

Electric  
VRF



**ECOi Mini heat pump VRF systems**

**2006/7 Range**



**R410A**

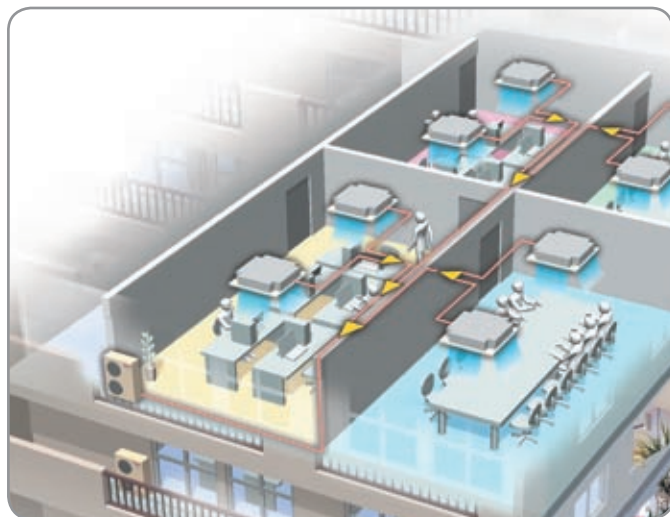
# ECOi Mini 4-6HP 2 pipe heat pump VRF systems

SANYO's policy of product development continues with the expansion of the ECOi Mini. The 2 pipe heat pump small VRF system specifically designed for the European market.

Offering between 11kW and 16kW cooling capacity in 3 sizes and up to 10 indoor units connected, the ECOi Mini sets new standards of performance and flexibility.

Utilising R410A and DC inverter technology SANYO offers VRF to a new and growing market.

Forming a new key part of the SANYO VRF line up, the ECOi Mini is compatible with the same indoor units and controls as the rest of the electric and gas powered range.

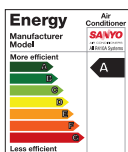


## Features at a glance

- Single phase or Three phase power supply
- One amp start current
- DC inverter technology combined with R410A for excellent efficiency
- COP of 4.34 for 4HP model
- Diversity ratio 50 - 130%
- 150m pipe runs
- Cooling operation to -10°C
- Full range of indoor units and control options
- Compact outdoor unit 1230x940x340mm

## Highest COPs - lowest running costs

| HP          | 4    | 5    | 6    |
|-------------|------|------|------|
| COP Cooling | 4.06 | 3.66 | 3.39 |
| COP Heating | 4.36 | 4.10 | 3.84 |



All ECOi Mini VRF systems are rated as EEL Category A, which confirms that they are amongst the most energy efficient systems available. Power

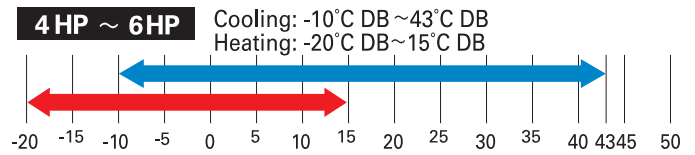
consumption during operation is substantially less than that of lower rated units and consequently both the day to day running costs and full life cycle costs are significantly reduced.



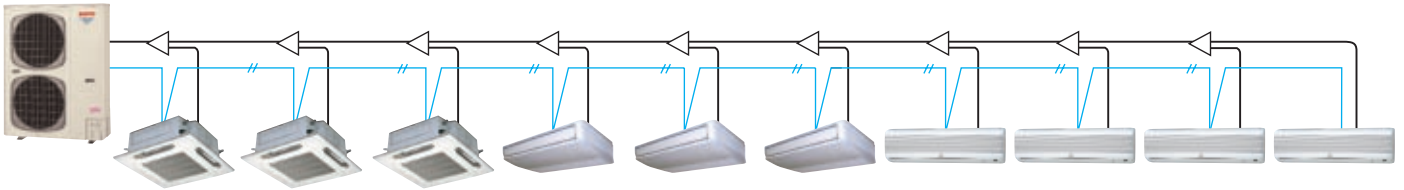
# ECOi Mini 4-6HP 2 pipe heat pump VRF systems

## Wide operating range

The operating range for heating operation is to -20°C, the cooling range is to -10°C. The remote controller temperature setting offers a range from 16°C to 30°C.











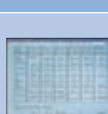
## Up to 10 indoor units per system



## Full range of indoor units

| Unit type  | Capacity range (kW) |
|--|---------------------|
|  XDR 4 Way cassette                      | 2.2 - 16.0          |
|  SR 2 Way blow cassette                 | 2.2 - 7.3           |
|  LDR Semi-concealed slim 1 Way cassette | 2.8 - 7.3           |
|  UR Concealed duct                      | 2.2 - 14.0          |
|  DR High static pressure duct           | 7.3 - 28.0          |
|  TDR Ceiling mounted units              | 3.6 - 14.0          |
|  KR Wall mounted units                  | 2.2 - 7.3           |
|  FMR Chassis units                      | 2.2 - 7.3           |
|  FR Floor units                         | 2.2 - 7.3           |
|  ADR Semi-concealed 1 Way cassette      | 2.2 - 3.6           |
|  XMR 4 Way mini cassette                | 2.8 - 16.0          |
|  FTR Floor and floor/ceiling units      | 2.2 - 7.1           |
|  FUR Concealed slim duct                | 2.2 - 6.4           |
|  UMR duct                               | 2.2 - 6.4           |

