



Controls Pro-Dialog

Operator interfaces

- Clear and easy to use operator interfaces
- **Pro-Dialog Plus interface**
Organisation of information around 10 menus directly accessible through hard keys
- **Pro-Dialog touch screen interface**
Organisation of information around 12 menus directly accessible through soft keys and possibility to install the touch screen remotely from the chiller
- **Pro-Dialog+ screen interface**

Control features (Pro-Dialog Plus/Pro-Dialog touch screen)

- An advanced numeric control system, combining complex intelligence with great operating simplicity.
- Constantly monitors all machines parameters and safety devices and precisely manages the operation of compressors, fans and water pump.
- PID control algorithm anticipates load variations, guarantees leaving water temperature stability and prevents unnecessary compressor cycling.
- The long stroke electronic expansion valves (EXV) and PID superheat control, together with the head pressure control algorithm, improve energy efficiency at part load conditions and optimise unit operation.
- Automatic reset of the chilled-water temperature set point for optimised power consumption.
- Several capacity loading possibilities for improved start-up at low outdoor temperature and use of one refrigerant circuit as back-up.
- Provides preventive protection and enhanced unit reliability.
- Equalisation of operating time and number of compressor start-ups.
- Monitors all safety parameters. Fault history function and 80 fault code for immediate fault location.
- Parallel control of two units as standard.
- Extensive remote control capabilities allow integration into building management systems.
- RS-485 serial port for connection to the Carrier Comfort Network and any other monitoring system (through gateways).



Pro-Dialog touch screen interface - optional according to range (30XA, 30XW)



Pro-Dialog Plus interface

Pro-Dialog+ screen interface

- Pro-Dialog+ combines intelligence with operating simplicity. The control constantly monitors all machine parameters and precisely manages the operation of compressors, expansion devices, fans and of the water heat exchanger water pump for optimum energy efficiency.

Energy management

- Seven-day internal time schedule clock: permits unit on/off control and operation at a second set point.
- Set point reset based on the outside air temperature or the return water temperature or on the water heat exchanger delta T.
- Master/slave control of two units operating in parallel with operating time equalisation and automatic change-over in case of a unit fault (accessory).
- Change-over based on the outside air temperature.



Pro-Dialog+ interface

Integrated features

- Night mode: capacity and fan speed limitation for reduced noise level.
- With hydronic module: water pressure display and water flow rate calculation.

Ease-of-use

- The new backlit LCD interface includes a manual control potentiometer to ensure legibility under any lighting conditions.
- The information is displayed clearly in English, French, German, Italian and Spanish (for other languages please consult Carrier).
- The Pro-Dialog+ navigation uses intuitive tree-structure menus, similar to the Internet navigators. They are user-friendly and permit quick access to the principal operating parameters: number of compressors operating, suction/discharge pressure, compressor operating hours, set point, air temperature, entering/leaving water temperature.