armcor
air solutions

Precise Comfort Control PCC for Heat Recovery Equipment

– Functional
– Universal Compatibility
– Simple to Operate
– Technical Support

Understanding Control Systems

Heating, cooling and ventilation systems, account for nearly half of the energy consumed in small to large commercial buildings.

Ensuring your heat recovery equipment is operating efficiently is critical to reducing your building's energy consumption and cutting operational costs while maintaining occupant comfort.

Controls are one of the most important parts of the HVAC system since the control translates the human needs for heating and cooling into instructions to the heat recovery equipment.

Correct controllers selected for your heat recovery equipment can dramatically reduce unnecessary HVAC equipment operation, saving energy and extending equipment life.

Armcor manufactures an extensive range of heat recovery equipment from a small ceiling mounted unit to large commercial units, each requiring individual operation to function effectively and efficiently.

Armcor can provide a range of control options to suit your application and budget from the simple point to point connection to advanced high level controllers (HLI) which can be incorporated into building management systems (BMS).

Standard Inclusions

All of Armcor heat recovery units are fitted with an accessible electrical cabinet/control box containing all prewired components and controls.

Armcor provide standard screwless easy-connect terminal strips which have universal compatibility to any controller from the simple wall mounted to the high level control systems.
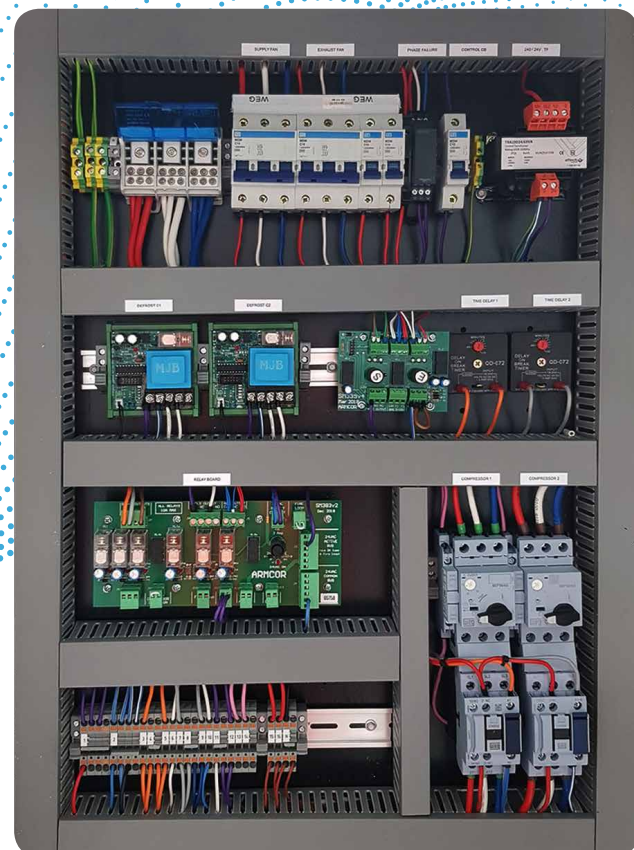
Integrated components include:
—Fan stop/start 24v
—Compressor stop/start 24V

—0-10V DC fan control via BMS
—Fan adjustable speed pots
—24V active 24V common
— Reversing valve stop/start
— Fan Fault 24V NO or NC output
— Compressor Fault Output VFC
— 0-10V dc economy dampers

