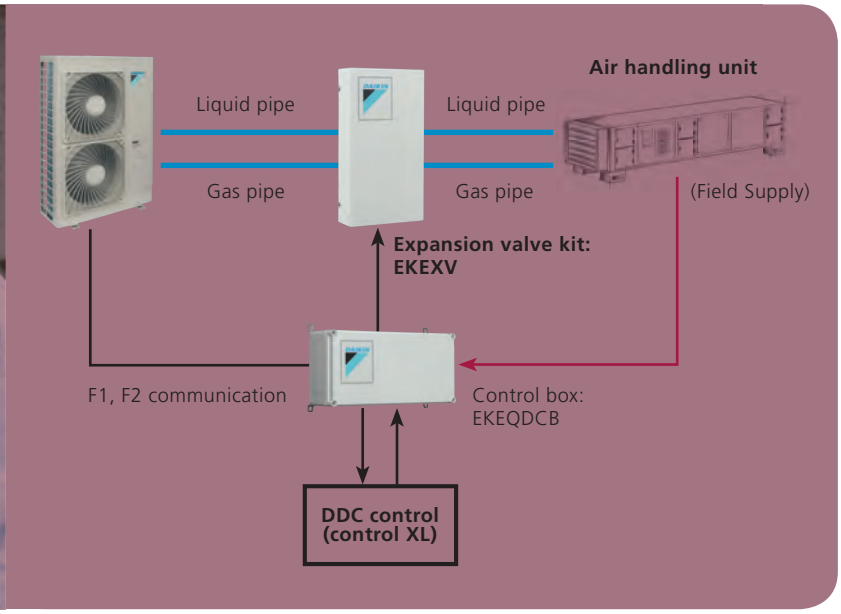
your comfort. our world.

DX Coil Control solution



Introducing Daikin's simple solution that can give full linear control over DX air handling unit coils. Accurate and efficient capacity control by either hard wired voltage and volt free signals or via total integration with a Building Management System (BMS)*.

This solution gives control with either Daikin's range of ERQ DX Split condensers or with our extensive range of two and three pipe VRV® systems for your high capacity air handling units.

FEATURES

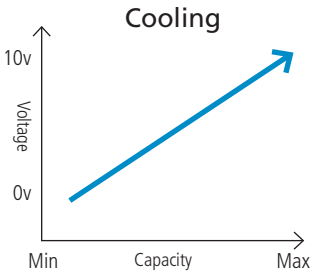
- Minimum to maximum capacity steps
- Cool/Heat mode selection
- Pull down mode selection
- Automatic coil freeze up prevention built in (cooling mode)
- Hot plug and play remote controller interface for service and commissioning
- Defrost output
- Run/Fail indication output
- Fault code indication (via BMS only)

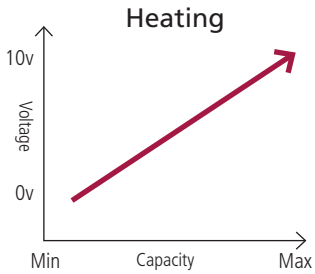
*BMS integration via Modbus RTU RS485

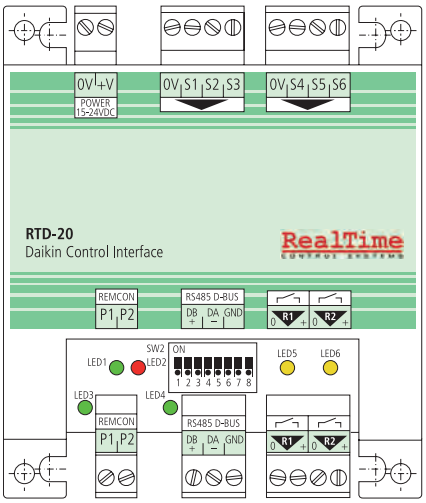
LINEAR CONTROL

Linear control gives you the ability to change the temperature of the supplied air into your building either in cooling or heating, this enables you to effectively meet the requirements of your indoor space temperature, giving you high comfort whilst minimising your energy consumption.

By giving you the option of connecting either by voltage, volt free contacts or by integrating your BMS straight into the controls system we can offer the flexibility required to meet your controls needs.







INPUTS

CONTACT	DESCRIPTION	CLOSED MADE CONTACT	OPEN UNMADE CONTACT	VARIABLE 0-10vDC
S1	On/Off	On	Off	N/A
S2	Heat/Cool	Heating	Cooling	N/A
S3	Coil Demand	N/A	N/A	Capacity control
S4	Pull down mode enable (cooling mode)	Enable	Disabled	N/A
S5	External Mode Source	Enable RC / ABC	RTD Control on S2	N/A

S1 – On/Off control (volt free contact)

S2 – Heat/Cool control, changes the system from heating to cooling and vice versa (volt free contact)

S3 – Capacity demand, varies the capacity from approximately 30% to 100% capacity (0-10V DC control)

S4 – Pull down mode, this mode enables the unit to decrease it's minimum evaporating temperature (volt free contact)

S5 – External Mode Source, this contact can enable commissioning and service access via a temporarily connected Daikin BRC controller, and also by the use of the ABC Terminals of ERQ and VRV® Outdoor Units and BSVQ Units.

OUTPUTS

R1	Run/Defrost
R2	Unit Fault

R1 – Run or Defrost indication

R2 – Fault indication

Note Relay Max Switching Voltage Limits: 1A @ 24v AC or 1A @ 30v DC.

Modbus Control

If all functions are to be controlled via a Modbus enabled BMS then the setting are changed by altering Holding Registers.

Requirements

Stand alone option – ERQ Condenser, EKEXV expansion valve, EKEQDCB controller, UK.RTD-20

VRV® Option – VRV® system, EKEXV expansion valve, EKEQMCB controller, UK.RTD-20

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DAIKIN UK RECYCLING END OF LIFE AIR CON UNITS

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units.

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