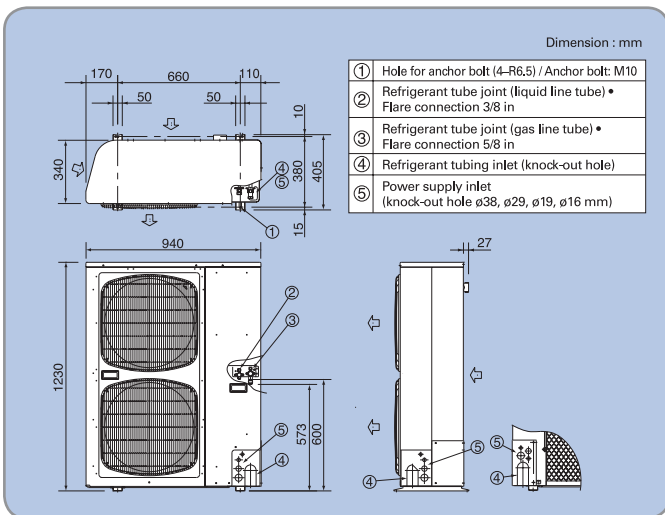
## Full range of controls

| Control type  |
|---|
|  Wired remote controller including 24hr timer |
|  Wireless remote controller                  |
|  Simplified remote controller                |
|  Schedule timer                              |
|  System controller                           |
|  On/off controller                           |
|  TouchScreen controller                      |
|  LonWorks interface                          |
|  AMY software                                |

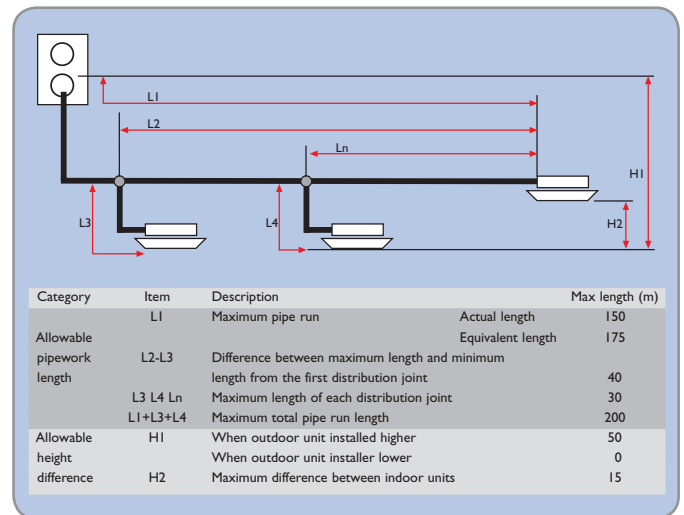
# Specifications

| HP                                    |                    | 4  |      | 5                                     |      | 6                                     |      |
|---------------------------------------|--------------------|--|------|---------------------------------------|------|---------------------------------------|------|
| <b>Model name</b>                     |                    | <b>SPW-CR365GXH56 / SPW-CR365GXH8</b>          |      | <b>SPW-CR485GXH56 / SPW-CR485GXH8</b> |      | <b>SPW-CR605GXH56 / SPW-CR605GXH8</b> |      |
| <b>Power supply</b>                   |                    | 230V, 1 phase, 50/60Hz / 400, 3 phase, 50/60Hz |      |                                       |      |                                       |      |
| <b>Cooling capacity</b>               | kW                 | 11.20  |      | 14.00                                 |      | 15.50                                 |      |
| <b>Heating capacity</b>               | kW                 | 12.50  |      | 16.00                                 |      | 17.60                                 |      |
| <b>EER Cooling</b>                    |                    | 4.06   |      | 3.66                                  |      | 2.71                                  |      |
| <b>COP Heating</b>                    |                    | 4.34   |      | 4.10                                  |      | 3.84                                  |      |
| <b>Electric rating</b>                | <b>Cooling</b>     | Running ampere                                 | A    | 8.0/7.7/7.5                           |      | 11.1/10.6/10.4                        |      |
|                                       |                    | Power input                                    | kW   | 2.76                                  |      | 3.83                                  |      |
|                                       | <b>Heating</b>     | Running ampere                                 | A    | 8.3/8.0/7.8                           |      | 11.3/10.8/10.6                        |      |
|                                       |                    | Power input                                    | kW   | 2.88                                  |      | 3.90                                  |      |
| <b>Dimensions (H/W/D)</b>             |                    | mm   |      |                                       |      |                                       |      |
| <b>Net weight</b>                     |                    | kg   |      |                                       |      |                                       |      |
| <b>Air circulation</b>                |                    | m3/min   |      |                                       |      |                                       |      |
| <b>Refrigerant amount at shipment</b> |                    | kg   |      |                                       |      |                                       |      |
| <b>Piping connection</b>              | <b>Gas</b>         | Inches   | 5/8  |                                       | 5/8  |                                       | 3/4  |
|                                       | <b>Liquid</b>      | Inches   | 3/8  |                                       | 3/8  |                                       | 3/8  |
| <b>Operating sound</b>                | <b>Normal mode</b> | dB(A)  | 51.0 |                                       | 51.0 |                                       | 52.0 |
|                                       | <b>Silent mode</b> | dB(A)  | 48.0 |                                       | 48.0 |                                       | 48.0 |

## Dimensional data



## Flexible pipework



### Rating Conditions

The cooling and heating capacities are based on the following conditions:  
 Cooling: Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB.  
 Heating: Indoor temperature 20°C DB, Outdoor temperature 7°C DB.



Indicates conformance with EC Directives



ISO 9001:2001  
 Certificate Number: JQ116B



ISO 14001:2001  
 Certificate Number: ECOJ0303-33



# SANYO

## AIR CONDITIONERS

www.sanyoaircon.com