Switchboard Inclusions

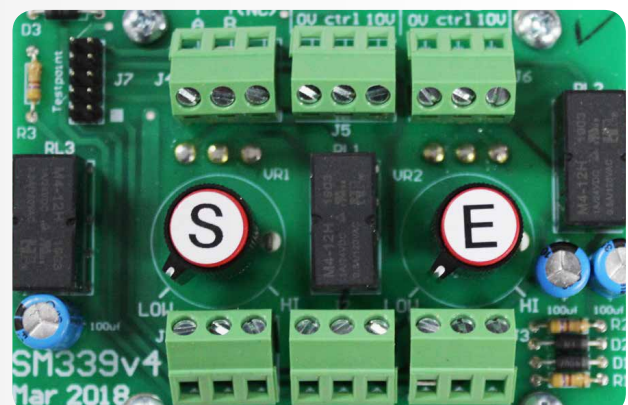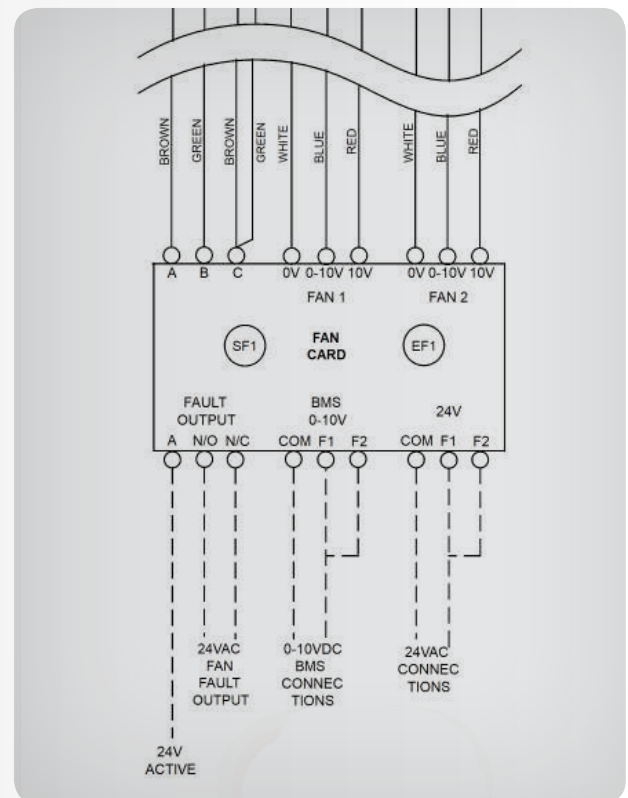## The accessible switchboard contains all necessary, clearly labeled controls.

- Circuit breakers
- Phase failure relay
- Fan control card
- Input relays
- Compressor time delays
- Motor circuit breakers for compressors
- Adjustable defrost controllers
- Power connection terminal block

Fan Control Card

Every unit with EC Plug fans is provided with a unique fan control card with various options for controlling the fan.

- 24v remote enable
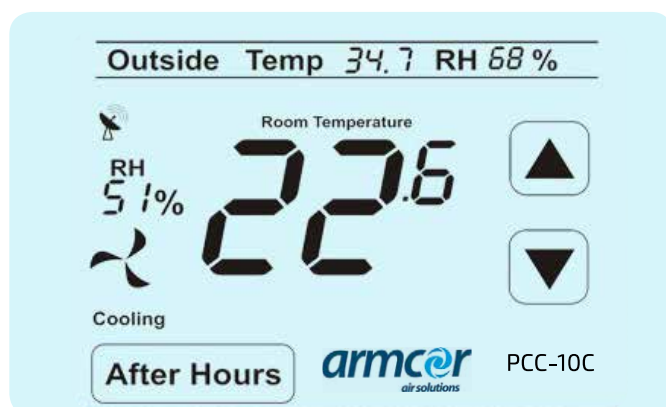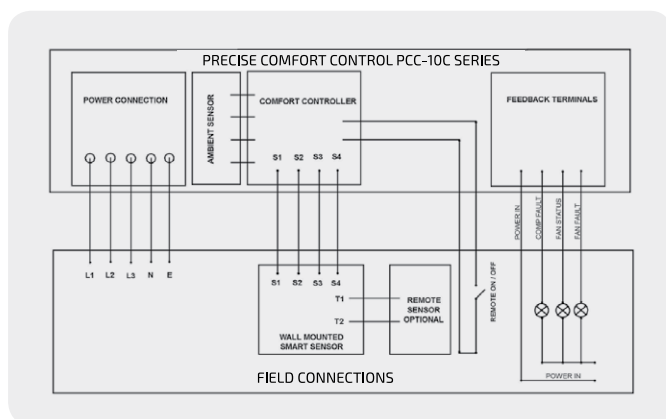- 0-10v dc fan control
- Fan fault contact

