooling modules integrated control boards that enable modulation of cooling capacity and higher efficiency performance. With dynamic fan control, the Liebert XD Smart Modules can save 50 to 70 percent in energy costs over traditional precision cooling methods.



**TECHNICAL DATA**

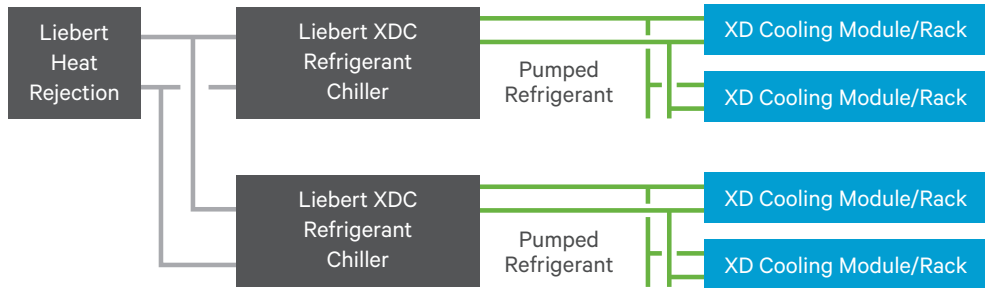
Nominal Capacity, 60 Hz	160 kW / 46 Ton
Nominal Capacity, 50 Hz	130 kW / 37 Ton
Input Voltage	460 V, 3 ph, 60 Hz 380/415 V, 3 ph, 50 Hz
Full load amps	79 A
Height	78" (1981 mm)
Width	74" (1879 mm)
Depth	34 <sup>5</sup> / <sub>8</sub> " (879mm)
Weight, empty	1800 lbs (817 kg)

The indoor Liebert Refrigerant Chiller is specifically designed to support the Liebert XD cooling modules. The Liebert XDC connects directly to the modules through the pumped refrigerant.

When a building chilled water system is available, the Liebert XDP Pumping Unit is utilized as an interface between the pumped refrigerant circuit and the chilled water system. Both the Liebert XDC and the XDP units circulate the refrigerant to the Liebert XD modules, while maintaining the refrigerant at a temperature always above the actual dewpoint.

**Liebert® XD Hydraulic System Schematic**

*Direct system configuration*



*Indirect system configuration*

