Carrier

United Technologies
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Miraco
MISR REFRIGERATION & AIR CONDITIONING MFG. CO.

SATELLITE
Puron

علامة الجودة الإماراتية
Emirates Quality Mark

NEW

# High Efficiency Green Slim Line
# Ceiling Concealed Ducted Split Systems

Cool Only

R410A

Tropical

Rev. August 2015

## 12K - 18K - 24K - 30K - 36K - 42K - 48K - 60K

- IAQ — Efficient Aluminum Filter
- 40~160 Pa — Medium & High Static Pressures
- Hydrophilic Aluminum Fins
- Auto — Auto Fan Speed
- 3 Min. — 3 Minutes Time Delay
- Remote ON / OFF — Central Application
- Fresh Air
- Efficient Fans
- Super Quiet
- Auto Mode
- Anti Freezing — Anti-Freezing Protection
- Remote Alarm — Central Application
- Slim Design
- DC Motor — Efficient DC Indoor Motor
- Wired Control
- Independent Dehumidification
- High Temp. Protect — High Temp. Protection
- Durability
- Efficient Operation
- Efficient Coils
- Wireless Control
- Timer Functions
- Self diagnostic function
- Optional Drain Pump
- Tropical Compressor
- Inner Groove Copper Tubing
- Central Control
- Auto Restart Function
- Refrigerant Leak Detection
- Easy Installation & Maintenance

# TABLE OF CONTENTS

# 1. Key Features

**SATELLITE Puron medium & high static pressure, slim line, high efficiency green ceiling concealed ducted split is the optimum air conditioning solution for places which require ceiling installation above false ceiling and minimum sound levels.**

**Its slim profile and flexible installation make this system the best choice for residential and light commercial applications where the units are practically hidden from view.**

## KEY FEATURES

### Healthy & Clean Indoor Air Quality (IAQ)

| | |
|---|---|
| IAQ | Efficient anti dust washable aluminim air filters for clean and healthy air. |
| | The indoor unit is fitted with a fresh air knock out panel that can be utilized to introduce fresh air into the room. This helps prevent the build of stale air and enhances air quality in working environments and enclosed applications without natural fresh air supply. |

### Modern Slim Design

| | |
|---|---|
| | Compact invisible indoor unit with ultra slim profile and low height is just 21 cm for size 12K, 27 cm for sizes 18K-24K and 30 cm for sizes 30K-36K suitable for low false ceiling applications. 38 cm for sizes 42K - 48K - 60K |

### Efficient Tropical High Ambient Operation with Minimum Electrical Consumption

| | |
|---|---|
| | Patented heat transfer and aerodynamics technologies to ensure prefect operation up to 52°C outdoor ambient temperature for energy saving and low operating cost. |
| | Efficient Super tropical compressor works in high ambient temperature up to 52°C with high efficiency and low electrical consumption leading to true powerful system cooling. |
| 40~160 Pa | Superior air distribution performance : Three fan speeds with external static pressure up to 40 ~ 160 Pa as per the model to satisfy air flow and static pressure requirements to suit various applications. |
| AMS | Efficient Air Management System (AMS) leading to maximum air flow with minimum turbulence for minimum air resistance, smooth airflow and efficient operation. |
| | Carrier innovative outdoor axial fan technology for efficient operation with minimum air resistance and maximum air flow. |
| | Carrier innovative double inlet, double width forward curved centrifugal blower technology driven by 3 speeds high efficiency motor of low power consumption . |
| DC Motor | Efficient DC indoor motor with minimum electrical consumption and high efficiency. |
| | Efficient indoor and outdoor coils with large heat transfer surfaces for maximum heat transfer efficiency and minimum electrical consumption. |
| | Efficient trapeziform Inner groove copper tubing compared with traditional copper tubing, it allows more refrigerant flow, improvs heat exchange efficiency and lowers power consumption while keeping the same capacity output level. |
| | Precoated Hydrophilic Aluminum Fins of indoor coil to protect the coil against corrosion and to allow easy and quick removal of unrestricted condensate water between the coil fins to increase airflow, improve heat exchange efficiency and accelerate cooling process. |

# Key Features

## Quiet with Minimum Sound Level

| | |
|---|---|
|  | Patented centrifugal blower, elephant ear propeller, new heat exchangers, improved Air Management System (AMS), and quiet compressor. Statically and dynamically balanced fans for quiet operation.<br>Minimum vibrations with strengthened sheet metal parts by finite element analysis. |
|  | Super quiet DC indoor motor with minimum sound levels and minimum vibrations at motor speeds. |

## Comfort with Complete Control Functions

| | |
|---|---|
|  | Standard Smart Wired Controller with complete control functions built in the control system. Wired Controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes the control more convenient. |
|  | Optional Smart LCD infrared wireless remote control with complete control functions built in the control system to ensure efficiency at all operating conditions. |
|  | Optional Smart Link central Control to monitor from a center point, the operation of number of ducted indoor units in the same project site. This feature is particularly helpful in large office applications and hotels. |
|  | Auto fan speed which changes automatically the fan speed to high or medium or low fan speed by sensing the temperature difference between the room temperature and setting temperature. |
|  | Auto mode which changes automatically the operation mode and capacity output by sensing the temperature difference between room temperature and setting temperature. |
|  | Independent Dehumidification mode which dehumidifies the room efficiently, but not lower the temperature so obviously as cooling operation. |
|  | Programmable timer for easy on and off selection with energy savings including off timer, on timer, off/on timer and on/off timer functions. |
|  | Follow Me function for smart wired control of comfortable temperature. With this technology, an efficient temperature sensor is built in the wired control just like the air conditioner is following wired control. |

## Durability

| | |
|---|---|
|  | Anti-rust, weather proof and long life indoor unit sheet metal parts made of chemically treated and zinc coated ( galvanized ) sheet metal. |
|  | Drain pan is designed to protect against rust, to minimize wet surface and residual water during off cycles and to inhibit bacteria growth that may cause smells. |
|  | Anti-rust, weather proof and long life outdoor unit sheet metal parts made of chemically treated and zinc coated<br>( galvanized ) sheet metal. |
|  | Powder painted casing of outdoor unit with prefect adhesion of highly resistant ployester paint 60-80 microns thick, which is electro-statically applied and baked at a temperature of 220°C. |
|  | Carrier innovative outdoor axial fan design for high ambient operation as per Carrier standards of performance and reliability. |
|  | Optional coated aluminum fins of outdoor coil for coastal applications to protect against corrosion. |

# Key Features

## Complete Safety & Reliability Functions

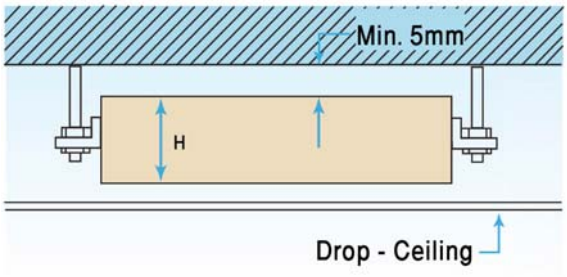
| | |
|---|---|
|  | Auto restart function with backup memory.<br>When the power failure happenes during the operation of air conditioner, the microprocessor of the Printed Circuit Board will memorize the operation setting. After the power is recovered, the air conditioner operates automatically ( without remote control but after elapse of compressor safety time delay ), according to the previous operation settings.<br>Note : Standard factory setting is active auto restart |
|  | 3 (three) minutes safety time delay between compressor turning off and turning on for compressor protection against cycling. |
|  | Anti-freezing protection of indoor coil when the air conditioner is operating in cool mode with excessive dirt on the indoor coil and / or clogged air filters and / or low ambient temperature operation of cool mode. |
|  | High pressure control to protect the compressor against high discharge pressures. |
|  | Low pressure control to protect the compressor against low suction pressures. |
|  | Smart self-diagnostic function for malfunctions detection for easy fast service and maintenance. |
|  | Smart Refrigerant leak detection by sensitive sensors mounted on both indoor and outdoor coils for easy fast service and maintenance. |
|  | Internal thermal protector of indoor and outdoor fan motors to protect the motor windings against excessive temperature. |
|  | Internal thermal protector of the compressor to protect the compressor motor windings against excessive temperature and / or excessive current drawn by compressor motor. |
|  | The components of both indoor and outdoor units comply with international standards of performance, safety and reliability. |

# Key Features

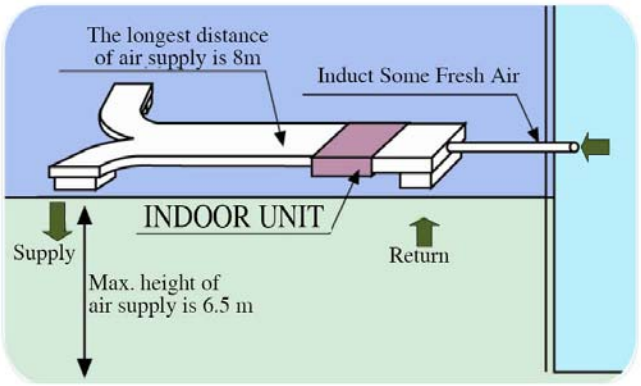
## Easy Installation, Service and Maintenance

**Due to slim low height, compact dimensions and low weight, the installation of ducted indoor unit on the ceiling is faster and extremely easy.**

| Size | Dimension ( cm ) | | | Net Weight Kg |
|---|---|---|---|---|
| | W | H | D | |
| 12K | 92 | 21 | 63.5 | 23 |
| 18K | 92 | 27 | 63.5 | 28 |
| 24K | | | | |
| 30K | 120 | 30 | 86.5 | 44.5 |
| 36K | | | | |
| 42K | 120 | 38 | 62.5 | 56 |
| 48K | | | | |
| 60K | | | | |

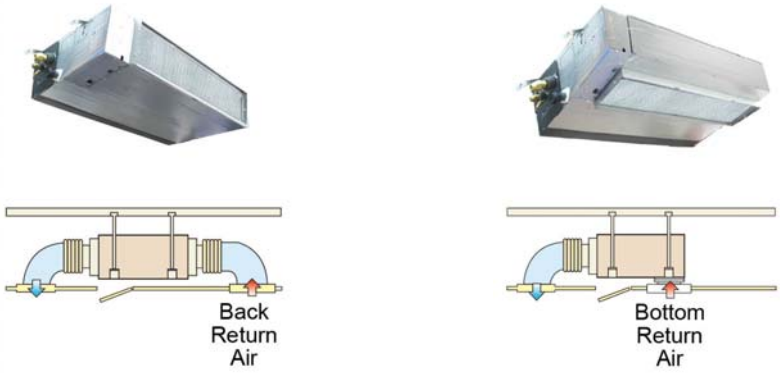



**High external static pressure design.**
**Ducted indoor units 42K – 48K – 60K**




**Indoor unit equipped with flange connections for both field installed supply and return air ducts.**

**Flexible two directions of air return :**
**Back air return ( factory standard )**
**Bottom air return ( can be converted at field ).**
**Only this feature with ducted medium static pressure ducted indoor units 12K – 18K – 24K – 30K – 36K**

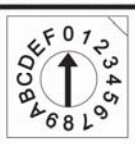
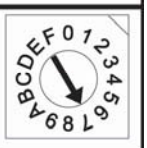
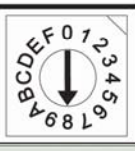
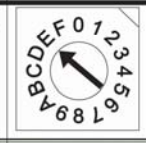
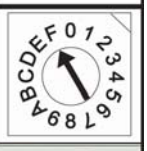


# Key Features

## Easy Installation, Service and Maintenance

**Flexible Setting of Static Pressure**

**For each unit model, the static pressure range can be set through switch ENC2 on the printed circuit board of indoor unit.**
**Change the fan motor static pressure corresponding to external duct static pressure.**

| FOR SETTING STATIC PRESSURE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ENC2 |  |  |  |  |  |  |  |  |
| CODE | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| STATIC PRESSURE(PA) | 0 | 1~10 | 11~20 | 21~30 | 31~40 | 41~50 | 51~60 | 61~70 |
| ENC2 |  |  |  |  |  |  |  |  |
| CODE | 8 | 9 | A | B | C | D | E | F |
| STATIC PRESSURE(PA) | 71~80 | 81~90 | 91~100 | 101~110 | 111~120 | 121~130 | 131~140 | >140 |

**Pre-Punched Fresh air intake built in the indoor unit from both sides to make air quality more healthy and more comfortable. Only this feature with ducted medium static pressure ducted indoor units 12K – 18K – 24K – 30K – 36K**

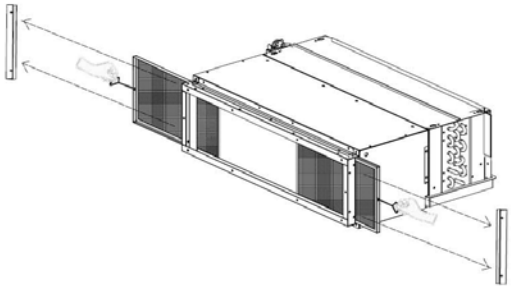
**Fresh air intake**

**Smart self-diagnostic function for malfunctions detection through the display of wired control for easy fast service and maintenance.**


**Easy removal of washable aluminum air filters for cleaning.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**

**Ducted indoor units 42K – 48K – 60K**

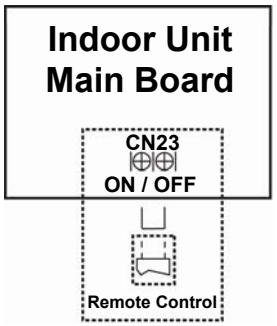


# Key Features

## Easy Installation, Service and Maintenance

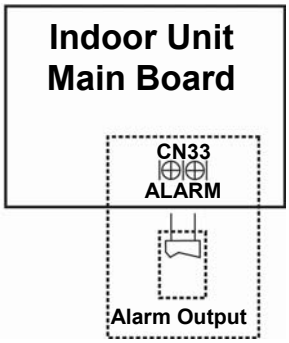
**Remote ON / OFF function provides more easy central control of ducted split system.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**



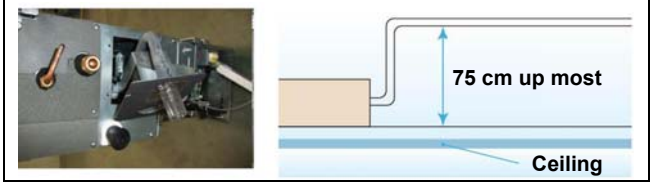

**Remote system alarm function which required for some applications such as computer rooms for fast and easy service and maintenance.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**

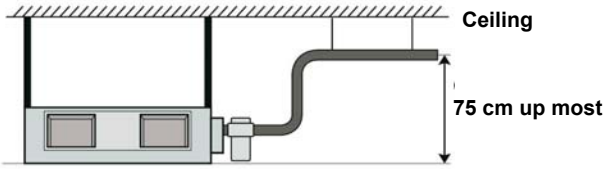



**Optional drain pump which can lift the condensate water up to 75 cm upmost.**
**Optional drain pump is factory installed.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**

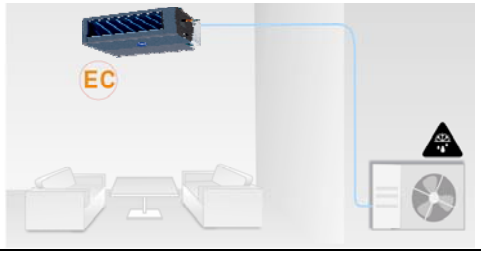



**Ducted indoor units 42K – 48K – 60K**

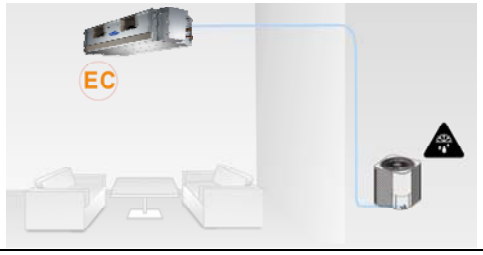



**Smart Refrigerant leak detection by sensitive sensors mounted on both indoor and outdoor coils for easy fast service and maintenance.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**

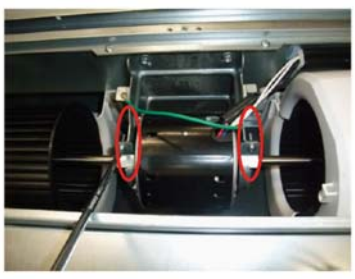


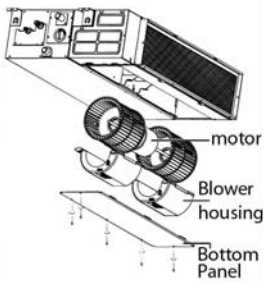

**Ducted indoor units 42K – 48K – 60K**



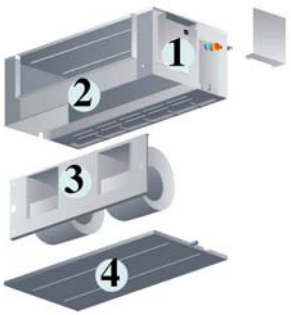

**Easy accessibility motors and fans of indoor unit for easy service and maintenance.**

**Ducted indoor units 12K – 18K – 24K – 30K – 36K**





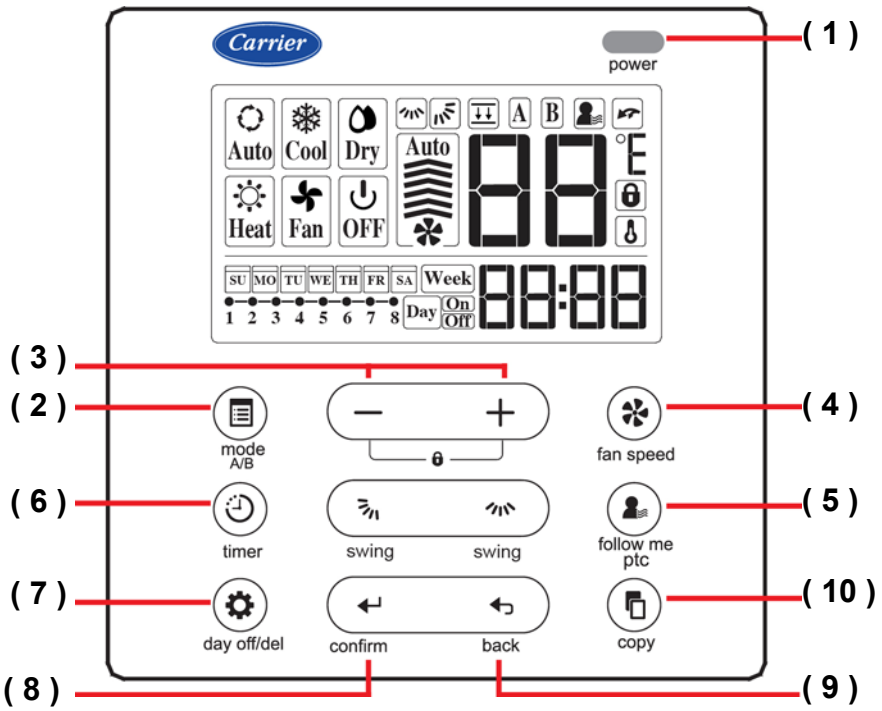

**Ducted indoor units 42K – 48K – 60K**



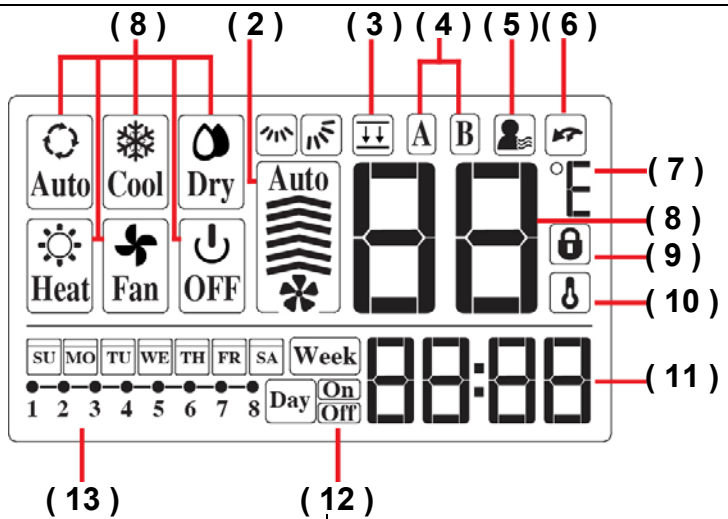

1. Control box
2. Fan casing
3. Motor
4. Bottom panel

## Key Features

### Standard Wired Control




| | |
|---|---|
| ( 1 ) Power Button | ( 2 ) Mode(A/B) Button |
| ( 3 ) Adjust Button | ( 4 ) Fan speed Button |
| ( 5 ) Follow me (PTC) Button | ( 6 ) Timer Button |
| ( 7 ) Day off ( Del ) Button | ( 8 ) Confirm Button |
| ( 9 ) Back Button | ( 10 ) Copy Button |

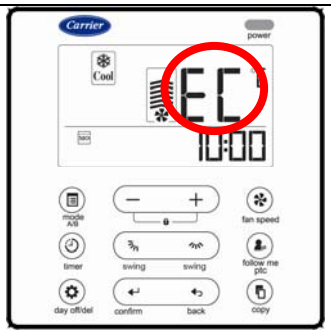



| | |
|---|---|
| ( 1 ) Operation mode indication | ( 2 ) Fan speed indication |
| ( 3 ) Faceplate function indication | ( 4 ) Main unit and secondary unit indication |
| ( 5 ) Follow me function indication | ( 6 ) PTC function indication |
| ( 7 ) C° / F° indication | ( 8 ) Temperature display |
| ( 9 ) Lock indication | ( 10 ) Room temperature indication |
| ( 11 ) Clock display | ( 12 ) On/Off timer |
| ( 13 ) Timer display | |

## Key Features

**The electronic printed circuit board in the indoor unit is equipped with smart self diagnostic function which automatically stops the operation of the air conditioner in case of a malfunction.**

**The Error Code will be shown on the dislay of wired control.**




| Malfunction Reason | Malfunction Code |
|---|---|
| **Indoor and Outdoor communication malfunction** | **E1** |
| **Open or short circuit of T1 temperature sensor** | **E2** |
| **Open or short circuit of T2 temperature sensor** | **E3** |
| **Outdoor malfunction** | **E6** |
| **Indoor EEPROM malfunction** | **E7** |
| **Water-level alarm malfunction** | **E8** |
| **DC motor out of control** | **Eb** |
| **Outdoor system pressure over-low protection** | **Ed** |
| **Refrigerant leak protection** | **EC** |

Leds status on the PCB of outdoor unit only sizes 42K – 48K and 60K ( 3Ph ) refers to malfunction reason

Protection function operates if a malfunction happens in the outdoor unit as below by leds of PCB of outdoor unit as follows:

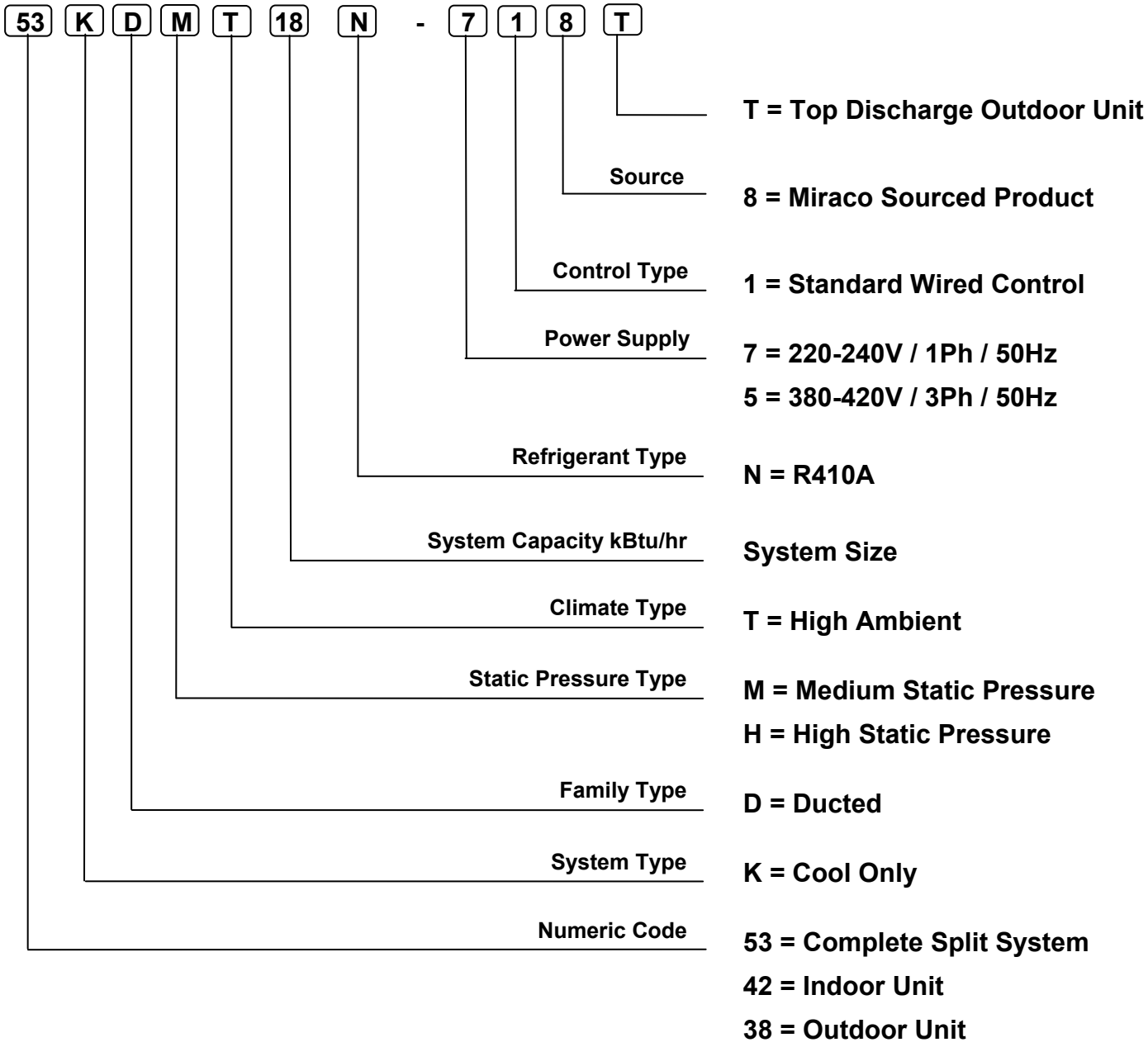
| Malfunction Reason | LED 1 | LED 2 | LED 3 |
|---|---|---|---|
| No defect | off | off | on |
| Phase reversal | on | off | on |
| Overload of current | off | on | on |
| Phase loss | on | on | on |

NOTES

1- Prior to the malfunction repair, disconnect the electrical mains supply by moving the circuit breaker to OFF position.

2- After repairing the malfunction, connect the electrical main supply by moving the circuit breaker to ON position and operate the air conditioner by using the wireless remote control or using wired room controller.

## 2. Unit Model Identification

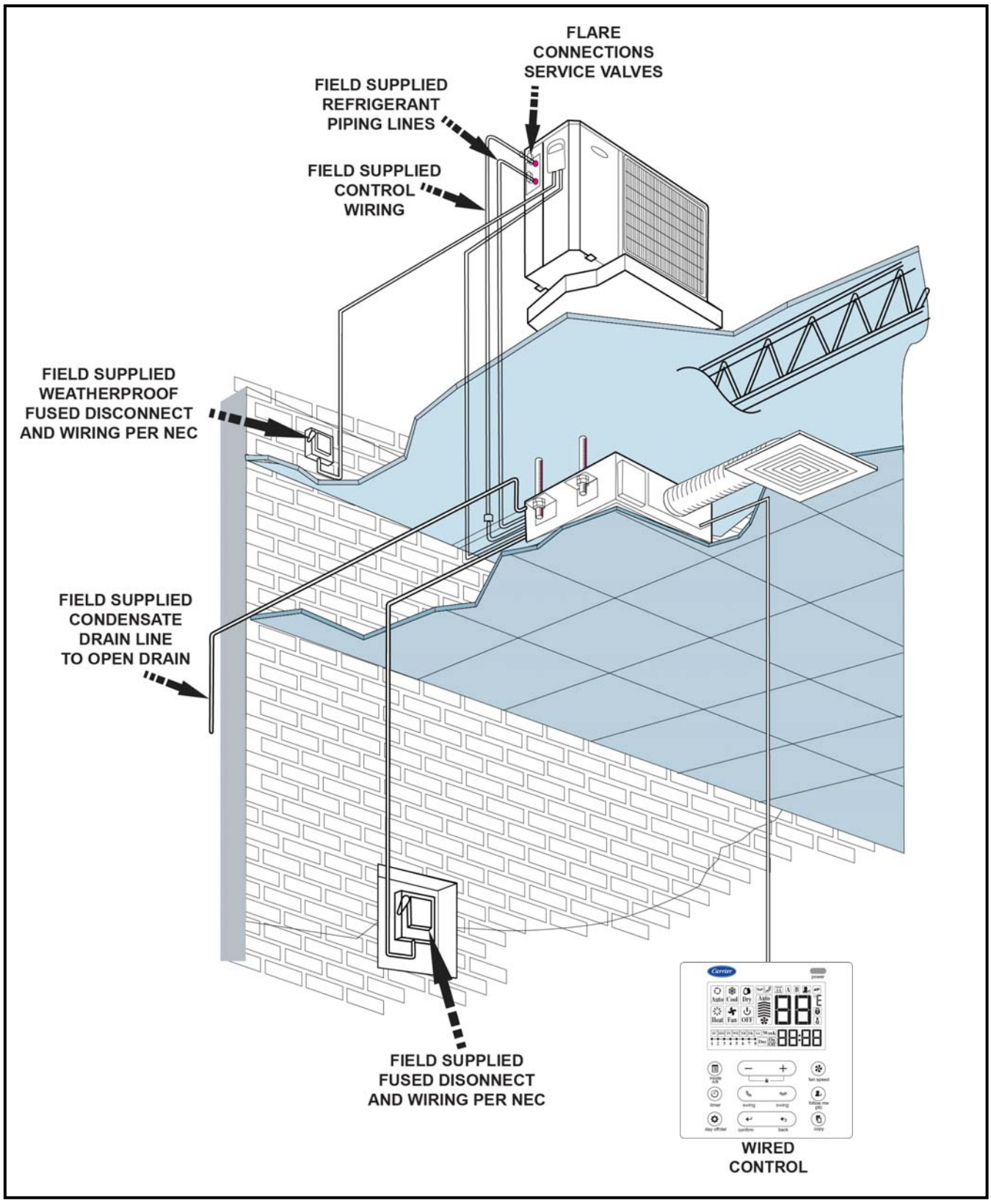



## 3. Unit Models

| System Model | Indoor Unit | | Outdoor Unit | |
|---|---|---|---|---|
| | Model | P/N | Model | P/N |
| 53KDMT12N-718 | 42KDMT12N-718 | 46304827 | 38KDMT12N-718 | 46304828 |
| 53KDMT18N-718 | 42KDMT18N-718 | 46304830 | 38KDMT18N-718 | 46304831 |
| 53KDMT24N-718 | 42KDMT24N-718 | 46304833 | 38KDMT24N-718 | 46304834 |
| 53KDMT30N-718 | 42KDMT30N-718 | 46304836 | 38KDMT30N-718 | 46304837 |
| 53KDMT36N-718T | 42KDMT36N-718T | 46304839 | 38KDMT36N-718T | 46304840 |
| 53KDHT42N-518T | 42KDHT42N-718T | 46304842 | 38KDHT42N-518T | 46304843 |
| 53KDHT48N-518T | 42KDHT48N-518T | 46304845 | 38KDHT48N-518T | 46304846 |
| 53KDHT60N-518T | 42KDHT60N-518T | 46304848 | 38KDHT60N-518T | 46304849 |

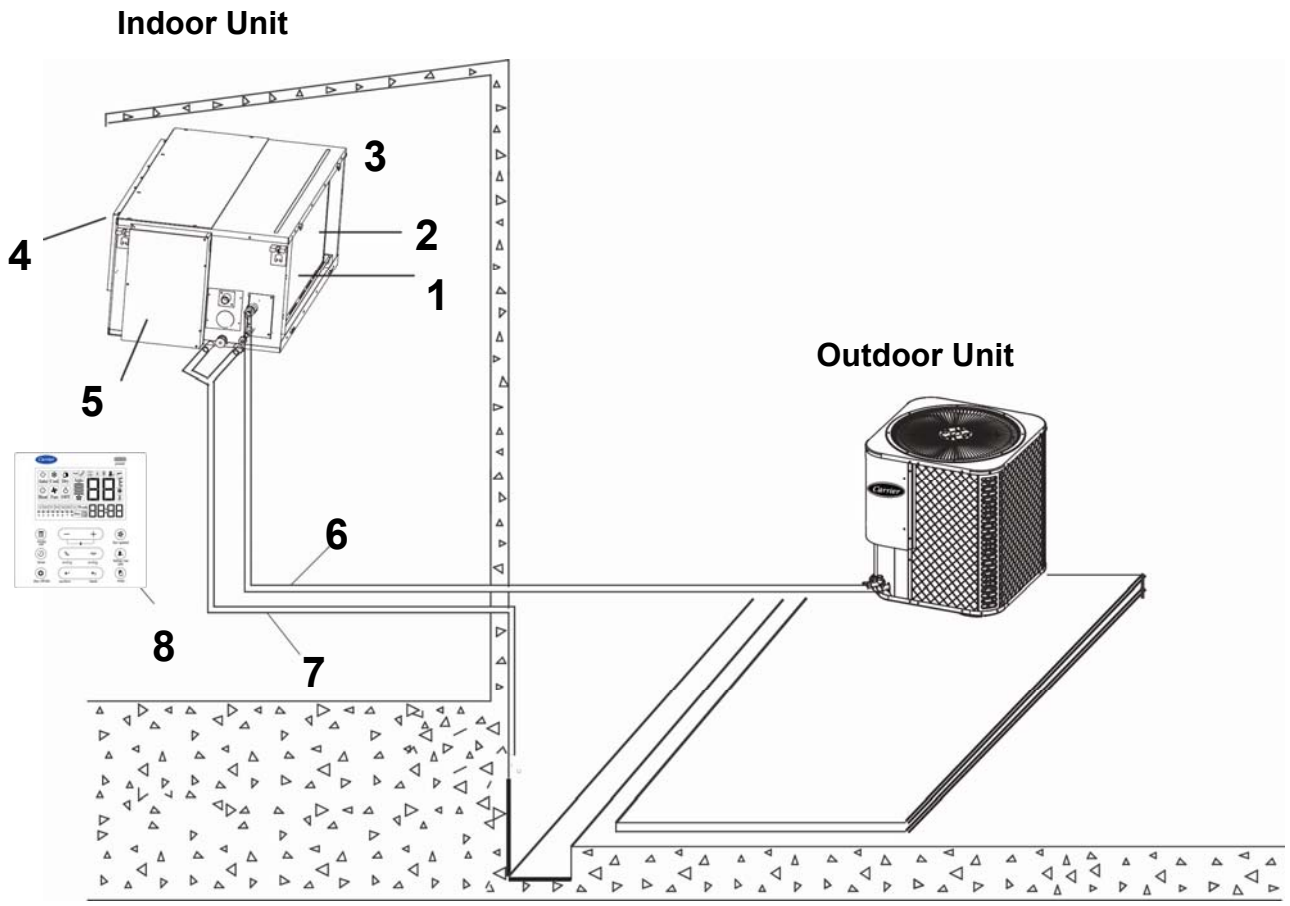
# 4. Ducted Split System Description

## 4.1 Ducted Split System – Medium Static Pressure



# Ducted Split System Description

### 4.2 Ducted Split System – High Static Pressure



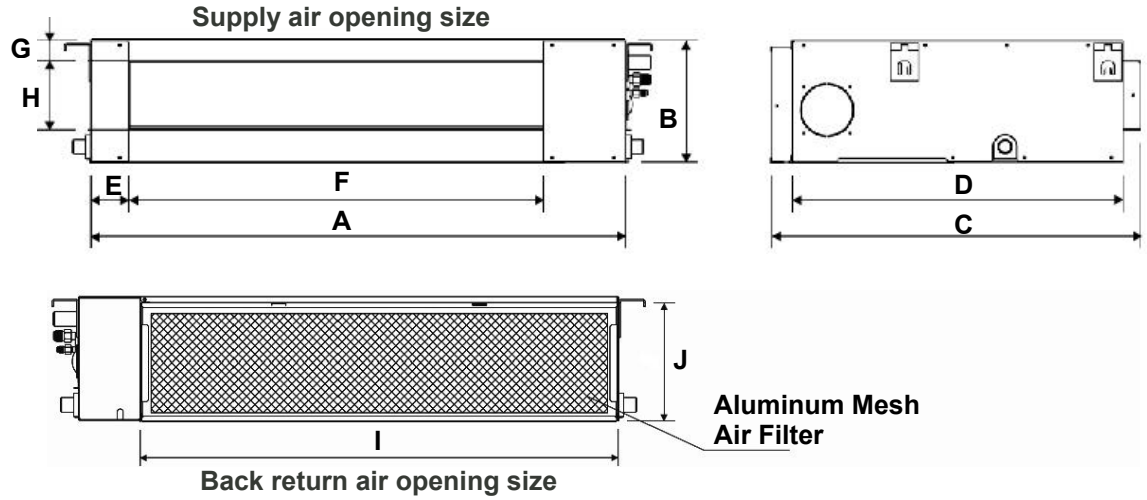

| |
|---|
| **1 : Air filter** |
| **2 : Indoor Coil** |
| **3 : Return air** |
| **4 : Supply air** |
| **5 : Electrical Box** |
| **6 : Inter-connecting refrigerant piping lines and electrical cables between indoor and outdoor units.** |
| **7 : Drain hose** |
| **8 : Wired control** |

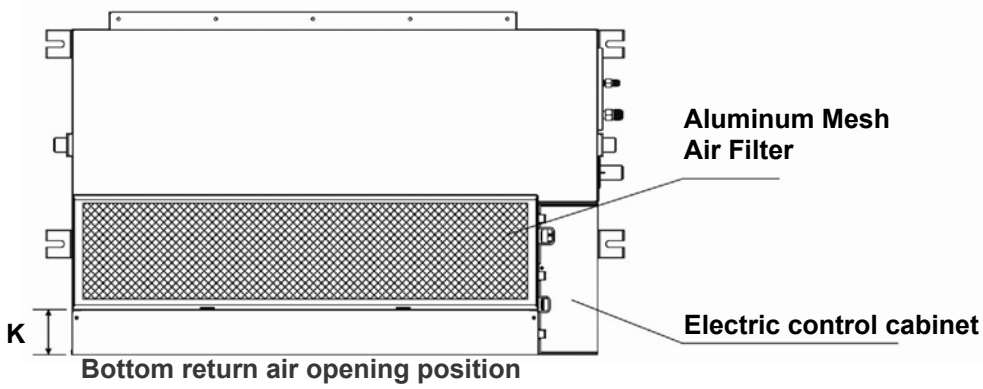
# 5. Dimensions & Weights

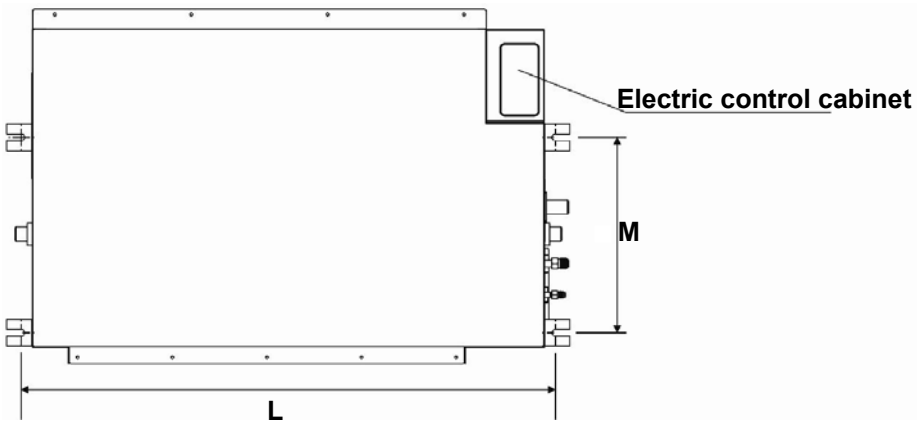
## 5.1 Ducted Indoor Units Dimensions (mm) & Weights

| Indoor Unit Model | Weight Kg | Outline dimesions | | | | Supply air opening size | | | | Return air opening size | | | Size of Mounted lug | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I | J | K | L | M |
| 42KDMT12 | 23 | 920 | 210 | 635 | 570 | 65 | 713 | 35 | 119 | 815 | 200 | 80 | 960 | 350 |
| 42KDMT 18 - 24 | 28 | 920 | 270 | 635 | 570 | 65 | 713 | 35 | 179 | 815 | 260 | 20 | 960 | 350 |
| 42KDMT 30 - 36 | 44.5 | 1200 | 300 | 865 | 800 | 80 | 968 | 40 | 204 | 1094 | 288 | 45 | 1240 | 500 |

