



The new degree of comfort.®

T3 SERIES FULL DC INVETER CASSETTE SERIES

Kingdom of Saudi Arabia (60Hz)

HEATING  COOLING  WATER HEATING



Product Line-up

Product Lineup-Cassette

18~36K 220V



42K 220/380V



18~42K 220V

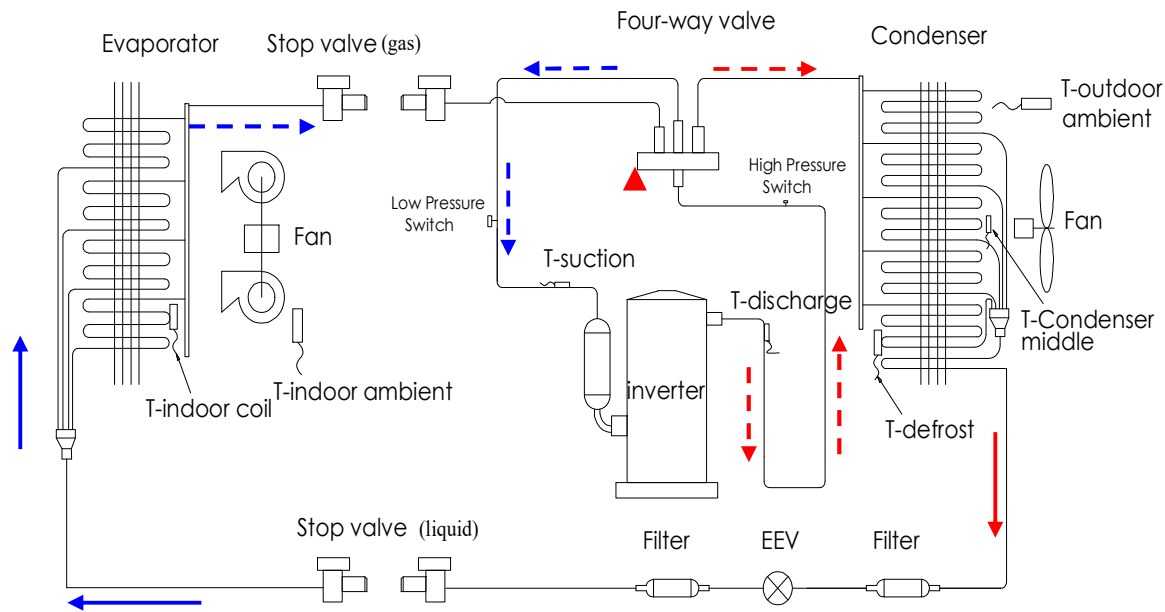


42K 380V



Cooling Cycle

Cooling Cycle

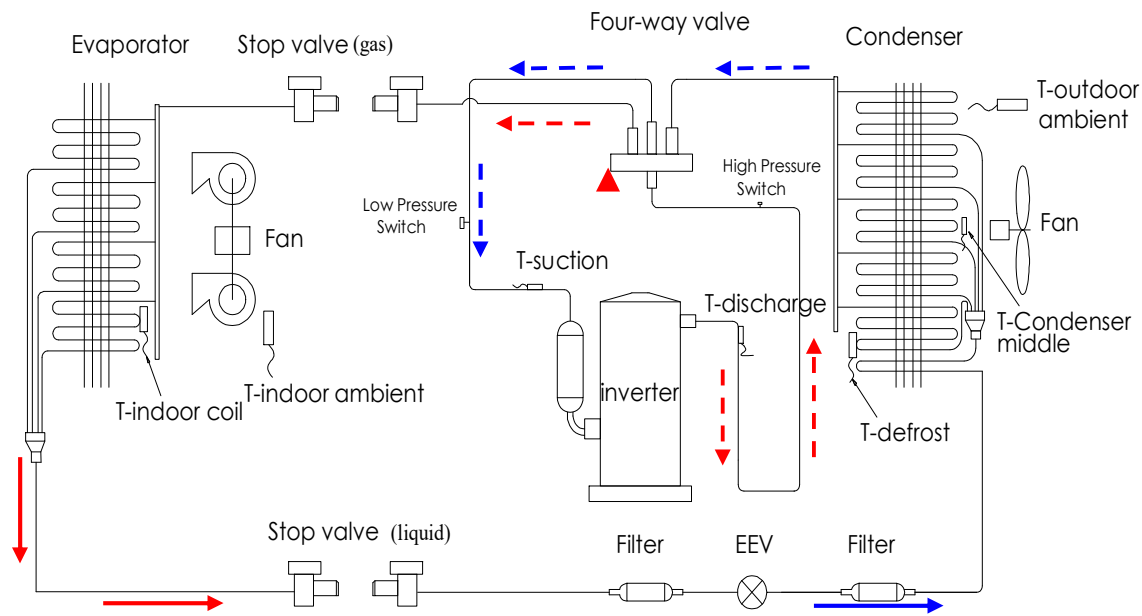


| Refrigerant State | |
|-------------------------------------|----------|
| High temp and pressure Steam | - - - -> |
| Normal temp High pressure Liquid | - - - -> |
| Normal temp Low pressure Liquid | - - - -> |
| Normal temp Low pressure Steam | - - - -> |



Heating Cycle

Heating Cycle



| Refrigerant State | |