Precise Comfort Control PCC-10C

Low Level Controller
For XEP/XES Packaged Airconditioning Units

Armcor has introduced an effective well priced controller PCC-10C suitable for the XEP Packaged Airconditioning and the XES Swim Pool Units which is mounted in the electrical panel of the heat recovery unit. The controller will operate up to 4 compressors, reversing valve, supply and exhaust fans on/off, compressor capacity control, economy cycle, timeclock, lockable set points, night purge, mod-BUS compatibility, fault signals and many more features.

A range of sensors are available to suit any application including ambient temperature and humidity sensors , supply or return air sensors, averaging sensors and wall mounted LCD touch screen interaction and status window which displays the current operation of the unit.

The controller comes with a range of internal functions and adjustable set-points to suit many building requirements including adjustable dead-bands, sensor offsets, and time delay functions.
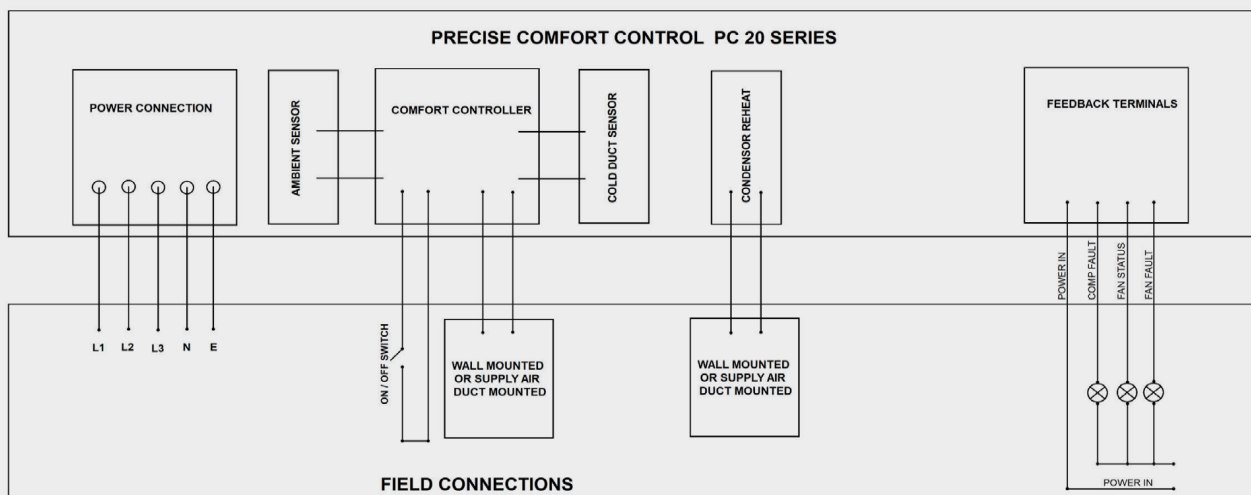
Precise Comfort Control PCC-20C

Low Level Controller for Humidity/Temperature Control Units

Armcor has introduced an effective, well priced, low level controller PCC- 20 for it range of Humidity Temperature Control Units (HTC) . HTC units require both temperature and humidity control with reheat capability. These controllers are easy to operate, easy to adjust and do not require a laptop to change the program or change any other operating function.

