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New integrated control solution for heat pumps

CAREL offers the first complete integrated electronic solution for heat pumps and room temperature control.

For part load efficiency, CAREL can supply both standard and custom solutions, using EXV valves and inverters for managing the compressors. Main functions for the heat pump are the management of water-water and air-water units; the operation in both heating and cooling mode; the management of domestic hot water production; the integration with heaters or boilers; the calculation of cost effectiveness of heat pump-boiler; the use of electronic expansion valves; the compressor control by inverter (0 to 10 Vdc).

The system features integration of domestic hot water with solar collectors; management of six rooms with two schedulers/zones; humidifier and dehumidifier management; management of primary air (heat recovery unit fan); BMS connection with Modbus® protocol. ■



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