



Air curtains

Connection to SkyAir (ERQ)

CYQS/M/L - DK - F/C/R

Air curtains are the ideal solution to combat the issue of climate separation across retail outlets or office doorways.



In conjunction with Biddle, Daikin ERQ heat pump air curtain solution combines the benefits of the Biddle air curtain technology with the benefits of Daikin ERQ heat pump inverter technology.

Using a combination of rectifier technology, air velocity and temperature control they deliver greater comfort to staff and customers alike, all year round, in all weathers.

Features and benefits:

- > Energy savings up to 72% compared with electric air curtains
- > Short payback times – less than 1.5 years
- > Wide capacity range for maximum application potential plus flexible control options
- > R-410A refrigerant, single and 3 phase
- > Wide operation range: -5~46°C in cooling and -20~15.5°C in heating
- > Air curtain rectifier technology – deep penetrating airstream
- > Constant air velocity technology – all year round efficiency
- > European patent
- > 1.0, 1.5, 2.0 and 2.5 metre door widths
- > Door heights of up to 3.7 metres
- > Choice of colour RAL9010:White or RAL9006:Grey

Easy and fast installation of these systems not only reduces costs but makes expensive water systems, boilers and gas connections redundant.

This combination enables Daikin to offer its customers the ultimate environmentally conscious solution.



ERQ - Outdoor unit

Please see table overleaf for connectivity to air curtains



F = Free hanging model



C = Cassette model



R = Recessed model

CYQS/M/L - DK - F/C/R

Small air curtains:

| | | | CYQS150DK80*BN | | | CYQS200DK100*BN | | | CYQS250DK140*BN | | |
|--|--------------------------------------|---------|--------------------|-------|-------|--------------------|-------|-------|-----------------|-------|-------|
| | | | * = F | * = C | * = R | * = F | * = C | * = R | * = F | * = C | * = R |
| Heating Capacity / Nominal Conditions* | speed 3 | kW | 9.00 / 8.3 | | | 11.60 / 10.60 | | | 16.20 | | |
| Delta T | Inlet = room temperature | speed 3 | 15 | | | 15 | | | 16 | | |
| Power Input (50Hz) | Fan only / Heating / Max at Nominal* | kW | 0.35 / 0.35 / 0.41 | | | 0.46 / 0.46 / 0.27 | | | 0.58 / 0.58 | | |
| Maximum Door Width | | m | 1.50 | | | 2.00 | | | 2.50 | | |
| Mounting Height *2 | Max / Min | m | 2.3/2.0 | | | 2.3/2.0 | | | 2.3/2.0 | | |
| Dimensions | Height | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| | Width | mm | 1,500 | 1,500 | 1,548 | 2,000 | 2,000 | 2,048 | 2,500 | 2,500 | 2,548 |
| | Depth | mm | 590 | 821 | 561 | 590 | 821 | 561 | 590 | 821 | 561 |
| Weight | | kg | 66 | 83 | 88 | 83 | 102 | 108 | 107 | 129 | 137 |
| Casing | Colour | | white RAL9010 | | | white RAL9010 | | | white RAL9010 | | |
| Minimum requiring ceiling void | | mm | 420 | | | 420 | | | 420 | | |
| Fan - Air Flow Rate | Heating | speed 3 | 0.485 | | | 0.647 | | | 0.808 | | |
| Sound Pressure | Heating | speed 3 | 49 | | | 50 | | | 51 | | |
| Refrigerant | Type | | R-410A | | | R-410A | | | R-410A | | |
| Piping Connections | Liquid (OD) / Gas | mm | 9.52/16.0 | | | 9.52/16.0 | | | 9.52/19.0 | | |
| Power Supply | | ph/V/Hz | 1~/230/50 | | | 1~/230/50 | | | 1~/230/50 | | |

*Nominal conditions tested to EN14511

Medium air curtains:

| | | | CYQM100DK80*BN | | | CYQM150DK80*BN | | | CYQM200DK100*BN | | | CYQM250DK140*BN | | |
|--|--------------------------------------|---------|--------------------|-------|-------|-------------------|-------|-------|--------------------|-------|-------|-----------------|-------|-------|
| | | | * = F | * = C | * = R | * = F | * = C | * = R | * = F | * = C | * = R | * = F | * = C | * = R |
| Heating Capacity / Nominal Conditions* | speed 3 | kW | 9.20 / 8.3 | | | 11.00 / 10.6 | | | 13.40 / 13.1 | | | 19.90 | | |
| Delta T | Inlet = room temperature | speed 3 | 17 | | | 14 | | | 13 | | | 15 | | |
| Power Input (50Hz) | Fan only / Heating / Max at Nominal* | kW | 0.37 / 0.37 / 0.29 | | | 0.56 / 0.56 / 0.4 | | | 0.75 / 0.75 / 0.57 | | | 0.94 / 0.94 | | |
| Maximum Door Width | | m | 1.00 | | | 1.50 | | | 2.00 | | | 2.50 | | |
| Mounting Height *2 | Max / Min | m | 2.5/2.3 | | | 2.5/2.3 | | | 2.5/2.3 | | | 2.5/2.3 | | |
| Dimensions | Height | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| | Width | mm | 1,000 | 1,000 | 1,048 | 1,500 | 1,500 | 1,548 | 2,000 | 2,000 | 2,048 | 2,500 | 2,500 | 2,548 |
| | Depth | mm | 590 | 821 | 561 | 590 | 821 | 561 | 590 | 821 | 561 | 590 | 821 | 561 |
| Weight | | kg | 57 | 68 | 66 | 73 | 88 | 93 | 94 | 111 | 117 | 108 | 136 | 144 |
| Casing | Colour | | white RAL9010 | | | white RAL9010 | | | white RAL9010 | | | white RAL9010 | | |
| Minimum requiring ceiling void | | mm | 420 | | | 420 | | | 420 | | | 420 | | |
| Fan - Air Flow Rate | Heating | speed 3 | 0.446 | | | 0.669 | | | 0.892 | | | 1.115 | | |
| Sound Pressure | Heating | speed 3 | 50 | | | 51 | | | 53 | | | 54 | | |
| Refrigerant | Type | | R-410A | | | R-410A | | | R-410A | | | R-410A | | |
| Piping Connections | Liquid (OD) / Gas | mm | 9.52/16.0 | | | 9.52/16.0 | | | 9.52/16.0 | | | 9.52/19.0 | | |
| Power Supply | | ph/V/Hz | 1~/230/50 | | | 1~/230/50 | | | 1~/230/50 | | | 1~/230/50 | | |

*Nominal conditions tested to EN14511

Large air curtains:

| | | | CYQL100DK125*BN | | | CYQL150DK200*BN | | | CYQL200DK250*BN | | | CYQL250DK250*BN | | |
|--------------------------------|--------------------------|---------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| | | | * = F | * = C | * = R | * = F | * = C | * = R | * = F | * = C | * = R | * = F | * = C | * = R |
| Heating Capacity | speed 3 | kW | 15.60 | | | 23.30 | | | 29.40 | | | 31.10 | | |
| Delta T | Inlet = room temperature | speed 3 | 15 | | | 15 | | | 14 | | | 12 | | |
| Power Input (50Hz) | Fan only / Heating | kW | 0.75 / 0.75 | | | 1.13 / 1.13 | | | 1.50 / 1.50 | | | 1.88 / 1.88 | | |
| Maximum Door Width | | m | 1.00 | | | 1.50 | | | 2.00 | | | 2.50 | | |
| Mounting Height *2 | Max / Min | m | 3.0/2.5 | | | 3.0/2.5 | | | 3.0/2.5 | | | 3.0/2.5 | | |
| Dimensions | Height | mm | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 |
| | Width | mm | 1,000 | 1,000 | 1,048 | 1,500 | 1,500 | 1,548 | 2,000 | 2,000 | 2,048 | 2,500 | 2,500 | 2,548 |
| | Depth | mm | 774 | 1,105 | 745 | 774 | 1,105 | 745 | 774 | 1,105 | 745 | 774 | 1,105 | 745 |
| Weight | | kg | 76 | 81 | 83 | 100 | 118 | 141 | 126 | 151 | 155 | 157 | 190 | 196 |
| Casing | Colour | | white RAL9010 | | | white RAL9010 | | | white RAL9010 | | | white RAL9010 | | |
| Minimum requiring ceiling void | | mm | 520 | | | 520 | | | 520 | | | 520 | | |
| Fan - Air Flow Rate | Heating | speed 3 | 0.861 | | | 1.292 | | | 1.722 | | | 2.153 | | |
| Sound Pressure | Heating | speed 3 | 53 | | | 54 | | | 56 | | | 57 | | |
| Refrigerant | Type | | R-410A | | | R-410A | | | R-410A | | | R-410A | | |
| Piping Connections | Liquid (OD) / Gas | mm | 9.52/16.0 | | | 9.52/19.0 | | | 9.52/22.0 | | | 9.52/22.0 | | |
| Power Supply | | ph/V/Hz | 1~/230/50 | | | 1~/230/50 | | | 1~/230/50 | | | 1~/230/50 | | |

Matching air cooled condensing units

| | | Single Phase | | | Three Phase | | |
|---------------------|-----------------|--------------|-----------|-----------|-------------|-----------|-----------|
| | | ERQ100AV1 | ERQ125AV1 | ERQ140AV1 | ERQ125AW1 | ERQ200AW1 | ERQ250AW1 |
| Small Air Curtains | CYQS150DK80*BN | . | | | | | |
| | CYQS200DK100*BN | . | . | | | | |
| | CYQS250DK140*BN | | . | . | . | . | . |
| Medium Air Curtains | CYQM100DK80*BN | . | . | | | | |
| | CYQM150DK80*BN | . | . | | | | |
| | CYQM200DK100*BN | . | . | . | | | |
| | CYQM250DK140*BN | | . | . | . | . | . |
| Large Air Curtains | CYQL100DK125*BN | | . | . | . | . | . |
| | CYQL150DK200*BN | | . | . | . | . | . |
| | CYQL200DK250*BN | | . | . | . | . | . |
| | CYQL250DK250*BN | | . | . | . | . | . |

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