

Accessories for DX Modulating Air Conditioning

Controls & Refrigerant Distributors



Each cooling unit (or evaporating unit) in a modulating system requires its own control. There are two options: The SMX II microprocessor system or three-knob electromechanical switch assembly.

The SMX II microprocessor control system consists of a PLHMX-HV power/logic module, SMXir keypad/display (one for each evaporating unit), CXP cable, and a TSEP temperature sensor.

The PLHMX-HV power/logic module includes a 3 ft (0.9 m) wire harness that connects to the evaporating unit's junction box. The CXP cable, available in many different lengths, connects the SMXir keypad/display to the PLHMX-HV. The TSEP temperature sensor, also available in different lengths, plugs into the PLHMX-HV. The TSEP's sensor bulb is installed in the return air path.

The SMXir keypad/display has an attractive, compact housing available in black or white. The display includes a mounting plate for easy surface-mount installation. A large, easy-to-read LED shows cabin temperature, set point, programming prompts, and fault code warnings. Small LEDs and backlit text indicate system status. Under a decorative hinged door is the membrane-sealed SMX 10-button keypad with clearly labeled keys for single-keystroke operation. Internal electronics have an anti-corrosion coating. An optional infrared remote control is available. For more information about the SMXir keypad/display, including dimensions, please refer to specification sheet L-2088.

The three-knob electromechanical switch assembly is available in two varieties: The SA1 for cooling only systems, and the MS5 for units with electric heat. Knobs control mode, fan speed, and a thermostat. These controls come with a 10 ft. (3 m) capillary tube, 3 ft. (0.9 m) wire harness, and color-coded terminal strip. For more information, please refer to specification sheet L-0243.



Electromechanical controls with rotary switches are available for Cruisair DX modulating units.

Key Benefits

- SMX II features: Automatic or manual fan-speed control, inside temperature display, auxiliary heat control, auto dehumidification, nonvolatile memory, fault display, brightness control
- SMX II programmable functions: Fahrenheit/Celsius display, low- and high-speed fan adjustment, compressor time delay, compressor response differential, fan response differential, continuous/intermittent fan, line voltage calibration, temperature sensing calibration, factory memory reset, dehumidification cycle parameters
- Optional remote control for SMXir keypad/display
- 3-knob electromechanical control features: Knobs for mode, fan speed, and thermostat, available with electric heat control (MS5 model)

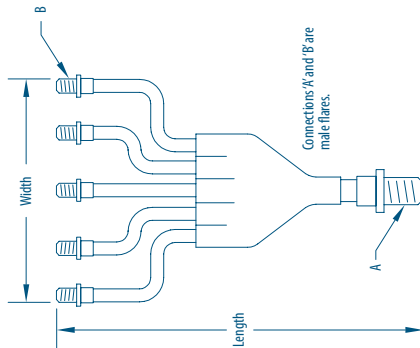
Refrigerant Distributor Dimensions

Model⁽¹⁾	DD4	SD8-6
Length	7.5/191	9.0/229
Width	4.5/114	7.0/178
A	0.38/10	0.75/19
B	0.25/7	0.50/13

¹ All dimensions correspond to the illustration below.

Cruisair offers five-way distributors to split refrigerant lines from the condensing unit to multiple evaporating units, providing equal refrigerant flow to each. For best results, the distributor should be located so that the tubing running to each evaporating unit is close to equal in length. Depending on the installation, the installer may prefer to use multiple "Tee" fittings instead.

The DD4 discharge distributor has a 3/8 in. male flare inlet connection, and five 1/4 in. male flare outlets. The SD8-6 suction distributor has a 3/4 in. male flare inlet and five 1/2 in. flare outlets. Flare nuts are provided, as are flare sealing caps if less than five units are connected. The flare nuts on the suction distributor are 3/8 in. reducing nuts that will allow 3/8 in. copper tube to be connected to the 1/2 in. flare fittings. If a 1/2 in. tube is to be connected, a standard 1/2 in. flare nut will be required.



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Specifications and availability subject to change without notice.

Dealer