**Outline dimensions (mm)**



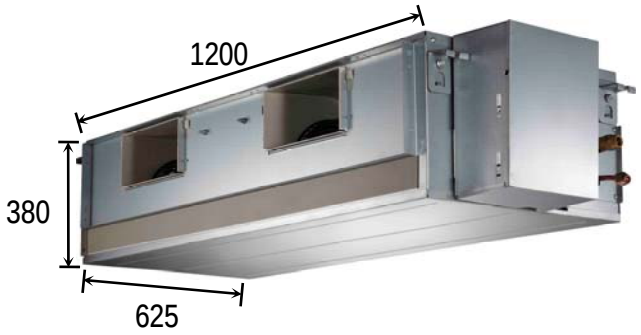



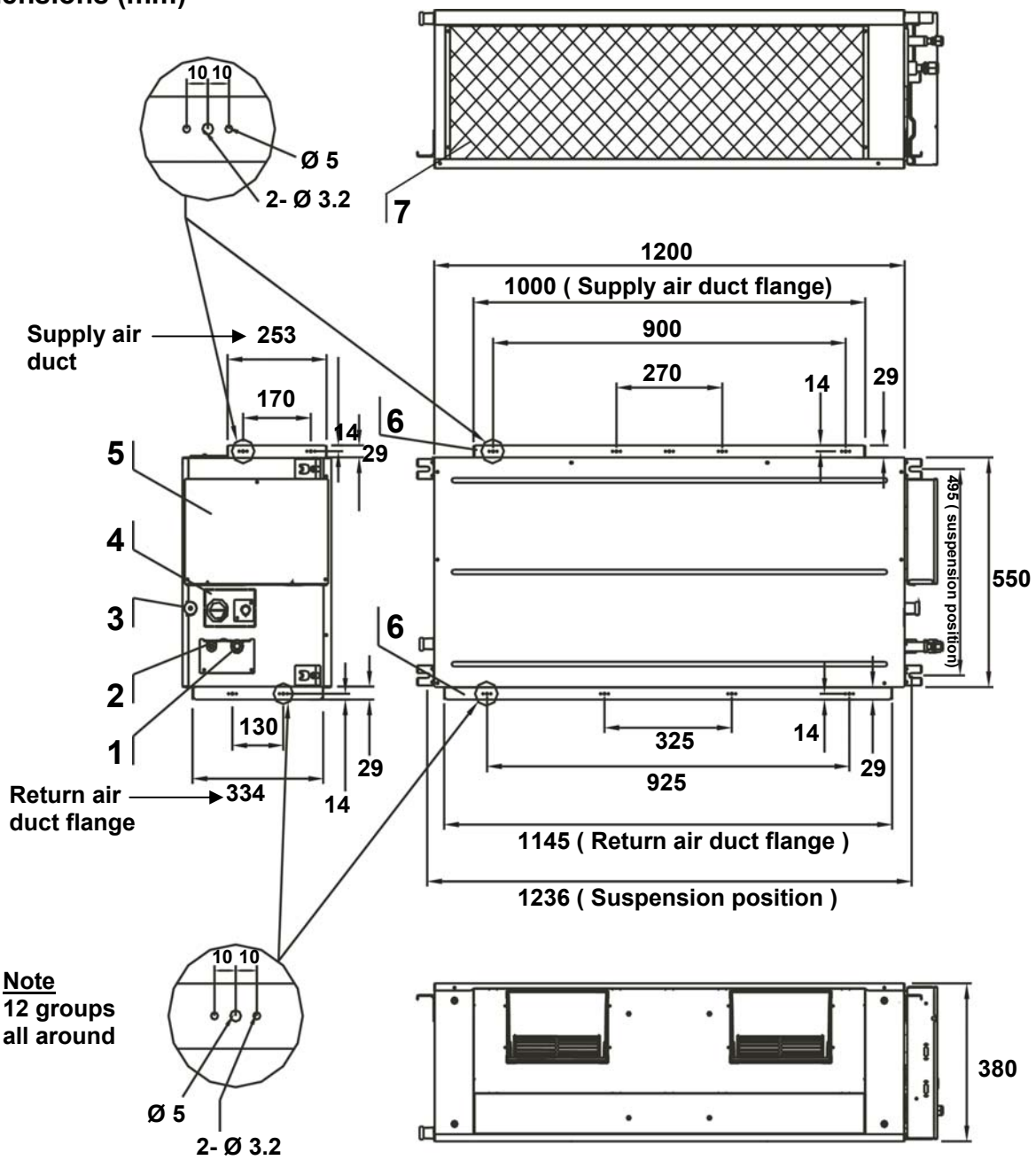
# Dimensions & Weights of Ducted Indoor Units High Static Pressure

## Indoor Units Size 48K & 60K (mm)
## Weight (Kg)

| Model | Weight Kg |
|---|---|
| 42KDHT42N-718T | 56 |
| 42KDHT48N-718T | 56 |
| 42KDHT60N-718T | 56 |




## Dimensions (mm)



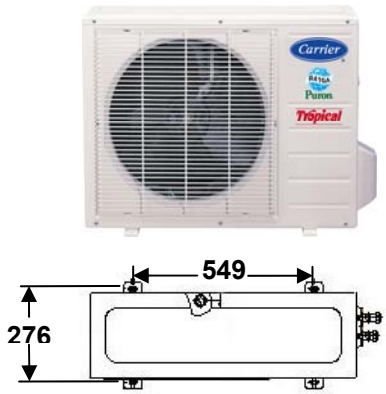

| Number | Name | Description |
|---|---|---|
| 1 | Gas pipe connection | --- |
| 2 | Liquid pipe connection | --- |
| 3 | Drain pipe connection | OD Ø 25 ID Ø 20 |
| 4 | Drain pipe connection | Using drain pump (optional) |
| 5 | Power supply connection | --- |
| 6 | Supply air flange | --- |
| 7 | Aluminium mesh air filter | 10 mm thick |

# Dimensions & Weights

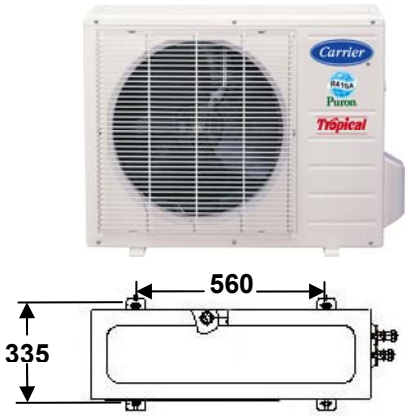
## 5.2 Outdoor Units Dimensions & Weights

**DIMENSIONS (mm)**

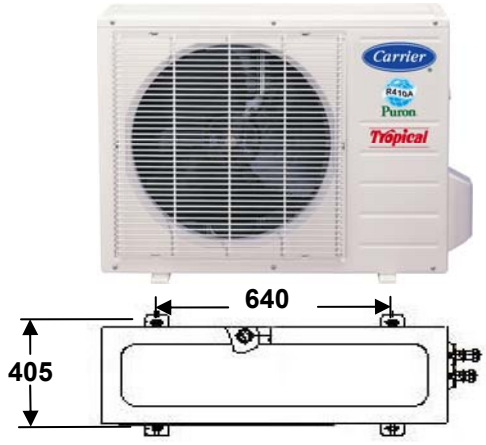
| Model | Unit Dimensions (mm) | | | Weight |
|---|---|---|---|---|
| | W | H | D | Kg |
| 38KDMT12N-718 | 780 | 540 | 250 | 37 |



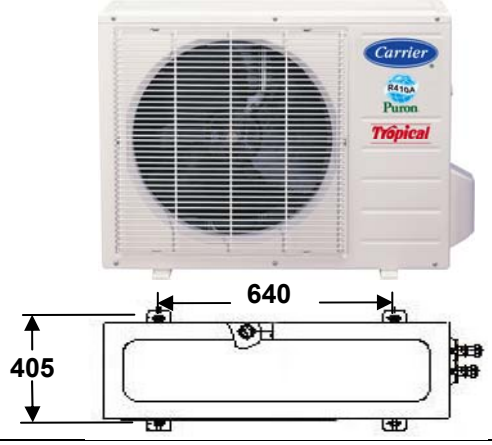

| Model | Unit Dimensions (mm) | | | Weight |
|---|---|---|---|---|
| | W | H | D | Kg |
| 38QDMT18N-718 | 845 | 700 | 320 | 48.5 |




| Model | Unit Dimensions (mm) | | | Weight |
|---|---|---|---|---|
| | W | H | D | Kg |
| 38KDMT24N-718 | 945 | 810 | 395 | 61 |



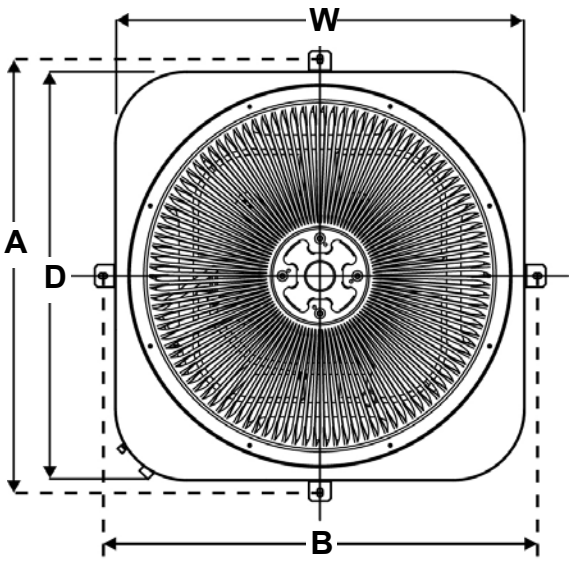

| Model | Unit Dimensions (mm) | | | Weight |
|---|---|---|---|---|
| | W | H | D | Kg |
| 38KDMT30N-718 | 945 | 810 | 395 | 70.5 |

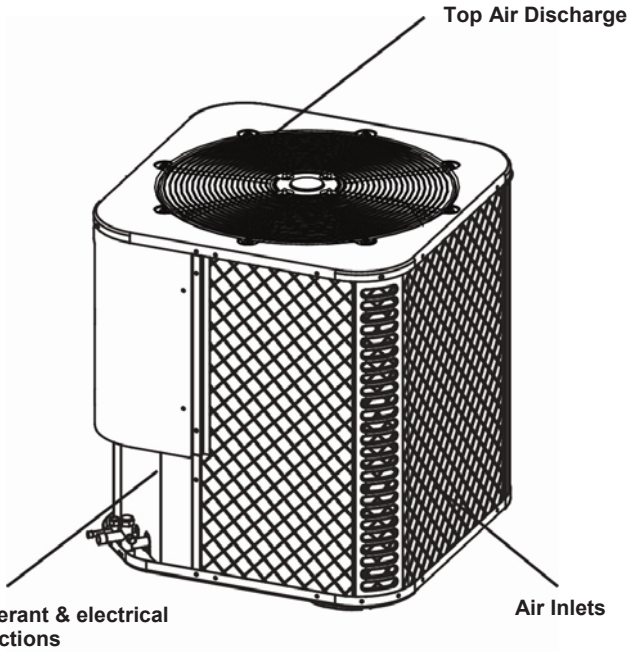


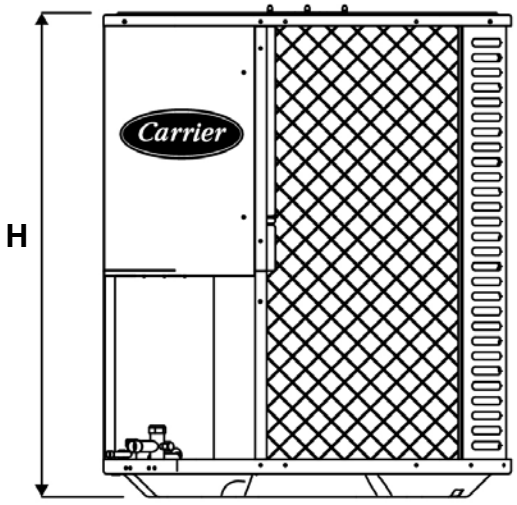
## 5.3 Outdoor units Sizes 36K & 42K & 48K & 60K

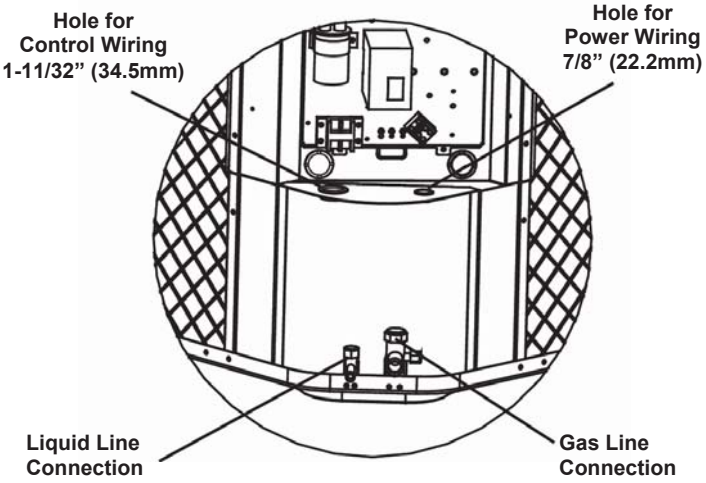
| Outdoor Unit Model | Mounting Dimensions (mm) | | Unit Dimensions (mm) | | | Weight |
|---|---|---|---|---|---|---|
| | A | B | W | H | D | Kg |
| 38KDMT36N-718T | 754 | 753 | 710 | 843 | 710 | 84.5 |
| 38KDHT42N-518T | | | | | | 80 |
| 38KDHT48N-518T | | | | | | 80 |
| 38KDHT60N-518T | 785 | 784 | 740 | 843 | 740 | 102 |

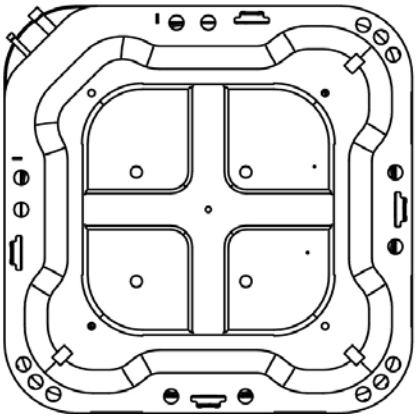
Top View



Down View

# 6. Technical Specifications – System Performance

| System type | | | Cool Only | | |
|---|---|---|---|---|---|
| System model | | | 53KDMT12N-718 | 53KDMT18N-718 | 53KDMT24N-718 |
| Indoor unit model | | | 42KDMT12N-718 | 42KDMT18N-718 | 42KDMT24N-718 |
| Outdoor unit model | | | 38KDMT12N-718 | 38KDMT18N-718 | 38KDMT24N-718 |
| Power supply | | V/ph/Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Cooling Capacity T1/T3 | ( @ 25 Pascal ) | Btu/hr | 13780 / 11600 | 18600 / 16000 | 25000 / 22000 |
| | | kW | 4.04 / 3.40 | 5.45 / 4.69 | 7.33 / 6.45 |
| Input Power T1/T3 | ( @ 25 Pascal ) | W | 1077 / 1285 | 1475 / 1771 | 1977 / 2387 |
| E.E.R. T1/T3 | ( @ 25 Pascal ) | Btu/wh | 12.79 / 9.03 | 12.61 / 9.03 | 12.64 / 9.22 |
| | | W/W | 2.75 / 2.65 | 3.71 / 2.65 | 3.71 / 2.70 |
| Input Current T1/T3 | ( @ 25 Pascal ) | A | 4.7 / 5.6 | 6.6 / 7.9 | 9.0 / 10.7 |
| Indoor unit model | | | 42KDMT12N-718 | 42KDMT18N-718 | 42KDMT24N-718 |
| Nominal air flow ( high / med / low ) | ( @ 25 Pascal ) | cfm | 451 / 361 / 280 | 568 / 519 / 416 | 811 / 711 / 618 |
| | | $m^3$/hr | 765 / 612 / 474 | 963 / 880 / 705 | 1375 / 1205 / 1047 |
| Sound Pressure ( high / med / low ) | ( @ 25 Pascal ) | dB(A) | 43.2 / 37.5 / 30.1 | 45.6 / 42.7 / 38.8 | 45.6 / 42.7 / 38.8 |
| Indoor maximum external static pressure | | in.wg | 0.24 | 0.24 | 0.32 |
| | | Pa | 60 | 60 | 80 |
| Net Dimensions (W×H×D) | | mm | 920 × 210 × 635 | 920 × 270 × 635 | 920 × 270 × 635 |
| Net Weight | | Kg | 23 | 28 | 28 |
| Outdoor unit model | | | 38KDMT12N-718 | 38KDMT18N-718 | 38KDMT24N-718 |
| Tropical Compressor type | | | Rotary | Rotary | Rotary |
| Refrigerant type / Coupler type | | | R410A / Flare | R410A / Flare | R410A / Flare |
| Sound pressure | | dB(A) | 57 | 60 | 62 |
| Net Dimensions (W×H×D) | | mm | 780 x 540 x 250 | 845 x 700 x 320 | 945 x 810 x 395 |
| Net Weight | | kg | 37 | 48.5 | 60 |
| Pipe connection sizes inch ( mm ) | | Gas | 1/2" ( 12.7 ) | 1/2" ( 12.7 ) | 5/8" ( 15.9 ) |
| | | Liquid | 1/4" ( 6.35 ) | 1/4" ( 6.35 ) | 3/8" ( 9.52 ) |
| Maximum pipe length | | m | 20 | 20 | 25 |
| Maximum height difference | | m | 10 | 10 | 10 |
| Condensate drain hose diameter | | mm | 25 | 25 | 25 |

*** T1 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
27/19ºC db/wb Indoor Temperature. 35ºC outdoor temperature 230 volts power supply High Air Flow

*** T3 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
29/19ºC db/wb Indoor Temperature. 46ºC outdoor temperature 230 volts power supply High Air Flow

*** For any required performance @ other operating conditions, Please refer to " System Cooling Performance Data "**

*** Systems work at high ambient temperature up to 52ºC**

*** Systems comply with Safety Standards IEC 60335-2-40**

*** Carrier is committed for continuous improvement of Carrier products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.**

**All specifications subject to change without prior notice according to Carrier policy of continuous development.**

# Technical Specifications – System Performance

| System type | | | Cool Only | |
|---|---|---|---|---|
| System model | | | 53KDMT30N-718 | 53KDMT36N-718T |
| Indoor unit model | | | 42KDMT30N-718 | 42KDMT36N-718T |
| Outdoor unit model | | | 38KDMT30N-718 | 38KDMT36N-718T |
| Power supply | | V/ph/Hz | 220-240 / 1 / 50 | 220-240 / 1 / 50 |
| Cooling Capacity T1/T3 | ( @ 37 Pascal ) | Btu/hr | 35850 / 31400 | 36750 / 33500 |
| | | kW | 10.51 / 9.20 | 10.77 / 9.82 |
| Input Power T1/T3 | ( @ 37 Pascal ) | W | 3078 / 3662 | 3080 / 3876 |
| E.E.R. T1/T3 | ( @ 37 Pascal ) | Btu/wh | 11.65 / 8.57 | 11.93 / 8.64 |
| | | W/W | 3.39 / 2.51 | 3.50 / 2.53 |
| Input Current T1/T3 | ( @ 37 Pascal ) | A | 14.9 / 17.1 | 13.8 / 17.2 |
| Indoor unit | | | 42KDMT30N-718 | 42KDMT36N-718T |
| Nominal air flow ( high / med / low ) | ( @ 37 Pascal ) | cfm | 1168 / 1032 / 906 | 1168 / 1032 / 906 |
| | | $m^3$/hr | 1980 / 1750 / 1536 | 1980 / 1750 / 1536 |
| Sound Pressure ( high / med / low ) | ( @ 37 Pascal ) | dB(A) | 50.3 / 46.3 / 40.6 | 50.3 / 46.3 / 40.6 |
| Indoor maximum external static pressure | | in.wg | 0.32 | 0.32 |
| | | Pa | 80 | 80 |
| Net Dimensions ( W × H × D ) | | mm | 1200 × 300 × 865 | 1200 × 300 × 865 |
| Net Weight | | kg | 44.5 | 44.5 |
| Outdoor unit | | | 38KDMT30N-718 | 38KDMT36N-718T |
| Tropical compressor type | | | Rotary | Scroll |
| Refrigerant type / Coupler type | | | R410A / Flare | R410A / Flare |
| Sound pressure | | dB(A) | 65 | 68 |
| Net Dimensions ( W × H × D ) | | mm | 945 x 810 x 395 | 710 x 843 x 710 |
| Net Weight | | kg | 70.5 | 84.5 |
| Pipe connection sizes inch ( mm ) | | Gas | 3/4" ( 19.05 ) | 3/4" ( 19.05 ) |
| | | Liquid | 3/8" ( 9.52 ) | 3/8" ( 9.52 ) |
| Maximum pipe length | | m | 25 | 25 |
| Maximum height difference | | m | 15 | 15 |
| Condensate drain hose diameter | | mm | 25 | 25 |

*** T1 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
27/19ºC db/wb Indoor Temperature. 35ºC outdoor temperature 230 volts power supply High Air Flow

*** T3 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
29/19ºC db/wb Indoor Temperature. 46ºC outdoor temperature 230 volts power supply High Air Flow

*** For any required performance @ other operating conditions, Please refer to " System Cooling Performance Data "**

*** Systems work at high ambient temperature up to 52ºC**

*** Systems comply with Safety Standards IEC 60335-2-40**

*** Carrier is committed for continuous improvement of Carrier products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.**

**All specifications subject to change without prior notice according to Carrier policy of continuous development.**

# Technical Specifications – System Performance

| System type | | | Cool Only | | |
|---|---|---|---|---|---|
| System model | | | 53KDHT42N-518T | 53KDHT48N-518T | 53KDHT60N-518T |
| Indoor unit model | | | 42KDHT42N-718T | 42KDHT48N-718T | 42KDHT60N-718T |
| Outdoor unit model | | | 38KDHT42N-518T | 38KDHT48N-518T | 38KDHT60N-518T |
| Power supply | | V/ph/Hz | 380-420 / 3 / 50 | 380-420 / 3 / 50 | 380-420 / 3 / 50 |
| Cooling Capacity T1/T3 | ( @ 50 Pascal ) | Btu/hr | 41500 / 35800 | 48800 / 45000 | 58300 / 51300 |
| | | kW | 12.16 / 10.49 | 14.03 / 13.19 | 17.09 / 15.03 |
| Input Power T1/T3 | ( @ 50 Pascal ) | W | 3217 / 4020 | 3965 / 4879 | 4874 / 5913 |
| E.E.R. T1/T3 | ( @ 50 Pascal ) | Btu/wh | 12.90 / 8.90 | 12.31 / 9.22 | 11.95 / 8.68 |
| | | W/W | 3.78 / 2.61 | 3.61 / 2.70 | 3.50 / 2.54 |
| Input Current T1/T3 | ( @ 50 Pascal ) | A | 5.4 / 6.6 | 7.0 / 8.3 | 8.4 / 9.9 |
| Indoor unit model | | | 42KDHT42N-718T | 42KDHT48N-718T | 42KDHT60N-718T |
| Nominal air flow ( high / med / low ) | ( @ 50 Pascal ) | cfm | 1375 / 1140 / 979 | 1736 / 1484 / 1270 | 1750 / 1507 / 1153 |
| | | $m^3$/hr | 2331 / 1933 / 1660 | 2943 / 2516 / 2152 | 2966 / 2555 / 1954 |
| Sound Pressure ( high / med / low ) | ( @ 50 Pascal ) | dB(A) | 55.0 / 51.8 / 47.7 | 55.0 / 51.8 / 47.7 | 55.0 / 51.8 / 47.7 |
| Indoor maximum external static pressure | | in.wg | 0.40 | 0.64 | 0.64 |
| | | Pa | 100 | 160 | 160 |
| Net Dimensions ( W × H × D ) | | mm | 1200 × 380 × 625 | 1200 × 380 × 625 | 1200 × 380 × 625 |
| Net Weight | | Kg | 56 | 56 | 56 |
| Outdoor unit model | | | 38KDHT42N-518T | 38KDHT48N-518T | 38KDHT60N-518T |
| Tropical Compressor type | | | Scroll | Scroll | Scroll |
| Refrigerant type / Coupler type | | | R410A / Flare | R410A / Flare | R410A / Flare |
| Sound pressure | | dB(A) | 68 | 68 | 68 |
| Net Dimensions ( W × H × D ) | | mm | 710 x 843 x 710 | 710 x 843 x 710 | 740 x 843 x 740 |
| Net Weight | | kg | 80 | 80 | 102 |
| Pipe connection sizes inch ( mm ) | | Gas | 7/8" ( 22.2 ) | 7/8" ( 22.2 ) | 7/8" ( 22.2 ) |
| | | Liquid | 3/8" ( 9.52 ) | 3/8" ( 9.52 ) | 3/8" ( 9.52 ) |
| Maximum pipe length | | m | 30 | 30 | 30 |
| Maximum height difference | | m | 15 | 15 | 15 |
| Condensate drain hose diameter | | mm | 25 | 25 | 25 |

*** T1 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
27/19ºC db/wb Indoor Temperature. 35ºC outdoor temperature 400 volts power supply High Air Flow

*** T3 Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ( UAE .S 5010 - 5 : 2014 & UAE.S ISO 13253 : 2011 Standards ) at conditions :**
29/19ºC db/wb Indoor Temperature. 46ºC outdoor temperature 400 volts power supply High Air Flow

*** For any required performance @ other operating conditions, Please refer to " System Cooling Performance Data "**

*** Systems work at high ambient temperature up to 52ºC**

*** Systems comply with Safety Standards IEC 60335-2-40**

*** Carrier is committed for continuous improvement of Carrier products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.**

**All specifications subject to change without prior notice according to Carrier policy of continuous development.**

# 7. Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDMT12N-718** |
|---|---|---|---|
| Compressor | Model | | **PA140M2A-4FTM** |
| | Type | | **Rotary Tropical** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **GMCC / Toshiba** |
| | Capacity ( @ 220/240V ) ± 5% | Btu/h | **11840 / 11940** |
| | Input power ( @ 220/240V ) ± 5% | W | **1125 / 1145** |
| | EER ( @ 220/240V ) ± 5% | Btu/wh | **10.52 / 10.43** |
| | Input current ( @ 220/240V ) ± 5% | A | **5.2 / 9.4** |
| | Locked rotor Amp ( @ 240V ) ± 10% | A | **29** |
| | Thermal protector position | | **Internal** |
| | Capacitor | uF / V | **35 / 370** |
| | Refrigerant oil | | **RB75EA** |
| | Oil charge | ml | **440** |
| | Displacement | $cm^3/rev$ | **14** |
| | Motor type | | **Single Phase Induction Motor** |
| | Motor starting type | | **PSC** |
| | Rated revolution | | **48.18 / 48.52 ± 1% S-1** |
| | Number of poles | | **2** |
| | Insulation grade | | **E** |
| | Winding resistance ( @ 20°C ) ± 5% | ohm | **Main 2.46 Aux. 3.17** |
| | Safety approval | | **TUV R50140792** |
| Outdoor fan motor | Model | | **YKT-32-6-1L** |
| | Power supply | V/Ph/Hz | **220-240/1/50** |
| | Supplier | | **Welling** |
| | Rated power | W | **32** |
| | Capacitor | uF / V | **2.5 / 450** |
| | Input power | A | **0.31** |
| | Locked rotor amps | A | **0.415** |
| | Number of poles | | **6** |
| | Winding insulation class | | **B** |
| Outdoor coil | Number of rows | | **3** |
| | Tube pitch(a)× row pitch(b) | mm | **21 × 13.37** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Hydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, innergroove tube** |
| | Coil length × height × width | mm | **755 x 504 x 40.11** |
| | Number of circuits | | **3** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **780 x 540 x 250** |
| | Packing (W x H x D) | mm | **910 x 585 x 335** |
| | Net/Gross weight | Kg | **37 / 39** |
| **Indoor Unit Model** | | | **42KDMT12N-718** |
| Indoor fan motor | Model | | **WZDK90-38G-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **90** |
| | Input current | A | **0.41** |
| | Speed | RPM | **1000** |
| | Number of Poles | | **8** |
| | Winding insulation class | | **E** |
| Indoor coil | Number of rows | | **3** |
| | Tube pitch(a)× row pitch(b) | mm | **21×13.37** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic aluminum** |
| | Tube outside dia.and type | mm | **Φ7, inner groove tube** |
| | Coil length × height × width | mm | **735 × 252 × 40.11** |
| | Number of circuits | | **4** |
| Indoor unit | Dimension (W x H x D) | mm | **920 x 210 x 635** |
| | Packing (W x H x D) | mm | **1135 x 290 x 655** |
| | Net/Gross weight | kg | **23 / 28** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **220 ~ 240 / 1 / 50** |
| Refrigerant type / quantity | | g | **R410A / 1160** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 1/2 ( 12.7 ) / Ø 1/4 ( 6.35 )** |
| | Max. refrigerant pipe length | m | **10** |
| | Max. difference in level | m | **4** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **21 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDMT18N-718** |
|---|---|---|---|
| Compressor | Model | | **PA185G2CS-4KTM1** |
| | Type | | **Rotary Tropical** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **GMCC / Toshiba** |
| | Capacity ( @ 220/240V ) ± 3% | Btu/h | **15710 / 15760** |
| | Input power ( @ 220/240V ) ± 3% | W | **1535 / 1550** |
| | EER | Btu/wh | **10.23 / 10.17** |
| | | W/W | **3.00 / 2.98** |
| | Input current ( @ 220/240V ) ± 3% | A | **7.1 / 6.6** |
| | Locked rotor Amp ( " 240V ) + 10% | A | **42** |
| | Thermal protector position | | **Internal** |
| | Capacitor | uF / V | **55 / 400** |
| | Refrigerant oil | | **RB75EA** |
| | Oil charge | ml | **700** |
| | Displacement | $cm^3$/rev | **18.56** |
| | Motor type | | **Single Phase Induction Motor** |
| | Motor starting type | | **PSC** |
| | Rated revolution | | **48.3 ± 1% S-1** |
| | Insulation grade | | **E** |
| | Winding resistance ( @ 20°C ) ± 5% | ohm | **Main 1.78 Aux. 1.80** |
| | Safety approval | | **TUV** |
| Outdoor fan motor | Model | | **YDK100-6D** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Supplier | | **Welling** |
| | Rated power | W | **100** |
| | Capacitor | uF / V | **5 / 370** |
| | Speed | r/min | **0.72** |
| | Locked rotor amps | A | **1.41** |
| | Number of poles | | **6** |
| | Winding insulation class | | **B** |
| Outdoor coil | Number of rows | | **2** |
| | Tube pitch(a)× row pitch(b) | mm | **21x13.37** |
| | Fin spacing | mm | **1.4** |
| | Fin type (code) | | **UnHydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, innergroove tube** |
| | Coil length × height × width | mm | **785 x 651 x 26.74** |
| | Number of circuits | | **4** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **845 x 700 x 320** |
| | Packing (W x H x D) | mm | **960 x 722 x 395** |
| | Net/Gross weight | Kg | **48.5 / 51.5** |
| **Indoor Unit Model** | | | **42KDMT18N-718** |
| Indoor fan motor | Model | | **WZDK90-38G-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **90** |
| | Input speed | A | **0.41** |
| | Speed | RPM | **1000** |
| | Number of Poles | | **8** |
| | Winding insulation class | | **E** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **21×13.37** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic Aluminum** |
| | Tube outside dia.and type | mm | **Φ7, inner groove tube** |
| | Coil length × height × width | mm | **733 x 252 x 53.48** |
| | Number of circuits | | **6** |
| Indoor unit | Dimension (W x H x D) | mm | **920 x 270 x 635** |
| | Packing (W x H x D) | mm | **1135 x 350 x 655** |
| | Net/Gross weight | kg | **28 / 33** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **220 ~ 240 / 1 / 50** |
| Refrigerant type / quantity | | g | **R410A / 1500** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 1/2 ( 12.7 ) / Ø 1/4 ( 6.35 )** |
| | Max. refrigerant pipe length | m | **20** |
| | Max. difference in level | m | **10** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDMT24N-718** |
|---|---|---|---|
| Compressor | Model | | **PA250G2CS-7KUM** |
| | Type | | **Rotary Tropical** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **GMCC / Toshiba** |
| | Capacity ( @ 230V ) ± 3% | Btu/h | **21495** |
| | Input power ( @ 230V ) ± 3% | W | **2100** |
| | EER | Btu/wh | **10.24** |
| | | W/W | **3.00** |
| | Input current ( @ 230V ) ± 3% | A | **9.35** |
| | Locked rotor Amp ( @ 240V ) ± 3% | A | **55** |
| | Thermal protector position | | **Internal** |
| | Capacitor | uF / V | **60 / 400** |
| | Refrigerant oil | | **RB75EA** |
| | Oil charge | cc | **850** |
| | Displacement | $cm^3$/rev | **25.13** |
| | Motor type | | **Single Phase Induction Motor** |
| | Motor starting type | | **PSC** |
| | Rated revolution | | **48.5 ± 1% S-1** |
| | Number of poles | | **2** |
| | Insulation grade | | **E** |
| | Winding resistance ( @ 20°C ) ± 5% | ohm | **Main 1.40 Aux. 1.79** |
| | Safety approval | | **TUV** |
| Outdoor fan motor | Model | | **YDK60-6K** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Supplier | | **Welling** |
| | Rated power | W | **60** |
| | Capacitor | uF / V | **7.5 / 440** |
| | Input current | A | **0.58** |
| | Locked rotor amps | A | **1.1** |
| | Number of poles | | **6** |
| | Winding insulation class | | **B** |
| Outdoor coil | Number of rows | | **2** |
| | Tube pitch(a)× row pitch(b) | mm | **21 x 13.37** |
| | Fin spacing | mm | **1.4** |
| | Fin type (code) | | **Unhydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, inner groove tube** |
| | Coil length × height × width | mm | **1000 x 756 x 26.74** |
| | Number of circuits | | **6** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **945 x 810 x 395** |
| | Packing (W x H x D) | mm | **1090 x 855 x 475** |
| | Net/Gross weight | Kg | **61 / 66** |
| **Indoor Unit Model** | | | **42KDMT24N-718** |
| Indoor fan motor | Model | | **WZDK90-38G-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Input power | W | **90** |
| | Input current | A | **0.41** |
| | Speed | RPM | **1000** |
| | Number of Poles | | **8** |
| | Winding insulation class | | **E** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **21×13.37** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic Aluminum** |
| | Tube outside dia.and type | mm | **Φ7, inner groove tube** |
| | Coil length × height × width | mm | **733 x 252 x 53.48** |
| | Number of circuits | | **6** |
| Indoor unit | Dimension (W x H x D) | mm | **920 x 270 x 635** |
| | Packing (W x H x D) | mm | **1135 x 350 x 655** |
| | Net/Gross weight | kg | **28 / 33** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **220 ~ 240 / 1 / 50** |
| Refrigerant type / quantity | | g | **R410A / 2050** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 5/8 ( 15.9 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **20** |
| | Max. difference in level | m | **10** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDMT30N-718** |
|---|---|---|---|
| Compressor | Model | | **ATH356MV-C9EUA** |
| | Type | | **Rotary Tropical** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **Hitachi** |
| | Capacity ( @ 230V ) ± 3% | Btu/h | **29205** |
| | Input power ( @ 230V ) ± 3% | W | **3040** |
| | EER | Btu/wh | **9.61** |
| | | W/W | **2.82** |
| | Input current ( @ 230V ) ± 3% | A | **14.4** |
| | Locked rotor Amp ( + 10% ) | A | **80** |
| | Thermal protector position | | **Internal** |
| | Capacitor | uF / V | **55 / 500** |
| | Refrigerant oil | | **HAF68D1 or Equivalent** |
| | Oil charge | ml | **880 ± 20** |
| | Displacement | $cm^3$/rev | **35.6** |
| Outdoor fan motor | Model | | **WZDK120-38G-1** |
| | Supplier | | **NIDEC** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **120** |
| | Number of poles | | **8** |
| | Winding insulation class | | **E** |
| Outdoor coil | a.Number of rows | | **3** |
| | b.Tube pitch(a)× row pitch(b) | mm | **21 x 13.37** |
| | c.Fin spacing | mm | **1.4** |
| | d.Fin type (code) | | **UnHydrophilic aluminium** |
| | e.Tube outside dia.and type | mm | **Φ7, innergroove tube** |
| | f.Coil length × height × width | mm | **995 x 756 x 40.11** |
| | g.Number of circuits | | **6** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **945 x 810 x 395** |
| | Packing (W x H x D) | mm | **1090 x 855 x 475** |
| | Net/Gross weight | Kg | **70.5 / 75.5** |
| **Indoor Unit Model** | | | **42KDMT30N-718** |
| Indoor fan motor | Model | | **WZDK240-38GS-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **240** |
| | Number of Poles | | **8** |
| | Winding insulation class | | **E** |
| Indoor coil | a.Number of rows | | **4** |
| | b.Tube pitch(a)× row pitch(b) | mm | **21×13.37** |
| | c.Fin spacing | mm | **1.5** |
| | d.Fin type (code) | | **Precoated Hydrophilic Aluminum** |
| | e.Tube outside dia.and type | mm | **Φ7,Inner grooved tube** |
| | f.Coil length × height × width | mm | **1030×378×53.48** |
| | g.Number of circuits | | **8** |
| Indoor unit | Dimension (W x H x D) | mm | **1200 x 300 x 865** |
| | Packing (W x H x D) | mm | **1385 x 373 x 920** |
| | Net/Gross weight | kg | **44.5 / 53** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **220 ~ 240 / 1 / 50** |
| Refrigerant type / quantity | | g | **R410A / 3300** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 3/4 ( 19.05 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **20** |
| | Max. difference in level | m | **10** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDMT36N-718T** |
|---|---|---|---|
| Compressor | Model | | **ZP39KSE-PFZ-522** |
| | Type | | **Scroll Tropical** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **Copeland** |
| | Capacity ( @ 230V ) ± 5% | Btu/h | **31390** |
| | Input power ( @ 230V ) ± 5% | W | **3140** |
| | EER | Btu/wh | **10** |
| | | W/W | **2.93** |
| | Input current ( @ 230V ) ± 5% | A | **14.5** |
| | Locked rotor Amp ( @ 240V ) | A | **98** |
| | Thermal protector position | | **Internal** |
| | Capacitor | uF / V | **80 / 370** |
| | Refrigerant oil | | **POE Oil** |
| | Initial Oil charge / Oil recharge | Liter | **1.24 / 1.12** |
| | Displacement | $cm^3$/Rev. | **36.87** |
| | Speed | RPM | **2900** |
| | MCC | A | **24** |
| Outdoor fan motor | Model | | **YDK230-6C** |
| | Power supply | V / Ph / Hz | **220-240 / 1 / 50** |
| | Supplier | | **Welling** |
| | Rated power | W | **230** |
| | Capacitor | uF / V | **7.5 uF / 440 V** |
| | Input current | A | **0.87** |
| | Locked rotor amps | A | **1.90** |
| | Number of poles | | **6** |
| | Winding insulation class | | **B** |
| Outdoor coil | Number of rows | | **2** |
| | Tube pitch(a)× row pitch(b) | mm | **21 × 13.37** |
| | Fin spacing | mm | **1.3** |
| | Fin type (code) | | **Unhydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, inner grooved tube** |
| | Coil length × height × width | mm | **2028 × 798 × 26.74** |
| | Number of circuits | | **5** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **710 x 843 x 710** |
| | Packing (W x H x D) | mm | **738 x 873 x 738** |
| | Net/Gross weight | Kg | **84.5 / 89.5** |
| **Indoor Unit Model** | | | **42KDMT36N-718T** |
| Indoor fan motor | Model | | **WZDK240-38GS-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **240** |
| | Number of Poles | | **8** |
| | Winding Insulation class | | **E** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **21×13.37** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic Aluminum** |
| | Tube outside dia.and type | mm | **Φ7,Inner grooved tube** |
| | Coil length × height × width | mm | **1030×378×53.48** |
| | Number of circuits | | **8** |
| Indoor unit | Dimension (W x H x D) | mm | **1200 x 300 x 865** |
| | Packing (W x H x D) | mm | **1385 x 373 x 920** |
| | Net/Gross weight | kg | **44.5 / 53** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **220 ~ 240 / 1 / 50** |
| Refrigerant type / quantity | | g | **R410A / 4300** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 3/4 ( 19.05 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **25** |
| | Max. difference in level | m | **10** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDHT42N-518T** |
|---|---|---|---|
| Compressor | Model | | **ZP42KSE-TFM-522** |
| | Type | | **Scroll Tropical** |
| | Power supply | V / Ph / Hz | **380-420 / 3 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **Copeland** |
| | Capacity ( @ 400V ) ± 5% | Btu/h | **34290** |
| | Input power ( @ 400V ) ± 5% | W | **3310** |
| | EER | Btu/wh | **10.36** |
| | | W/W | **3.04** |
| | Rated current ( @ 400V ) ± 5% | A | **5.6** |
| | Locked rotor Amp ( @ 420V ) | A | **43** |
| | Thermal protector position | | **Internal** |
| | Refrigerant oil | | **POE Oil** |
| | Initial oil charge / recharge | Liter | **1.24 / 1.12** |
| | Displacement | $cm^3$/Rev. | **39.82** |
| | Speed | RPM | **2900** |
| | MCC | A | **9.5** |
| Outdoor fan motor | Model | | **YKSJ-140-6-1L** |
| | Power supply | V / Ph / Hz | **400 / 3 / 50** |
| | Supplier | | **Board Ocean** |
| | Rated power | W | **140** |
| | Capacitor | uF / V | **7.5 uF / 440 V** |
| | Input current | A | **0.43** |
| | Locked rotor amps | A | **1.1** |
| | Number of poles | | **6** |
| | Windings insulation class | | **F** |
| Outdoor coil | Number of rows | | **2** |
| | Tube pitch(a)× row pitch(b) | mm | **21 × 13.37** |
| | Fin spacing | mm | **1.3** |
| | Fin type (code) | | **Unhydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, inner grooved tube** |
| | Coil length × height × width | mm | **2028 × 798 × 26.74** |
| | Number of circuits | | **5** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **710 x 843 x 710** |
| | Packing (W x H x D) | mm | **738 x 873 x 738** |
| | Net/Gross weight | Kg | **80 / 85** |
| **Indoor Unit Model** | | | **42KDHT42N-718T** |
| Indoor fan motor | Model | | **WZDK-560-38GS-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **560** |
| | Input current | A | **2.65** |
| | Speed | RPM | **1000** |
| | Number of Poles | | **8** |
| | Windings insulation class | | **E** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **25.4 x 22** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic Aluminium** |
| | Tube outside dia.and type | mm | **Φ9.52, inner grooved tube** |
| | Coil length × height × width | mm | **1055 x 355.6 x 88** |
| | Number of circuits | | **7** |
| Indoor unit | Dimension (W x H x D) | mm | **1200 x 380 x 625** |
| | Packing (W x H x D) | mm | **1485 x 450 x 675** |
| | Net/Gross weight | kg | **56 / 64** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **380 ~ 420 / 3 / 50** |
| Refrigerant type / quantity | | g | **R410A / 3900** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 7/8 ( 22.2 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **30** |
| | Max. difference in level | m | **15** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDHT48N-518T** |
|---|---|---|---|
| Compressor | Model | | **ZP51KUE-TFP-54E** |
| | Type | | **Scroll Tropical** |
| | Power Supply | V/Ph/Hz | **380-420 / 3 / 50** |
| | Refrigerant | | **R410A** |
| | Power supply | V / Ph / Hz | **380-420 / 3 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **Copeland** |
| | Capacity | Btu/h | **42700** |
| | Input power | W | **3954** |
| | EER | Btu/wh | **10.80** |
| | | W/W | **3.16** |
| | Input current(RLA) | A | **7.5** |
| | Locked Rotor Amp(LRA) | A | **58** |
| | Thermal protector position | | **Internal** |
| | Refrigerant oil type | | **POE Oil** |
| | Refrigerant oil – initial charge | ml | **1242** |
| | Refrigerant oil – recharge | ml | **1124** |
| | Displacment | $cm^3/rev$ | **47.08** |
| | Speed | RPM | **2900** |
| | Motor type | | **Three phase induction** |
| | Number of poles | | **2** |
| Outdoor fan motor | Model | | **YKSJ-140-6-1L** |
| | Power Supply | V/Ph/Hz | **400 / 3 / 50** |
| | Supplier | | **Board Ocean** |
| | Rated power | W | **140** |
| | Rated current | A | **0.43** |
| | Locked Rotor Amp ( LRA ) | A | **1.1** |
| | Number of Poles | | **6** |
| | Windings – Insulation Class | | **F** |
| Outdoor coil | Number of rows | | **2** |
| | Tube pitch(a)x row pitch(b) | mm | **21 × 13.37** |
| | Fin spacing | mm | **1.3** |
| | Fin type | | **Unhydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, inner grooved tube** |
| | Coil length x height x width | mm | **2028 × 798 × 26.74** |
| | Number of circuits | | **5** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **710 x 843 x 710** |
| | Packing (W x H x D) | mm | **738 x 873 x 738** |
| | Net/Gross weight | Kg | **80 / 85** |
| **Indoor Unit Model** | | | **42KDHT48N-718T** |
| Indoor fan motor | Model | | **WZDK-560-38GS-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **560** |
| | Number of Poles | | **8** |
| | Input current | A | **2.65** |
| | Speed | RPM | **1000** |
| | Windings insulation class | | **E** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **25.4 x 22** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ9.52, inner grooved tube** |
| | Coil length × height × width | mm | **1055 x 355.6 x 88** |
| | Number of circuits | | **7** |
| Indoor unit | Dimension (W x H x D) | mm | **1200 x 380 x 625** |
| | Packing (W x H x D) | mm | |
| | Net/Gross weight | kg | **56 / 64** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **380 ~ 420 / 3 / 50** |
| Refrigerant type / quantity | | g | **R410A / 3900** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 7/8 ( 22.2 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **30** |
| | Max. difference in level | m | **15** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature range | | ℃ | **17 ~ 30** |
| Ambient temperature range | | ℃ | **20 ~ 52** |