|-------------------------------------|----------|
| High temp and pressure Steam | - - - -> |
| Normal temp High pressure Liquid | - - - -> |
| Normal temp Low pressure Liquid | - - - -> |
| Normal temp Low pressure Steam | - - - -> |



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Outdoor Unit

- **Outdoor type Lineup**
- **Outdoor type Feature**

HEATING



COOLING



WATER HEATING



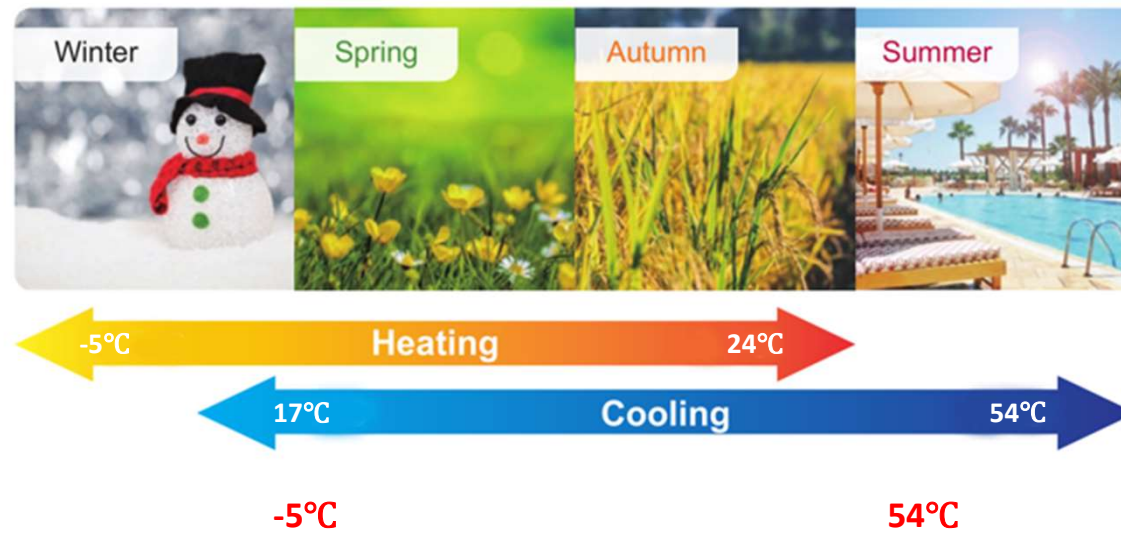
Feature—Outdoor Unit Lineup

Feature—Outdoor Unit Lineup

| | | | |
|-------------------|--|---|-----------------|
| Capacity | 18/24/30/36K | 42K | 42K |
| Power | 220V,1P,50/60Hz | 220V,1P,50/60Hz | 380V,3P,50/60Hz |
| Compressor | GMCC | HIGHLY | |
| Appearance |  |  | |