These controllers are capable of controlling compressor modulation, reheat modulation, via inbuilt temperature and humidity sensors.
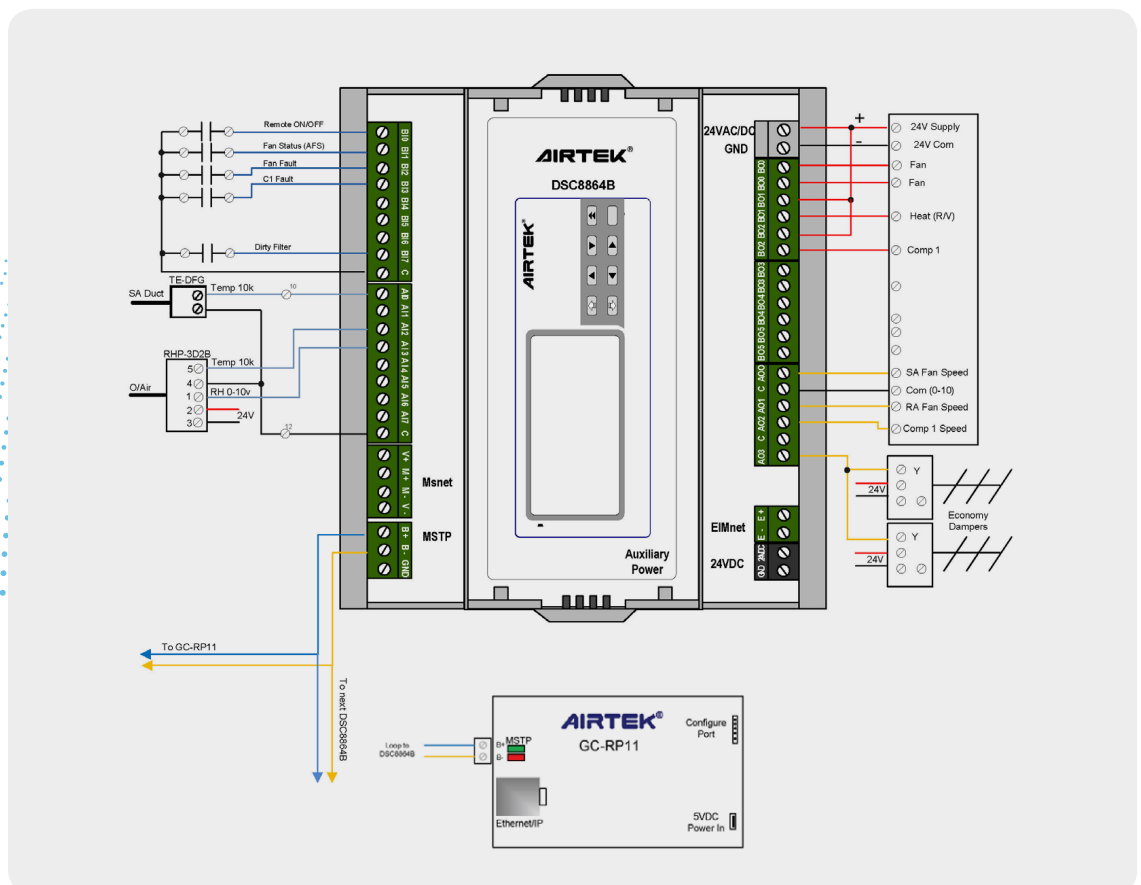
Precise Comfort Control PCC-30C

High Level Controller for
XEP/XES Packaged Airconditioning Units

Building Management Systems (BMS) are becoming more and more common place in commercial buildings. These systems control multiple building services from one central location. These systems are expensive, require specialist control logic and knowledge and are normally designed and programmed by a specialized control company.

Armcor use the Airtek DSC 8864B range of HLI inbuilt controllers to suit BACnet connection to the central control system.

These control systems include the program to operate the unit and are factory tested and commissioned before dispatch. Further on site programming and integration with the central BMS is usually necessary and the installing controls contractor must have the capacity to do the on site integration.

The controller comes with a LCD Screen, adjustable set points and manual on/off for each function. A separate router is provided for a ethernet cable for BMS connection via BACnet.

Fresh Air Indoors

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