# Technical Specifications - System Components

| **Outdoor Unit Model** | | | **38KDHT60N-518T** |
|---|---|---|---|
| Compressor | Model | | **ZP61KCE-TFD-52E** |
| | Type | | **Scroll Tropical** |
| | Power Supply | V/Ph/Hz | **380-420 / 3 / 50** |
| | Refrigerant | | **R410A** |
| | Supplier | | **Copeland** |
| | Capacity | Btu/h | **50000** |
| | Input power | W | **4750** |
| | EER | Btu/wh | **10.53** |
| | | W/W | **3.09** |
| | Input current(RLA) | A | **8.3** |
| | Locked Rotor Amp(LRA) | A | **64** |
| | Thermal protector position | | **Intenal** |
| | Refrigerant oil type | | **POE Oil** |
| | Refrigerant oil – initial charge | $Cm^3$ | **1656** |
| | Refrigerant oil – recharge | $Cm^3$ | **1538** |
| | Displacment | $cm^3/rev$ | **58.1** |
| | Speed | RPM | **2900** |
| | Motor type | | **Three phase induction** |
| | Number of poles | | **2** |
| | Safety approvals | | **UL ( SA 2337 ) & CSA ( LR 3104C )** |
| Outdoor fan motor | Model | | **YKSJ-140-6-1L** |
| | Power Supply | V/Ph/Hz | **400 / 3 / 50** |
| | Supplier | | **Board Ocean** |
| | Rated power | W | **140** |
| | Rated current | A | **0.43** |
| | Locked Rotor Amp ( LRA ) | A | **1.1** |
| | Number of Poles | | **6** |
| | Windings – Insulation Class | | **F** |
| Outdoor coil | Number of rows | | **2.8** |
| | Tube pitch(a)x row pitch(b) | mm | **21 x 13.37** |
| | Fin spacing | mm | **1.3** |
| | Fin type | | **UnHydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ7, inner grooved tube** |
| | Coil length x height x width | mm | **2148 x 798 x 37.5** |
| | Number of circuits | | **8** |
| Expansion device | | | **Capillary tubes** |
| Outdoor unit | Dimension (W x H x D) | mm | **740 x 843 x 740** |
| | Packing (W x H x D) | mm | **768 x 878 x 768** |
| | Net/Gross weight | Kg | **102 / 107** |
| **Indoor Unit Model** | | | **42KDHT60N-718T** |
| Indoor fan motor | Model | | **WZDK-560-38GS-W** |
| | Supplier | | **Welling** |
| | Type | | **Brushless DC motor** |
| | DC Volts | V | **310** |
| | Rated power | W | **560** |
| | Number of Poles | | **8** |
| | Insulation class | | **E** |
| | Input current | A | **2.65** |
| | Speed | RPM | **1000** |
| Indoor coil | Number of rows | | **4** |
| | Tube pitch(a)× row pitch(b) | mm | **25.4 x 22** |
| | Fin spacing | mm | **1.5** |
| | Fin type (code) | | **Precoated Hydrophilic aluminium** |
| | Tube outside dia.and type | mm | **Φ9.52, inner grooved tube** |
| | Coil length × height × width | mm | **1055 x 355.6 x 88** |
| | Number of circuits | | **7** |
| Indoor unit | Dimension (W x H x D) | mm | **1200 x 380 x 550** |
| | Packing (W x H x D) | mm | **1485 x 450 x 600** |
| | Net/Gross weight | kg | **56 / 64** |
| **System Installation Data** | | | |
| Power supply | | V / Ph / Hz | **380 ~ 420 / 3 / 50** |
| Refrigerant type / quantity | | g | **R410A / 5150** |
| Design operating pressure | | MPa | **4.8 / 1.5** |
| Refrigerant piping | Gas side / Liquid side | inch (mm) | **Ø 7/8 ( 22.2 ) / Ø 3/8 ( 9.52 )** |
| | Max. refrigerant pipe length | m | **30** |
| | Max. difference in level | m | **15** |
| Drainage water pipe outside diameter | | mm | **ODØ 25** |
| Standard control type | | | **Wired Control** |
| Operation temperature | | ℃ | **17 ~ 30** |
| Ambient temperature | | ℃ | **20 ~ 52** |

# 8. Refrigeration Cycles

**Ducted Split System – Medium Static Pressure**
**53KDMT12N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

42KDMT12N-718
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil
Temp. sensor

T1 Air return
temperature sensor

Centrifugal Blowers

Gas Line
1/2" (12.7 mm )

Connecting
Refrigerant
Piping Lines

Liquid Line
1/4" ( 6.35 mm )

Gas
Service Valve

Liquid
Service Valve

Compressor
Rotary Tropical – R410A
GMCC / Toshiba
PA140M2A-4FTM

Outdoor Coil

Capillary
Tubes

Propeller Fan

38KDMT12N-718
Outdoor Unit
Side Discharge

OUTDOOR UNIT

Refrigerant flow

# Refrigeration Cycles

## Ducted Split System – Medium Static Pressure
**53KDMT18N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

42KDMT18N-718
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil Temp. sensor

T1 Air return temperature sensor

Centrifugal Blowers

Gas Line 1/2" (12.7 mm )

Connecting Refrigerant Piping Lines

Liquid Line 1/4" ( 6.35 mm )

Gas Service Valve

Liquid Service Valve

Compressor
Rotary Tropical – R410A
GMCC / Toshiba
PA185G2CS-4KTM1

Outdoor Coil

Capillary Tubes

38KDMT18N-718
Outdoor Unit
Side Discharge

Propeller Fan

OUTDOOR UNIT

Refrigerant flow

# Refrigeration Cycles

## Ducted Split System – Medium Static Pressure
**53KDMT24N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

42KDMT24N-718
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil Temp. sensor

T1 Air return temperature sensor

Centrifugal Blowers

Gas Line 5/8" (15.9 mm )

Connecting Refrigerant Piping Lines

Liquid Line 3/8" ( 9.52 mm )

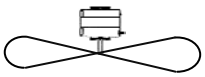
Gas Service Valve

Liquid Service Valve

Compressor
Rotary Tropical – R410A
GMCC / Toshiba
PA250G2CS-7KUM

Outdoor Coil

Capillary Tubes



Propeller Fan

38KDMT24N-718
Outdoor Unit
Side Discharge

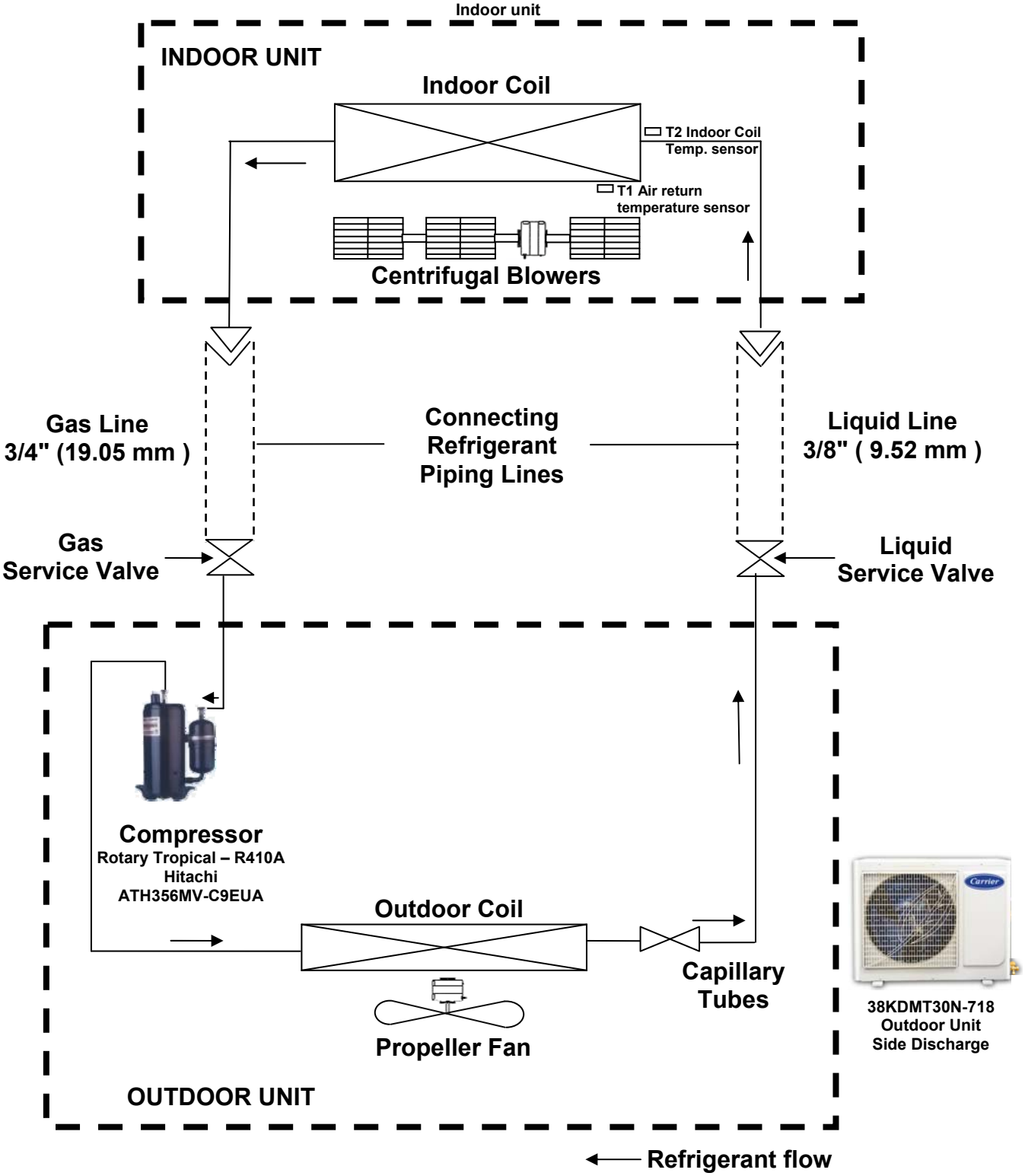
OUTDOOR UNIT

Refrigerant flow

# Refrigeration Cycles

## Ducted Split System – Medium Static Pressure
**53KDMT30N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

42KDMT30N-718
Indoor unit



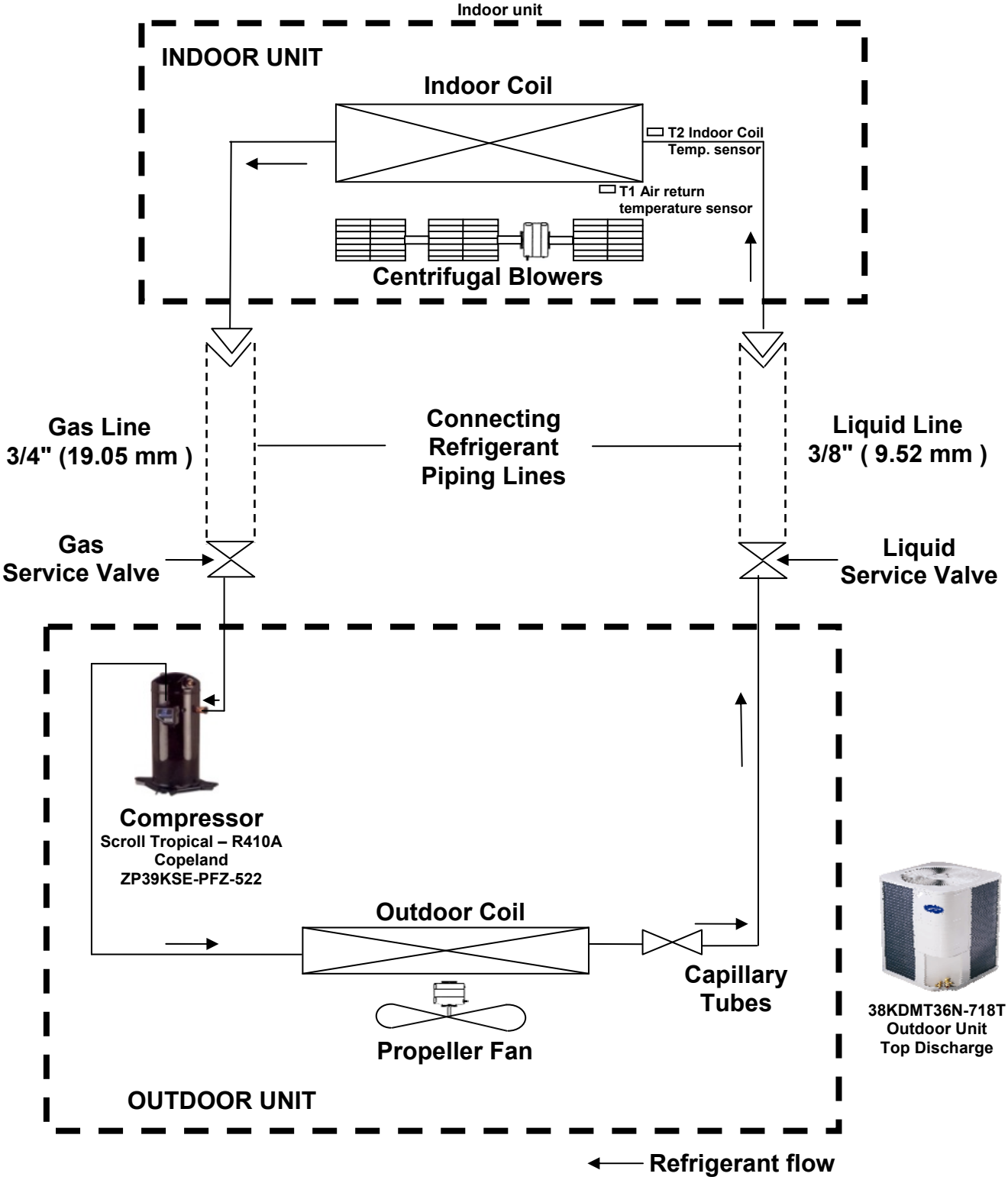



38KDMT30N-718
Outdoor Unit
Side Discharge

# Refrigeration Cycles

## Ducted Split System – Medium Static Pressure
**53KDMT36N-718T Cool Only**
**220-240V / 1Ph / 50Hz**

42KDMT36N-718T
Indoor unit






38KDMT36N-718T
Outdoor Unit
Top Discharge

# Refrigeration Cycles

## Ducted Split System – High Static Pressure
**53KDHT42N- 518T  Cool Only**
**380-420V / 3Ph / 50Hz**

42KDHT42N-718T
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil Temp. sensor

T1 Air return temperature sensor

Centrifugal Blowers

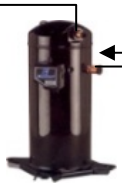
Gas Line
7/8" (22.2 mm )

Connecting Refrigerant Piping Lines

Liquid Line
3/8" ( 9.52 mm )

Gas Service Valve

Liquid Service Valve



Compressor
Scroll Tropical – R410A
Copeland
ZP42KSE-TFM-522

Outdoor Coil

Capillary Tubes

Propeller Fan

38KDHT42N-518T
Outdoor Unit
Top Discharge

OUTDOOR UNIT

Refrigerant flow

# Refrigeration Cycles

## Ducted Split System – High Static Pressure
**53KDHT48N- 518T Cool Only**
**380-420V / 3Ph / 50Hz**

42KDHT48N-718T
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil Temp. sensor

T1 Air return temperature sensor

Centrifugal Blowers

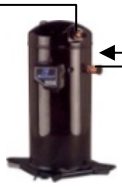
Gas Line
7/8" (22.2 mm )

Connecting Refrigerant Piping Lines

Liquid Line
3/8" ( 9.52 mm )

Gas Service Valve

Liquid Service Valve



Compressor
Scroll Tropical – R410A
Copeland
ZP51KUE-TFP-54E

Outdoor Coil

Capillary Tubes

Propeller Fan

38KDHT48N-518T
Outdoor Unit
Top Discharge

OUTDOOR UNIT

Refrigerant flow

# Refrigerant Cycles

## Ducted Split System – High Static Pressure
**53KDHT60N- 518T Cool Only**
**380-420V / 3Ph / 50Hz**

42KDHT60N-718T
Indoor unit

INDOOR UNIT

Indoor Coil

T2 Indoor Coil Temp. sensor

T1 Air return temperature sensor

Centrifugal Blowers

Gas Line
7/8" (22.2 mm )

Connecting Refrigerant Piping Lines

Liquid Line
3/8" ( 9.52 mm )

Gas Service Valve

Liquid Service Valve

Compressor
Scroll Tropical – R410A
Copeland
ZP61KCE-TFD-52E

Outdoor Coil

Capillary Tubes

Propeller Fan

38KDHT60N-518T
Outdoor Unit
Top Discharge

OUTDOOR UNIT

Refrigerant flow

## 9. Air Flow Versus External Static Pressure ( ESP ) Data

42KDMT12N-718

| Test Volt | ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.24 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 10 | 20 | 25 | 30 | 40 | 50 | 60 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 431 | 421 | 432 | 451 | 414 | 410 | 382 | 342 |
| | | | 731 | 713 | 732 | 765 | 702 | 695 | 648 | 579 |
| 230V 1Ph / 50Hz | Medium Speed | | 373 | 345 | 334 | 361 | 312 | 323 | 302 | 322 |
| | | | 632 | 585 | 566 | 612 | 529 | 548 | 512 | 546 |
| 230V 1Ph / 50Hz | Low Speed | | 304 | 275 | 250 | 280 | 228 | 228 | 234 | 230 |
| | | | 516 | 467 | 423 | 474 | 386 | 387 | 397 | 390 |

42KDMT18N-718

| Test Volt | ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 10 | 20 | 25 | 30 | 37 | 40 | 50 | 60 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 541 | 548 | 557 | 568 | 530 | 556 | 536 | 569 | 570 |
| | | | 917 | 929 | 944 | 963 | 899 | 942 | 909 | 965 | 966 |
| 230V 1Ph / 50Hz | Medium Speed | | 506 | 517 | 533 | 519 | 478 | 516 | 490 | 523 | 523 |
| | | | 858 | 876 | 903 | 880 | 810 | 874 | 830 | 886 | 886 |
| 230V 1Ph / 50Hz | Low Speed | | 414 | 421 | 425 | 416 | 365 | 431 | 399 | 428 | 440 |
| | | | 702 | 714 | 721 | 705 | 619 | 731 | 676 | 725 | 746 |

## Air Flow Versus External Static Pressure ( ESP ) Data

42KDMT24N-718

| Test Volt | ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 10 | 20 | 25 | 30 | 37 | 40 | 50 | 60 | 70 | 80 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 740 | 772 | 772 | 811 | 785 | 800 | 792 | 811 | 790 | 805 | 803 |
| | | | 1254 | 1308 | 1309 | 1374 | 1331 | 1356 | 1342 | 1375 | 1339 | 1364 | 1362 |
| 230V 1Ph / 50Hz | Medium Speed | | 654 | 665 | 682 | 711 | 684 | 821 | 701 | 707 | 733 | 748 | 766 |
| | | | 1108 | 1127 | 1157 | 1205 | 1160 | 1222 | 1189 | 1199 | 1242 | 1268 | 1298 |
| 230V 1Ph / 50Hz | Low Speed | | 579 | 595 | 602 | 618 | 567 | 639 | 605 | 612 | 662 | 658 | 669 |
| | | | 981 | 1008 | 1020 | 1047 | 961 | 1084 | 1025 | 1037 | 1115 | 1115 | 1134 |

42KDMT30N-718

| Test Volt | ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 10 | 20 | 25 | 30 | 37 | 40 | 50 | 60 | 70 | 80 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 1181 | 1149 | 1163 | 1217 | 1173 | 1168 | 1226 | 1228 | 1100 | 1109 | 1111 |
| | | | 2002 | 1947 | 1972 | 2063 | 1988 | 1980 | 2078 | 2082 | 1864 | 1880 | 1883 |
| 230V 1Ph / 50Hz | Medium Speed | | 1055 | 1049 | 1037 | 1048 | 1034 | 1032 | 1147 | 1147 | 1038 | 1039 | 1035 |
| | | | 1789 | 1778 | 1758 | 1776 | 1752 | 1750 | 1945 | 1944 | 1760 | 1761 | 1755 |
| 230V 1Ph / 50Hz | Low Speed | | 890 | 901 | 894 | 963 | 935 | 906 | 1016 | 1001 | 914 | 893 | 880 |
| | | | 1508 | 1527 | 1516 | 1633 | 1585 | 1536 | 1722 | 1696 | 1550 | 1513 | 1492 |

## Air Flow Versus External Static Pressure ( ESP ) Data

42KDMT36N-718T

| Test Volt | ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 10 | 20 | 25 | 30 | 37 | 40 | 50 | 60 | 70 | 80 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 1181 | 1149 | 1163 | 1217 | 1173 | 1168 | 1226 | 1228 | 1100 | 1109 | 1111 |
| | | | 2002 | 1947 | 1972 | 2063 | 1988 | 1980 | 2078 | 2082 | 1864 | 1880 | 1883 |
| 230V 1Ph / 50Hz | Medium Speed | | 1055 | 1049 | 1037 | 1048 | 1034 | 1032 | 1147 | 1147 | 1038 | 1039 | 1035 |
| | | | 1789 | 1778 | 1758 | 1776 | 1752 | 1750 | 1945 | 1944 | 1760 | 1761 | 1755 |
| 230V 1Ph / 50Hz | Low Speed | | 890 | 901 | 894 | 963 | 935 | 906 | 1016 | 1001 | 914 | 893 | 880 |
| | | | 1508 | 1527 | 1516 | 1633 | 1585 | 1536 | 1722 | 1696 | 1550 | 1513 | 1492 |

42KDHT42N-718T

| Test Volt | ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 25 | 50 | 75 | 100 | 125 | 160 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 1353 | 1362 | 1375 | 1360 | 1366 | 1379 | 1358 |
| | | | 2294 | 2309 | 2331 | 2305 | 2315 | 2338 | 2302 |
| 230V 1Ph / 50Hz | Medium Speed | | 1113 | 1127 | 1140 | 1123 | 1130 | 1144 | 1126 |
| | | | 1886 | 1911 | 1933 | 1903 | 1916 | 1939 | 1909 |
| 230V 1Ph / 50Hz | Low Speed | | 963 | 970 | 979 | 967 | 972 | 980 | 975 |
| | | | 1632 | 1645 | 1660 | 1640 | 1648 | 1662 | 1652 |

## Air Flow Versus External Static Pressure ( ESP ) Data

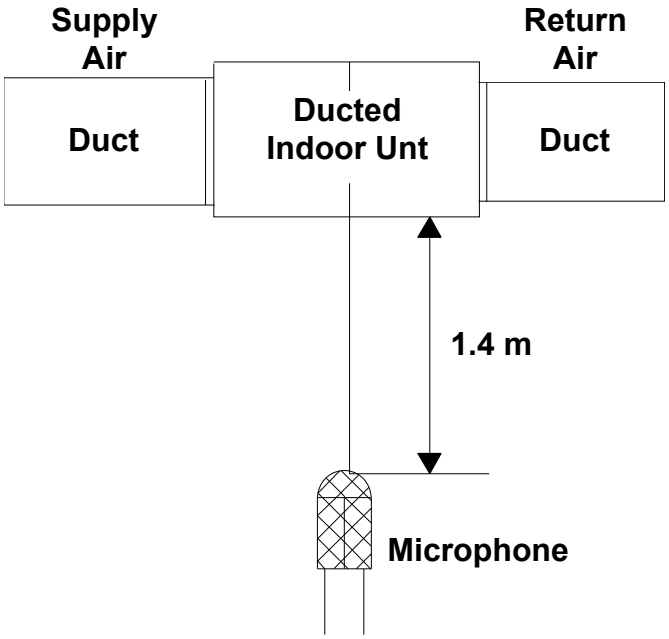
42KDHT48N-718T

| Test Volt | ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 25 | 50 | 75 | 100 | 125 | 160 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 1711 | 1729 | 1736 | 1726 | 1729 | 1739 | 1726 |
| | | | 2901 | 2930 | 2943 | 2926 | 2930 | 2948 | 2925 |
| 230V 1Ph / 50Hz | Medium Speed | | 1464 | 1472 | 1484 | 1467 | 1486 | 1488 | 1464 |
| | | | 2481 | 2495 | 2516 | 2486 | 2519 | 2522 | 2481 |
| 230V 1Ph / 50Hz | Low Speed | | 1250 | 1261 | 1270 | 1258 | 1265 | 1273 | 1255 |
| | | | 2119 | 2138 | 2152 | 2132 | 2145 | 2158 | 2128 |

42KDHT60N-718T

| Test Volt | ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|---|
| | | Pa | 0 | 25 | 50 | 75 | 100 | 125 | 160 |
| | Air Flow | | cfm | cfm | cfm | cfm | cfm | cfm | cfm |
| | | | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| 230V 1Ph / 50Hz | High Speed | | 1799 | 1791 | 1750 | 1766 | 1763 | 1752 | 1473 |
| | | | 3049 | 3035 | 2966 | 2993 | 2989 | 2970 | 2497 |
| 230V 1Ph / 50Hz | Medium Speed | | 1532 | 1549 | 1507 | 1559 | 1562 | 1635 | 1324 |
| | | | 2597 | 2625 | 2555 | 2642 | 2648 | 2771 | 2244 |
| 230V 1Ph / 50Hz | Low Speed | | 1205 | 1201 | 1153 | 1159 | 1147 | 1183 | 802 |
| | | | 2043 | 2036 | 1954 | 1965 | 1945 | 2006 | 1359 |

# 10. Sound Levels Versus External Static Pressure ( ESP ) Data




| 42KDMT12N-718 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.24 |
| | Pa | 0 | 10 | 20 | 25 | 30 | 40 | 50 | 60 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 44.2 | 43.8 | 43.4 | 43.2 | 43.1 | 42.7 | 42.3 | 41.9 |
| Medium Speed | | 40.0 | 39.6 | 39.2 | 37.5 | 38.8 | 38.4 | 38.0 | 37.6 |
| Low Speed | | 31.1 | 30.7 | 30.3 | 30.1 | 29.9 | 29.5 | 29.1 | 28.7 |

| 42KDMT18N-718 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.24 |
| | Pa | 0 | 10 | 20 | 25 | 30 | 40 | 50 | 60 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 46.6 | 46.2 | 45.8 | 45.6 | 45.6 | 45.1 | 44.7 | 44.3 |
| Medium Speed | | 43.7 | 43.3 | 42.9 | 42.7 | 42.5 | 42.1 | 41.7 | 41.3 |
| Low Speed | | 39.8 | 39.4 | 39.0 | 38.8 | 38.7 | 38.2 | 37.8 | 37.4 |

| 42KDMT24N-718 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ESP | in.wg | 0 | 0.04 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.24 |
| | Pa | 0 | 10 | 20 | 25 | 30 | 40 | 50 | 60 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 46.6 | 46.2 | 45.8 | 45.6 | 45.6 | 45.1 | 44.7 | 44.3 |
| Medium Speed | | 43.7 | 43.3 | 42.9 | 42.7 | 42.5 | 42.1 | 41.7 | 41.3 |
| Low Speed | | 39.8 | 39.4 | 39.0 | 38.8 | 38.7 | 38.2 | 37.8 | 37.4 |

## Sound Levels Versus External Static Pressure ( ESP ) Data

**42KDMT30N-718**

| ESP | in.wg | 0 | 0.04 | 0.08 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.36 | 0.40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pa | 0 | 10 | 20 | 30 | 37 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 51.4 | 51.0 | 50.6 | 49.4 | 50.3 | 50.0 | 49.9 | 49.5 | 48.7 | 48.4 | 48.0 | 47.6 |
| Medium Speed | | 47.5 | 47.1 | 46.7 | 46.5 | 46.3 | 45.0 | 45.9 | 45.1 | 44.7 | 44.3 | 43.9 | 43.5 |
| Low Speed | | 41.8 | 41.4 | 41.0 | 40.5 | 40.6 | 40.3 | 40.2 | 39.8 | 39.0 | 38.6 | 38.2 | 37.8 |

**42KDMT36N-718T**

| ESP | in.wg | 0 | 0.04 | 0.08 | 0.12 | 0.15 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.36 | 0.40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pa | 0 | 10 | 20 | 30 | 37 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 51.4 | 51.0 | 50.6 | 49.4 | 50.3 | 50.0 | 49.9 | 49.5 | 48.7 | 48.4 | 48.0 | 47.6 |
| Medium Speed | | 47.5 | 47.1 | 46.7 | 46.5 | 46.3 | 45.0 | 45.9 | 45.1 | 44.7 | 44.3 | 43.9 | 43.5 |
| Low Speed | | 41.8 | 41.4 | 41.0 | 40.5 | 40.6 | 40.3 | 40.2 | 39.8 | 39.0 | 38.6 | 38.2 | 37.8 |

**42KDHT42N-718T**

| ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|
| | Pa | 0 | 20 | 50 | 75 | 100 | 125 | 160 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 55.7 | 50.3 | 55.0 | 54.7 | 54.3 | 54.0 | 53.7 |
| Medium Speed | | 52.5 | 52.1 | 51.8 | 51.5 | 51.2 | 50.9 | 50.6 |
| Slow Speed | | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | 46.5 |

**42KDHT48N-718T**

| ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|
| | Pa | 0 | 20 | 50 | 75 | 100 | 125 | 160 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 55.7 | 50.3 | 55.0 | 54.7 | 54.3 | 54.0 | 53.7 |
| Medium Speed | | 52.5 | 52.1 | 51.8 | 51.5 | 51.2 | 50.9 | 50.6 |
| Slow Speed | | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | 46.5 |

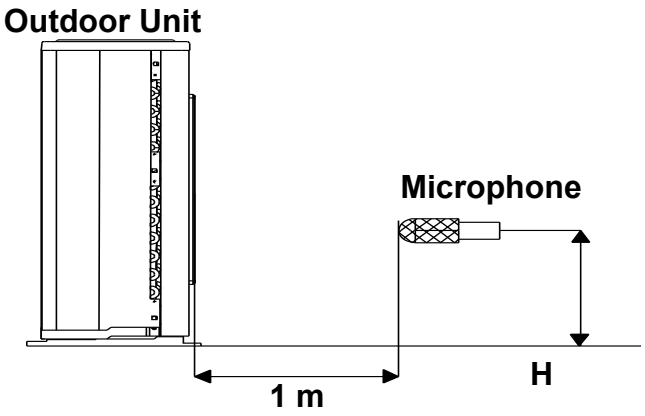
**42KDHT60N-718T**

| ESP | in.wg | 0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.64 |
|---|---|---|---|---|---|---|---|---|
| | Pa | 0 | 20 | 50 | 75 | 100 | 125 | 160 |
| Sound Level | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| High Speed | | 55.7 | 50.3 | 55.0 | 54.7 | 54.3 | 54.0 | 53.7 |
| Medium Speed | | 52.5 | 52.1 | 51.8 | 51.5 | 51.2 | 50.9 | 50.6 |
| Slow Speed | | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | 46.5 |

**Note :**
**Testing at 230V / 1 Ph / 50 Hz**

# 11. Sound Levels Data For Outdoor Units

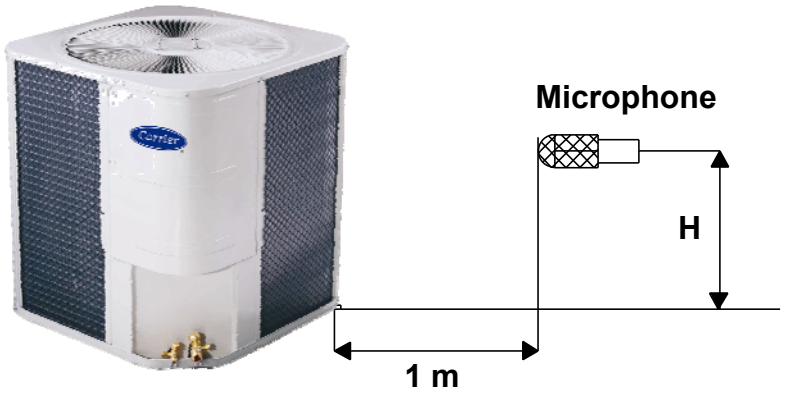
## 11.1 Sound Level Data of Outdoor Units




Note : H= 0.5 × height of outdoor unit

| Model | Sound level dB(A) |
|---|---|
| 38KDMT12N-718 | 56 |
| 38KDMT18N-718 | 61 |
| 38KDMT24N-718 | 64 |
| 38KDMT30N-718 | 59 |

## 11.2 Sound Level Data of Outdoor Units




Note : H= 0.5 × height of outdoor unit

| Model | Sound level dB(A) |
|---|---|
| 38KDMT36N-718T | 62 |
| 38KDHT42N-518T | 67 |
| 38KDHT48N-518T | 67 |
| 38KDHT60N-518T | 67 |

# 12. Operating Limits - Cooling

**COOLING**

| Difference | Dry Bulb Temp. C° | Wet Bulb Temp. C° |
|---|---|---|
| Indoor temperature | | |
| Maximum | 32 | 23 |
| Minimum | 21 | 15 |
| Outdoor temperature | | |
| Maximum | 52 | - |
| Minimum | 20 | - |

**MAIN POWER SUPPLY**

| System Model | Nominal Power Supply V/PH/HZ | Minimum Voltage | Maximum Voltage |
|---|---|---|---|
| 53KDMT12N-718 | 220-240/1/50 | 198 | 254 |
| 53KDMT18N-718 | | | |
| 53KDMT24N-718 | | | |
| 53KDMT30N-718 | | | |
| 53KDMT36N-718T | | | |
| 53KDHT42N-518T | 380-420/3/50 | 342 | 462 |
| 53KDHT48N-518T | | | |
| 53KDHT60N-518T | | | |
| 53KDHT72N-518T | | | |

**NOTES:**

* When the system is operated above or below these limits for a long time, system diagnostics may detect a malfunction and the unit will not operate properly.