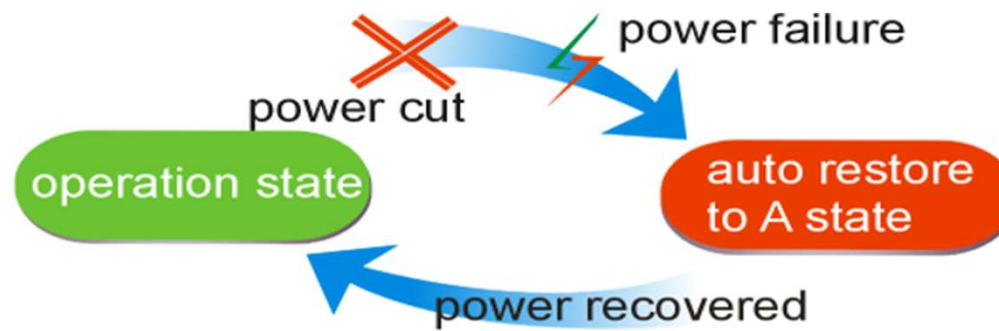
Wide Operation Range—Operation Range



- Cooling range 17~54°C
- Heating range -5~24°C



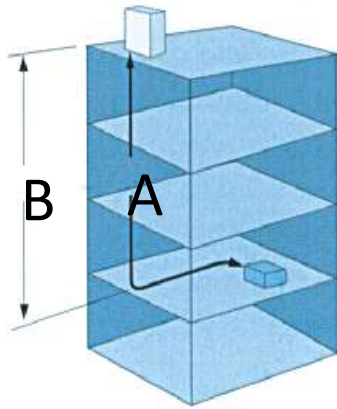
Wide Operation Range—Auto Restart Function



- Recover the former operation state when power is restored
- No need restart the unit manually.



Wide Operation Range—Long Piping

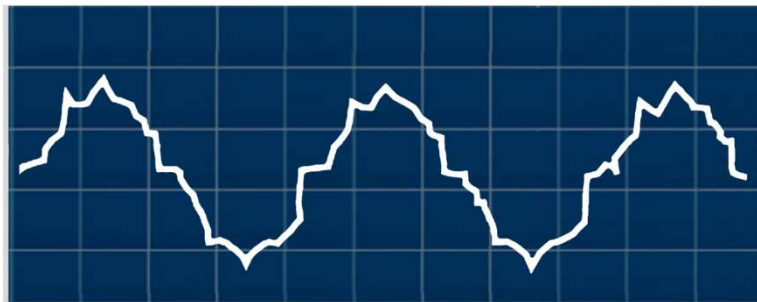


| | | | | | |
|---------------------------|-----|-----|-----|-----|-----|
| Cooling capacity (KBtu/h) | 18K | 24K | 30K | 36K | 42K |
| Max.piping length(m) (A) | 30 | | | 50 | |
| Max.piping height(m) (B) | 20 | | | 30 | |

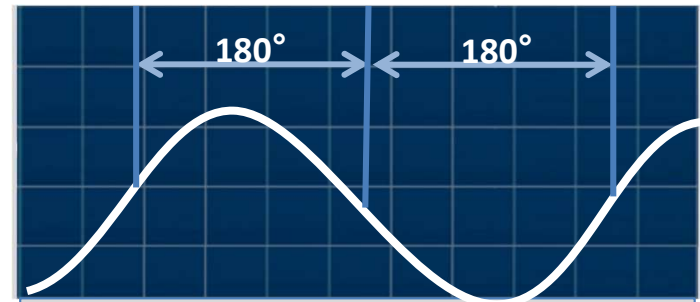
- The maximum pipe length can be **up to 50m**



