











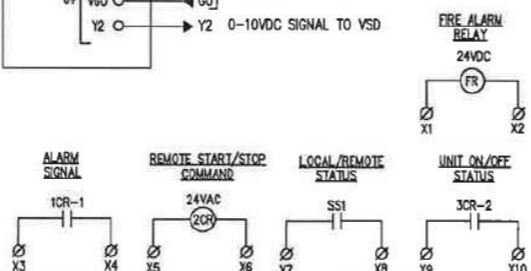



## Visiontec Vs X Brand Precision Air-Cond. System

| Item | Description                            | Visiontec Precision Air-Conditioner   | Photo/Illustration to show features  | X brand units   | Photo/Illustration to show features   | Remarks   |
|------|--|---|--|---|---|---|
| 1    | Country of Manufacturer                | Product Design is Local Developed and unit locally made in Malaysia   |    | Imported  |    | Have local support R & D and to support more on local product. Include functional and safety protection system and run test free of charge. As 4G1 is government project, using local product is supporting government initiative to go local and increase local economy activities and create more local jobs. |
| 2    | Aluminium Fin Material                 | Hydrophilic Coated corrugated aluminium Fin for both indoor and outdoor units   |    | Normal aluminium Fin                                      |    | Hydrophilic coating improve condensate removal and is more corrosion resistance suitable for tropical weather (The coating is normally used for seaside application as it is better against corrosive seaside breeze) especially outdoor application.   |
| 3    | Fire Mode Operation                    | LCD display is intact showing equipment tripping and subsequent alarm when receive fire signal from fire alarm system |   | LCD display goes blank during fire mode.                  |   | It is important to show alarm status for latter diagnostic upon fire mode operation   |
| 4    | Digital Refrigerant Pressure monitored | Monitoring and setting of refrigerant pressure at LCD display   |  | Not available   |  | No need to physically measure the gas pressure near the compressor. The suction and discharge pressure value can be monitored/ read at LCD display and also adjust compressor high and low trip setting at LCD. Extremely maintenance friendly.   |
| 5    | Digital Refrigerant Pressure Setting   | setting of refrigerant pressure at LCD display  |  | Setting is at manual switch which is not service friendly |  | No need to physically measure the gas pressure near the compressor. The suction and discharge pressure value can be monitored/ read at LCD display and also adjust compressor high and low trip setting at LCD. Extremely maintenance friendly.   |

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|   |                              |  |  |               |   |  |
|---|------------------------------|--|--|---------------|---|--|
| 6 | Hot Bypass gas               | Hot gas bypass as std to allow unit to run from lowest load to maximum load wiout low suction pressure cutout or icing |    | Not provided  |   | Potential icing or low pressure cutout during low load especially initial installation without hot gas bypass                                |
| 7 | Crankcase Heater             | Crakcase Heater is provided as std.  |    | Not provided  |  | Crankcase heater is activated when unit compressor is off to protect compressor liquid flooded startup to prolong the compressor life        |
| 8 | BMS and fire alarm interface | Provided BMS/local and 24V DC fire relay and Modbus as std   |  <p>The diagram shows terminal connections for:<br/>         - VSD: Y2 0-10VDC SIGNAL TO VSD<br/>         - FIRE ALARM RELAY: 24VDC, X1, X2<br/>         - ALARM SIGNAL: 1CR-1, X3, X4<br/>         - REMOTE START/STOP COMMAND: 24VAC, 2CR, X5, X6<br/>         - LOCAL/REMOTE STATUS: SS1, X7, X8<br/>         - UNIT ON/OFF STATUS: 3CR-2, X9, X10</p> | Not provided  |   | Provison of std BMS/fire interface save customer cost to integrate with DCIM/EMSBMS/Fire alarm   |
| 9 | Supply Chilled Water Sensor  | Monitoring and setting of Chilled water supply setpoint  |    | Not available |   | No need to physically check chilled water thermometer at the supply pipe which can be difficult especially if mounted at inside raised floor |