# 13. System Cooling Performance Data

## Ducted Split System
## 53KDMT12N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT12N-718

38KDMT12N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 431 | 21 | 15 | 13470 | 10815 | 978 | 11925 | 10430 | 1115 | 11345 | 10285 | 1167 | 10185 | 9995 | 1270 |
| | | | 24 | 17 | 13835 | 11260 | 1042 | 12250 | 10860 | 1188 | 11655 | 10705 | 1243 | 10460 | 10400 | 1352 |
| | | | 27 | 19 | 14120 | 11350 | 1063 | 12500 | 10945 | 1212 | 11890 | 10790 | 1268 | 10675 | 10485 | 1380 |
| | | | 32 | 23 | 14400 | 13280 | 1116 | 12750 | 12750 | 1273 | 12130 | 12130 | 1331 | 10890 | 10890 | 1449 |
| | Medium | 373 | 21 | 15 | 12050 | 8640 | 968 | 10665 | 8330 | 1104 | 10150 | 8210 | 1155 | 9115 | 7980 | 1256 |
| | | | 24 | 17 | 12380 | 8995 | 1031 | 10960 | 8670 | 1176 | 10425 | 8550 | 1230 | 9360 | 8305 | 1338 |
| | | | 27 | 19 | 12630 | 9065 | 1052 | 11180 | 8740 | 1200 | 10635 | 8615 | 1255 | 9550 | 8370 | 1365 |
| | | | 32 | 23 | 12885 | 10610 | 1105 | 11405 | 10230 | 1260 | 10850 | 10080 | 1318 | 9745 | 9745 | 1433 |
| | Low | 304 | 21 | 15 | 11570 | 8080 | 953 | 10240 | 7790 | 1087 | 9745 | 7680 | 1138 | 8755 | 7465 | 1237 |
| | | | 24 | 17 | 11885 | 8415 | 1016 | 10525 | 8110 | 1158 | 10010 | 7995 | 1212 | 8990 | 7770 | 1318 |
| | | | 27 | 19 | 12125 | 8480 | 1036 | 10735 | 8175 | 1182 | 10210 | 8060 | 1236 | 9170 | 7830 | 1345 |
| | | | 32 | 23 | 12370 | 9925 | 1088 | 10950 | 9570 | 1241 | 10420 | 9425 | 1298 | 9360 | 9115 | 1412 |
| 0.08 in.wg 20 Pa | High | 432 | 21 | 15 | 13210 | 10685 | 988 | 11695 | 10300 | 1127 | 11125 | 10155 | 1179 | 9985 | 9865 | 1283 |
| | | | 24 | 17 | 13575 | 11120 | 1052 | 12010 | 10720 | 1200 | 11430 | 10570 | 1256 | 10260 | 10245 | 1366 |
| | | | 27 | 19 | 13850 | 11210 | 1074 | 12260 | 10805 | 1225 | 11660 | 10655 | 1282 | 10465 | 10350 | 1394 |
| | | | 32 | 23 | 14125 | 13120 | 1128 | 12505 | 12505 | 1286 | 11890 | 11890 | 1345 | 10675 | 10675 | 1464 |
| | Medium | 334 | 21 | 15 | 11820 | 8535 | 978 | 10465 | 8225 | 1116 | 9950 | 8110 | 1167 | 8935 | 7880 | 1270 |
| | | | 24 | 17 | 12140 | 8885 | 1042 | 10745 | 8560 | 1189 | 10225 | 8440 | 1244 | 9175 | 8205 | 1352 |
| | | | 27 | 19 | 12390 | 8955 | 1063 | 10965 | 8630 | 1213 | 10430 | 8510 | 1269 | 9360 | 7470 | 1380 |
| | | | 32 | 23 | 12635 | 10480 | 1116 | 11185 | 10100 | 1274 | 10635 | 9955 | 1332 | 9550 | 9550 | 1449 |
| | Low | 250 | 21 | 15 | 11350 | 7980 | 963 | 10045 | 7690 | 1099 | 9550 | 7580 | 1149 | 8575 | 7370 | 1251 |
| | | | 24 | 17 | 11660 | 8310 | 1026 | 10320 | 8010 | 1171 | 9815 | 7895 | 1225 | 8810 | 7670 | 1332 |
| | | | 27 | 19 | 11895 | 8375 | 1047 | 10530 | 8075 | 1195 | 10010 | 7960 | 1250 | 8990 | 6985 | 1359 |
| | | | 32 | 23 | 12130 | 9805 | 1099 | 10740 | 9450 | 1255 | 10215 | 9310 | 1312 | 9170 | 8935 | 1427 |
| 0.10 in.wg 25 Pa | High | 451 | 21 | 15 | 13145 | 10650 | 991 | 11635 | 10265 | 1130 | 11065 | 10120 | 1182 | 9930 | 9830 | 1286 |
| | | | 24 | 17 | 13505 | 11085 | 1055 | 11950 | 10685 | 1203 | 11370 | 10535 | 1259 | 10205 | 10205 | 1370 |
| | | | 27 | 19 | 13780 | 11175 | 1077 | 12195 | 10770 | 1228 | 11600 | 10620 | 1285 | 10410 | 10315 | 1398 |
| | | | 32 | 23 | 14055 | 13075 | 1131 | 12440 | 12440 | 1289 | 11830 | 11830 | 1349 | 10620 | 10620 | 1468 |
| | Medium | 361 | 21 | 15 | 11760 | 8505 | 981 | 10410 | 8195 | 1119 | 9895 | 8080 | 1170 | 8885 | 7855 | 1273 |
| | | | 24 | 17 | 12080 | 8855 | 1045 | 10690 | 8530 | 1192 | 10170 | 8410 | 1247 | 9125 | 8175 | 1356 |
| | | | 27 | 19 | 12325 | 8925 | 1066 | 10910 | 8600 | 1216 | 10375 | 8480 | 1272 | 9310 | 7240 | 1384 |
| | | | 32 | 23 | 12570 | 10445 | 1119 | 11130 | 10065 | 1277 | 10580 | 9920 | 1336 | 9500 | 9500 | 1453 |
| | Low | 280 | 21 | 15 | 11290 | 7955 | 966 | 9995 | 7665 | 1102 | 9500 | 7555 | 1152 | 8530 | 7345 | 1254 |
| | | | 24 | 17 | 11600 | 8280 | 1029 | 10265 | 7980 | 1174 | 9765 | 7865 | 1228 | 8760 | 7645 | 1336 |
| | | | 27 | 19 | 11835 | 8345 | 1050 | 10475 | 8045 | 1198 | 9960 | 7930 | 1253 | 8940 | 6770 | 1363 |
| | | | 32 | 23 | 12070 | 9770 | 1102 | 10685 | 9415 | 1258 | 10160 | 9280 | 1316 | 9120 | 8885 | 1431 |
| 0.12 in.wg 30 Pa | High | 414 | 21 | 15 | 13080 | 10620 | 994 | 11580 | 10235 | 1133 | 11010 | 10090 | 1185 | 9880 | 9800 | 1289 |
| | | | 24 | 17 | 13440 | 11050 | 1058 | 11890 | 10650 | 1206 | 11315 | 10505 | 1262 | 10155 | 10170 | 1374 |
| | | | 27 | 19 | 13715 | 11140 | 1080 | 12135 | 10735 | 1231 | 11545 | 10590 | 1288 | 10360 | 10285 | 1402 |
| | | | 32 | 23 | 13990 | 13035 | 1134 | 12380 | 12380 | 1292 | 11770 | 11770 | 1353 | 10570 | 10570 | 1472 |
| | Medium | 312 | 21 | 15 | 11705 | 8480 | 984 | 10360 | 8170 | 1122 | 9845 | 8055 | 1173 | 8840 | 7830 | 1276 |
| | | | 24 | 17 | 12020 | 8830 | 1048 | 10640 | 8505 | 1195 | 10120 | 8385 | 1250 | 9080 | 8150 | 1360 |
| | | | 27 | 19 | 12265 | 8900 | 1069 | 10860 | 8575 | 1219 | 10325 | 8455 | 1275 | 9265 | 7015 | 1388 |
| | | | 32 | 23 | 12510 | 10415 | 1122 | 11075 | 10035 | 1280 | 10530 | 9890 | 1340 | 9455 | 9455 | 1457 |
| | Low | 228 | 21 | 15 | 11235 | 7930 | 969 | 9950 | 7640 | 1105 | 9455 | 7530 | 1155 | 8485 | 7325 | 1257 |
| | | | 24 | 17 | 11545 | 8255 | 1032 | 10215 | 7955 | 1177 | 9720 | 7840 | 1231 | 8715 | 7620 | 1340 |
| | | | 27 | 19 | 11780 | 8320 | 1053 | 10425 | 8020 | 1201 | 9910 | 7905 | 1256 | 8895 | 6560 | 1367 |
| | | | 32 | 23 | 12010 | 9740 | 1105 | 10635 | 9385 | 1261 | 10110 | 9255 | 1320 | 9075 | 8840 | 1435 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT12N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT12N-718

38KDMT12N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.16 in.wg 40 Pa | High | 410 | 21 | 15 | 12950 | 10555 | 999 | 11465 | 10170 | 1139 | 10900 | 10025 | 1191 | 9780 | 9735 | 1296 |
| | | | 24 | 17 | 13310 | 10980 | 1063 | 11770 | 10580 | 1212 | 11200 | 10435 | 1269 | 10055 | 10090 | 1381 |
| | | | 27 | 19 | 13580 | 11070 | 1085 | 12015 | 10665 | 1238 | 11430 | 10520 | 1295 | 10255 | 10215 | 1409 |
| | | | 32 | 23 | 13850 | 12955 | 1140 | 12255 | 12255 | 1299 | 11650 | 11650 | 1360 | 10460 | 10460 | 1479 |
| | Medium | 323 | 21 | 15 | 11590 | 8425 | 989 | 10260 | 8115 | 1128 | 9745 | 8005 | 1179 | 8750 | 7780 | 1283 |
| | | | 24 | 17 | 11900 | 8775 | 1053 | 10530 | 8450 | 1202 | 10020 | 8330 | 1257 | 8985 | 8100 | 1367 |
| | | | 27 | 19 | 12145 | 8845 | 1074 | 10750 | 8520 | 1226 | 10220 | 8400 | 1282 | 9170 | 6565 | 1395 |
| | | | 32 | 23 | 12385 | 10350 | 1127 | 10965 | 9970 | 1287 | 10420 | 9825 | 1347 | 9355 | 9355 | 1465 |
| | Low | 228 | 21 | 15 | 11125 | 7880 | 974 | 9850 | 7590 | 1111 | 9355 | 7480 | 1160 | 8395 | 7275 | 1264 |
| | | | 24 | 17 | 11430 | 8200 | 1037 | 10110 | 7905 | 1184 | 9620 | 7790 | 1238 | 8625 | 7570 | 1347 |
| | | | 27 | 19 | 11665 | 8265 | 1058 | 10320 | 7970 | 1208 | 9810 | 7855 | 1263 | 8805 | 6135 | 1374 |
| | | | 32 | 23 | 11890 | 9680 | 1110 | 10530 | 9325 | 1268 | 10005 | 9195 | 1327 | 8980 | 8750 | 1442 |
| 0.20 in.wg 50 Pa | High | 382 | 21 | 15 | 12820 | 10485 | 1004 | 11345 | 10100 | 1145 | 10785 | 9955 | 1197 | 9675 | 9665 | 1302 |
| | | | 24 | 17 | 13175 | 10910 | 1068 | 11650 | 10510 | 1218 | 11085 | 10365 | 1275 | 9950 | 10010 | 1388 |
| | | | 27 | 19 | 13440 | 11000 | 1091 | 11890 | 10595 | 1244 | 11310 | 10450 | 1302 | 10145 | 10145 | 1416 |
| | | | 32 | 23 | 13710 | 12870 | 1146 | 12130 | 12130 | 1305 | 11530 | 11530 | 1367 | 10350 | 10350 | 1487 |
| | Medium | 302 | 21 | 15 | 11470 | 8370 | 994 | 10155 | 8060 | 1134 | 9640 | 7950 | 1185 | 8655 | 7730 | 1290 |
| | | | 24 | 17 | 11780 | 8715 | 1059 | 10420 | 8390 | 1208 | 9915 | 8270 | 1264 | 8890 | 8045 | 1374 |
| | | | 27 | 19 | 12020 | 8785 | 1080 | 10640 | 8460 | 1232 | 10115 | 8345 | 1289 | 9070 | 6110 | 1403 |
| | | | 32 | 23 | 12255 | 10280 | 1133 | 10855 | 9900 | 1294 | 10310 | 9760 | 1354 | 9255 | 9255 | 1473 |
| | Low | 234 | 21 | 15 | 11010 | 7830 | 979 | 9750 | 7540 | 1117 | 9255 | 7430 | 1166 | 8305 | 7225 | 1271 |
| | | | 24 | 17 | 11315 | 8145 | 1042 | 10005 | 7850 | 1190 | 9520 | 7735 | 1244 | 8530 | 7520 | 1354 |
| | | | 27 | 19 | 11545 | 8210 | 1064 | 10215 | 7915 | 1214 | 9710 | 7800 | 1270 | 8710 | 5710 | 1381 |
| | | | 32 | 23 | 11770 | 9615 | 1116 | 10420 | 9260 | 1275 | 9900 | 9135 | 1334 | 8880 | 8655 | 1450 |
| 0.24 in.wg 60 Pa | High | 342 | 21 | 15 | 12690 | 10420 | 1009 | 11230 | 10035 | 1151 | 10675 | 9890 | 1203 | 9575 | 9600 | 1308 |
| | | | 24 | 17 | 13045 | 10840 | 1073 | 11530 | 10440 | 1224 | 10975 | 10300 | 1281 | 9850 | 9935 | 1395 |
| | | | 27 | 19 | 13305 | 10930 | 1097 | 11770 | 10525 | 1250 | 11195 | 10385 | 1309 | 10040 | 10080 | 1423 |
| | | | 32 | 23 | 13575 | 12790 | 1152 | 12010 | 12010 | 1311 | 11410 | 11410 | 1374 | 10245 | 10245 | 1495 |
| | Medium | 322 | 21 | 15 | 11355 | 8320 | 999 | 10055 | 8010 | 1140 | 9540 | 7900 | 1191 | 8565 | 7680 | 1297 |
| | | | 24 | 17 | 11660 | 8660 | 1065 | 10315 | 8335 | 1214 | 9815 | 8215 | 1271 | 8800 | 7995 | 1381 |
| | | | 27 | 19 | 11900 | 8730 | 1086 | 10535 | 8405 | 1238 | 10015 | 8295 | 1296 | 8975 | 5660 | 1411 |
| | | | 32 | 23 | 12130 | 10215 | 1139 | 10745 | 9835 | 1301 | 10205 | 9700 | 1361 | 9160 | 9160 | 1481 |
| | Low | 230 | 21 | 15 | 10900 | 7780 | 984 | 9655 | 7490 | 1123 | 9160 | 7380 | 1172 | 8215 | 7180 | 1278 |
| | | | 24 | 17 | 11205 | 8095 | 1047 | 9905 | 7800 | 1196 | 9425 | 7685 | 1250 | 8440 | 7470 | 1361 |
| | | | 27 | 19 | 11430 | 8160 | 1070 | 10115 | 7865 | 1220 | 9610 | 7750 | 1277 | 8620 | 5290 | 1388 |
| | | | 32 | 23 | 11650 | 9555 | 1122 | 10315 | 9200 | 1282 | 9800 | 9080 | 1341 | 8785 | 8565 | 1458 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT18N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT18N-718

38KDMT18N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 541 | 21 | 15 | 17800 | 13735 | 1334 | 15995 | 13655 | 1529 | 15315 | 13630 | 1602 | 13965 | 13570 | 1748 |
| | | | 24 | 17 | 18285 | 14300 | 1421 | 16430 | 14215 | 1629 | 15735 | 14185 | 1706 | 14345 | 14130 | 1862 |
| | | | 27 | 19 | 18660 | 14415 | 1450 | 16765 | 14330 | 1662 | 16055 | 14300 | 1741 | 14635 | 14240 | 1900 |
| | | | 32 | 23 | 19030 | 16865 | 1522 | 17100 | 16765 | 1745 | 16380 | 16380 | 1828 | 14930 | 14930 | 1995 |
| | Medium | 506 | 21 | 15 | 16165 | 11275 | 1320 | 14525 | 11210 | 1513 | 13910 | 11185 | 1586 | 12680 | 9735 | 1731 |
| | | | 24 | 17 | 16610 | 11735 | 1406 | 14920 | 11665 | 1612 | 14290 | 11640 | 1689 | 13025 | 10135 | 1844 |
| | | | 27 | 19 | 16945 | 11830 | 1435 | 15225 | 11760 | 1645 | 14580 | 11735 | 1724 | 13290 | 10215 | 1882 |
| | | | 32 | 23 | 17285 | 13845 | 1507 | 15530 | 13760 | 1725 | 14875 | 13730 | 1810 | 13555 | 11950 | 1976 |
| | Low | 414 | 21 | 15 | 15520 | 10545 | 1300 | 13945 | 10485 | 1490 | 13355 | 10460 | 1562 | 12175 | 9105 | 1705 |
| | | | 24 | 17 | 15950 | 10975 | 1385 | 14325 | 10910 | 1588 | 13720 | 10885 | 1664 | 12505 | 9480 | 1816 |
| | | | 27 | 19 | 16270 | 11065 | 1413 | 14620 | 11000 | 1620 | 14000 | 10975 | 1698 | 12760 | 9555 | 1854 |
| | | | 32 | 23 | 16595 | 12950 | 1484 | 14910 | 12870 | 1699 | 14280 | 12840 | 1783 | 13015 | 11175 | 1946 |
| 0.08 in.wg 20 Pa | High | 557 | 21 | 15 | 17760 | 14010 | 1352 | 15955 | 13930 | 1550 | 15275 | 13895 | 1630 | 13925 | 13835 | 1786 |
| | | | 24 | 17 | 18240 | 14580 | 1440 | 16390 | 14500 | 1651 | 15695 | 14465 | 1740 | 14305 | 14265 | 1903 |
| | | | 27 | 19 | 18615 | 14700 | 1470 | 16725 | 14615 | 1684 | 16015 | 14580 | 1765 | 14595 | 14520 | 1942 |
| | | | 32 | 23 | 18985 | 17200 | 1544 | 17060 | 16990 | 1768 | 16335 | 16335 | 1853 | 14890 | 14890 | 2038 |
| | Medium | 533 | 21 | 15 | 16125 | 11495 | 1338 | 14490 | 11430 | 1534 | 13870 | 11405 | 1608 | 12645 | 11075 | 1755 |
| | | | 24 | 17 | 16570 | 11970 | 1425 | 14880 | 11900 | 1634 | 14255 | 11870 | 1729 | 12990 | 11525 | 1870 |
| | | | 27 | 19 | 16905 | 12065 | 1455 | 15185 | 11995 | 1667 | 14540 | 11965 | 1748 | 13255 | 11615 | 1908 |
| | | | 32 | 23 | 17245 | 14115 | 1528 | 15490 | 14035 | 1750 | 14835 | 13995 | 1835 | 13520 | 13200 | 2003 |
| | Low | 425 | 21 | 15 | 15485 | 10750 | 1318 | 13915 | 10690 | 1511 | 13320 | 10665 | 1584 | 12140 | 10355 | 1729 |
| | | | 24 | 17 | 15910 | 11195 | 1404 | 14290 | 11130 | 1609 | 13690 | 11100 | 1703 | 12475 | 10780 | 1842 |
| | | | 27 | 19 | 16230 | 11285 | 1433 | 14580 | 11220 | 1642 | 13960 | 11190 | 1722 | 12730 | 10860 | 1879 |
| | | | 32 | 23 | 16555 | 13200 | 1505 | 14875 | 13125 | 1724 | 14240 | 13090 | 1807 | 12980 | 12345 | 1973 |
| 25 in.wg 25 Pa | High | 568 | 21 | 15 | 17745 | 14075 | 1357 | 15940 | 13995 | 1555 | 15265 | 13960 | 1637 | 13915 | 13900 | 1795 |
| | | | 24 | 17 | 18225 | 14650 | 1445 | 16375 | 14570 | 1656 | 15680 | 14530 | 1748 | 14295 | 14295 | 1913 |
| | | | 27 | 19 | 18600 | 14770 | 1475 | 16710 | 14685 | 1690 | 16000 | 14650 | 1771 | 14585 | 14585 | 1952 |
| | | | 32 | 23 | 18970 | 17280 | 1549 | 17045 | 17045 | 1774 | 16320 | 16320 | 1859 | 14880 | 14880 | 2049 |
| | Medium | 519 | 21 | 15 | 16115 | 11550 | 1343 | 14480 | 11485 | 1539 | 13860 | 11455 | 1614 | 12635 | 11405 | 1761 |
| | | | 24 | 17 | 16555 | 12025 | 1430 | 14870 | 11955 | 1639 | 14245 | 11925 | 1739 | 12980 | 11870 | 1876 |
| | | | 27 | 19 | 16890 | 12120 | 1460 | 15175 | 12050 | 1673 | 14530 | 12020 | 1754 | 13245 | 11960 | 1914 |
| | | | 32 | 23 | 17230 | 14180 | 1533 | 15480 | 14100 | 1756 | 14820 | 14060 | 1841 | 13510 | 13510 | 2010 |
| | Low | 416 | 21 | 15 | 15475 | 10800 | 1323 | 13905 | 10740 | 1516 | 13310 | 10715 | 1590 | 12130 | 10665 | 1735 |
| | | | 24 | 17 | 15895 | 11245 | 1409 | 14280 | 11180 | 1614 | 13680 | 11150 | 1713 | 12465 | 11100 | 1848 |
| | | | 27 | 19 | 16215 | 11335 | 1438 | 14570 | 11270 | 1648 | 13950 | 11240 | 1728 | 12720 | 11185 | 1885 |
| | | | 32 | 23 | 16545 | 13260 | 1510 | 14865 | 13185 | 1730 | 14230 | 13150 | 1813 | 12970 | 12635 | 1980 |
| 0.12 in.wg 30 Pa | High | 530 | 21 | 15 | 17735 | 14145 | 1362 | 15930 | 14065 | 1560 | 15255 | 14030 | 1644 | 13905 | 13970 | 1804 |
| | | | 24 | 17 | 18215 | 14720 | 1450 | 16365 | 14645 | 1661 | 15670 | 14600 | 1756 | 14285 | 14330 | 1923 |
| | | | 27 | 19 | 18590 | 14845 | 1480 | 16700 | 14760 | 1696 | 15990 | 14720 | 1777 | 14575 | 14655 | 1962 |
| | | | 32 | 23 | 18960 | 17365 | 1554 | 17035 | 17105 | 1780 | 16310 | 16310 | 1865 | 14870 | 14870 | 2060 |
| | Medium | 478 | 21 | 15 | 16105 | 11605 | 1348 | 14475 | 11540 | 1544 | 13850 | 11510 | 1620 | 12630 | 11740 | 1767 |
| | | | 24 | 17 | 16545 | 12085 | 1435 | 14860 | 12015 | 1644 | 14240 | 11985 | 1749 | 12975 | 12220 | 1882 |
| | | | 27 | 19 | 16880 | 12180 | 1465 | 15165 | 12110 | 1679 | 14520 | 12080 | 1760 | 13240 | 12310 | 1920 |
| | | | 32 | 23 | 17220 | 14250 | 1538 | 15470 | 14170 | 1762 | 14810 | 14130 | 1847 | 13505 | 13825 | 2017 |
| | Low | 365 | 21 | 15 | 15470 | 10855 | 1328 | 13900 | 10795 | 1521 | 13305 | 10770 | 1596 | 12125 | 10980 | 1741 |
| | | | 24 | 17 | 15885 | 11300 | 1414 | 14275 | 11235 | 1619 | 13675 | 11205 | 1723 | 12460 | 11425 | 1854 |
| | | | 27 | 19 | 16205 | 11390 | 1443 | 14560 | 11325 | 1654 | 13940 | 11295 | 1734 | 12715 | 11515 | 1891 |
| | | | 32 | 23 | 16535 | 13325 | 1515 | 14860 | 13250 | 1736 | 14220 | 13215 | 1819 | 12965 | 12930 | 1987 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT18N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT18N-718

38KDMT18N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.16 in.wg 40 Pa | High | 536 | 21 | 15 | 17715 | 14280 | 1371 | 15910 | 14200 | 1571 | 15235 | 14160 | 1658 | 13885 | 14100 | 1823 |
| | | | 24 | 17 | 18190 | 14860 | 1459 | 16345 | 14785 | 1672 | 15650 | 14740 | 1773 | 14265 | 14395 | 1944 |
| | | | 27 | 19 | 18565 | 14985 | 1490 | 16680 | 14900 | 1707 | 15970 | 14860 | 1789 | 14555 | 14795 | 1983 |
| | | | 32 | 23 | 18935 | 17530 | 1565 | 17015 | 17215 | 1791 | 16285 | 16285 | 1878 | 14850 | 14850 | 2081 |
| | Medium | 490 | 21 | 15 | 16085 | 11715 | 1357 | 14455 | 11650 | 1555 | 13830 | 11620 | 1631 | 12610 | 12410 | 1779 |
| | | | 24 | 17 | 16525 | 12200 | 1444 | 14840 | 12130 | 1655 | 14220 | 12100 | 1769 | 12955 | 12915 | 1895 |
| | | | 27 | 19 | 16860 | 12295 | 1475 | 15145 | 12225 | 1690 | 14500 | 12195 | 1772 | 13220 | 13010 | 1933 |
| | | | 32 | 23 | 17200 | 14385 | 1549 | 15450 | 14305 | 1775 | 14790 | 14260 | 1860 | 13485 | 14450 | 2030 |
| | Low | 399 | 21 | 15 | 15450 | 10955 | 1337 | 13885 | 10895 | 1532 | 13285 | 10870 | 1607 | 12105 | 11605 | 1753 |
| | | | 24 | 17 | 15865 | 11410 | 1423 | 14255 | 11345 | 1630 | 13660 | 11310 | 1742 | 12445 | 12075 | 1867 |
| | | | 27 | 19 | 16185 | 11500 | 1453 | 14540 | 11435 | 1665 | 13920 | 11400 | 1746 | 12700 | 12165 | 1904 |
| | | | 32 | 23 | 16515 | 13450 | 1526 | 14840 | 13375 | 1749 | 14200 | 13340 | 1831 | 12945 | 13515 | 2000 |
| 0.20 in.wg 50 Pa | High | 569 | 21 | 15 | 17690 | 14415 | 1380 | 15885 | 14335 | 1581 | 15215 | 14290 | 1672 | 13865 | 14230 | 1842 |
| | | | 24 | 17 | 18165 | 15000 | 1469 | 16320 | 14925 | 1683 | 15625 | 14875 | 1790 | 14245 | 14460 | 1964 |
| | | | 27 | 19 | 18540 | 15125 | 1500 | 16655 | 15040 | 1718 | 15945 | 15000 | 1801 | 14535 | 14930 | 2004 |
| | | | 32 | 23 | 18910 | 17695 | 1576 | 16990 | 17325 | 1803 | 16260 | 16260 | 1890 | 14830 | 14830 | 2103 |
| | Medium | 523 | 21 | 15 | 16065 | 11825 | 1366 | 14435 | 11760 | 1565 | 13810 | 11725 | 1642 | 12590 | 13075 | 1791 |
| | | | 24 | 17 | 16500 | 12315 | 1454 | 14820 | 12245 | 1666 | 14200 | 12210 | 1789 | 12935 | 13605 | 1908 |
| | | | 27 | 19 | 16835 | 12410 | 1485 | 15125 | 12340 | 1701 | 14480 | 12305 | 1784 | 13200 | 13705 | 1946 |
| | | | 32 | 23 | 17175 | 14515 | 1559 | 15430 | 14440 | 1787 | 14765 | 14390 | 1872 | 13465 | 15070 | 2044 |
| | Low | 428 | 21 | 15 | 15430 | 11055 | 1346 | 13865 | 10995 | 1542 | 13265 | 10970 | 1618 | 12085 | 12225 | 1765 |
| | | | 24 | 17 | 15840 | 11515 | 1433 | 14235 | 11450 | 1640 | 13640 | 11415 | 1762 | 12425 | 12720 | 1880 |
| | | | 27 | 19 | 16160 | 11605 | 1463 | 14520 | 11540 | 1676 | 13900 | 11505 | 1758 | 12680 | 12815 | 1916 |
| | | | 32 | 23 | 16495 | 13570 | 1536 | 14820 | 13500 | 1761 | 14180 | 13460 | 1843 | 12925 | 14095 | 2014 |
| 0.24 in.wg 60 Pa | High | 570 | 21 | 15 | 17670 | 14555 | 1389 | 15865 | 14475 | 1591 | 15195 | 14425 | 1686 | 13845 | 14365 | 1861 |
| | | | 24 | 17 | 18145 | 15140 | 1479 | 16300 | 15070 | 1694 | 15605 | 15015 | 1807 | 14225 | 14530 | 1984 |
| | | | 27 | 19 | 18520 | 15270 | 1510 | 16635 | 15185 | 1729 | 15925 | 15140 | 1813 | 14515 | 15070 | 2025 |
| | | | 32 | 23 | 18890 | 17865 | 1587 | 16970 | 17440 | 1815 | 16240 | 16240 | 1902 | 14810 | 14810 | 2125 |
| | Medium | 523 | 21 | 15 | 16045 | 11935 | 1375 | 14420 | 11870 | 1575 | 13790 | 11835 | 1653 | 12575 | 13745 | 1803 |
| | | | 24 | 17 | 16480 | 12435 | 1464 | 14800 | 12365 | 1677 | 14185 | 12325 | 1809 | 12920 | 14300 | 1921 |
| | | | 27 | 19 | 16815 | 12530 | 1495 | 15105 | 12460 | 1712 | 14460 | 12420 | 1796 | 13185 | 14405 | 1959 |
| | | | 32 | 23 | 17155 | 14650 | 1569 | 15410 | 14580 | 1799 | 14745 | 14525 | 1884 | 13450 | 15695 | 2058 |
| | Low | 440 | 21 | 15 | 15415 | 11160 | 1355 | 13850 | 11100 | 1552 | 13250 | 11075 | 1629 | 12070 | 12850 | 1777 |
| | | | 24 | 17 | 15820 | 11625 | 1443 | 14220 | 11560 | 1650 | 13625 | 11525 | 1782 | 12410 | 13370 | 1893 |
| | | | 27 | 19 | 16140 | 11715 | 1473 | 14500 | 11650 | 1687 | 13880 | 11615 | 1770 | 12665 | 13470 | 1928 |
| | | | 32 | 23 | 16475 | 13695 | 1546 | 14805 | 13630 | 1773 | 14160 | 13585 | 1855 | 12910 | 14680 | 2028 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT24N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT24N-718

38KDMT24N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 740 | 21 | 15 | 23755 | 17930 | 1774 | 21685 | 17920 | 2041 | 20910 | 17915 | 2141 | 19360 | 17915 | 2341 |
| | | | 24 | 17 | 24405 | 18665 | 1889 | 22275 | 18655 | 2174 | 21480 | 18650 | 2280 | 19885 | 18645 | 2494 |
| | | | 27 | 19 | 24900 | 18815 | 1928 | 22730 | 18805 | 2218 | 21915 | 18800 | 2327 | 20290 | 18795 | 2545 |
| | | | 32 | 23 | 25400 | 22015 | 2024 | 23185 | 22000 | 2329 | 22355 | 21995 | 2443 | 20695 | 20695 | 2672 |
| | Medium | 654 | 21 | 15 | 21135 | 14320 | 1732 | 19285 | 14315 | 1994 | 18595 | 14310 | 2091 | 17210 | 14305 | 2286 |
| | | | 24 | 17 | 21710 | 14905 | 1845 | 19810 | 14900 | 2124 | 19100 | 14895 | 2227 | 17680 | 14890 | 2435 |
| | | | 27 | 19 | 22150 | 15025 | 1883 | 20215 | 15020 | 2167 | 19490 | 15015 | 2273 | 18040 | 15010 | 2485 |
| | | | 32 | 23 | 22595 | 17580 | 1977 | 20620 | 17575 | 2275 | 19880 | 17570 | 2387 | 18400 | 17565 | 2609 |
| | Low | 579 | 21 | 15 | 20290 | 13390 | 1706 | 18515 | 13385 | 1964 | 17855 | 13380 | 2060 | 16525 | 13380 | 2252 |
| | | | 24 | 17 | 20845 | 13940 | 1817 | 19020 | 13935 | 2092 | 18340 | 13930 | 2194 | 16975 | 13925 | 2398 |
| | | | 27 | 19 | 21265 | 14050 | 1855 | 19410 | 14045 | 2134 | 18715 | 14040 | 2239 | 17320 | 14035 | 2448 |
| | | | 32 | 23 | 21695 | 16440 | 1947 | 19800 | 16435 | 2241 | 19085 | 16430 | 2351 | 17665 | 16425 | 2570 |
| 0.08 in.wg 20 Pa | High | 772 | 21 | 15 | 23835 | 18655 | 1810 | 21755 | 18645 | 2083 | 20975 | 18645 | 2185 | 19420 | 18640 | 2390 |
| | | | 24 | 17 | 24485 | 19425 | 1927 | 22350 | 19415 | 2218 | 21545 | 19410 | 2327 | 19945 | 19405 | 2546 |
| | | | 27 | 19 | 24980 | 19575 | 1967 | 22805 | 19565 | 2264 | 21985 | 19560 | 2375 | 20350 | 19555 | 2598 |
| | | | 32 | 23 | 25480 | 22905 | 2066 | 23260 | 22895 | 2377 | 22425 | 22890 | 2493 | 20760 | 20760 | 2727 |
| | Medium | 682 | 21 | 15 | 21205 | 14900 | 1767 | 19355 | 14895 | 2034 | 18655 | 14890 | 2134 | 17270 | 14885 | 2333 |
| | | | 24 | 17 | 21780 | 15505 | 1883 | 19880 | 15500 | 2167 | 19165 | 15495 | 2273 | 17740 | 15490 | 2485 |
| | | | 27 | 19 | 22225 | 15630 | 1921 | 20285 | 15625 | 2211 | 19555 | 15620 | 2320 | 18100 | 15615 | 2536 |
| | | | 32 | 23 | 22670 | 18290 | 2017 | 20695 | 18285 | 2321 | 19945 | 18275 | 2436 | 18460 | 18270 | 2663 |
| | Low | 602 | 21 | 15 | 20360 | 13930 | 1740 | 18585 | 13925 | 2003 | 17915 | 13920 | 2102 | 16580 | 13920 | 2298 |
| | | | 24 | 17 | 20910 | 14500 | 1855 | 19085 | 14495 | 2134 | 18400 | 14490 | 2240 | 17030 | 14485 | 2448 |
| | | | 27 | 19 | 21340 | 14615 | 1893 | 19475 | 14610 | 2178 | 18775 | 14605 | 2285 | 17380 | 14605 | 2498 |
| | | | 32 | 23 | 21765 | 17100 | 1987 | 19870 | 17100 | 2287 | 19150 | 17090 | 2399 | 17725 | 17085 | 2623 |
| 0.10 in.wg 25 Pa | High | 811 | 21 | 15 | 23850 | 18835 | 1819 | 21770 | 18825 | 2093 | 20990 | 18825 | 2196 | 19430 | 18820 | 2402 |
| | | | 24 | 17 | 24500 | 19610 | 1937 | 22365 | 19600 | 2229 | 21560 | 19595 | 2339 | 19960 | 19590 | 2559 |
| | | | 27 | 19 | 25000 | 19765 | 1977 | 22820 | 19755 | 2275 | 22000 | 19750 | 2387 | 20365 | 19745 | 2611 |
| | | | 32 | 23 | 25500 | 23125 | 2076 | 23275 | 23115 | 2389 | 22440 | 23110 | 2506 | 20775 | 20775 | 2741 |
| | Medium | 711 | 21 | 15 | 21220 | 15040 | 1776 | 19370 | 15035 | 2044 | 18670 | 15030 | 2145 | 17280 | 15025 | 2345 |
| | | | 24 | 17 | 21795 | 15655 | 1892 | 19895 | 15650 | 2178 | 19180 | 15645 | 2285 | 17750 | 15640 | 2498 |
| | | | 27 | 19 | 22240 | 15780 | 1931 | 20300 | 15775 | 2222 | 19570 | 15770 | 2332 | 18110 | 15765 | 2549 |
| | | | 32 | 23 | 22685 | 18465 | 2027 | 20710 | 18460 | 2333 | 19960 | 18450 | 2448 | 18475 | 18445 | 2676 |
| | Low | 618 | 21 | 15 | 20375 | 14065 | 1749 | 18600 | 14060 | 2013 | 17925 | 14055 | 2113 | 16590 | 14050 | 2310 |
| | | | 24 | 17 | 20925 | 14640 | 1864 | 19100 | 14635 | 2145 | 18415 | 14630 | 2251 | 17040 | 14625 | 2461 |
| | | | 27 | 19 | 21355 | 14755 | 1902 | 19490 | 14750 | 2189 | 18790 | 14745 | 2297 | 17390 | 14745 | 2511 |
| | | | 32 | 23 | 21780 | 17265 | 1997 | 19885 | 17265 | 2298 | 19165 | 17255 | 2411 | 17740 | 17250 | 2636 |
| 0.12 in.wg 30 Pa | High | 785 | 21 | 15 | 23870 | 19020 | 1828 | 21790 | 19010 | 2103 | 21010 | 19010 | 2207 | 19445 | 19005 | 2414 |
| | | | 24 | 17 | 24520 | 19800 | 1947 | 22385 | 19790 | 2240 | 21580 | 19785 | 2351 | 19975 | 19780 | 2572 |
| | | | 27 | 19 | 25020 | 19955 | 1987 | 22840 | 19945 | 2286 | 22020 | 19940 | 2399 | 20380 | 19935 | 2624 |
| | | | 32 | 23 | 25520 | 23350 | 2086 | 23295 | 23340 | 2401 | 22460 | 23335 | 2519 | 20795 | 20795 | 2755 |
| | Medium | 684 | 21 | 15 | 21240 | 15185 | 1785 | 19390 | 15180 | 2054 | 18685 | 15175 | 2156 | 17295 | 15170 | 2357 |
| | | | 24 | 17 | 21815 | 15805 | 1901 | 19915 | 15800 | 2189 | 19200 | 15795 | 2297 | 17765 | 15790 | 2511 |
| | | | 27 | 19 | 22260 | 15935 | 1941 | 20320 | 15930 | 2233 | 19590 | 15925 | 2344 | 18125 | 15920 | 2562 |
| | | | 32 | 23 | 22705 | 18645 | 2037 | 20730 | 18640 | 2345 | 19980 | 18630 | 2460 | 18490 | 18625 | 2689 |
| | Low | 567 | 21 | 15 | 20395 | 14200 | 1758 | 18620 | 14195 | 2023 | 17940 | 14190 | 2124 | 16605 | 14185 | 2322 |
| | | | 24 | 17 | 20945 | 14780 | 1873 | 19120 | 14775 | 2156 | 18430 | 14770 | 2262 | 17055 | 14765 | 2474 |
| | | | 27 | 19 | 21375 | 14900 | 1911 | 19510 | 14895 | 2200 | 18805 | 14890 | 2309 | 17405 | 14890 | 2524 |
| | | | 32 | 23 | 21800 | 17430 | 2007 | 19905 | 17435 | 2309 | 19185 | 17420 | 2423 | 17755 | 17415 | 2649 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT24N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT24N-718