High Efficiency—180° Sine wave technology



Conventional saw tooth wave, low operation efficiency

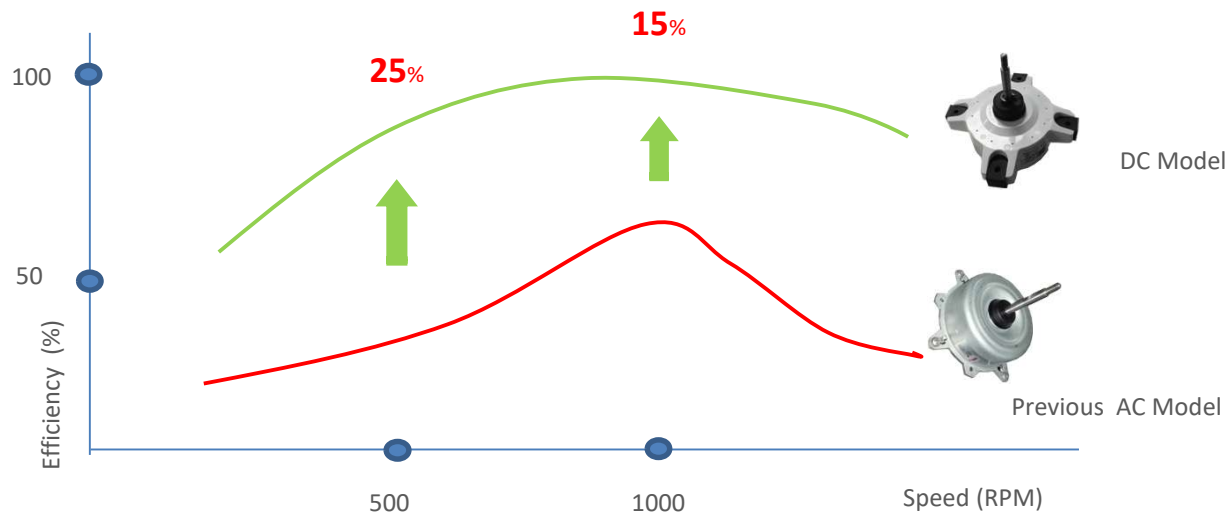


Smooth 180° sine wave, operation efficiency is improved around 30%

- Advanced 180° sine wave DC inverter technology
- More Quiet
- Compressor operate more smoothly



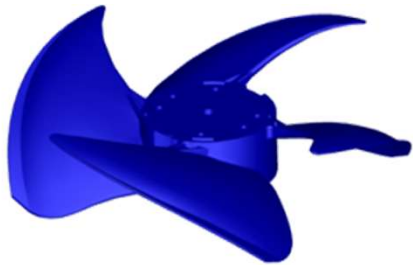
High Efficiency—More Efficiency DC model



- DC Fan Motor is more efficient than previous AC fan motor, offering an 25% energy saving at low speed and 15% at high speed .



High Efficiency—Component Characteristic



- Optimize fan blade design
- DC brushless motor
- Use muffler to reduce noise



System Protection

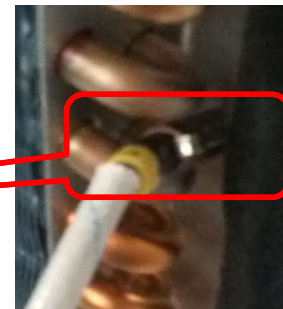
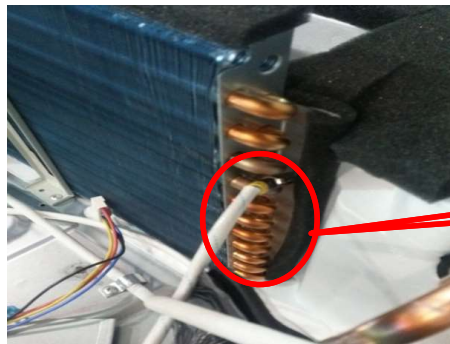
System Protection

1. Discharge temperature too high protection
2. Condenser temperature too high protection
3. High and low pressure protection
4. Overcurrent protection
5. Over temperature protection
6. High or low voltage protection
7. Compressor overloading protection
8. Phase sequence protection
9. Communication failure protection



System Protection—Indoor high temp protection

System Protection



Temperature sensor

- If $T \geq 50^{\circ}\text{C}$ Decrease the running frequency of compressor;
- If $T \geq 60^{\circ}\text{C}$ stop compressor;
- $T < 41^{\circ}\text{C}$ Quit protection