38KDMT24N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.16 in.wg 40 Pa | High | 792 | 21 | 15 | 23910 | 19380 | 1846 | 21825 | 19370 | 2124 | 21040 | 19375 | 2229 | 19475 | 19365 | 2439 |
| | | | 24 | 17 | 24560 | 20180 | 1966 | 22420 | 20170 | 2262 | 21610 | 20165 | 2374 | 20005 | 20160 | 2598 |
| | | | 27 | 19 | 25060 | 20335 | 2006 | 22875 | 20325 | 2309 | 22055 | 20320 | 2423 | 20410 | 20315 | 2651 |
| | | | 32 | 23 | 25560 | 23795 | 2107 | 23330 | 23785 | 2425 | 22495 | 23780 | 2544 | 20825 | 20825 | 2782 |
| | Medium | 701 | 21 | 15 | 21275 | 15475 | 1802 | 19425 | 15470 | 2074 | 18715 | 15465 | 2177 | 17325 | 15460 | 2380 |
| | | | 24 | 17 | 21850 | 16105 | 1920 | 19950 | 16100 | 2210 | 19230 | 16095 | 2320 | 17795 | 16090 | 2536 |
| | | | 27 | 19 | 22295 | 16235 | 1960 | 20355 | 16230 | 2255 | 19620 | 16225 | 2367 | 18155 | 16220 | 2587 |
| | | | 32 | 23 | 22740 | 19000 | 2057 | 20765 | 18995 | 2368 | 20010 | 18980 | 2485 | 18520 | 18975 | 2716 |
| | Low | 605 | 21 | 15 | 20430 | 14470 | 1775 | 18655 | 14465 | 2042 | 17970 | 14460 | 2145 | 16630 | 14455 | 2345 |
| | | | 24 | 17 | 20975 | 15060 | 1892 | 19150 | 15055 | 2177 | 18460 | 15050 | 2285 | 17080 | 15045 | 2499 |
| | | | 27 | 19 | 21410 | 15180 | 1930 | 19540 | 15175 | 2222 | 18835 | 15170 | 2332 | 17435 | 15175 | 2549 |
| | | | 32 | 23 | 21835 | 17760 | 2027 | 19940 | 17765 | 2332 | 19215 | 17750 | 2447 | 17785 | 17745 | 2676 |
| 0.20 in.wg 50 Pa | High | 811 | 21 | 15 | 23945 | 19740 | 1864 | 21855 | 19730 | 2145 | 21070 | 19735 | 2251 | 19500 | 19725 | 2463 |
| | | | 24 | 17 | 24595 | 20555 | 1985 | 22455 | 20545 | 2284 | 21640 | 20540 | 2398 | 20035 | 20535 | 2624 |
| | | | 27 | 19 | 25100 | 20715 | 2026 | 22910 | 20705 | 2332 | 22085 | 20700 | 2447 | 20440 | 20695 | 2677 |
| | | | 32 | 23 | 25600 | 24235 | 2128 | 23365 | 24230 | 2449 | 22525 | 24225 | 2569 | 20855 | 20855 | 2810 |
| | Medium | 707 | 21 | 15 | 21305 | 15760 | 1820 | 19455 | 15755 | 2094 | 18745 | 15750 | 2199 | 17350 | 15745 | 2404 |
| | | | 24 | 17 | 21880 | 16405 | 1939 | 19980 | 16400 | 2232 | 19260 | 16395 | 2343 | 17820 | 16390 | 2561 |
| | | | 27 | 19 | 22330 | 16535 | 1979 | 20385 | 16530 | 2277 | 19650 | 16525 | 2391 | 18180 | 16520 | 2613 |
| | | | 32 | 23 | 22775 | 19350 | 2077 | 20800 | 19345 | 2391 | 20040 | 19330 | 2509 | 18550 | 19325 | 2743 |
| | Low | 612 | 21 | 15 | 20460 | 14740 | 1792 | 18685 | 14735 | 2062 | 17995 | 14730 | 2166 | 16655 | 14720 | 2368 |
| | | | 24 | 17 | 21005 | 15340 | 1911 | 19180 | 15335 | 2198 | 18490 | 15330 | 2308 | 17105 | 15325 | 2524 |
| | | | 27 | 19 | 21445 | 15460 | 1949 | 19570 | 15455 | 2244 | 18865 | 15450 | 2355 | 17460 | 15455 | 2574 |
| | | | 32 | 23 | 21865 | 18090 | 2047 | 19970 | 18095 | 2355 | 19245 | 18080 | 2471 | 17815 | 18075 | 2702 |
| 0.24 in.wg 60 Pa | High | 790 | 21 | 15 | 23985 | 20105 | 1882 | 21890 | 20095 | 2166 | 21105 | 20100 | 2273 | 19530 | 20090 | 2487 |
| | | | 24 | 17 | 24635 | 20935 | 2004 | 22495 | 20925 | 2306 | 21675 | 20920 | 2422 | 20065 | 20915 | 2650 |
| | | | 27 | 19 | 25140 | 21095 | 2046 | 22950 | 21085 | 2355 | 22120 | 21080 | 2471 | 20470 | 21075 | 2703 |
| | | | 32 | 23 | 25640 | 24680 | 2149 | 23405 | 24680 | 2473 | 22560 | 24675 | 2594 | 20890 | 20890 | 2838 |
| | Medium | 733 | 21 | 15 | 21340 | 16050 | 1838 | 19490 | 16045 | 2114 | 18775 | 16040 | 2221 | 17380 | 16035 | 2428 |
| | | | 24 | 17 | 21915 | 16705 | 1958 | 20015 | 16700 | 2254 | 19295 | 16695 | 2366 | 17850 | 16690 | 2586 |
| | | | 27 | 19 | 22370 | 16840 | 1998 | 20420 | 16835 | 2299 | 19685 | 16830 | 2415 | 18210 | 16825 | 2639 |
| | | | 32 | 23 | 22815 | 19705 | 2097 | 20840 | 19700 | 2414 | 20075 | 19685 | 2533 | 18580 | 19680 | 2770 |
| | Low | 662 | 21 | 15 | 20495 | 15010 | 1809 | 18720 | 15005 | 2082 | 18025 | 15000 | 2187 | 16685 | 14990 | 2391 |
| | | | 24 | 17 | 21040 | 15620 | 1930 | 19215 | 15615 | 2219 | 18520 | 15610 | 2331 | 17135 | 15605 | 2549 |
| | | | 27 | 19 | 21485 | 15745 | 1968 | 19605 | 15740 | 2266 | 18895 | 15735 | 2378 | 17490 | 15740 | 2599 |
| | | | 32 | 23 | 21900 | 18420 | 2067 | 20005 | 18430 | 2378 | 19280 | 18410 | 2495 | 17845 | 18405 | 2728 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT30N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT30N-718

38KDMT30N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 1181 | 21 | 15 | 34440 | 28640 | 2802 | 31330 | 27900 | 3189 | 30165 | 27625 | 3334 | 27835 | 27070 | 3624 |
| | | | 24 | 17 | 35380 | 29810 | 2985 | 32185 | 29040 | 3397 | 30990 | 28755 | 3551 | 28590 | 28180 | 3860 |
| | | | 27 | 19 | 36100 | 30050 | 3046 | 32840 | 29275 | 3466 | 31620 | 28985 | 3624 | 29175 | 28405 | 3939 |
| | | | 32 | 23 | 36825 | 35160 | 3198 | 33500 | 33500 | 3639 | 32255 | 32255 | 3805 | 29760 | 29760 | 4136 |
| | Medium | 1055 | 21 | 15 | 30210 | 24085 | 2743 | 27485 | 23470 | 3122 | 26460 | 23235 | 3264 | 24415 | 22775 | 3548 |
| | | | 24 | 17 | 31035 | 25070 | 2922 | 28235 | 24430 | 3326 | 27180 | 24185 | 3477 | 25080 | 23705 | 3780 |
| | | | 27 | 19 | 31665 | 25270 | 2982 | 28810 | 24625 | 3394 | 27735 | 24380 | 3548 | 25590 | 23895 | 3857 |
| | | | 32 | 23 | 32300 | 29565 | 3131 | 29390 | 28810 | 3564 | 28290 | 28290 | 3725 | 26105 | 26105 | 4050 |
| | Low | 890 | 21 | 15 | 29005 | 22520 | 2702 | 26390 | 21945 | 3075 | 25405 | 21725 | 3215 | 23440 | 21295 | 3495 |
| | | | 24 | 17 | 29795 | 23445 | 2878 | 27110 | 22845 | 3276 | 26095 | 22615 | 3425 | 24080 | 22165 | 3723 |
| | | | 27 | 19 | 30400 | 23630 | 2937 | 27660 | 23025 | 3343 | 26630 | 22800 | 3495 | 24570 | 22345 | 3799 |
| | | | 32 | 23 | 31010 | 27645 | 3084 | 28215 | 26940 | 3511 | 27160 | 26455 | 3669 | 25065 | 24410 | 3989 |
| 0.08 in.wg 20 Pa | High | 1136 | 21 | 15 | 34315 | 28590 | 2818 | 31215 | 27855 | 3207 | 30055 | 27580 | 3353 | 27735 | 27025 | 3645 |
| | | | 24 | 17 | 35250 | 29760 | 3002 | 32070 | 28990 | 3416 | 30875 | 28705 | 3572 | 28485 | 28135 | 3882 |
| | | | 27 | 19 | 35965 | 30000 | 3063 | 32720 | 29225 | 3486 | 31505 | 28935 | 3645 | 29070 | 28360 | 3961 |
| | | | 32 | 23 | 36690 | 35100 | 3216 | 33380 | 33850 | 3660 | 32135 | 33090 | 3827 | 29650 | 29650 | 4159 |
| | Medium | 1037 | 21 | 15 | 30105 | 24040 | 2759 | 27390 | 23430 | 3140 | 25860 | 23195 | 3283 | 24325 | 22730 | 3568 |
| | | | 24 | 17 | 30925 | 25025 | 2939 | 28135 | 24385 | 3344 | 27085 | 24140 | 3498 | 24990 | 23660 | 3801 |
| | | | 27 | 19 | 31555 | 25225 | 2999 | 28705 | 24580 | 3413 | 27640 | 24335 | 3569 | 25495 | 23850 | 3879 |
| | | | 32 | 23 | 32185 | 29515 | 3149 | 29285 | 28760 | 3583 | 28190 | 28365 | 3689 | 26010 | 26010 | 4073 |
| | Low | 894 | 21 | 15 | 28900 | 22480 | 2717 | 26295 | 21905 | 3093 | 24830 | 21685 | 3234 | 23355 | 21255 | 3514 |
| | | | 24 | 17 | 29690 | 23405 | 2895 | 27015 | 22805 | 3294 | 26005 | 22575 | 3445 | 23990 | 22125 | 3744 |
| | | | 27 | 19 | 30295 | 23590 | 2954 | 27565 | 22985 | 3362 | 26535 | 22760 | 3516 | 24480 | 22305 | 3821 |
| | | | 32 | 23 | 30900 | 27595 | 3102 | 28115 | 26895 | 3530 | 27065 | 26525 | 3634 | 24970 | 24320 | 4012 |
| 0.10 in.wg 25 Pa | High | 1217 | 21 | 15 | 34280 | 28580 | 2822 | 31185 | 27840 | 3212 | 30025 | 27565 | 3358 | 27710 | 27015 | 3650 |
| | | | 24 | 17 | 35215 | 29745 | 3006 | 32040 | 28980 | 3421 | 30845 | 28695 | 3577 | 28460 | 28120 | 3887 |
| | | | 27 | 19 | 35935 | 29985 | 3068 | 32690 | 29215 | 3491 | 31475 | 28925 | 3650 | 29040 | 28345 | 3967 |
| | | | 32 | 23 | 36655 | 35080 | 3221 | 33345 | 33935 | 3665 | 32105 | 33300 | 3832 | 29625 | 29625 | 4165 |
| | Medium | 1048 | 21 | 15 | 30075 | 24030 | 2763 | 27365 | 23420 | 3144 | 25710 | 23185 | 3288 | 24300 | 22720 | 3573 |
| | | | 24 | 17 | 30895 | 25015 | 2943 | 28110 | 24375 | 3349 | 27060 | 24130 | 3503 | 24965 | 23650 | 3806 |
| | | | 27 | 19 | 31525 | 25215 | 3003 | 28680 | 24570 | 3418 | 27615 | 24325 | 3574 | 25470 | 23840 | 3884 |
| | | | 32 | 23 | 32155 | 29500 | 3154 | 29255 | 28750 | 3588 | 28165 | 28385 | 3680 | 25985 | 25985 | 4078 |
| | Low | 963 | 21 | 15 | 28875 | 22470 | 2721 | 26270 | 21895 | 3097 | 24685 | 21675 | 3239 | 23330 | 21245 | 3519 |
| | | | 24 | 17 | 29660 | 23395 | 2899 | 26990 | 22795 | 3299 | 25980 | 22565 | 3450 | 23970 | 22115 | 3749 |
| | | | 27 | 19 | 30265 | 23580 | 2958 | 27540 | 22975 | 3367 | 26510 | 22750 | 3521 | 24455 | 22295 | 3826 |
| | | | 32 | 23 | 30875 | 27585 | 3107 | 28090 | 26880 | 3535 | 27040 | 26540 | 3625 | 24945 | 24300 | 4017 |
| 0.12 in.wg 30 Pa | High | 1173 | 21 | 15 | 34250 | 28565 | 2826 | 31160 | 27830 | 3217 | 29995 | 27555 | 3362 | 27685 | 27005 | 3655 |
| | | | 24 | 17 | 35185 | 29730 | 3010 | 32010 | 28965 | 3426 | 30820 | 28680 | 3582 | 28435 | 28110 | 3892 |
| | | | 27 | 19 | 35900 | 29970 | 3072 | 32660 | 29200 | 3496 | 31445 | 28910 | 3655 | 29015 | 28335 | 3972 |
| | | | 32 | 23 | 36620 | 35065 | 3226 | 33315 | 34020 | 3671 | 32075 | 33510 | 3837 | 29595 | 29595 | 4171 |
| | Medium | 1034 | 21 | 15 | 30050 | 24020 | 2766 | 27340 | 23410 | 3149 | 25560 | 23175 | 3293 | 24275 | 22710 | 3578 |
| | | | 24 | 17 | 30865 | 25005 | 2947 | 28085 | 24365 | 3354 | 27035 | 24120 | 3508 | 24940 | 23640 | 3812 |
| | | | 27 | 19 | 31495 | 25205 | 3007 | 28655 | 24560 | 3422 | 27590 | 24315 | 3580 | 25445 | 23830 | 3889 |
| | | | 32 | 23 | 32130 | 29485 | 3159 | 29230 | 28735 | 3593 | 28140 | 28400 | 3672 | 25960 | 25960 | 4084 |
| | Low | 935 | 21 | 15 | 28850 | 22460 | 2725 | 26245 | 21885 | 3102 | 24540 | 21665 | 3244 | 23310 | 21235 | 3524 |
| | | | 24 | 17 | 29635 | 23385 | 2903 | 26965 | 22785 | 3304 | 25955 | 22555 | 3455 | 23945 | 22105 | 3755 |
| | | | 27 | 19 | 30240 | 23570 | 2962 | 27515 | 22965 | 3371 | 26485 | 22740 | 3526 | 24430 | 22285 | 3831 |
| | | | 32 | 23 | 30845 | 27570 | 3112 | 28065 | 26870 | 3539 | 27015 | 26560 | 3616 | 24920 | 24275 | 4023 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT30N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT30N-718

38KDMT30N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.15 in.wg 37 Pa | High | 1168 | 21 | 15 | 34200 | 28545 | 2832 | 31115 | 27810 | 3223 | 29955 | 27535 | 3369 | 27645 | 26985 | 3662 |
| | | | 24 | 17 | 35135 | 29710 | 3016 | 31965 | 28945 | 3433 | 30775 | 28660 | 3589 | 28395 | 28090 | 3900 |
| | | | 27 | 19 | 35850 | 29950 | 3078 | 32615 | 29180 | 3503 | 31400 | 28890 | 3662 | 28975 | 28315 | 3980 |
| | | | 32 | 23 | 36570 | 35040 | 3232 | 33270 | 34140 | 3678 | 32030 | 33800 | 3845 | 29555 | 29555 | 4179 |
| | Medium | 1032 | 21 | 15 | 30010 | 24000 | 2772 | 27300 | 23390 | 3155 | 25345 | 23155 | 3300 | 24240 | 22690 | 3585 |
| | | | 24 | 17 | 30825 | 24985 | 2953 | 28045 | 24345 | 3360 | 27000 | 24100 | 3515 | 24905 | 23620 | 3819 |
| | | | 27 | 19 | 31455 | 25185 | 3013 | 28615 | 24540 | 3429 | 27550 | 24295 | 3587 | 25410 | 23810 | 3897 |
| | | | 32 | 23 | 32085 | 29465 | 3165 | 29190 | 28715 | 3600 | 28100 | 28425 | 3659 | 25920 | 25920 | 4092 |
| | Low | 906 | 21 | 15 | 28810 | 22440 | 2730 | 26210 | 21870 | 3108 | 24335 | 21650 | 3251 | 23275 | 21220 | 3531 |
| | | | 24 | 17 | 29595 | 23365 | 2909 | 26925 | 22765 | 3310 | 25920 | 22535 | 3462 | 23910 | 22085 | 3762 |
| | | | 27 | 19 | 30200 | 23550 | 2968 | 27475 | 22945 | 3378 | 26450 | 22720 | 3533 | 24395 | 22265 | 3839 |
| | | | 32 | 23 | 30805 | 27550 | 3118 | 28025 | 26850 | 3546 | 26980 | 26580 | 3604 | 24885 | 24240 | 4031 |
| 0.16 in.wg 40 Pa | High | 1226 | 21 | 15 | 34185 | 28540 | 2834 | 31100 | 27805 | 3226 | 29940 | 27530 | 3372 | 27630 | 26980 | 3665 |
| | | | 24 | 17 | 35120 | 29705 | 3018 | 31950 | 28940 | 3436 | 30760 | 28655 | 3592 | 28380 | 28085 | 3903 |
| | | | 27 | 19 | 35830 | 29945 | 3081 | 32600 | 29175 | 3506 | 31385 | 28885 | 3665 | 28960 | 28310 | 3983 |
| | | | 32 | 23 | 36550 | 35035 | 3235 | 33255 | 34195 | 3681 | 32015 | 33925 | 3848 | 29540 | 29540 | 4182 |
| | Medium | 1147 | 21 | 15 | 29995 | 23995 | 2774 | 27290 | 23385 | 3158 | 25260 | 23150 | 3303 | 24230 | 22685 | 3588 |
| | | | 24 | 17 | 30810 | 24980 | 2955 | 28030 | 24340 | 3363 | 26990 | 24095 | 3518 | 24895 | 23615 | 3822 |
| | | | 27 | 19 | 31440 | 25180 | 3015 | 28600 | 24535 | 3432 | 27540 | 24290 | 3590 | 25400 | 23805 | 3900 |
| | | | 32 | 23 | 32070 | 29460 | 3168 | 29175 | 28710 | 3603 | 28085 | 28440 | 3654 | 25910 | 25910 | 4095 |
| | Low | 1016 | 21 | 15 | 28795 | 22435 | 2732 | 26200 | 21865 | 3111 | 24250 | 21645 | 3254 | 23265 | 21215 | 3534 |
| | | | 24 | 17 | 29580 | 23360 | 2911 | 26915 | 22760 | 3313 | 25910 | 22530 | 3465 | 23900 | 22080 | 3765 |
| | | | 27 | 19 | 30185 | 23545 | 2970 | 27465 | 22940 | 3381 | 26440 | 22715 | 3536 | 24385 | 22260 | 3842 |
| | | | 32 | 23 | 30790 | 27545 | 3121 | 28010 | 26845 | 3549 | 26970 | 26590 | 3599 | 24875 | 24230 | 4034 |
| 0.20 in.wg 50 Pa | High | 1228 | 21 | 15 | 34120 | 28515 | 2843 | 31040 | 27780 | 3235 | 29885 | 27505 | 3381 | 27580 | 26960 | 3675 |
| | | | 24 | 17 | 35050 | 29675 | 3027 | 31890 | 28915 | 3446 | 30700 | 28630 | 3602 | 28330 | 28060 | 3914 |
| | | | 27 | 19 | 35765 | 29915 | 3089 | 32540 | 29150 | 3516 | 31325 | 28860 | 3675 | 28905 | 28285 | 3994 |
| | | | 32 | 23 | 36485 | 35000 | 3244 | 33190 | 34365 | 3692 | 31955 | 34345 | 3859 | 29485 | 29485 | 4194 |
| | Medium | 1147 | 21 | 15 | 29940 | 23975 | 2782 | 27240 | 23365 | 3167 | 24955 | 23130 | 3313 | 24180 | 22665 | 3598 |
| | | | 24 | 17 | 30755 | 24960 | 2964 | 27980 | 24320 | 3372 | 26940 | 24075 | 3528 | 24845 | 23595 | 3833 |
| | | | 27 | 19 | 31385 | 25160 | 3024 | 28550 | 24515 | 3441 | 27490 | 24270 | 3601 | 25350 | 23785 | 3911 |
| | | | 32 | 23 | 32010 | 29430 | 3177 | 29120 | 28685 | 3613 | 28035 | 28475 | 3636 | 25860 | 25860 | 4107 |
| | Low | 1001 | 21 | 15 | 28745 | 22415 | 2740 | 26150 | 21845 | 3120 | 23965 | 21625 | 3264 | 23220 | 21195 | 3544 |
| | | | 24 | 17 | 29525 | 23340 | 2920 | 26865 | 22740 | 3322 | 25860 | 22510 | 3475 | 23855 | 22060 | 3776 |
| | | | 27 | 19 | 30130 | 23525 | 2979 | 27415 | 22920 | 3390 | 26390 | 22695 | 3546 | 24335 | 22240 | 3853 |
| | | | 32 | 23 | 30735 | 27520 | 3130 | 27960 | 26820 | 3558 | 26920 | 26625 | 3581 | 24825 | 24185 | 4046 |
| 0.24 in.wg 60 Pa | High | 1100 | 21 | 15 | 34055 | 28490 | 2851 | 30985 | 27755 | 3244 | 29825 | 27480 | 3391 | 27530 | 26935 | 3686 |
| | | | 24 | 17 | 34985 | 29650 | 3035 | 31830 | 28890 | 3455 | 30645 | 28605 | 3613 | 28275 | 28035 | 3925 |
| | | | 27 | 19 | 35695 | 29890 | 3098 | 32480 | 29125 | 3526 | 31265 | 28835 | 3686 | 28855 | 28260 | 4005 |
| | | | 32 | 23 | 36415 | 34970 | 3253 | 33130 | 34540 | 3702 | 31895 | 34760 | 3870 | 29430 | 29430 | 4206 |
| | Medium | 1038 | 21 | 15 | 29890 | 23950 | 2790 | 27190 | 23345 | 3175 | 24655 | 23110 | 3322 | 24135 | 22640 | 3608 |
| | | | 24 | 17 | 30695 | 24935 | 2972 | 27930 | 24295 | 3381 | 26890 | 24050 | 3539 | 24800 | 23570 | 3843 |
| | | | 27 | 19 | 31325 | 25135 | 3032 | 28495 | 24490 | 3451 | 27440 | 24245 | 3611 | 25300 | 23760 | 3922 |
| | | | 32 | 23 | 31955 | 29405 | 3186 | 29070 | 28660 | 3622 | 27985 | 28510 | 3618 | 25810 | 25810 | 4118 |
| | Low | 914 | 21 | 15 | 28690 | 22395 | 2747 | 26100 | 21825 | 3128 | 23675 | 21605 | 3273 | 23175 | 21175 | 3553 |
| | | | 24 | 17 | 29475 | 23320 | 2928 | 26815 | 22720 | 3331 | 25815 | 22490 | 3485 | 23805 | 22040 | 3786 |
| | | | 27 | 19 | 30080 | 23505 | 2987 | 27365 | 22900 | 3400 | 26340 | 22675 | 3557 | 24290 | 22220 | 3864 |
| | | | 32 | 23 | 30680 | 27495 | 3139 | 27910 | 26795 | 3568 | 26870 | 26660 | 3564 | 24775 | 24135 | 4057 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT30N-718 Cool Only
## 220-240V/1Ph/50Hz

42KDMT30N-718

38KDMT30N-718

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.28 in.wg 70 Pa | High | 1109 | 21 | 15 | 33990 | 28465 | 2859 | 30925 | 27730 | 3253 | 29770 | 27455 | 3400 | 27480 | 26910 | 3696 |
| | | | 24 | 17 | 34920 | 29625 | 3044 | 31770 | 28865 | 3465 | 30585 | 28580 | 3623 | 28225 | 28010 | 3936 |
| | | | 27 | 19 | 35630 | 29865 | 3106 | 32415 | 29100 | 3536 | 31205 | 28810 | 3696 | 28800 | 28235 | 4016 |
| | | | 32 | 23 | 36345 | 34935 | 3262 | 33070 | 34710 | 3713 | 31830 | 35180 | 3881 | 29375 | 29375 | 4217 |
| | Medium | 1039 | 21 | 15 | 29835 | 23925 | 2798 | 27140 | 23320 | 3184 | 24355 | 23085 | 3332 | 24085 | 22615 | 3618 |
| | | | 24 | 17 | 30640 | 24910 | 2981 | 27880 | 24270 | 3390 | 26840 | 24025 | 3549 | 24750 | 23545 | 3854 |
| | | | 27 | 19 | 31270 | 25110 | 3041 | 28445 | 24465 | 3460 | 27390 | 24220 | 3622 | 25250 | 23735 | 3933 |
| | | | 32 | 23 | 31895 | 29380 | 3195 | 29015 | 28635 | 3632 | 27935 | 28550 | 3600 | 25760 | 25760 | 4129 |
| | Low | 893 | 21 | 15 | 28640 | 22370 | 2755 | 26050 | 21805 | 3137 | 23385 | 21585 | 3283 | 23130 | 21155 | 3563 |
| | | | 24 | 17 | 29420 | 23295 | 2937 | 26765 | 22695 | 3340 | 25765 | 22465 | 3495 | 23760 | 22015 | 3797 |
| | | | 27 | 19 | 30025 | 23480 | 2996 | 27315 | 22875 | 3409 | 26290 | 22650 | 3567 | 24240 | 22195 | 3875 |
| | | | 32 | 23 | 30625 | 27470 | 3148 | 27860 | 26770 | 3577 | 26820 | 26695 | 3546 | 24725 | 24090 | 4068 |
| 0.32 in.wg 80 Pa | High | 1111 | 21 | 15 | 33925 | 28435 | 2867 | 30870 | 27710 | 3262 | 29715 | 27435 | 3410 | 27425 | 26890 | 3706 |
| | | | 24 | 17 | 34855 | 29595 | 3052 | 31710 | 28835 | 3475 | 30530 | 28550 | 3633 | 28170 | 27990 | 3946 |
| | | | 27 | 19 | 35560 | 29835 | 3115 | 32355 | 29070 | 3546 | 31145 | 28780 | 3706 | 28745 | 28215 | 4028 |
| | | | 32 | 23 | 36275 | 34905 | 3271 | 33005 | 34885 | 3723 | 31770 | 35595 | 3891 | 29320 | 29320 | 4229 |
| | Medium | 1035 | 21 | 15 | 29780 | 23905 | 2806 | 27090 | 23300 | 3193 | 24055 | 23065 | 3342 | 24040 | 22595 | 3628 |
| | | | 24 | 17 | 30585 | 24890 | 2989 | 27825 | 24250 | 3399 | 26795 | 24005 | 3559 | 24705 | 23525 | 3864 |
| | | | 27 | 19 | 31215 | 25090 | 3049 | 28390 | 24445 | 3470 | 27340 | 24200 | 3632 | 25205 | 23715 | 3943 |
| | | | 32 | 23 | 31840 | 29350 | 3204 | 28960 | 28605 | 3642 | 27880 | 28585 | 3582 | 25710 | 25710 | 4141 |
| | Low | 880 | 21 | 15 | 28585 | 22350 | 2762 | 26005 | 21785 | 3146 | 23095 | 21565 | 3293 | 23085 | 21135 | 3573 |
| | | | 24 | 17 | 29365 | 23275 | 2945 | 26715 | 22675 | 3349 | 25720 | 22445 | 3505 | 23715 | 21995 | 3807 |
| | | | 27 | 19 | 29970 | 23460 | 3004 | 27265 | 22855 | 3419 | 26245 | 22630 | 3577 | 24195 | 22175 | 3885 |
| | | | 32 | 23 | 30570 | 27440 | 3157 | 27805 | 26750 | 3587 | 26775 | 26725 | 3529 | 24680 | 24045 | 4080 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT36N-718T Cool Only
## 220-240V/1Ph/50Hz

42KDMT36N-718T

38KDMT36N-718T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 1181 | 21 | 15 | 35395 | 29260 | 2786 | 33120 | 29190 | 3309 | 32265 | 29165 | 3506 | 30560 | 29110 | 3899 |
| | | | 24 | 17 | 36360 | 30455 | 2967 | 34020 | 30385 | 3525 | 33145 | 30355 | 3735 | 31390 | 30300 | 4153 |
| | | | 27 | 19 | 37100 | 30700 | 3028 | 34715 | 30630 | 3597 | 33820 | 30600 | 3811 | 32030 | 30545 | 4238 |
| | | | 32 | 23 | 37845 | 35920 | 3179 | 35410 | 35410 | 3777 | 34500 | 34500 | 4001 | 32670 | 32670 | 4450 |
| | Medium | 1055 | 21 | 15 | 34165 | 23985 | 2796 | 31970 | 24985 | 3307 | 31145 | 25355 | 3499 | 29500 | 26105 | 3882 |
| | | | 24 | 17 | 35095 | 24965 | 2978 | 32840 | 26005 | 3523 | 31995 | 26395 | 3725 | 30305 | 27175 | 4136 |
| | | | 27 | 19 | 35810 | 25165 | 3039 | 33510 | 26215 | 3595 | 32645 | 26605 | 3808 | 30920 | 37390 | 4220 |
| | | | 32 | 23 | 36530 | 29445 | 3191 | 34180 | 30675 | 3775 | 33300 | 31130 | 3993 | 31540 | 31540 | 4431 |
| | Low | 890 | 21 | 15 | 32800 | 22430 | 2754 | 30695 | 23365 | 3257 | 29900 | 23710 | 3447 | 28320 | 24410 | 3824 |
| | | | 24 | 17 | 33695 | 23345 | 2933 | 31530 | 24315 | 3470 | 30720 | 24680 | 3669 | 29095 | 25410 | 4074 |
| | | | 27 | 19 | 34380 | 23530 | 2993 | 32170 | 24515 | 3541 | 31340 | 24880 | 3751 | 29685 | 34960 | 4157 |
| | | | 32 | 23 | 35070 | 27535 | 3143 | 32815 | 28685 | 3718 | 31970 | 29110 | 3933 | 30280 | 29490 | 4365 |
| 0.08 in.wg 20 Pa | High | 1136 | 21 | 15 | 35215 | 29210 | 2812 | 32950 | 29140 | 3340 | 32105 | 29115 | 3538 | 30405 | 29060 | 3935 |
| | | | 24 | 17 | 36175 | 30405 | 2995 | 33850 | 30335 | 3558 | 32975 | 30305 | 3769 | 31235 | 30250 | 4191 |
| | | | 27 | 19 | 36915 | 30650 | 3056 | 34540 | 30580 | 3630 | 33650 | 30550 | 3846 | 31870 | 30495 | 4277 |
| | | | 32 | 23 | 37655 | 35860 | 3209 | 35230 | 35230 | 3812 | 34325 | 34325 | 4038 | 32510 | 32510 | 4491 |
| | Medium | 1037 | 21 | 15 | 33990 | 23940 | 2822 | 31810 | 24940 | 3345 | 30995 | 25310 | 3531 | 29350 | 26060 | 3935 |
| | | | 24 | 17 | 34915 | 24920 | 3006 | 32675 | 25960 | 3564 | 31840 | 26345 | 3773 | 30150 | 27130 | 4192 |
| | | | 27 | 19 | 35630 | 25120 | 3067 | 33340 | 26170 | 3637 | 32490 | 26560 | 3840 | 30765 | 31945 | 4277 |
| | | | 32 | 23 | 36345 | 29395 | 3220 | 34005 | 30620 | 3819 | 33140 | 31075 | 4010 | 31380 | 31380 | 4491 |
| | Low | 894 | 21 | 15 | 32635 | 22390 | 2779 | 30540 | 23325 | 3295 | 29755 | 23670 | 3479 | 28175 | 24370 | 3876 |
| | | | 24 | 17 | 33520 | 23305 | 2961 | 31370 | 24275 | 3511 | 30570 | 24635 | 3717 | 28945 | 25365 | 4129 |
| | | | 27 | 19 | 34205 | 23490 | 3021 | 32010 | 24470 | 3582 | 31190 | 24835 | 3783 | 29535 | 29870 | 4213 |
| | | | 32 | 23 | 34890 | 27485 | 3172 | 32650 | 28635 | 3761 | 31815 | 29060 | 3950 | 30130 | 29340 | 4424 |
| 0.10 in.wg 25 Pa | High | 1217 | 21 | 15 | 35170 | 29200 | 2818 | 32910 | 29130 | 3347 | 32060 | 29105 | 3547 | 30365 | 29050 | 3944 |
| | | | 24 | 17 | 36130 | 30390 | 3001 | 33805 | 30320 | 3566 | 32935 | 30295 | 3778 | 31195 | 30235 | 4201 |
| | | | 27 | 19 | 36865 | 30635 | 3063 | 34495 | 30565 | 3639 | 33605 | 30535 | 3855 | 31830 | 30480 | 4287 |
| | | | 32 | 23 | 37605 | 35845 | 3216 | 35185 | 35185 | 3821 | 34280 | 34280 | 4048 | 32465 | 32465 | 4501 |
| | Medium | 1048 | 21 | 15 | 33950 | 23930 | 2828 | 31765 | 24930 | 3355 | 30955 | 25300 | 3540 | 29310 | 26050 | 3948 |
| | | | 24 | 17 | 34870 | 24910 | 3012 | 32635 | 25945 | 3574 | 31800 | 26335 | 3785 | 30110 | 27115 | 4206 |
| | | | 27 | 19 | 35585 | 25110 | 3074 | 33295 | 26155 | 3647 | 32450 | 26545 | 3849 | 30725 | 30580 | 4292 |
| | | | 32 | 23 | 36295 | 29380 | 3227 | 33965 | 30605 | 3830 | 33100 | 31060 | 4015 | 31340 | 31340 | 4506 |
| | Low | 963 | 21 | 15 | 32595 | 22380 | 2786 | 30500 | 23315 | 3304 | 29720 | 23660 | 3487 | 28140 | 24360 | 3889 |
| | | | 24 | 17 | 33480 | 23295 | 2967 | 31330 | 24265 | 3521 | 30530 | 24625 | 3728 | 28910 | 25355 | 4142 |
| | | | 27 | 19 | 34165 | 23480 | 3028 | 31965 | 24460 | 3592 | 31155 | 24825 | 3791 | 29495 | 28595 | 4227 |
| | | | 32 | 23 | 34845 | 27475 | 3179 | 32610 | 28620 | 3772 | 31775 | 29045 | 3955 | 30090 | 29305 | 4439 |
| 0.12 in.wg 30 Pa | High | 1173 | 21 | 15 | 35125 | 29185 | 2825 | 32865 | 29115 | 3355 | 32020 | 29090 | 3555 | 30330 | 29035 | 3952 |
| | | | 24 | 17 | 36085 | 30375 | 3008 | 33765 | 30305 | 3574 | 32890 | 30280 | 3786 | 31155 | 30220 | 4211 |
| | | | 27 | 19 | 36820 | 30620 | 3070 | 34450 | 30550 | 3647 | 33565 | 30520 | 3864 | 31790 | 30465 | 4296 |
| | | | 32 | 23 | 37555 | 35830 | 3224 | 35140 | 35140 | 3830 | 34235 | 34235 | 4057 | 32425 | 32425 | 4511 |
| | Medium | 1034 | 21 | 15 | 33905 | 23920 | 2835 | 31725 | 24920 | 3365 | 30915 | 25290 | 3548 | 29270 | 26040 | 3961 |
| | | | 24 | 17 | 34825 | 24900 | 3019 | 32590 | 25935 | 3585 | 31760 | 26320 | 3797 | 30075 | 27105 | 4219 |
| | | | 27 | 19 | 35535 | 25100 | 3081 | 33255 | 26145 | 3657 | 32410 | 26535 | 3857 | 30685 | 29220 | 4306 |
| | | | 32 | 23 | 36250 | 29365 | 3235 | 33920 | 30590 | 3841 | 33060 | 31045 | 4019 | 31300 | 31300 | 4521 |
| | Low | 935 | 21 | 15 | 32550 | 22370 | 2792 | 30460 | 23305 | 3314 | 29685 | 23650 | 3495 | 28105 | 24350 | 3902 |
| | | | 24 | 17 | 33435 | 23285 | 2974 | 31290 | 24255 | 3531 | 30490 | 24615 | 3740 | 28870 | 25345 | 4156 |
| | | | 27 | 19 | 34120 | 23470 | 3035 | 31925 | 24450 | 3603 | 31115 | 24815 | 3799 | 29455 | 27325 | 4241 |
| | | | 32 | 23 | 34800 | 27460 | 3186 | 32565 | 28605 | 3783 | 31740 | 29030 | 3959 | 30050 | 29265 | 4453 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT36N-718T Cool Only
## 220-240V/1Ph/50Hz

42KDMT36N-718T

38KDMT36N-718T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.15 in.wg 37 Pa | High | 1168 | 21 | 15 | 35060 | 29165 | 2834 | 32805 | 29095 | 3366 | 31960 | 29070 | 3566 | 30270 | 29015 | 3965 |
| | | | 24 | 17 | 36015 | 30355 | 3018 | 33700 | 30285 | 3586 | 32830 | 30260 | 3798 | 31095 | 30200 | 4224 |
| | | | 27 | 19 | 36750 | 30600 | 3080 | 34385 | 30530 | 3659 | 33500 | 30500 | 3876 | 31730 | 30445 | 4310 |
| | | | 32 | 23 | 37485 | 35805 | 3234 | 35075 | 35075 | 3842 | 34170 | 34170 | 4070 | 32365 | 32365 | 4525 |
| | Medium | 1032 | 21 | 15 | 33840 | 23900 | 2844 | 31665 | 24900 | 3378 | 30860 | 25270 | 3559 | 29215 | 26020 | 3980 |
| | | | 24 | 17 | 34760 | 24880 | 3029 | 32530 | 25915 | 3599 | 31700 | 26300 | 3814 | 30015 | 27085 | 4239 |
| | | | 27 | 19 | 35470 | 25080 | 3091 | 33190 | 26125 | 3672 | 32350 | 26515 | 3868 | 30625 | 27300 | 4326 |
| | | | 32 | 23 | 36180 | 29345 | 3245 | 33855 | 30570 | 3856 | 33000 | 31025 | 4025 | 31240 | 31240 | 4542 |
| | Low | 906 | 21 | 15 | 32490 | 22350 | 2801 | 30400 | 23285 | 3327 | 29630 | 23630 | 3506 | 28050 | 24330 | 3920 |
| | | | 24 | 17 | 33370 | 23265 | 2984 | 31230 | 24235 | 3545 | 30435 | 24595 | 3757 | 28815 | 25325 | 4175 |
| | | | 27 | 19 | 34055 | 23450 | 3045 | 31865 | 24430 | 3617 | 31060 | 24795 | 3810 | 29400 | 25530 | 4261 |
| | | | 32 | 23 | 34735 | 27440 | 3196 | 32505 | 28585 | 3798 | 31680 | 29010 | 3965 | 29995 | 29210 | 4474 |
| 0.16 in.wg 40 Pa | High | 1226 | 21 | 15 | 35035 | 29160 | 2838 | 32780 | 29090 | 3371 | 31940 | 29065 | 3571 | 30250 | 29010 | 3970 |
| | | | 24 | 17 | 35990 | 30350 | 3022 | 33675 | 30280 | 3591 | 32805 | 30255 | 3803 | 31075 | 30195 | 4230 |
| | | | 27 | 19 | 36725 | 30595 | 3084 | 34360 | 30525 | 3664 | 33475 | 30495 | 3881 | 31710 | 30440 | 4316 |
| | | | 32 | 23 | 37460 | 35800 | 3238 | 35050 | 35050 | 3847 | 34145 | 34145 | 4076 | 32345 | 32345 | 4531 |
| | Medium | 1147 | 21 | 15 | 33815 | 23895 | 2848 | 31645 | 24895 | 3384 | 30840 | 25265 | 3564 | 29195 | 26015 | 3988 |
| | | | 24 | 17 | 34735 | 24875 | 3033 | 32510 | 25910 | 3605 | 31680 | 26295 | 3821 | 29995 | 27080 | 4247 |
| | | | 27 | 19 | 35445 | 25075 | 3095 | 33165 | 26120 | 3678 | 32330 | 26510 | 3873 | 30605 | 26495 | 4334 |
| | | | 32 | 23 | 36155 | 29340 | 3249 | 33830 | 30565 | 3862 | 32980 | 31020 | 4028 | 31220 | 31220 | 4551 |
| | Low | 1016 | 21 | 15 | 32470 | 22345 | 2805 | 30380 | 23280 | 3333 | 29610 | 23625 | 3511 | 28030 | 24325 | 3928 |
| | | | 24 | 17 | 33345 | 23260 | 2988 | 31210 | 24230 | 3551 | 30415 | 24590 | 3764 | 28795 | 25320 | 4183 |
| | | | 27 | 19 | 34030 | 23445 | 3049 | 31845 | 24425 | 3623 | 31040 | 24790 | 3815 | 29380 | 24780 | 4269 |
| | | | 32 | 23 | 34710 | 27435 | 3200 | 32485 | 28580 | 3804 | 31660 | 29005 | 3968 | 29975 | 29190 | 4483 |
| 0.20 in.wg 50 Pa | High | 1228 | 21 | 15 | 34945 | 29135 | 2851 | 32695 | 29065 | 3386 | 31855 | 29040 | 3587 | 30170 | 28985 | 3988 |
| | | | 24 | 17 | 35895 | 30320 | 3036 | 33590 | 30250 | 3607 | 32720 | 30230 | 3820 | 30995 | 30165 | 4249 |
| | | | 27 | 19 | 36630 | 30565 | 3098 | 34270 | 30495 | 3681 | 33390 | 30465 | 3899 | 31625 | 30410 | 4335 |
| | | | 32 | 23 | 37360 | 35765 | 3253 | 34960 | 34960 | 3865 | 34055 | 34055 | 4094 | 32260 | 32260 | 4551 |
| | Medium | 1147 | 21 | 15 | 33730 | 23875 | 2861 | 31560 | 24875 | 3403 | 30765 | 25245 | 3580 | 29120 | 25995 | 4014 |
| | | | 24 | 17 | 34645 | 24855 | 3047 | 32425 | 25885 | 3626 | 31600 | 26270 | 3845 | 29915 | 27055 | 4275 |
| | | | 27 | 19 | 35355 | 25055 | 3109 | 33080 | 26095 | 3699 | 32250 | 26485 | 3889 | 30525 | 23770 | 4363 |
| | | | 32 | 23 | 36060 | 29310 | 3264 | 33745 | 30535 | 3884 | 32895 | 30990 | 4036 | 31135 | 31135 | 4581 |
| | Low | 1001 | 21 | 15 | 32385 | 22325 | 2817 | 30300 | 23260 | 3352 | 29540 | 23605 | 3527 | 27960 | 24305 | 3954 |
| | | | 24 | 17 | 33260 | 23240 | 3002 | 31125 | 24210 | 3571 | 30340 | 24570 | 3788 | 28720 | 25300 | 4210 |
| | | | 27 | 19 | 33945 | 23425 | 3063 | 31760 | 24405 | 3644 | 30965 | 24770 | 3831 | 29305 | 22230 | 4297 |
| | | | 32 | 23 | 34620 | 27410 | 3215 | 32400 | 28550 | 3826 | 31580 | 28975 | 3976 | 29900 | 29115 | 4512 |
| 0.24 in.wg 60 Pa | High | 1100 | 21 | 15 | 34855 | 29110 | 2864 | 32610 | 29040 | 3401 | 31775 | 29015 | 3603 | 30095 | 28960 | 4006 |
| | | | 24 | 17 | 35805 | 30295 | 3050 | 33505 | 30225 | 3624 | 32635 | 30205 | 3837 | 30915 | 30140 | 4268 |
| | | | 27 | 19 | 36535 | 30540 | 3112 | 34185 | 30470 | 3697 | 33305 | 30440 | 3916 | 31545 | 30385 | 4355 |
| | | | 32 | 23 | 37265 | 35735 | 3268 | 34870 | 34870 | 3882 | 33970 | 33970 | 4113 | 32180 | 32180 | 4572 |
| | Medium | 1038 | 21 | 15 | 33640 | 23850 | 2874 | 31480 | 24850 | 3422 | 30685 | 25220 | 3596 | 29040 | 25970 | 4041 |
| | | | 24 | 17 | 34555 | 24830 | 3061 | 32340 | 25860 | 3646 | 31520 | 26245 | 3869 | 29840 | 27030 | 4303 |
| | | | 27 | 19 | 35260 | 25030 | 3123 | 32995 | 26070 | 3720 | 32170 | 26460 | 3905 | 30445 | 21045 | 4392 |
| | | | 32 | 23 | 35965 | 29285 | 3278 | 33655 | 30505 | 3906 | 32815 | 30960 | 4045 | 31055 | 31055 | 4611 |
| | Low | 914 | 21 | 15 | 32300 | 22305 | 2830 | 30220 | 23240 | 3370 | 29465 | 23585 | 3543 | 27885 | 24285 | 3980 |
| | | | 24 | 17 | 33170 | 23220 | 3016 | 31045 | 24190 | 3592 | 30260 | 24545 | 3812 | 28645 | 25275 | 4238 |
| | | | 27 | 19 | 33855 | 23405 | 3077 | 31680 | 24380 | 3664 | 30890 | 24745 | 3847 | 29225 | 19685 | 4325 |
| | | | 32 | 23 | 34530 | 27385 | 3229 | 32315 | 28525 | 3848 | 31505 | 28950 | 3985 | 29820 | 29040 | 4542 |

# System Cooling Performance Data

## Ducted Split System
## 53KDMT36N-718T Cool Only
## 220-240V/1Ph/50Hz

42KDMT36N-718T

38KDMT36N-718T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.28 in.wg 70 Pa | High | 1109 | 21 | 15 | 34765 | 29085 | 2877 | 32525 | 29015 | 3417 | 31690 | 28990 | 3619 | 30015 | 28935 | 4024 |
| | | | 24 | 17 | 35710 | 30270 | 3063 | 33420 | 30200 | 3640 | 32550 | 30180 | 3854 | 30835 | 30115 | 4287 |
| | | | 27 | 19 | 36440 | 30515 | 3126 | 34095 | 30445 | 3714 | 33220 | 30415 | 3934 | 31465 | 30360 | 4374 |
| | | | 32 | 23 | 37165 | 35705 | 3283 | 34780 | 34780 | 3900 | 33880 | 33880 | 4131 | 32095 | 32095 | 4592 |
| | Medium | 1039 | 21 | 15 | 33555 | 23825 | 2887 | 31395 | 24825 | 3441 | 30610 | 25195 | 3612 | 28965 | 25945 | 4067 |
| | | | 24 | 17 | 34465 | 24805 | 3074 | 32255 | 25835 | 3667 | 31440 | 26220 | 3893 | 29760 | 27005 | 4331 |
| | | | 27 | 19 | 35170 | 25005 | 3137 | 32910 | 26045 | 3741 | 32090 | 26435 | 3921 | 30365 | 18320 | 4420 |
| | | | 32 | 23 | 35870 | 29260 | 3293 | 33570 | 30480 | 3928 | 32735 | 30935 | 4053 | 30975 | 30975 | 4641 |
| | Low | 893 | 21 | 15 | 32215 | 22280 | 2843 | 30140 | 23215 | 3389 | 29390 | 23560 | 3559 | 27810 | 24260 | 4005 |
| | | | 24 | 17 | 33085 | 23195 | 3029 | 30965 | 24165 | 3612 | 30185 | 24520 | 3835 | 28570 | 25250 | 4265 |
| | | | 27 | 19 | 33770 | 23380 | 3091 | 31595 | 24355 | 3685 | 30815 | 24720 | 3863 | 29150 | 17140 | 4354 |
| | | | 32 | 23 | 34440 | 27360 | 3243 | 32230 | 28500 | 3869 | 31425 | 28925 | 3993 | 29745 | 28965 | 4571 |
| 0.32 in.wg 80 Pa | High | 1111 | 21 | 15 | 34675 | 29055 | 2890 | 32440 | 28985 | 3432 | 31610 | 28960 | 3636 | 29935 | 28905 | 4042 |
| | | | 24 | 17 | 35615 | 30240 | 3077 | 33330 | 30170 | 3657 | 32465 | 30150 | 3871 | 30755 | 30085 | 4306 |
| | | | 27 | 19 | 36345 | 30485 | 3140 | 34005 | 30415 | 3731 | 33130 | 30385 | 3951 | 31385 | 30330 | 4394 |
| | | | 32 | 23 | 37070 | 35675 | 3298 | 34690 | 34690 | 3917 | 33790 | 33790 | 4150 | 32015 | 32015 | 4612 |
| | Medium | 1035 | 21 | 15 | 33465 | 23805 | 2900 | 31315 | 24805 | 3460 | 30530 | 25175 | 3629 | 28885 | 25925 | 4094 |
| | | | 24 | 17 | 34375 | 24785 | 3088 | 32175 | 25815 | 3687 | 31360 | 26190 | 3917 | 29680 | 26985 | 4358 |
| | | | 27 | 19 | 35080 | 24985 | 3151 | 32820 | 26025 | 3761 | 32010 | 26415 | 3938 | 30285 | 15600 | 4449 |
| | | | 32 | 23 | 35775 | 29230 | 3308 | 33480 | 30450 | 3950 | 32655 | 30905 | 4062 | 30895 | 30895 | 4671 |
| | Low | 880 | 21 | 15 | 32135 | 22260 | 2856 | 30060 | 23195 | 3408 | 29320 | 23540 | 3574 | 27740 | 24240 | 4031 |
| | | | 24 | 17 | 32995 | 23175 | 3043 | 30885 | 24145 | 3632 | 30105 | 24500 | 3859 | 28495 | 25230 | 4292 |
| | | | 27 | 19 | 33680 | 23360 | 3105 | 31515 | 24335 | 3705 | 30740 | 24700 | 3878 | 29070 | 14595 | 4382 |
| | | | 32 | 23 | 34350 | 27330 | 3257 | 32150 | 28470 | 3891 | 31345 | 28895 | 4002 | 29665 | 28890 | 4600 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT42N-518T Cool Only
## 220-240V/1Ph/50Hz

42KDHT42N-718

38KDHT42N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 1353 | 21 | 15 | 41625 | 39575 | 2989 | 37470 | 36880 | 3532 | 35910 | 35870 | 3735 | 32795 | 32760 | 4142 |
| | | | 24 | 17 | 42760 | 41195 | 3184 | 38490 | 38390 | 3762 | 36890 | 36890 | 3979 | 33690 | 33690 | 4412 |
| | | | 27 | 19 | 43630 | 41525 | 3249 | 39275 | 38700 | 3839 | 37640 | 37640 | 4060 | 34375 | 34375 | 4502 |
| | | | 32 | 23 | 44505 | 44505 | 3411 | 40060 | 40060 | 4031 | 38395 | 383950 | 4263 | 35065 | 35065 | 4727 |
| | Medium | 1113 | 21 | 15 | 39630 | 36540 | 2962 | 35670 | 34055 | 3501 | 34190 | 33125 | 3703 | 31220 | 31190 | 4107 |
| | | | 24 | 17 | 40710 | 38035 | 3156 | 36645 | 35450 | 3729 | 35120 | 34480 | 3944 | 32070 | 32070 | 4375 |
| | | | 27 | 19 | 41540 | 38340 | 3220 | 37390 | 35730 | 3805 | 35835 | 34755 | 4025 | 32725 | 32725 | 4464 |
| | | | 32 | 23 | 42370 | 42370 | 3381 | 38140 | 38140 | 3995 | 36555 | 36555 | 4226 | 33380 | 33380 | 4687 |
| | Slow | 963 | 21 | 15 | 38045 | 34165 | 2918 | 34245 | 31845 | 3448 | 32825 | 30975 | 3647 | 29975 | 29165 | 4045 |
| | | | 24 | 17 | 39085 | 35565 | 3109 | 35180 | 33150 | 3673 | 33720 | 32240 | 3885 | 30790 | 29990 | 4309 |
| | | | 27 | 19 | 39880 | 35850 | 3172 | 35895 | 33410 | 3748 | 34405 | 32500 | 3965 | 31420 | 30600 | 4397 |
| | | | 32 | 23 | 40680 | 39620 | 3330 | 36615 | 35665 | 3935 | 35095 | 34180 | 4163 | 32045 | 31215 | 4617 |
| 0.10 in.wg 25 Pa | High | 1362 | 21 | 15 | 40610 | 36460 | 2975 | 36555 | 34475 | 3515 | 35035 | 33730 | 3717 | 31995 | 31695 | 4122 |
| | | | 24 | 17 | 41715 | 37955 | 3169 | 37550 | 35885 | 3744 | 35990 | 34885 | 3960 | 32865 | 32785 | 4391 |
| | | | 27 | 19 | 42565 | 38260 | 3233 | 38315 | 36175 | 3820 | 36720 | 35390 | 4040 | 33535 | 33255 | 4480 |
| | | | 32 | 23 | 43420 | 42725 | 3395 | 39085 | 39085 | 4011 | 37455 | 210235 | 4242 | 34205 | 34205 | 4704 |
| | Medium | 1127 | 21 | 15 | 38665 | 33665 | 2948 | 34800 | 31830 | 3484 | 33355 | 31145 | 3685 | 30460 | 29730 | 4077 |
| | | | 24 | 17 | 39715 | 35045 | 3141 | 35750 | 33130 | 3711 | 34260 | 32415 | 3925 | 31290 | 30750 | 4353 |
| | | | 27 | 19 | 40525 | 35325 | 3205 | 36475 | 33395 | 3786 | 34960 | 32675 | 4005 | 31930 | 31195 | 4442 |
| | | | 32 | 23 | 41335 | 40085 | 3365 | 37205 | 37200 | 3975 | 35660 | 35660 | 4205 | 32570 | 32570 | 4664 |
| | Slow | 970 | 21 | 15 | 37120 | 31480 | 2904 | 33410 | 29765 | 3431 | 32020 | 29120 | 3629 | 29245 | 27800 | 4015 |
| | | | 24 | 17 | 38130 | 32770 | 3094 | 34320 | 30980 | 3655 | 32895 | 30310 | 3866 | 30040 | 28755 | 4288 |
| | | | 27 | 19 | 38905 | 33030 | 3157 | 35020 | 31230 | 3729 | 33565 | 30555 | 3945 | 30655 | 29170 | 4375 |
| | | | 32 | 23 | 39685 | 37485 | 3314 | 35720 | 34785 | 3916 | 34235 | 33345 | 4142 | 31265 | 30455 | 4594 |
| 0.20 in.wg 50 Pa | High | 1375 | 21 | 15 | 39590 | 33345 | 2960 | 35640 | 32065 | 3497 | 34155 | 31585 | 3698 | 31190 | 30625 | 4101 |
| | | | 24 | 17 | 40670 | 34710 | 3153 | 36610 | 33375 | 3725 | 35085 | 32875 | 3940 | 32040 | 31880 | 4369 |
| | | | 27 | 19 | 41500 | 34990 | 3217 | 37355 | 33645 | 3801 | 35800 | 33140 | 4020 | 32690 | 32135 | 4458 |
| | | | 32 | 23 | 42330 | 40940 | 3378 | 38105 | 38105 | 3991 | 36515 | 36515 | 4221 | 33345 | 33345 | 4681 |
| | Medium | 1140 | 21 | 15 | 37695 | 30790 | 2934 | 33925 | 29600 | 3466 | 32515 | 29160 | 3666 | 29700 | 28270 | 4046 |
| | | | 24 | 17 | 38720 | 32050 | 3125 | 34850 | 30810 | 3692 | 33400 | 30350 | 3905 | 30510 | 29430 | 4331 |
| | | | 27 | 19 | 39510 | 32305 | 3189 | 35560 | 31060 | 3767 | 34080 | 30595 | 3985 | 31130 | 29665 | 4419 |
| | | | 32 | 23 | 40300 | 37800 | 3348 | 36270 | 36260 | 3955 | 34760 | 34760 | 4184 | 31755 | 31755 | 4640 |
| | Slow | 979 | 21 | 15 | 36190 | 28790 | 2890 | 32570 | 27680 | 3414 | 31215 | 27265 | 3611 | 28515 | 26435 | 3985 |
| | | | 24 | 17 | 37175 | 29970 | 3078 | 33460 | 28810 | 3637 | 32065 | 28380 | 3846 | 29290 | 27520 | 4266 |
| | | | 27 | 19 | 37930 | 30210 | 3141 | 34140 | 29045 | 3710 | 32720 | 28610 | 3925 | 29885 | 27740 | 4353 |
| | | | 32 | 23 | 38690 | 35345 | 3298 | 34820 | 33905 | 3896 | 33370 | 32505 | 4121 | 30485 | 29695 | 4570 |
| 0.30 in.wg 75 Pa | High | 1360 | 21 | 15 | 38575 | 30230 | 2946 | 34725 | 29660 | 3480 | 33280 | 29445 | 3680 | 30390 | 29560 | 4081 |
| | | | 24 | 17 | 39625 | 31470 | 3138 | 35670 | 30870 | 3707 | 34185 | 30870 | 3921 | 31215 | 30975 | 4348 |
| | | | 27 | 19 | 40435 | 31725 | 3201 | 36395 | 31120 | 3782 | 34880 | 30890 | 4000 | 31850 | 31015 | 4436 |
| | | | 32 | 23 | 41245 | 39160 | 3362 | 37130 | 37130 | 3971 | 35575 | #NUM! | 4200 | 32485 | 32485 | 4658 |
| | Medium | 1123 | 21 | 15 | 36730 | 27915 | 2920 | 33055 | 27375 | 3449 | 31680 | 27180 | 3648 | 28940 | 26810 | 4016 |
| | | | 24 | 17 | 37725 | 29060 | 3110 | 33955 | 28490 | 3674 | 32540 | 28285 | 3886 | 29730 | 28110 | 4309 |
| | | | 27 | 19 | 38495 | 29290 | 3174 | 34645 | 28725 | 3748 | 33205 | 28515 | 3965 | 30335 | 28135 | 4397 |
| | | | 32 | 23 | 39265 | 35515 | 3332 | 35335 | 35320 | 3935 | 33865 | 33865 | 4163 | 30945 | 30945 | 4617 |
| | Slow | 967 | 21 | 15 | 35265 | 26105 | 2876 | 31735 | 25600 | 3397 | 30410 | 25410 | 3593 | 27785 | 25070 | 3955 |
| | | | 24 | 17 | 36220 | 27175 | 3063 | 32600 | 26640 | 3619 | 31240 | 26450 | 3827 | 28540 | 26285 | 4245 |
| | | | 27 | 19 | 36955 | 27390 | 3126 | 33265 | 26865 | 3691 | 31880 | 26665 | 3905 | 29120 | 26310 | 4331 |
| | | | 32 | 23 | 37695 | 33210 | 3282 | 33925 | 33025 | 3877 | 32510 | 31670 | 4100 | 29705 | 28935 | 4547 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT42N-518T Cool Only
## 220-240V/1Ph/50Hz

42KDHT42N-718T

38KDHT42N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.40 in.wg 100 Pa | High | 1366 | 21 | 15 | 37555 | 27115 | 2931 | 33810 | 27250 | 3462 | 32400 | 27300 | 3661 | 29585 | 28490 | 4060 |
| | | | 24 | 17 | 38580 | 28225 | 3122 | 34730 | 28360 | 3688 | 33280 | 28860 | 3901 | 30390 | 30070 | 4326 |
| | | | 27 | 19 | 39370 | 28455 | 3185 | 35435 | 28590 | 3763 | 33960 | 28640 | 3980 | 31005 | 29895 | 4414 |
| | | | 32 | 23 | 40155 | 37375 | 3345 | 36150 | 36150 | 3951 | 34635 | #NUM! | 4179 | 31625 | 31625 | 4635 |
| | Medium | 1130 | 21 | 15 | 35760 | 25040 | 2906 | 32180 | 25145 | 3431 | 30840 | 25195 | 3629 | 28180 | 25350 | 3985 |
| | | | 24 | 17 | 36730 | 26065 | 3094 | 33055 | 26170 | 3655 | 31680 | 26220 | 3866 | 28950 | 26790 | 4287 |
| | | | 27 | 19 | 37480 | 26270 | 3158 | 33730 | 26390 | 3729 | 32325 | 26435 | 3945 | 29535 | 26605 | 4374 |
| | | | 32 | 23 | 38230 | 33230 | 3315 | 34400 | 34380 | 3915 | 32965 | 32965 | 4142 | 30130 | 30130 | 4593 |
| | Slow | 972 | 21 | 15 | 34335 | 23415 | 2862 | 30895 | 23515 | 3380 | 29605 | 23555 | 3575 | 27055 | 23705 | 3925 |
| | | | 24 | 17 | 35265 | 24375 | 3047 | 31740 | 24470 | 3601 | 30410 | 24520 | 3807 | 27790 | 25050 | 4223 |
| | | | 27 | 19 | 35980 | 24570 | 3110 | 32385 | 24680 | 3672 | 31035 | 24720 | 3885 | 28350 | 24880 | 4309 |
| | | | 32 | 23 | 36700 | 31070 | 3266 | 33025 | 32145 | 3857 | 31645 | 30830 | 4079 | 28925 | 28175 | 4523 |
| 0.50 in.wg 125 Pa | High | 1379 | 21 | 15 | 36540 | 24000 | 2917 | 32895 | 24845 | 3445 | 31525 | 25160 | 3643 | 28785 | 27425 | 4040 |
| | | | 24 | 17 | 37535 | 24985 | 3107 | 33790 | 25855 | 3670 | 32380 | 26855 | 3882 | 29565 | 29165 | 4305 |
| | | | 27 | 19 | 38305 | 25190 | 3169 | 34475 | 26065 | 3744 | 33040 | 26390 | 3960 | 30165 | 28775 | 4392 |
| | | | 32 | 23 | 39070 | 35595 | 3329 | 35175 | 35175 | 3931 | 33695 | #NUM! | 4158 | 30765 | 30765 | 4612 |
| | Medium | 1144 | 21 | 15 | 34795 | 22165 | 2892 | 31310 | 22920 | 3414 | 30005 | 23215 | 3611 | 27420 | 23890 | 3955 |
| | | | 24 | 17 | 35735 | 23075 | 3079 | 32160 | 23850 | 3637 | 30820 | 24155 | 3847 | 28170 | 25470 | 4265 |
| | | | 27 | 19 | 36465 | 23255 | 3143 | 32815 | 24055 | 3710 | 31450 | 24355 | 3925 | 28740 | 25075 | 4352 |
| | | | 32 | 23 | 37195 | 30945 | 3299 | 33465 | 33440 | 3895 | 32070 | 32070 | 4121 | 29320 | 29320 | 4570 |
| | Slow | 980 | 21 | 15 | 33410 | 20730 | 2848 | 30060 | 21435 | 3363 | 28800 | 21700 | 3557 | 26325 | 22340 | 3895 |
| | | | 24 | 17 | 34310 | 21580 | 3032 | 30880 | 22300 | 3583 | 29585 | 22590 | 3788 | 27040 | 23815 | 4202 |
| | | | 27 | 19 | 35005 | 21750 | 3095 | 31510 | 22500 | 3653 | 30195 | 22775 | 3865 | 27585 | 23450 | 4287 |
| | | | 32 | 23 | 35705 | 28935 | 3250 | 32130 | 31265 | 3838 | 30785 | 29995 | 4058 | 28145 | 27415 | 4500 |
| 0.64 in.wg 160 Pa | High | 1358 | 21 | 15 | 35115 | 19640 | 2896 | 31615 | 21475 | 3420 | 30295 | 22160 | 3617 | 27660 | 25930 | 4011 |
| | | | 24 | 17 | 36075 | 20445 | 3085 | 32475 | 22345 | 3644 | 31115 | 24045 | 3854 | 28410 | 27900 | 4274 |
| | | | 27 | 19 | 36815 | 20615 | 3147 | 33135 | 22525 | 3717 | 31755 | 23240 | 3932 | 28985 | 27210 | 4361 |
| | | | 32 | 23 | 37545 | 33100 | 3305 | 33805 | 33805 | 3903 | 32380 | #NUM! | 4129 | 29565 | 29565 | 4580 |
| | Medium | 1126 | 21 | 15 | 33440 | 18140 | 2872 | 30090 | 19800 | 3389 | 28830 | 20440 | 3585 | 26360 | 21850 | 3912 |
| | | | 24 | 17 | 34345 | 18885 | 3057 | 30905 | 20605 | 3611 | 29620 | 21265 | 3819 | 27080 | 23625 | 4234 |
| | | | 27 | 19 | 35045 | 19030 | 3121 | 31535 | 20790 | 3683 | 30220 | 21445 | 3897 | 27625 | 22935 | 4320 |
| | | | 32 | 23 | 35750 | 27750 | 3275 | 32160 | 32125 | 3867 | 30815 | 30815 | 4092 | 28180 | 28180 | 4537 |
| | Slow | 975 | 21 | 15 | 32110 | 16965 | 2828 | 28885 | 18520 | 3339 | 27675 | 19105 | 3532 | 25305 | 20430 | 3853 |
| | | | 24 | 17 | 32975 | 17665 | 3010 | 29680 | 19265 | 3558 | 28425 | 19890 | 3760 | 25990 | 22090 | 4171 |
| | | | 27 | 19 | 33640 | 17805 | 3073 | 30280 | 19445 | 3626 | 29015 | 20055 | 3837 | 26510 | 21450 | 4256 |
| | | | 32 | 23 | 34315 | 25940 | 3228 | 30875 | 30035 | 3810 | 29575 | 28820 | 4029 | 27055 | 26355 | 4467 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT48N-518T Cool Only
## 380-420V / 3Ph / 50Hz

42KDHT48N-718T

38KDHT48N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 1711 | 21 | 15 | 47035 | 43650 | 3695 | 44370 | 43415 | 4315 | 43370 | 43325 | 4547 | 41370 | 41330 | 5011 |
| | | | 24 | 17 | 48315 | 45435 | 3936 | 45580 | 45190 | 4595 | 44550 | 45100 | 4843 | 42500 | 42500 | 5338 |
| | | | 27 | 19 | 49300 | 45800 | 4016 | 46510 | 45555 | 4689 | 45460 | 45460 | 4942 | 43365 | 43365 | 4557 |
| | | | 32 | 23 | 50285 | 50285 | 4217 | 47440 | 47440 | 4923 | 46370 | 46370 | 5189 | 44235 | 44235 | 5719 |
| | Medium | 1464 | 21 | 15 | 40525 | 34465 | 3600 | 38230 | 34275 | 4203 | 37370 | 34205 | 4430 | 35645 | 34060 | 4882 |
| | | | 24 | 17 | 41630 | 35875 | 3835 | 39275 | 35680 | 4478 | 38390 | 35605 | 4719 | 36620 | 35455 | 5201 |
| | | | 27 | 19 | 42480 | 36165 | 3913 | 40075 | 35965 | 4569 | 39170 | 38590 | 4815 | 37365 | 35740 | 5307 |
| | | | 32 | 23 | 43330 | 42315 | 4109 | 40880 | 40880 | 4797 | 39955 | 39955 | 5056 | 38115 | 38115 | 5572 |
| | Slow | 1250 | 21 | 15 | 38905 | 32225 | 3546 | 36705 | 32050 | 4140 | 35880 | 31985 | 4364 | 34220 | 31850 | 4809 |
| | | | 24 | 17 | 39965 | 33545 | 3777 | 37705 | 33365 | 4411 | 36855 | 33295 | 4648 | 35160 | 33155 | 5123 |
| | | | 27 | 19 | 40785 | 33815 | 3854 | 38475 | 33630 | 4500 | 37605 | 36085 | 4743 | 35875 | 33420 | 5227 |
| | | | 32 | 23 | 41600 | 39565 | 4047 | 39245 | 38225 | 4725 | 38360 | 37360 | 4980 | 36595 | 35640 | 5488 |
| 0.10 in.wg 25 Pa | High | 1729 | 21 | 15 | 46795 | 41555 | 3672 | 44145 | 41470 | 4288 | 43150 | 41440 | 4518 | 41165 | 40470 | 4979 |
| | | | 24 | 17 | 48070 | 43255 | 3911 | 45350 | 43170 | 4566 | 44325 | 43135 | 4812 | 42290 | 41865 | 5304 |
| | | | 27 | 19 | 49050 | 43600 | 3991 | 46275 | 43515 | 4660 | 45230 | 43480 | 4911 | 43150 | 42460 | 4967 |
| | | | 32 | 23 | 50030 | 49365 | 4190 | 47200 | 47200 | 4892 | 46135 | 46135 | 5156 | 44015 | 44015 | 5683 |
| | Medium | 1472 | 21 | 15 | 40320 | 32810 | 3577 | 38040 | 32740 | 4177 | 37180 | 32715 | 4402 | 35470 | 32665 | 4852 |
| | | | 24 | 17 | 41420 | 34155 | 3811 | 39080 | 34085 | 4450 | 38195 | 34055 | 4689 | 36435 | 34000 | 5168 |
| | | | 27 | 19 | 42265 | 34430 | 3888 | 39875 | 34355 | 4540 | 38975 | 35680 | 4785 | 37180 | 34275 | 5274 |
| | | | 32 | 23 | 43110 | 40285 | 4083 | 40675 | 39600 | 4767 | 39755 | 39145 | 5024 | 37925 | 37925 | 5537 |
| | Slow | 1261 | 21 | 15 | 38710 | 30680 | 3524 | 36520 | 30615 | 4114 | 35700 | 30595 | 4336 | 34050 | 30545 | 4779 |
| | | | 24 | 17 | 39765 | 31935 | 3753 | 37515 | 31870 | 4383 | 36670 | 31845 | 4619 | 34980 | 31795 | 5091 |
| | | | 27 | 19 | 40580 | 32195 | 3830 | 38280 | 32125 | 4472 | 37415 | 33365 | 4713 | 35695 | 32050 | 5194 |
| | | | 32 | 23 | 41390 | 37665 | 4021 | 39050 | 37025 | 4695 | 38165 | 36605 | 4949 | 36410 | 35460 | 5454 |
| 0.20 in.wg 50 Pa | High | 1736 | 21 | 15 | 46555 | 39455 | 3648 | 43920 | 39525 | 4260 | 42930 | 39550 | 4489 | 40955 | 39605 | 4947 |
| | | | 24 | 17 | 47825 | 41070 | 3886 | 45115 | 41145 | 4537 | 44100 | 41170 | 4781 | 42075 | 41225 | 5269 |
| | | | 27 | 19 | 48800 | 41400 | 3965 | 46035 | 41475 | 4630 | 45000 | 41500 | 4879 | 42930 | 41555 | 5377 |
| | | | 32 | 23 | 49775 | 48440 | 4163 | 46955 | 46955 | 4861 | 45900 | 45900 | 5123 | 43790 | 43790 | 5646 |
| | Medium | 1484 | 21 | 15 | 40115 | 31155 | 3554 | 37845 | 31205 | 4150 | 36990 | 31225 | 4374 | 35290 | 31265 | 4821 |
| | | | 24 | 17 | 41210 | 32430 | 3786 | 38880 | 32485 | 4421 | 38000 | 32500 | 4659 | 36250 | 32545 | 5135 |
| | | | 27 | 19 | 42050 | 32690 | 3863 | 39670 | 32745 | 4511 | 38775 | 32765 | 4754 | 36990 | 32805 | 5240 |
| | | | 32 | 23 | 42890 | 38250 | 4056 | 40465 | 38315 | 4736 | 39550 | 38335 | 4992 | 37730 | 37730 | 5502 |
| | Low | 1270 | 21 | 15 | 38515 | 29130 | 3501 | 36335 | 29180 | 4088 | 35515 | 29200 | 4308 | 33880 | 29235 | 4749 |
| | | | 24 | 17 | 39565 | 30325 | 3729 | 37325 | 30375 | 4355 | 36480 | 30390 | 4589 | 34800 | 30430 | 5058 |
| | | | 27 | 19 | 40370 | 30570 | 3805 | 38085 | 30620 | 4443 | 37225 | 30640 | 4683 | 35515 | 30675 | 5161 |
| | | | 32 | 23 | 41175 | 35765 | 3995 | 38850 | 35825 | 4665 | 37970 | 35845 | 4917 | 36225 | 35280 | 5419 |
| 0.30 in.wg 75 Pa | High | 1726 | 21 | 15 | 46315 | 37360 | 3625 | 43695 | 37580 | 4233 | 42710 | 37665 | 4460 | 40750 | 38745 | 4915 |
| | | | 24 | 17 | 47580 | 38890 | 3861 | 44885 | 39125 | 4508 | 43875 | 39205 | 4750 | 41865 | 40590 | 5235 |
| | | | 27 | 19 | 48550 | 39200 | 3940 | 45800 | 39435 | 4601 | 44770 | 39520 | 4848 | 42715 | 40650 | 5787 |
| | | | 32 | 23 | 49520 | 47520 | 4136 | 46715 | 46715 | 4830 | 45665 | 45665 | 5090 | 43570 | 43570 | 5610 |
| | Medium | 1467 | 21 | 15 | 39910 | 29500 | 3531 | 37655 | 29670 | 4124 | 36800 | 29735 | 4346 | 35115 | 29870 | 4791 |
| | | | 24 | 17 | 41000 | 30710 | 3762 | 38685 | 30890 | 4393 | 37805 | 30950 | 4629 | 36065 | 31090 | 5102 |
| | | | 27 | 19 | 41835 | 30955 | 3838 | 39470 | 31135 | 4482 | 38580 | 29855 | 4724 | 36805 | 31340 | 5207 |
| | | | 32 | 23 | 42670 | 36220 | 4030 | 40260 | 37035 | 4706 | 39350 | 37525 | 4960 | 37540 | 37540 | 5467 |
| | Slow | 1258 | 21 | 15 | 38320 | 27585 | 3479 | 36150 | 27745 | 4062 | 35335 | 27810 | 4280 | 33710 | 27930 | 4719 |
| | | | 24 | 17 | 39365 | 28715 | 3705 | 37135 | 28880 | 4327 | 36295 | 28940 | 4560 | 34620 | 29070 | 5026 |
| | | | 27 | 19 | 40165 | 28950 | 3781 | 37890 | 29115 | 4415 | 37035 | 27920 | 4653 | 35335 | 29305 | 5128 |
| | | | 32 | 23 | 40965 | 33865 | 3969 | 38655 | 34625 | 4635 | 37775 | 35090 | 4886 | 36040 | 35100 | 5385 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT48N-518T Cool Only
## 380-420V / 3Ph / 50Hz

42KDHT48N-518T

38KDHT48N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.40 in.wg 100 Pa | High | 1729 | 21 | 15 | 46075 | 35260 | 3601 | 43470 | 35635 | 4205 | 42490 | 35775 | 4431 | 40540 | 37880 | 4883 |
| | | | 24 | 17 | 47335 | 36705 | 3836 | 44650 | 37100 | 4479 | 43650 | 37240 | 4719 | 41650 | 39950 | 5200 |
| | | | 27 | 19 | 48300 | 37000 | 3914 | 45560 | 37395 | 4571 | 44540 | 37540 | 4816 | 42495 | 39745 | 6197 |
| | | | 32 | 23 | 49265 | 46595 | 4109 | 46470 | 46470 | 4799 | 45430 | 45430 | 5057 | 43345 | 43345 | 5573 |
| | Medium | 1486 | 21 | 15 | 39705 | 27845 | 3508 | 37460 | 28135 | 4097 | 36610 | 28245 | 4318 | 34935 | 28470 | 4760 |
| | | | 24 | 17 | 40790 | 28985 | 3737 | 38485 | 29290 | 4364 | 37610 | 29395 | 4599 | 35880 | 29635 | 5069 |
| | | | 27 | 19 | 41620 | 29215 | 3813 | 39265 | 29525 | 4453 | 38380 | 26940 | 4693 | 36615 | 29870 | 5173 |
| | | | 32 | 23 | 42450 | 34185 | 4003 | 40050 | 35750 | 4675 | 39145 | 36715 | 4928 | 37345 | 37345 | 5432 |
| | Slow | 1265 | 21 | 15 | 38125 | 26035 | 3456 | 35965 | 26310 | 4036 | 35150 | 26415 | 4252 | 33540 | 26620 | 4689 |
| | | | 24 | 17 | 39165 | 27105 | 3681 | 36945 | 27385 | 4299 | 36105 | 27485 | 4530 | 34440 | 27705 | 4993 |
| | | | 27 | 19 | 39955 | 27325 | 3756 | 37695 | 27610 | 4386 | 36845 | 25195 | 4623 | 35155 | 27930 | 5095 |
| | | | 32 | 23 | 40750 | 31965 | 3943 | 38455 | 33425 | 4605 | 37580 | 34330 | 4854 | 35855 | 34920 | 5350 |
| 0.50 in.wg 125 Pa | High | 1739 | 21 | 15 | 45835 | 33165 | 3578 | 43245 | 33690 | 4178 | 42270 | 33890 | 4402 | 40335 | 37020 | 4851 |
| | | | 24 | 17 | 47090 | 34525 | 3811 | 44420 | 35080 | 4450 | 43425 | 35275 | 4688 | 41440 | 39315 | 5166 |
| | | | 27 | 19 | 48050 | 34800 | 3889 | 45325 | 35355 | 4542 | 44310 | 35560 | 4785 | 42280 | 38840 | 6607 |
| | | | 32 | 23 | 49010 | 45675 | 4082 | 46230 | 46230 | 4768 | 45195 | 45195 | 5024 | 43125 | 43125 | 5537 |
| | Medium | 1488 | 21 | 15 | 39500 | 26190 | 3485 | 37270 | 26600 | 4071 | 36420 | 26755 | 4290 | 34760 | 27075 | 4730 |
| | | | 24 | 17 | 40580 | 27265 | 3713 | 38290 | 27695 | 4336 | 37415 | 27845 | 4569 | 35695 | 28180 | 5036 |
| | | | 27 | 19 | 41405 | 27480 | 3788 | 39065 | 27915 | 4424 | 38185 | 24030 | 4663 | 36430 | 28405 | 5140 |
| | | | 32 | 23 | 42230 | 32155 | 3977 | 39845 | 34470 | 4645 | 38945 | 35905 | 4896 | 37155 | 37155 | 5397 |
| | Slow | 1273 | 21 | 15 | 37930 | 24490 | 3434 | 35780 | 24875 | 4010 | 34970 | 25025 | 4224 | 33370 | 25315 | 4659 |
| | | | 24 | 17 | 38965 | 25495 | 3657 | 36755 | 25890 | 4271 | 35920 | 26035 | 4501 | 34260 | 26345 | 4961 |
| | | | 27 | 19 | 39750 | 25705 | 3732 | 37500 | 26105 | 4358 | 36655 | 22475 | 4593 | 34975 | 26560 | 5062 |
| | | | 32 | 23 | 40540 | 30065 | 3917 | 38260 | 32225 | 4575 | 37385 | 33575 | 4823 | 35670 | 34740 | 5316 |
| 0.64 in.wg 160 Pa | High | 1726 | 21 | 15 | 45500 | 30230 | 3545 | 42930 | 30970 | 4139 | 41965 | 31245 | 4361 | 40045 | 35810 | 4806 |
| | | | 24 | 17 | 46750 | 31470 | 3776 | 44095 | 32250 | 4409 | 43110 | 32525 | 4645 | 41140 | 38420 | 5117 |
| | | | 27 | 19 | 47700 | 31720 | 3853 | 44990 | 32500 | 4500 | 43990 | 32790 | 4740 | 41975 | 37575 | 7181 |
| | | | 32 | 23 | 48655 | 44385 | 4044 | 45890 | 45890 | 4725 | 44870 | 44870 | 4978 | 42815 | 42815 | 5485 |
| | Medium | 1464 | 21 | 15 | 39215 | 23875 | 3453 | 37000 | 24455 | 4033 | 36155 | 24670 | 4251 | 34510 | 25120 | 4687 |
| | | | 24 | 17 | 40290 | 24855 | 3678 | 38015 | 25460 | 4296 | 37145 | 25670 | 4527 | 35440 | 26145 | 4990 |
| | | | 27 | 19 | 41105 | 25045 | 3753 | 38780 | 25665 | 4383 | 37910 | 19950 | 4620 | 36165 | 26350 | 5093 |
| | | | 32 | 23 | 41925 | 29310 | 3939 | 39555 | 32675 | 4602 | 38660 | 34775 | 4851 | 36885 | 36885 | 5348 |
| | Slow | 1255 | 21 | 15 | 37660 | 22325 | 3402 | 35525 | 22870 | 3974 | 34715 | 23075 | 4185 | 33135 | 23485 | 4617 |
| | | | 24 | 17 | 38685 | 23245 | 3623 | 36490 | 23800 | 4232 | 35655 | 24000 | 4459 | 34010 | 24435 | 4915 |
| | | | 27 | 19 | 39460 | 23435 | 3697 | 37230 | 24000 | 4318 | 36390 | 18665 | 4551 | 34725 | 24640 | 5016 |
| | | | 32 | 23 | 40240 | 27405 | 3881 | 37985 | 30545 | 4533 | 37115 | 32515 | 4778 | 35415 | 34490 | 5267 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT60N-518T Cool Only
## 380-420V / 3Ph / 50Hz