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Certification

HEATING



COOLING



WATER HEATING



Certification



ESMA



ESTIDAMA



SASO



KWS

- Top 3 Lab scale
- Advanced test equipment
- Standards: ESMA/ESTIDAMA/SASO/KWS



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Indoor Unit

- **Cassette type Lineup**
- **Cassette type Feature**

HEATING  COOLING  WATER HEATING



Cassette Type Lineup

| | | | | | | |
|----------------------------------|--|------|------|------|------|-----------------|
| Capacity | 18K | 24K | 30K | 36K | 42K | 42K |
| Appearance |  | | | | | |
| Power | 220V,1P,50/60Hz | | | | | 380V,3P,50/60Hz |
| Air Flow(m³/h) | 1100 | 1500 | 1700 | 1950 | 1700 | 1950 |



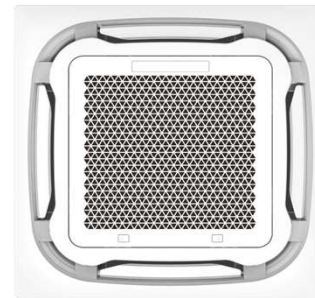
Multi-panel option



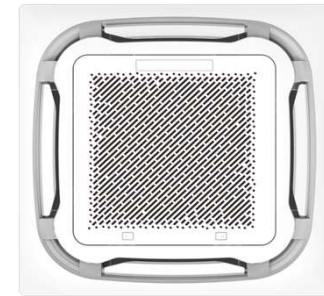
Grille A
Standard



Grille B
Option



Grille C
Option



Grille D
Option

- Around Flow panel improves comfort



Long distance air supply

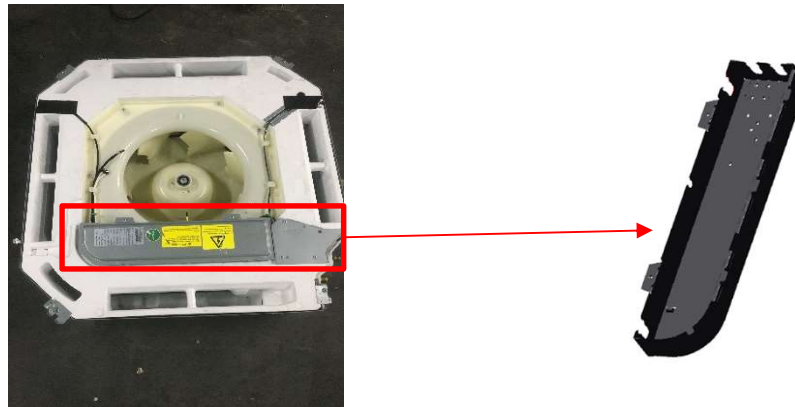
Long distance air supply

- Strong air volume makes it have longer air supply longer.
- Long distance to 5 meters.





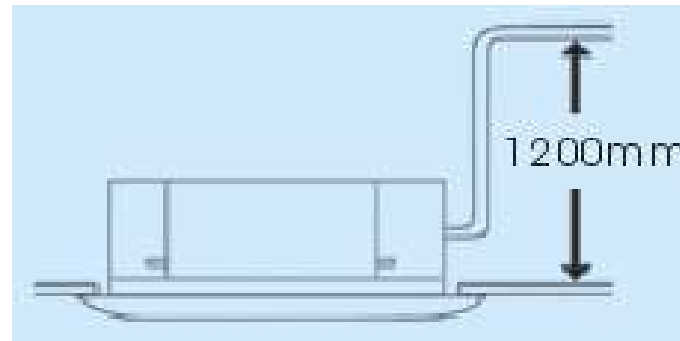
Security—Fireproof Electric box



- Integrated electric control box, the E-box is safely covered by metal plate, for **better fire-resistance.**
- It is **easy to repair** the control part.



Built-in drainage pump



- The built-in pump can lift condensing water up to 1200mm high from the drainage pan