42KDHT60N-518T

38KDHT60N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0 in.wg 0 Pa | High | 1799 | 21 | 15 | 57495 | 48845 | 4552 | 52475 | 49975 | 5258 | 50590 | 50400 | 5523 | 46830 | 46780 | 6052 |
| | | | 24 | 17 | 59060 | 50845 | 4849 | 53905 | 52020 | 5601 | 51970 | 51970 | 5883 | 48105 | 48105 | 6446 |
| | | | 27 | 19 | 60265 | 51255 | 4948 | 55005 | 52440 | 5715 | 53030 | 52885 | 6003 | 49085 | 49085 | 6578 |
| | | | 32 | 23 | 61470 | 59970 | 5195 | 56105 | 56105 | 6001 | 54090 | 54090 | 6303 | 50070 | 50070 | 6907 |
| | Medium | 1532 | 21 | 15 | 50690 | 37420 | 4462 | 46260 | 38290 | 5154 | 44600 | 38610 | 5413 | 41280 | 39265 | 5932 |
| | | | 24 | 17 | 52075 | 38950 | 4753 | 47520 | 39855 | 5490 | 45815 | 40190 | 5766 | 42405 | 40870 | 6319 |
| | | | 27 | 19 | 53135 | 39265 | 4850 | 48490 | 40175 | 5602 | 46750 | 40515 | 5884 | 43270 | 41200 | 6448 |
| | | | 32 | 23 | 54200 | 45940 | 5092 | 49460 | 47005 | 5882 | 47685 | 47405 | 6178 | 44135 | 44135 | 6770 |
| | Slow | 1205 | 21 | 15 | 48665 | 34990 | 4395 | 44410 | 35805 | 5077 | 42820 | 36105 | 5332 | 39630 | 36715 | 5843 |
| | | | 24 | 17 | 49995 | 36420 | 4682 | 45620 | 37265 | 5408 | 43985 | 37580 | 5680 | 40710 | 38215 | 6224 |
| | | | 27 | 19 | 51010 | 36715 | 4777 | 46555 | 37565 | 5518 | 44880 | 37885 | 5796 | 41540 | 38525 | 6351 |
| | | | 32 | 23 | 52035 | 42955 | 5016 | 47485 | 43950 | 5794 | 45780 | 44325 | 6085 | 42370 | 41270 | 6668 |
| 0.10 in.wg 25 Pa | High | 1791 | 21 | 15 | 56560 | 46290 | 4518 | 51620 | 47365 | 5219 | 49765 | 47765 | 5482 | 46065 | 46020 | 6007 |
| | | | 24 | 17 | 58100 | 48185 | 4813 | 53025 | 49300 | 5561 | 51125 | 49470 | 5839 | 47320 | 47320 | 6398 |
| | | | 27 | 19 | 59285 | 48575 | 4911 | 54110 | 49700 | 5673 | 52165 | 50120 | 5958 | 48285 | 48285 | 6529 |
| | | | 32 | 23 | 60470 | 56830 | 5157 | 55190 | 50690 | 5956 | 53210 | 53210 | 6256 | 49255 | 49255 | 6856 |
| | Medium | 1549 | 21 | 15 | 49865 | 35465 | 4429 | 45510 | 36285 | 5116 | 43875 | 36590 | 5373 | 40610 | 37210 | 5889 |
| | | | 24 | 17 | 51225 | 36915 | 4718 | 46750 | 37770 | 5450 | 45070 | 38085 | 5724 | 41715 | 38730 | 6273 |
| | | | 27 | 19 | 52270 | 37210 | 4814 | 47700 | 38070 | 5561 | 45990 | 38395 | 5841 | 42565 | 39040 | 6401 |
| | | | 32 | 23 | 53315 | 43535 | 5055 | 48655 | 44545 | 5839 | 46910 | 44920 | 6133 | 43420 | 43420 | 6721 |
| | Slow | 1201 | 21 | 15 | 47870 | 33160 | 4363 | 43690 | 33930 | 5039 | 42120 | 34215 | 5293 | 38985 | 34795 | 5800 |
| | | | 24 | 17 | 49180 | 34515 | 4647 | 44880 | 35315 | 5368 | 43270 | 35615 | 5638 | 40050 | 36215 | 6179 |
| | | | 27 | 19 | 50180 | 34795 | 4742 | 45795 | 35600 | 5477 | 44150 | 35900 | 5753 | 40865 | 36505 | 6305 |
| | | | 32 | 23 | 51185 | 40710 | 4979 | 46715 | 41650 | 5751 | 45035 | 42005 | 6041 | 41685 | 40600 | 6620 |
| 0.20 in.wg 50 Pa | High | 1750 | 21 | 15 | 55620 | 43735 | 4484 | 50765 | 44750 | 5180 | 48940 | 45125 | 5440 | 45300 | 45255 | 5962 |
| | | | 24 | 17 | 57135 | 45525 | 4776 | 52145 | 46580 | 5520 | 50275 | 46970 | 5795 | 46535 | 46535 | 6350 |
| | | | 27 | 19 | 58300 | 45890 | 4874 | 53210 | 46955 | 5630 | 51300 | 47350 | 5913 | 47485 | 47485 | 6480 |
| | | | 32 | 23 | 59465 | 53690 | 5118 | 54275 | 45275 | 5911 | 52325 | 52325 | 6209 | 48435 | 48435 | 6804 |
| | Medium | 1507 | 21 | 15 | 49035 | 33505 | 4396 | 44755 | 34275 | 5077 | 43145 | 34565 | 5333 | 39935 | 35150 | 5845 |
| | | | 24 | 17 | 50375 | 34875 | 4682 | 45975 | 35680 | 5409 | 44320 | 35980 | 5681 | 41025 | 36585 | 6226 |
| | | | 27 | 19 | 51400 | 35155 | 4778 | 46910 | 35965 | 5519 | 45225 | 36270 | 5797 | 41860 | 36880 | 6353 |
| | | | 32 | 23 | 52430 | 41130 | 5017 | 47850 | 42080 | 5795 | 46130 | 42435 | 6087 | 42700 | 42700 | 6671 |
| | Slow | 1153 | 21 | 15 | 47075 | 31330 | 4330 | 42965 | 32050 | 5001 | 41420 | 32320 | 5253 | 38340 | 32870 | 5757 |
| | | | 24 | 17 | 48360 | 32610 | 4612 | 44140 | 33365 | 5328 | 42550 | 33645 | 5596 | 39385 | 34210 | 6133 |
| | | | 27 | 19 | 49345 | 32870 | 4706 | 45035 | 33630 | 5436 | 43420 | 33915 | 5710 | 40190 | 34485 | 6258 |
| | | | 32 | 23 | 50335 | 38460 | 4942 | 45940 | 39345 | 5708 | 44285 | 39680 | 5996 | 40995 | 39925 | 6571 |
| 0.30 in.wg 75 Pa | High | 1766 | 21 | 15 | 54685 | 41180 | 4450 | 49910 | 42140 | 5141 | 48115 | 42490 | 5399 | 44535 | 44495 | 5917 |
| | | | 24 | 17 | 56175 | 42865 | 4740 | 51265 | 43860 | 5480 | 49430 | 44470 | 5751 | 45750 | 45750 | 6302 |
| | | | 27 | 19 | 57320 | 43210 | 4837 | 52315 | 44215 | 5588 | 50435 | 44585 | 5868 | 46685 | 46685 | 6431 |
| | | | 32 | 23 | 58465 | 50550 | 5080 | 53360 | 39860 | 5866 | 51445 | 51445 | 6162 | 47620 | 47620 | 6753 |
| | Medium | 1559 | 21 | 15 | 48210 | 31550 | 4363 | 44005 | 32270 | 5039 | 42420 | 32545 | 5293 | 39265 | 33095 | 5802 |
| | | | 24 | 17 | 49525 | 32840 | 4647 | 45205 | 33595 | 5369 | 43575 | 33875 | 5639 | 40335 | 34445 | 6180 |
| | | | 27 | 19 | 50535 | 33100 | 4742 | 46120 | 33860 | 5478 | 44465 | 34150 | 5754 | 41155 | 34720 | 6306 |
| | | | 32 | 23 | 51545 | 38725 | 4980 | 47045 | 39620 | 5752 | 45355 | 39950 | 6042 | 41985 | 41985 | 6622 |
| | Slow | 1159 | 21 | 15 | 46280 | 29500 | 4298 | 42245 | 30175 | 4963 | 40720 | 30430 | 5214 | 37695 | 30950 | 5714 |
| | | | 24 | 17 | 47545 | 30705 | 4577 | 43400 | 31415 | 5288 | 41835 | 31680 | 5554 | 38725 | 32210 | 6088 |
| | | | 27 | 19 | 48515 | 30950 | 4671 | 44275 | 31665 | 5395 | 42690 | 31930 | 5667 | 39515 | 32465 | 6212 |
| | | | 32 | 23 | 49485 | 36215 | 4905 | 45170 | 37045 | 5665 | 43540 | 37360 | 5952 | 40310 | 39255 | 6523 |

# System Cooling Performance Data

## Ducted Split System
## 53KDHT60N-518T Cool Only
## 380-420V / 3Ph / 50Hz

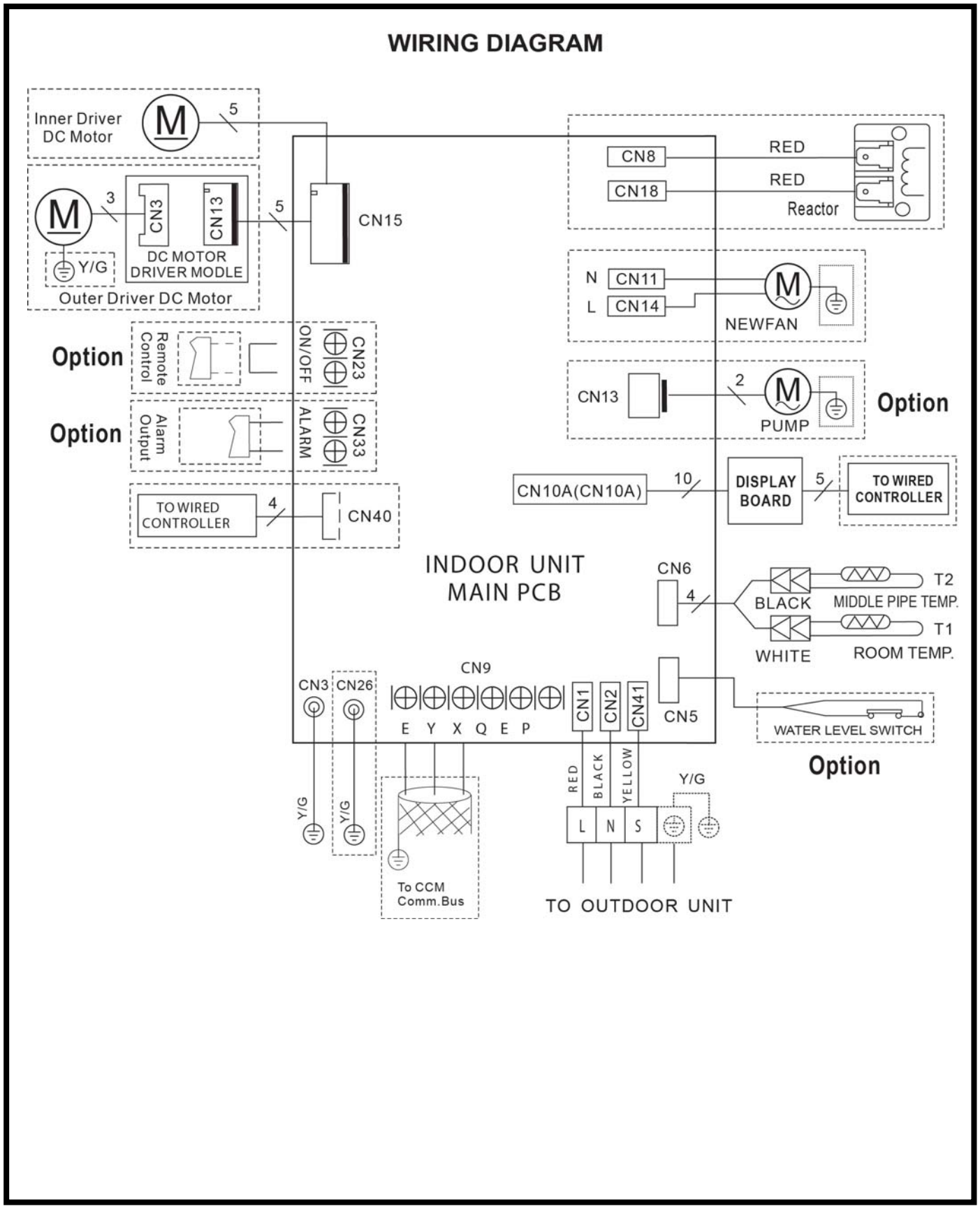
42KDHT60N-518T

38KDHT60N-518T

| Indoor Conditions | | | | | Outdoor Ambient Temperature | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP in.wg Pa | Fan Speed | Air Flow cfm | Temp. °C | | 35°C | | | 43°C | | | 46°C | | | 52°C | | |
| | | | DB | WB | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W | Cooling Capacity Btu/hr | | Input W |
| | | | | | Total | Sensible | | Total | Sensible | | Total | Sensible | | Total | Sensible | |
| 0.40 in.wg 100 Pa | High | 1763 | 21 | 15 | 53745 | 38625 | 4416 | 49055 | 39525 | 5102 | 47290 | 39850 | 5357 | 43770 | 43730 | 5872 |
| | | | 24 | 17 | 55210 | 40205 | 4703 | 50385 | 41140 | 5439 | 48580 | 41970 | 5707 | 44965 | 44965 | 6254 |
| | | | 27 | 19 | 56335 | 40525 | 4800 | 51415 | 41470 | 5545 | 49570 | 41815 | 5823 | 45885 | 45885 | 6382 |
| | | | 32 | 23 | 57460 | 47410 | 5041 | 52445 | 34445 | 5821 | 50560 | 50560 | 6115 | 46800 | 46800 | 6701 |
| | Medium | 1562 | 21 | 15 | 47380 | 29590 | 4330 | 43250 | 30260 | 5000 | 41690 | 30520 | 5253 | 38590 | 31035 | 5758 |
| | | | 24 | 17 | 48675 | 30800 | 4611 | 44430 | 31505 | 5328 | 42825 | 31770 | 5596 | 39645 | 32300 | 6133 |
| | | | 27 | 19 | 49665 | 31045 | 4706 | 45330 | 31755 | 5436 | 43700 | 32025 | 5710 | 40450 | 32560 | 6258 |
| | | | 32 | 23 | 50660 | 36320 | 4942 | 46240 | 37155 | 5708 | 44575 | 37465 | 5996 | 41265 | 41265 | 6572 |
| | Slow | 1147 | 21 | 15 | 45485 | 27670 | 4265 | 41520 | 28295 | 4925 | 40020 | 28535 | 5174 | 37050 | 29025 | 5671 |
| | | | 24 | 17 | 46725 | 28800 | 4542 | 42660 | 29465 | 5248 | 41115 | 29710 | 5512 | 38060 | 30205 | 6042 |
| | | | 27 | 19 | 47680 | 29025 | 4635 | 43515 | 29695 | 5354 | 41960 | 29945 | 5624 | 38840 | 30445 | 6165 |
| | | | 32 | 23 | 48635 | 33965 | 4868 | 44395 | 34740 | 5622 | 42790 | 35035 | 5907 | 39620 | 38580 | 6474 |
| 0.50 in.wg 125 Pa | High | 1752 | 21 | 15 | 52810 | 36070 | 4382 | 48200 | 36915 | 5063 | 46465 | 37215 | 5316 | 43005 | 42970 | 5827 |
| | | | 24 | 17 | 54250 | 37545 | 4667 | 49505 | 38420 | 5399 | 47735 | 39470 | 5663 | 44180 | 44180 | 6206 |
| | | | 27 | 19 | 55355 | 37845 | 4763 | 50520 | 38730 | 5503 | 48705 | 39050 | 5778 | 45085 | 45085 | 6333 |
| | | | 32 | 23 | 56460 | 44270 | 5003 | 51530 | 29030 | 5776 | 49680 | 49680 | 6068 | 45985 | 45985 | 6650 |
| | Medium | 1635 | 21 | 15 | 46555 | 27635 | 4297 | 42500 | 28255 | 4962 | 40965 | 28500 | 5213 | 37920 | 28980 | 5715 |
| | | | 24 | 17 | 47825 | 28765 | 4576 | 43660 | 29420 | 5288 | 42080 | 29665 | 5554 | 38955 | 30160 | 6087 |
| | | | 27 | 19 | 48800 | 28990 | 4670 | 44540 | 29650 | 5395 | 42940 | 29905 | 5667 | 39745 | 30400 | 6211 |
| | | | 32 | 23 | 49775 | 33915 | 4905 | 45435 | 34695 | 5665 | 43800 | 34980 | 5951 | 40550 | 40550 | 6523 |
| | Slow | 1183 | 21 | 15 | 44690 | 25840 | 4233 | 40800 | 26420 | 4887 | 39320 | 26645 | 5135 | 36405 | 27105 | 5628 |
| | | | 24 | 17 | 45910 | 26895 | 4507 | 41920 | 27515 | 5208 | 40400 | 27745 | 5470 | 37400 | 28205 | 5997 |
| | | | 27 | 19 | 46850 | 27105 | 4600 | 42755 | 27730 | 5313 | 41230 | 27960 | 5581 | 38165 | 28425 | 6119 |
| | | | 32 | 23 | 47785 | 31720 | 4831 | 43625 | 32440 | 5579 | 42045 | 32715 | 5863 | 38935 | 37910 | 6426 |
| 0.64 in.wg 160 Pa | High | 1473 | 21 | 15 | 51495 | 32495 | 4334 | 47005 | 33255 | 5008 | 45310 | 33520 | 5257 | 41935 | 41900 | 5764 |
| | | | 24 | 17 | 52900 | 33825 | 4615 | 48275 | 34615 | 5342 | 46550 | 35970 | 5601 | 43085 | 43085 | 6139 |
| | | | 27 | 19 | 53980 | 34090 | 4711 | 49265 | 34890 | 5443 | 47495 | 35175 | 5715 | 43965 | 43965 | 6264 |
| | | | 32 | 23 | 55055 | 39875 | 4949 | 50250 | 21450 | 5713 | 48445 | 48445 | 6002 | 44840 | 44840 | 6577 |
| | Medium | 1324 | 21 | 15 | 45395 | 24895 | 4251 | 41445 | 25445 | 4908 | 39945 | 25670 | 5157 | 36980 | 26100 | 5654 |
| | | | 24 | 17 | 46635 | 25910 | 4526 | 42580 | 26495 | 5231 | 41035 | 26720 | 5494 | 37990 | 27160 | 6021 |
| | | | 27 | 19 | 47585 | 26115 | 4620 | 43435 | 26705 | 5336 | 41870 | 26935 | 5606 | 38760 | 27380 | 6144 |
| | | | 32 | 23 | 48540 | 30550 | 4852 | 44310 | 31245 | 5604 | 42710 | 31505 | 5887 | 39545 | 39545 | 6453 |
| | Slow | 802 | 21 | 15 | 43580 | 23280 | 4187 | 39790 | 23790 | 4834 | 38340 | 23995 | 5079 | 35505 | 24415 | 5568 |
| | | | 24 | 17 | 44765 | 24230 | 4458 | 40885 | 24785 | 5152 | 39395 | 24990 | 5411 | 36470 | 25400 | 5933 |
| | | | 27 | 19 | 45685 | 24415 | 4550 | 41695 | 24975 | 5256 | 40210 | 25185 | 5521 | 37220 | 25600 | 6053 |
| | | | 32 | 23 | 46595 | 28575 | 4779 | 42545 | 29215 | 5519 | 41000 | 29465 | 5800 | 37970 | 36970 | 6358 |

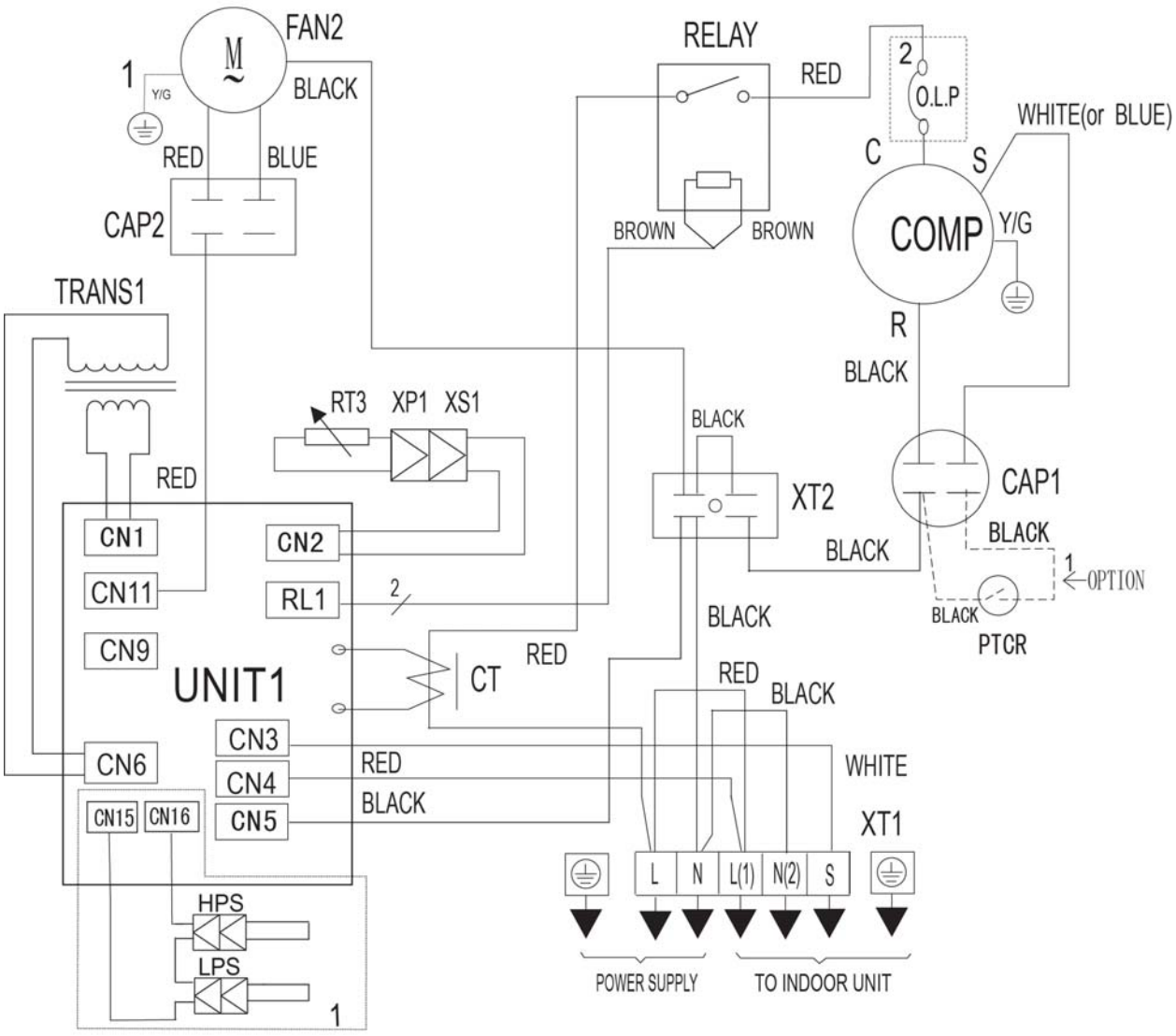
# 14. Wiring Diagrams

**Ducted Split System – Medium Static Pressure**
**Ducted Indoor Unit 42KDMT12N-718 Cool Only**
**220-240V / 1Ph / 50Hz**



# Wiring Diagrams

## Ducted Split System – Medium Static Pressure
**Outdoor Unit 38KDMT12N-718 Cool Only**
**220-240V / 1Ph / 50Hz**




| Code | Part Name |
|---|---|
| UNIT1 | Outdoor Control PCB |
| COMP | Compressor |
| RELAY | Compressor Relay |
| CAP1 | Compressor Run Capacitor |
| CAP2 | Outdoor Fan Capacitor |
| FAN2 | Outdoor Fan Motor |
| XT1 | Terminal |
| XT2 | Model Terminal |

| Code | Part Name |
|---|---|
| XP1, XS1 | Connectors |
| RT3 | Pipe Temperature Sensor |
| CT | Current Inductor |
| TRANS1 | Transformer |
| CN1-CN11 | PCB Sockets |
| PTCR | PTCR Starer ( option ) |
| HSP | High Pressure Switch |
| LPS | Low Pressure Switch |

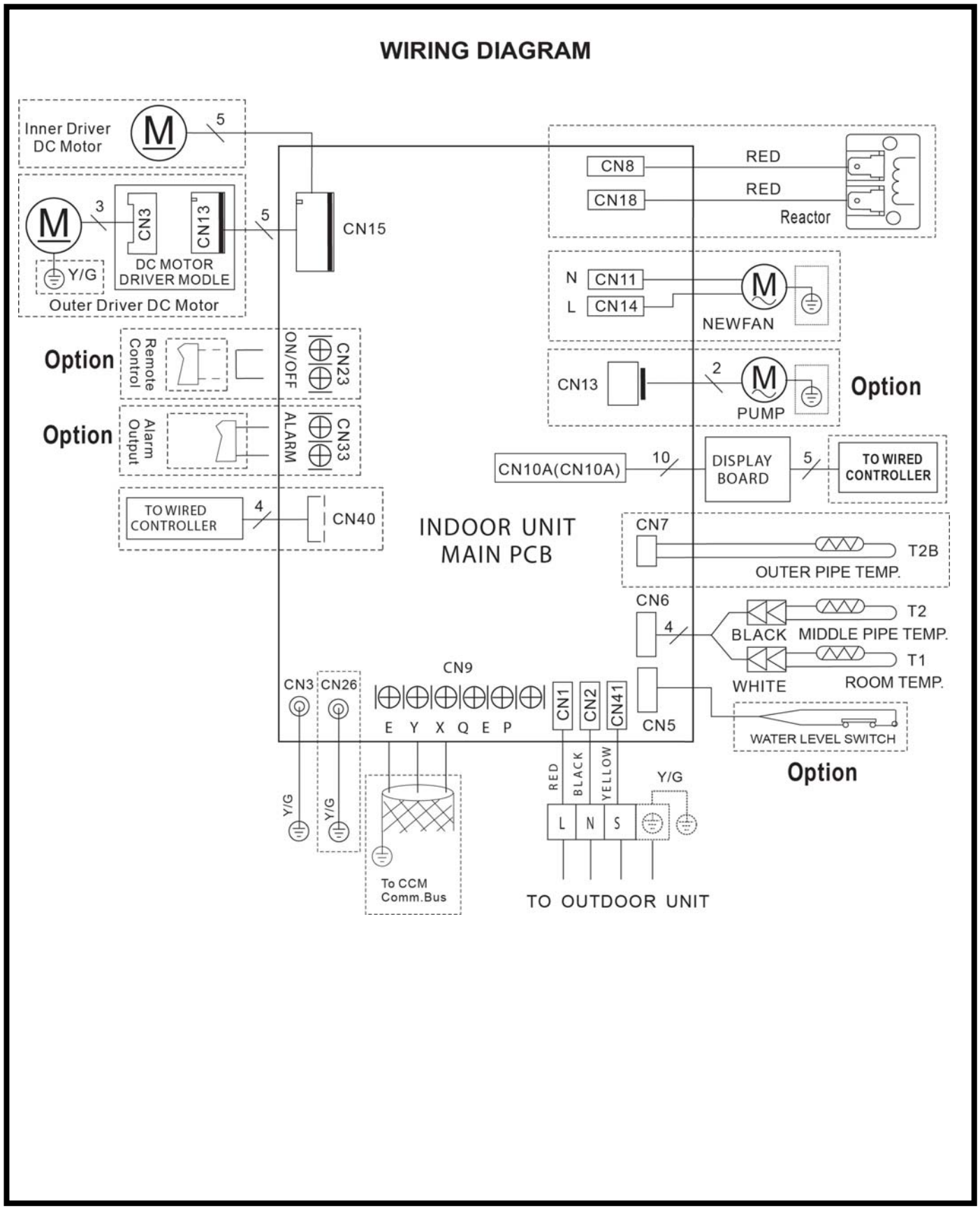
**Notes:**
**Symbol 1 : indicates the element is optional, the actual shape shall be prevail.**
**Symbol 2 : indicates compressor internal or external components.**

# Wiring Diagrams

## Ducted Split System – Medium Static Pressure

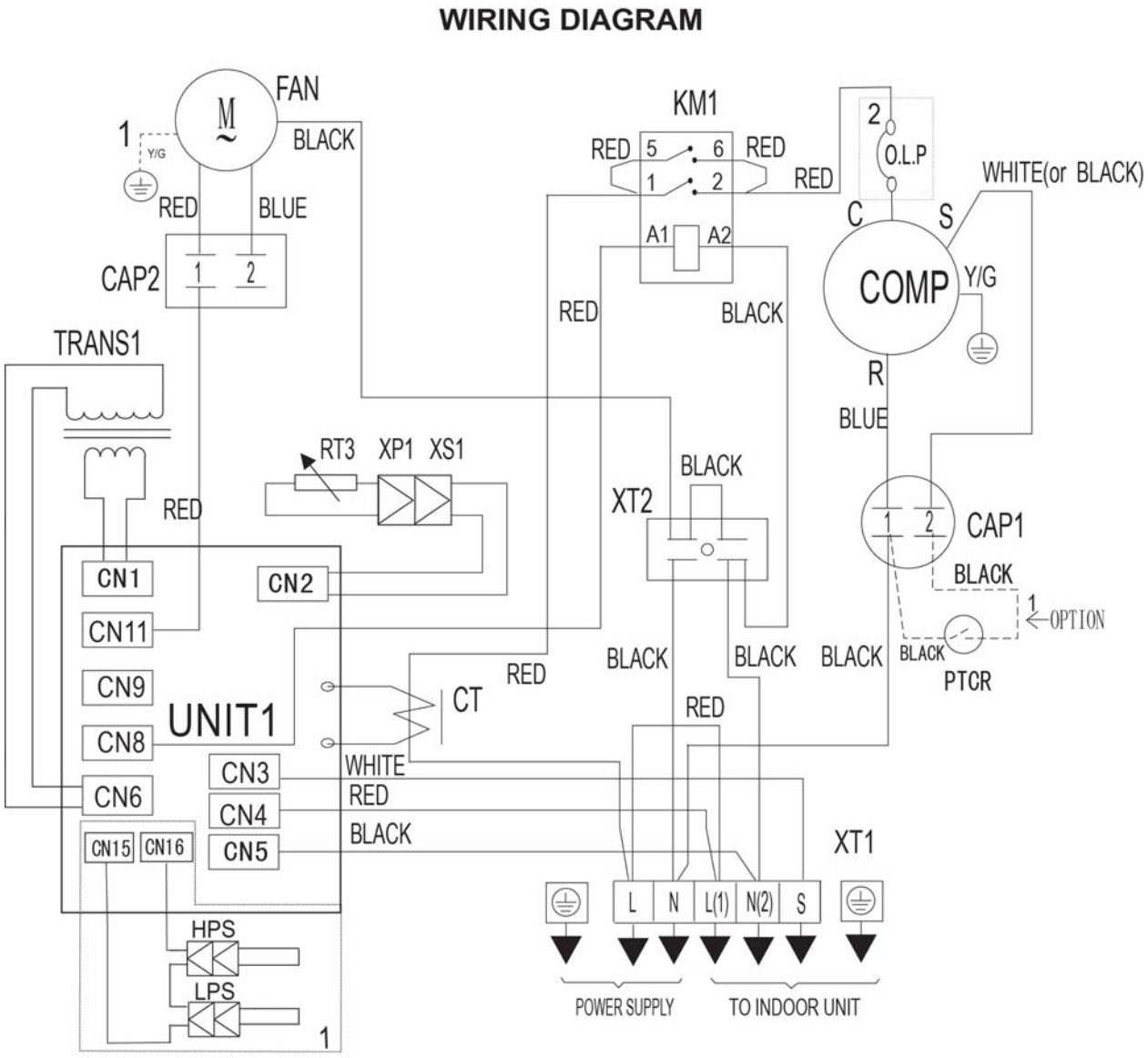
**Ducted Indoor Unit 42KDMT18N-718 Cool Only**

**220-240V / 1Ph / 50Hz**



# Wiring Diagrams

## Ducted Split System – Medium Static Pressure
**Outdoor Unit 38KDMT18N-718 Cool Only**
**220-240V / 1Ph / 50Hz**



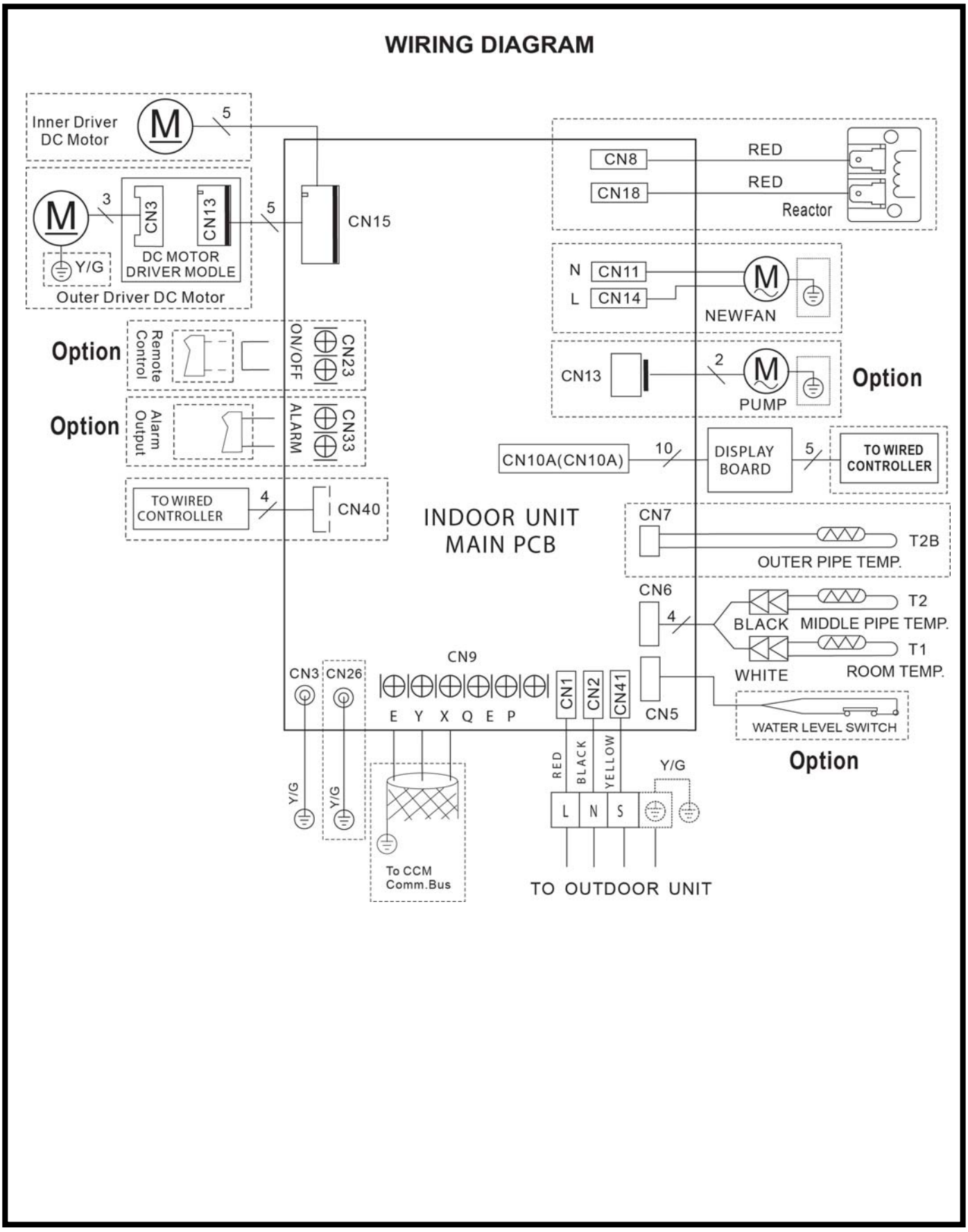

| Code | Part Name |
|---|---|
| UNIT1 | Outdoor Control PCB |
| COMP | Compressor |
| RELAY | Compressor Relay |
| CAP1 | Compressor Run Capacitor |
| CAP2 | Outdoor Fan Capacitor |
| FAN | Outdoor Fan Motor |
| XT1 | Terminal |
| XT2 | Model Terminal |

| Code | Part Name |
|---|---|
| XP1, XS1 | Connectors |
| RT3 | Pipe Temperature Sensor |
| CT | Current Inductor |
| TRANS1 | Transformer |
| CN1-CN11 | PCB Sockets |
| PTCR | PTCR Starer ( option ) |
| HSP | High Pressure Switch |
| LPS | Low Pressure Switch |

**Notes:**
**Symbol 1 : indicates the element is optional, the actual shape shall be prevail.**
**Symbol 2 : indicates compressor internal or external components.**

# Wiring Diagrams

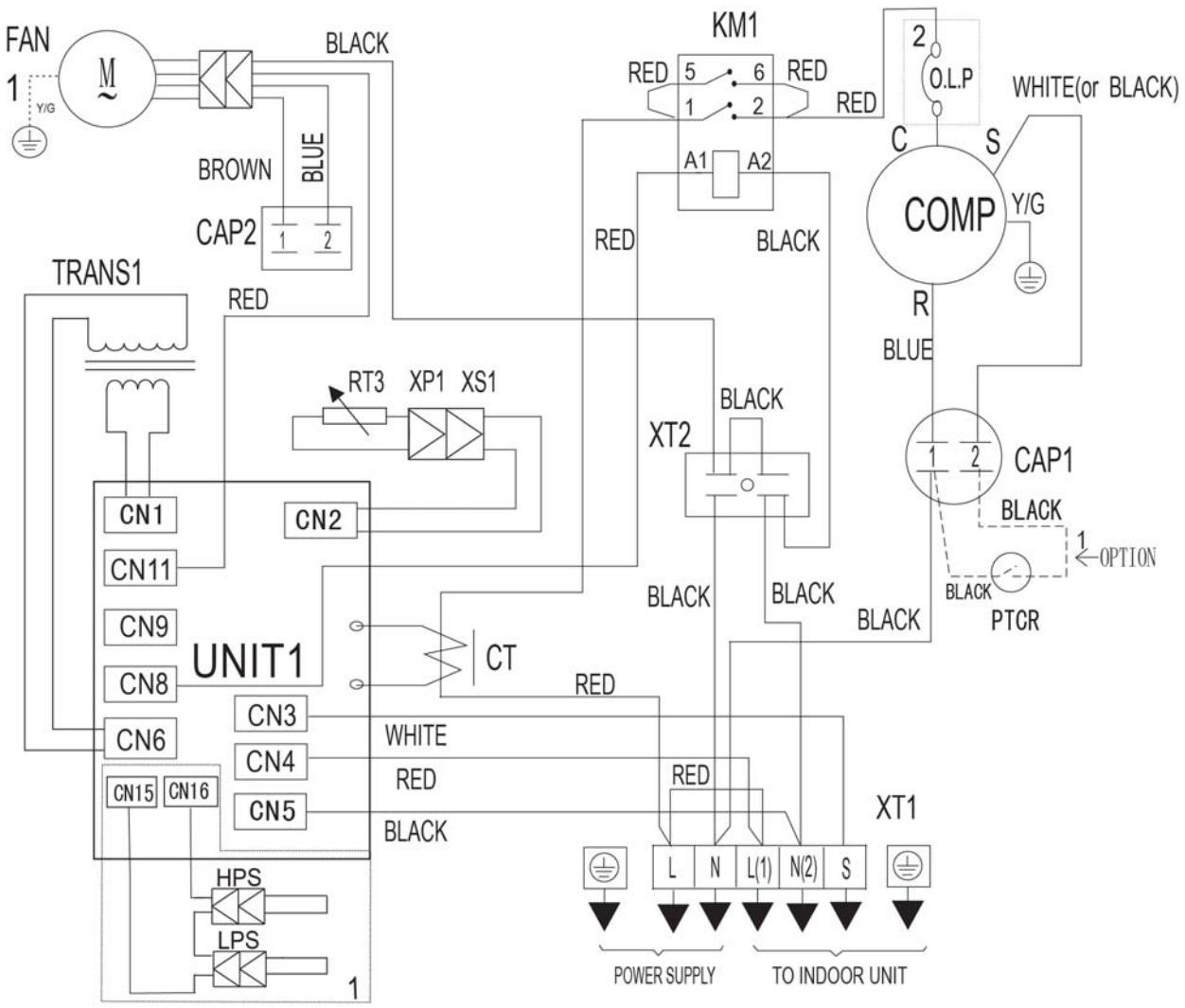
**Ducted Split System – Medium Static Pressure**
**Ducted Indoor Unit 42KDMT24N-718 Cool Only**
**220-240V / 1Ph / 50Hz**



# Wiring Diagrams

## Ducted Split System – Medium Static Pressure
**Outdoor Unit 38KDMT24N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

### WIRING DIAGRAM



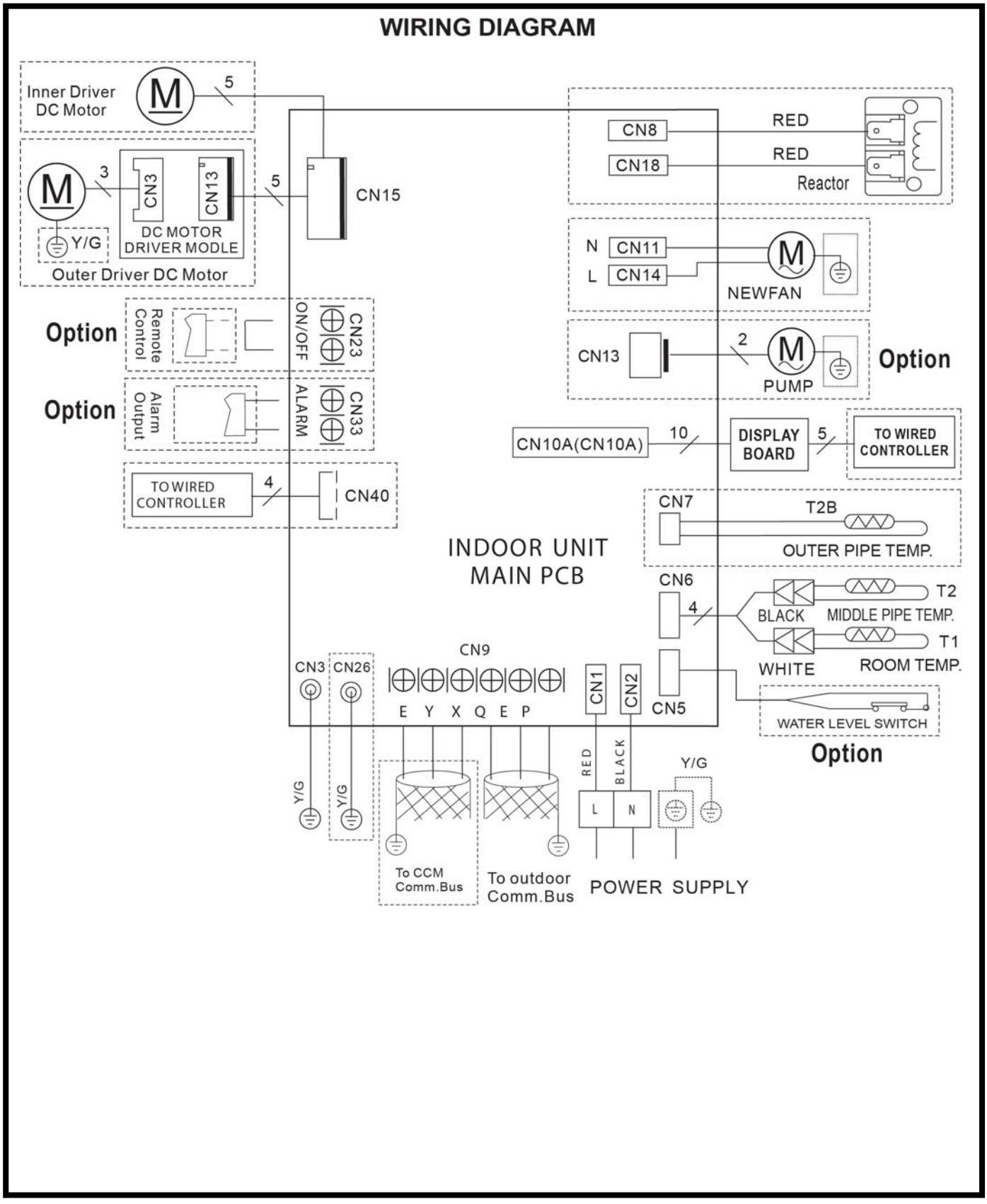

| Code | Part Name |
|---|---|
| UNIT1 | Outdoor Control PCB |
| COMP | Compressor |
| RELAY | Compressor Relay |
| CAP1 | Compressor Run Capacitor |
| CAP2 | Outdoor Fan Capacitor |
| FAN | Outdoor Fan Motor |
| XT1 | Terminal |
| XT2 | Model Terminal |
| XP1, XS1 | Connectors |

| Code | Part Name |
|---|---|
| RT3 | Pipe Temperature Sensor |
| KM1 | AC Contactor |
| CT | Current Inductor |
| TRANS1 | Transformer |
| CN1-CN11 | PCB Sockets |
| PTCR | PTCR Starer ( option ) |
| HSP | High Pressure Switch |
| LPS | Low Pressure Switch |

**Notes:**
**Symbol 1 : indicates the element is optional, the actual shape shall be prevail.**
**Symbol 2 : indicates compressor internal or external components.**

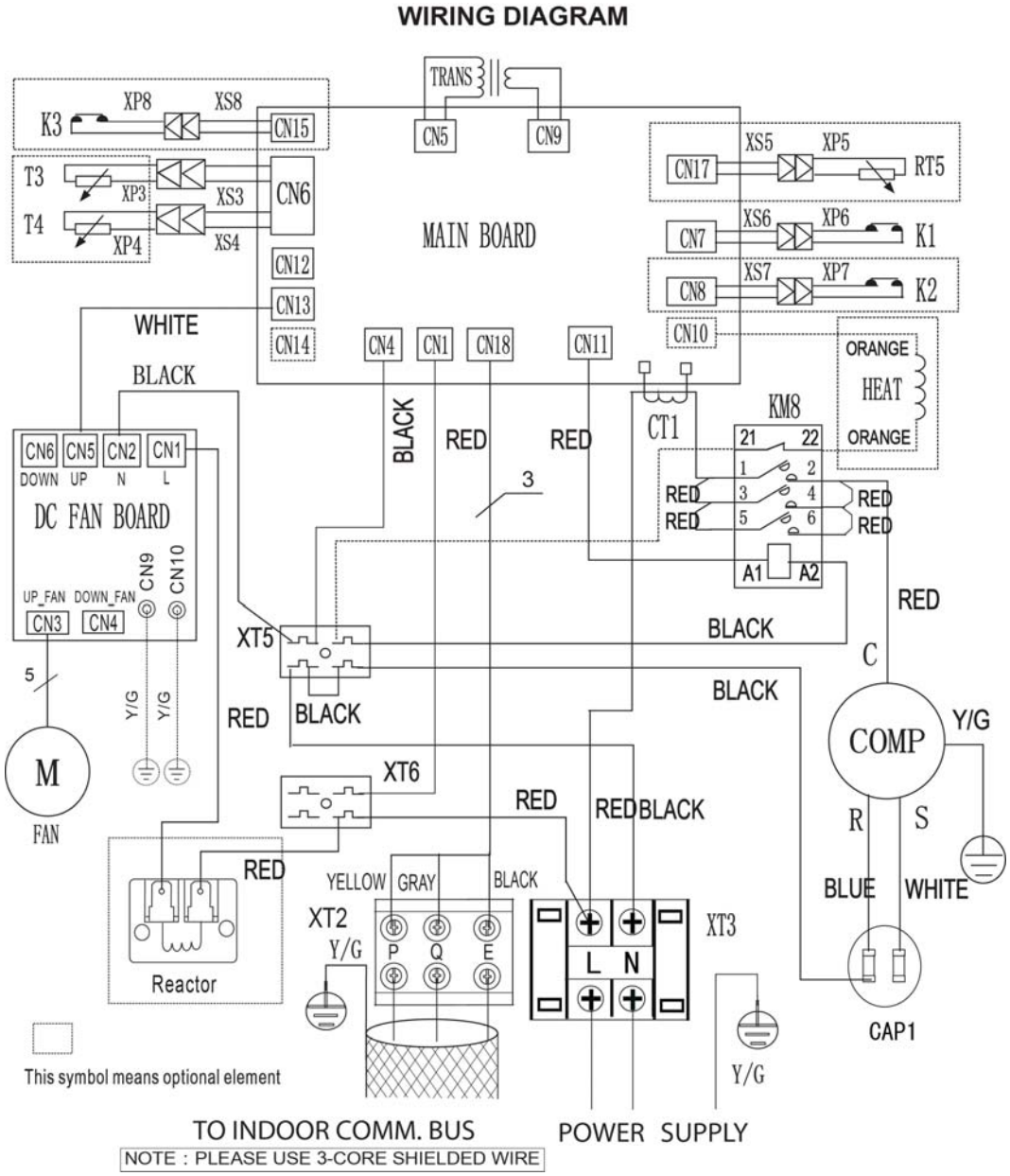
# Wiring Diagrams

**Ducted Split System – Medium Static Pressure**
**Ducted Indoor Unit 42KDMT30N-718 Cool Only**
**220-240V / 1Ph / 50Hz**



# Wiring Diagrams

## Ducted Split System – Medium Static Pressure
**Outdoor Unit 38KDMT30N-718 Cool Only**
**220-240V / 1Ph / 50Hz**

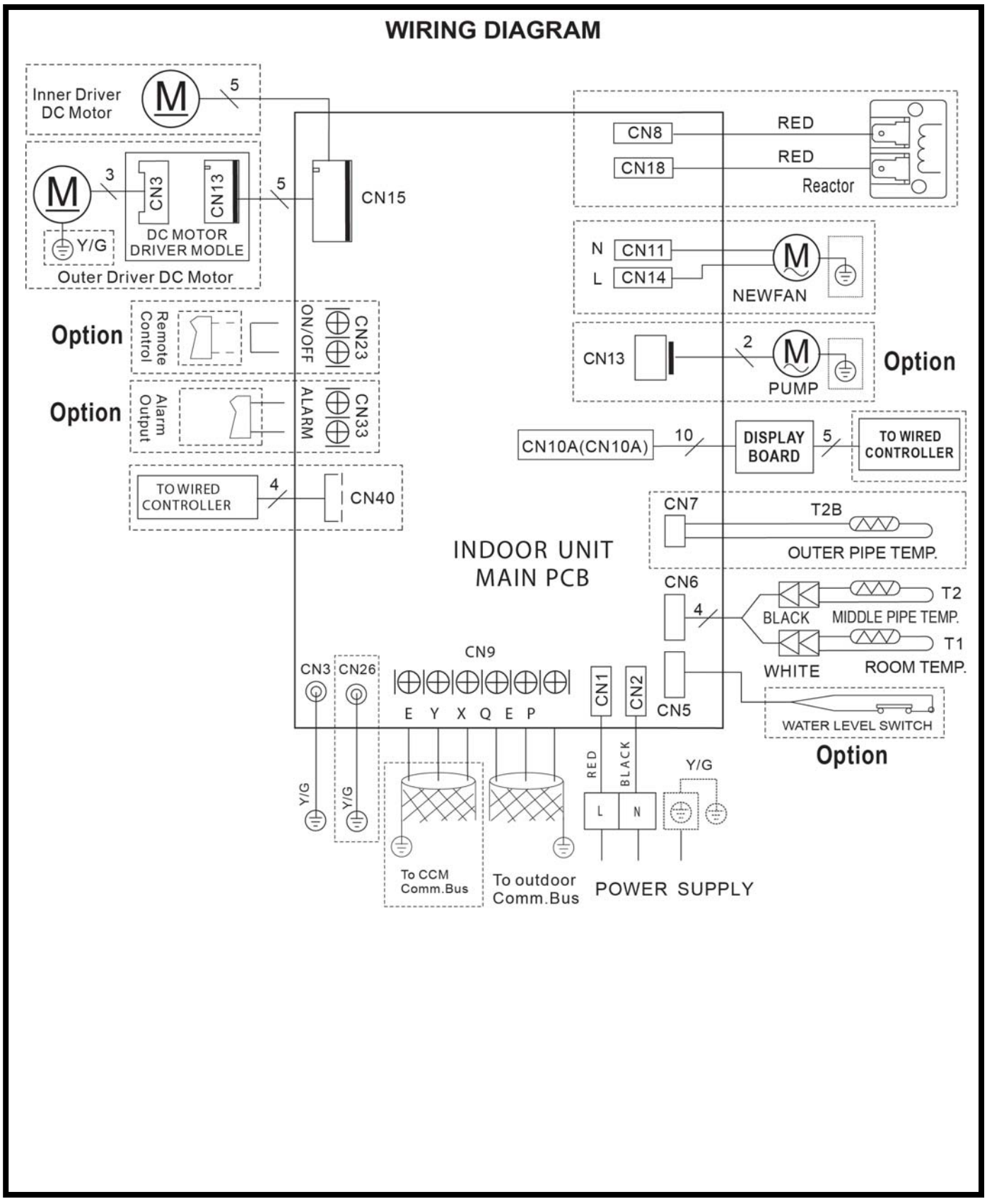



| Code | Part Name |
|---|---|
| FAN | Outdoor Fan Motor |
| C1 – C2 | Fan Capacitors |
| KM8 | AC Contactor |
| COMP | Compressor |
| XT2 | 3-Way Terminal |
| XT3 | 4-Way Terminal |
| XT5-7 | Connectors |
| T3 | Pipe Temperature Sensor |
| T4 | Outdoor Temperature Sensor |

| Code | Part Name |
|---|---|
| XP3 - XP8 | Contactors |
| XS3 - XS8 | Contactors |
| CT1 | Current Inductor |
| RT5 | Discharge Temperature Sensor |
| K1 | High Pressure Switch |
| K2 | Low Pressure Switch |
| K3 | Temperature Proetction Switch |
| HEAT | Electric Heating String |
| TRANS | Transformer |
| CN1-CN17 | P.C Board Sockets |

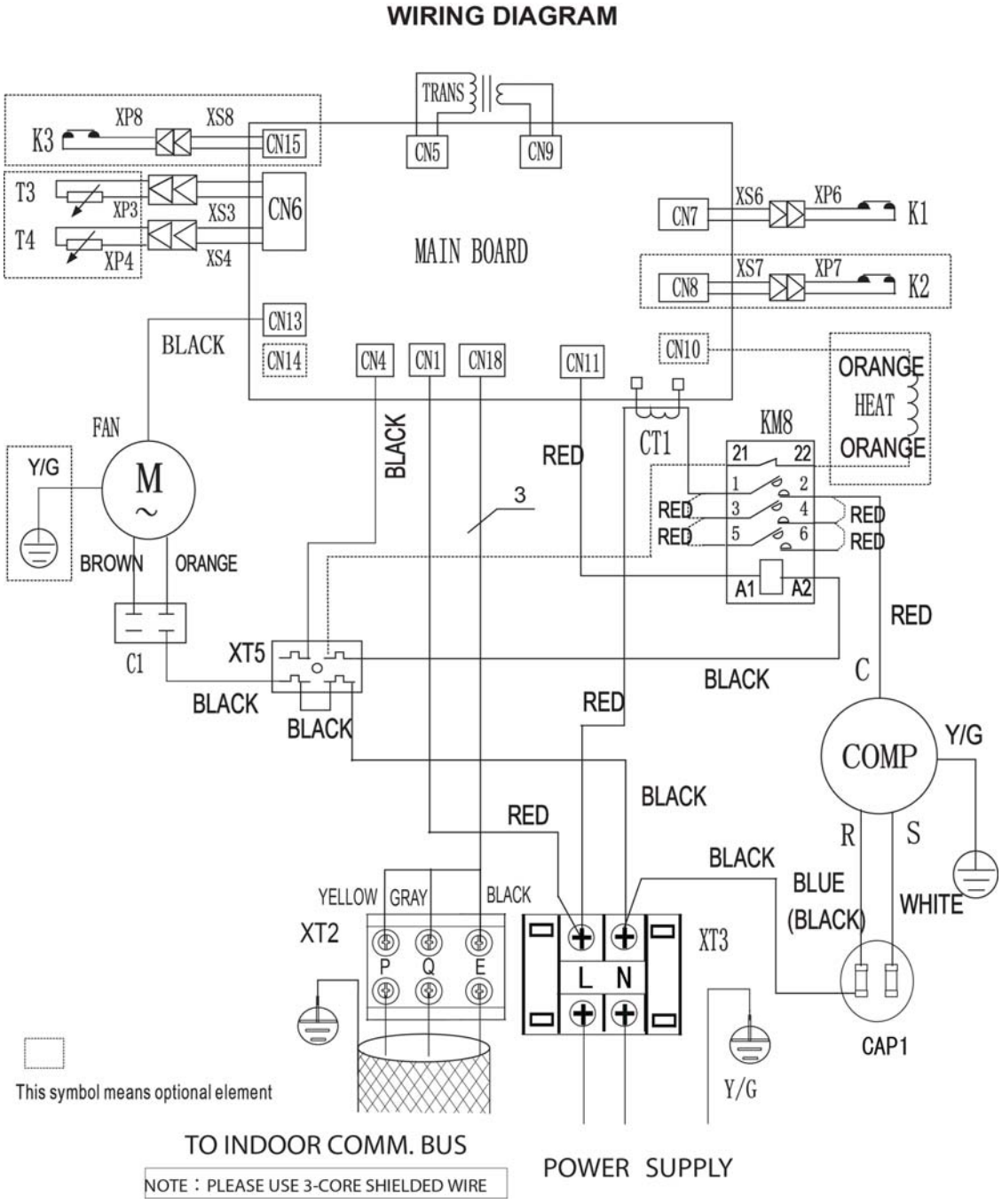
# Wiring Diagrams

**Ducted Split System – Medium Static Pressure**
**Ducted Indoor Unit 42KDMT36N-718T Cool Only**
**220-240V / 1Ph / 50Hz**



# Wiring Diagrams

## Ducted Split System – Medium Static Pressure
**Outdoor Unit 38KDMT36N-718T Cool Only**
**220-240V / 1Ph / 50Hz**

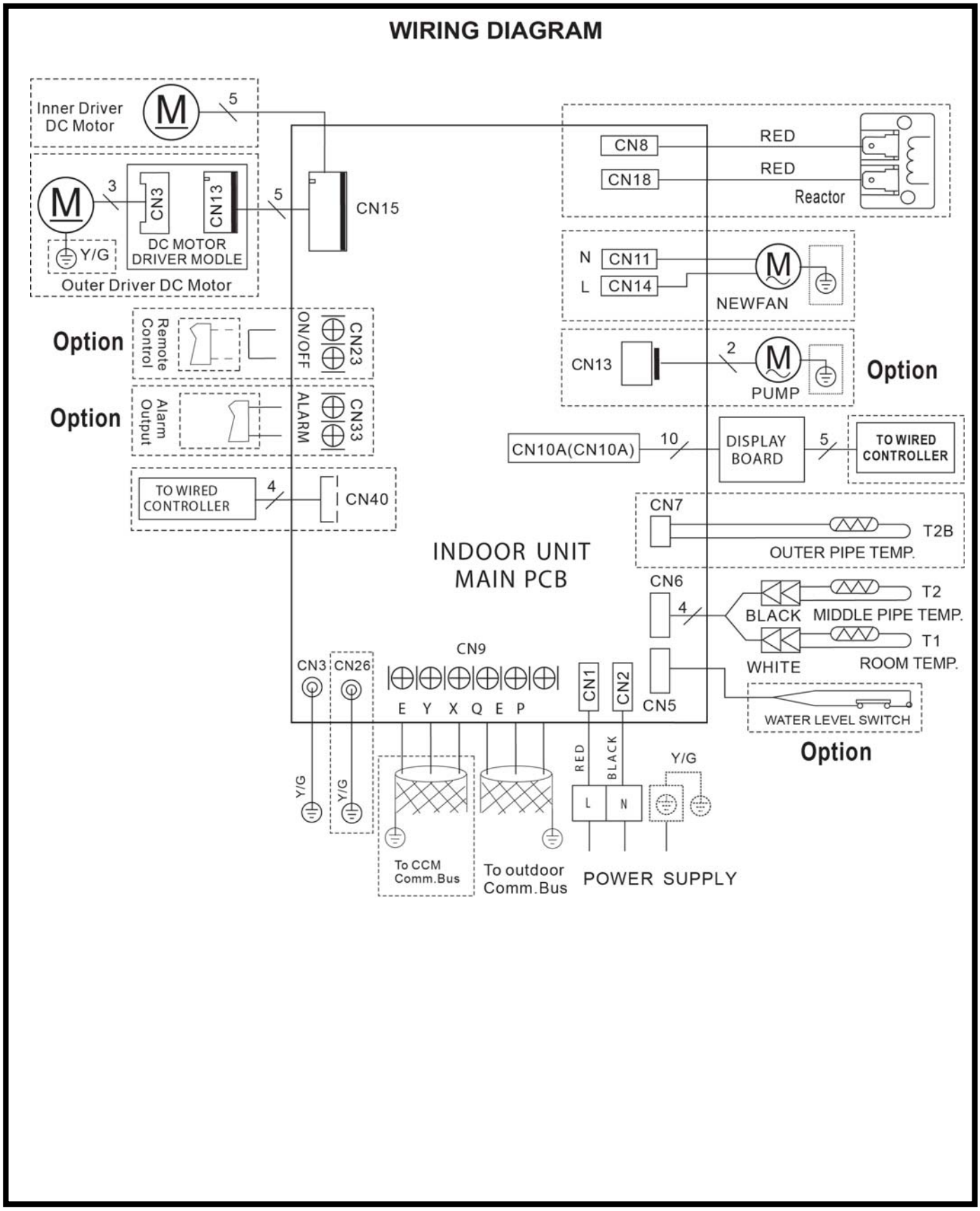



| Code | Part Name |
|---|---|
| FAN | Outdoor Fan Motor |
| C1 | Fan Capacitors |
| KM8 | AC Contactor |
| COMP | Compressor |
| XT2 | 3-Way Terminal |
| XT3 | 2-Way Terminal |
| XT5 | Connectors |
| T3 | Pipe Temperature Sensor |
| T4 | Outdoor Temperature Sensor |
| XP3 - XP8 | Contactors |

| Code | Part Name |
|---|---|
| XS3 - XS8 | Contactors |
| CT1 | Current Inductor |
| RT5 | Discharge Temperature Sensor |
| K1 | High Pressure Switch |
| K2 | Low Press Switch |
| K3 | Temperature Protection Switch |
| HEAT | Electric Heating String |
| TRANS | Transformer |
| CN1-CN17 | P.C Board Sockets |
| CAP1 | Compressor Run Capacitor |

# Wiring Diagrams

**Ducted Split System – High Static Pressure**
**Ducted Indoor Units Cool Only**
**42KDHT42N- 718T 42KDHT48N- 718T 42KDHT60N- 718T**
**220-240V / 1Ph / 50Hz**



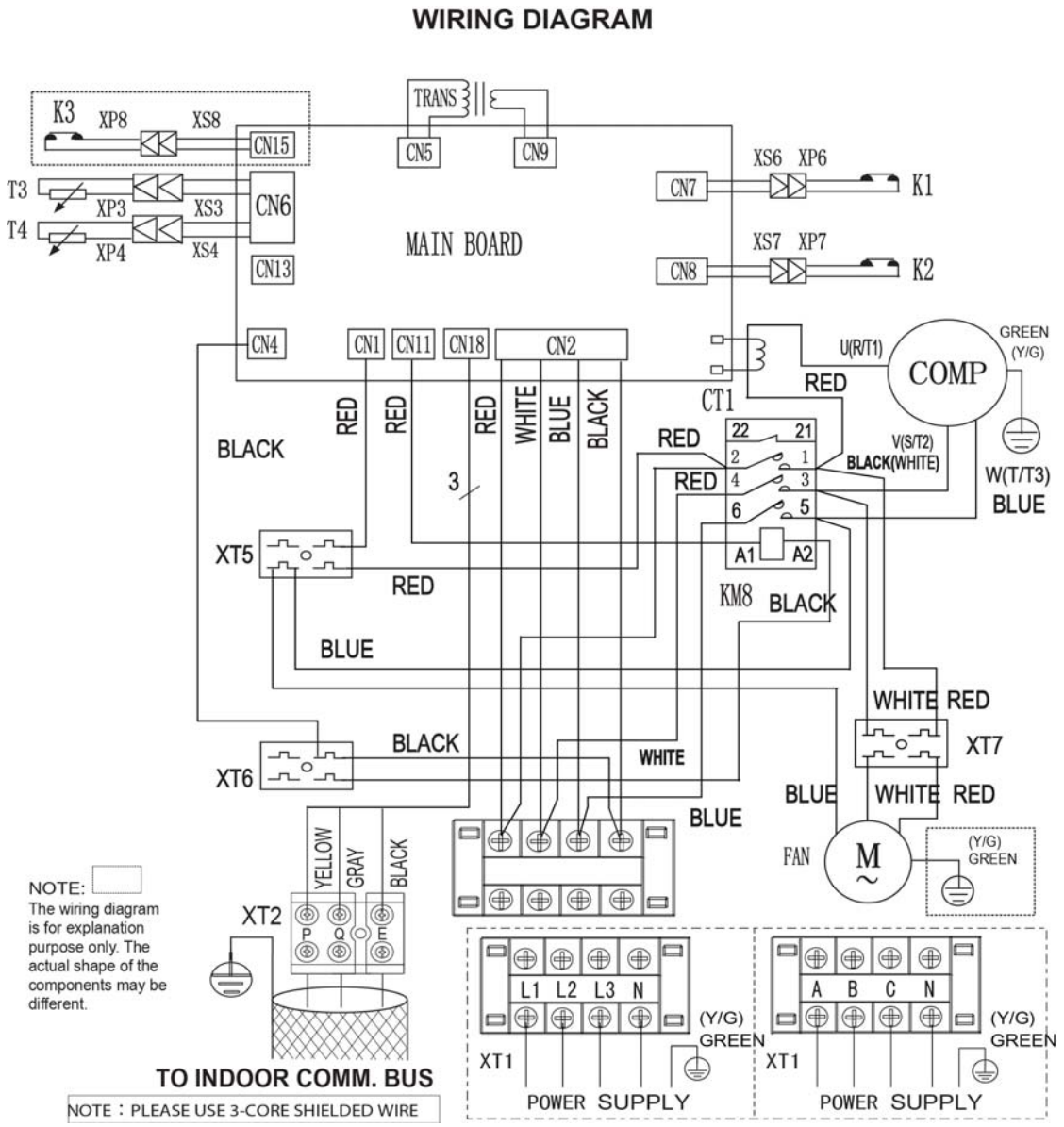
# Wiring Diagrams

## Ducted Split System – High Static Pressure

**Outdoor Units Cool Only**

**38KDHT42N- 518T 38KDHT48N- 518T 38KDHT60N- 518T**

**380-420V / 3Ph / 50Hz**



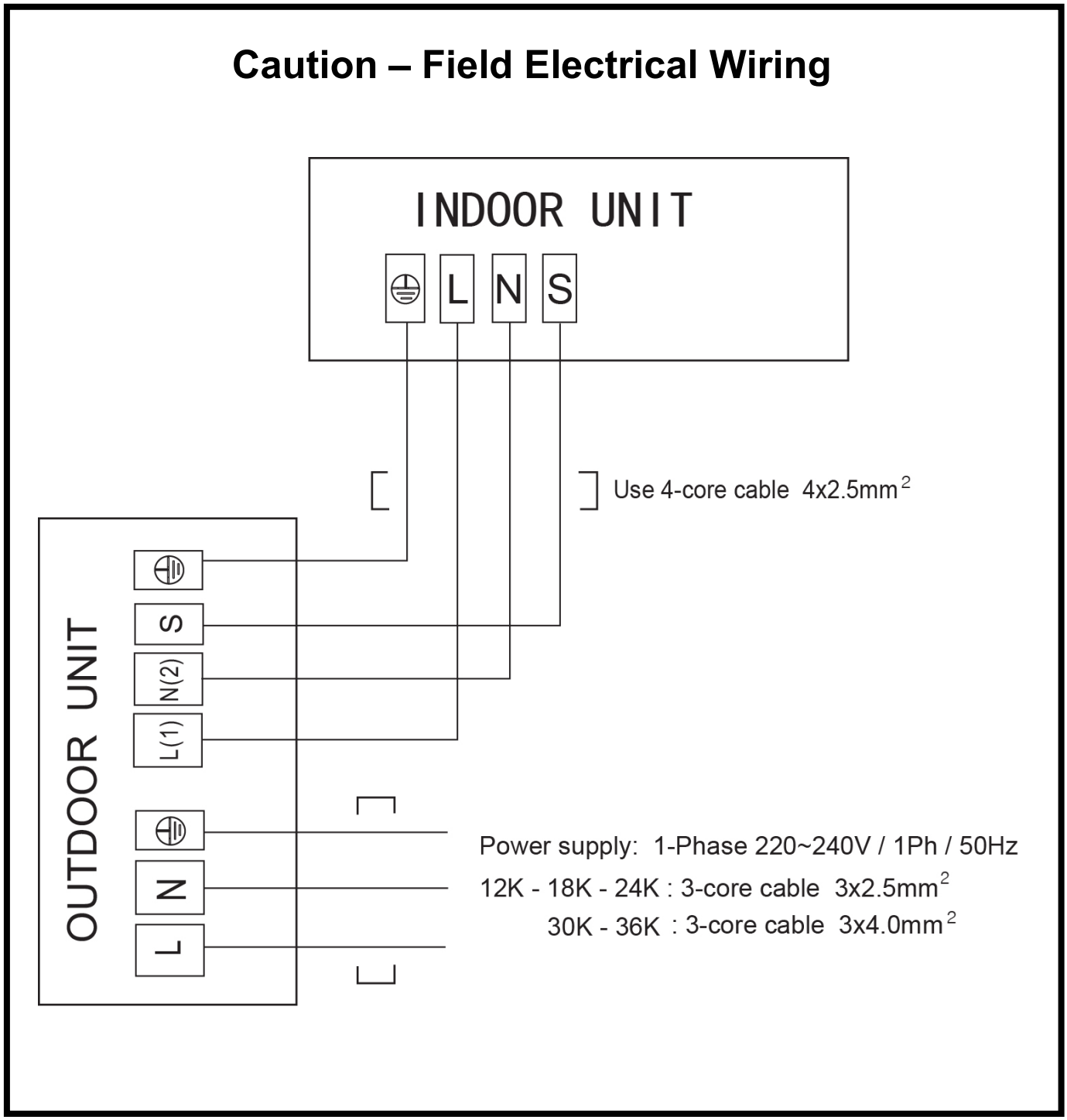

| Code | Part Name |
|---|---|
| FAN | Outdoor Fan Motor |
| KM8 | AC Contactor |
| COMP | Compressor |
| XT1 | 4-Way Terminal |
| XT2 | 3-Way Terminal |
| XT5-7 | Connectors |
| T3 | Pipe Temperature Sensor |
| T4 | Outdoor Temperature Sensor |

| Code | Part Name |
|---|---|
| XP3 - XP8 | Contactors |
| XS3 - XS8 | Contactors |
| CT1 | Current Inductor |
| K1 | High Pressure Switch |
| K2 | Low Pressure Switch |
| K3 | Temperature Protection Switch |
| TRANS | Transformer |
| CN1-CN17 | P.C Board Sockets |

## 15. Caution Field Electrical Wiring

**Ducted Split Systems – Medium Static Pressure**
**Cool Only – 220-240V / 1 Ph / 50Hz**

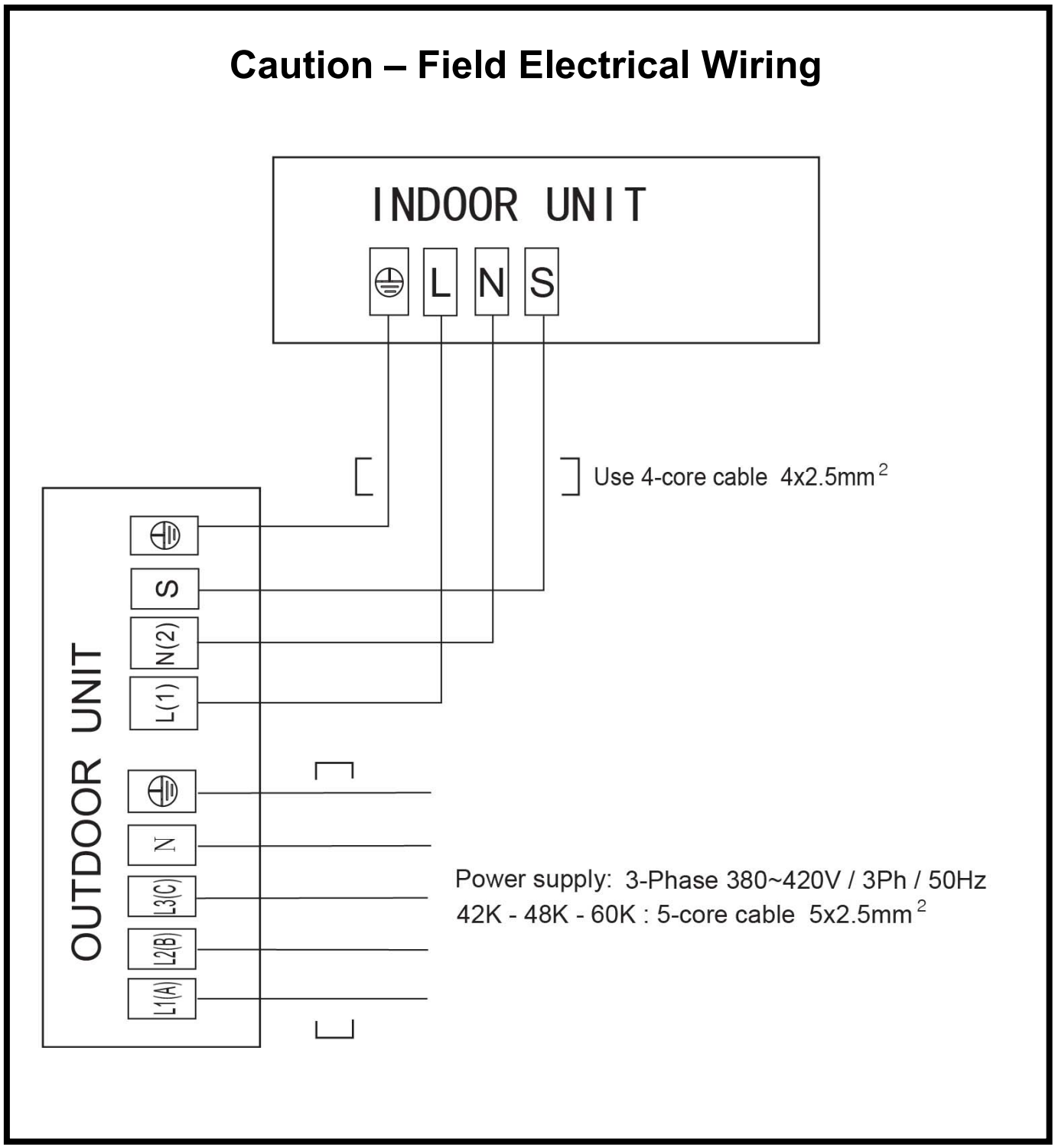
**53KDMT12N-718 53KDMT18N-718 53KDMT24N-718 53KDMT30N-718**
**53KDMT36N-718T**



## Caution Field Electrical Wiring

**Ducted Split System – Medium Static Pressure**
**Cool Only – 380-420V / 3 Ph / 50Hz**

**53KDHT42N-518T** **53KDHT48N-518T** **53KDHT48N-518T**



# 16. Setting of Switches

## Switch SW5 : for Setting Single Fan or Double Fans

| SW5 |  |  |
|---|---|---|
| MODE | DOUBLE FAN | SINGLE FAN |
| FACTORY SETTING | | ✓ |

**Switch SW5 of the PCB of indoor unit is factory used to set single fan or Double fans as per the unit model**

**ON Posituion ( Factory Setting ) = Single Fan OFF Position = Double Fan**

## Switch SW3 : for Setting Auto – Restart Function

| FOR SETTING AUTO-RESTART | | |
|---|---|---|
| SW3 |  |  |
| AUTO-RESTART | ACTIVE | INACTIVE |
| FACTORY SETTING | ✓ | |

**Swich SW3 of the PCB of indoor unit is factory used to set Auto-Restart Function**

**ON Position ( Factory Setting ) = Active Auto – Restart Function**

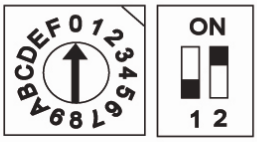
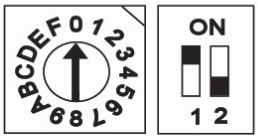
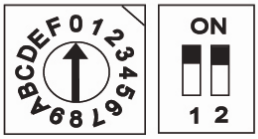
## Switch ENC1 : for Setting Power

| ENC1 |  | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CODE | 3 | 4 | 5 | 7 | 8 | C | 9 | A | B |
| POWER | ⩽ 35 | 36~53 | 54~71 | 72~90 | 91~105 | 106~120 | 121~140 | 141~160 | ⩾ 161 |
| FACTORY SETTING | ACCORDING TO RELATED MODEL. | | | | | | | | |

**Swich ENC1 of the PCB of indoor unit is factory used to set the power**

**of indoor unit as per the unit model**

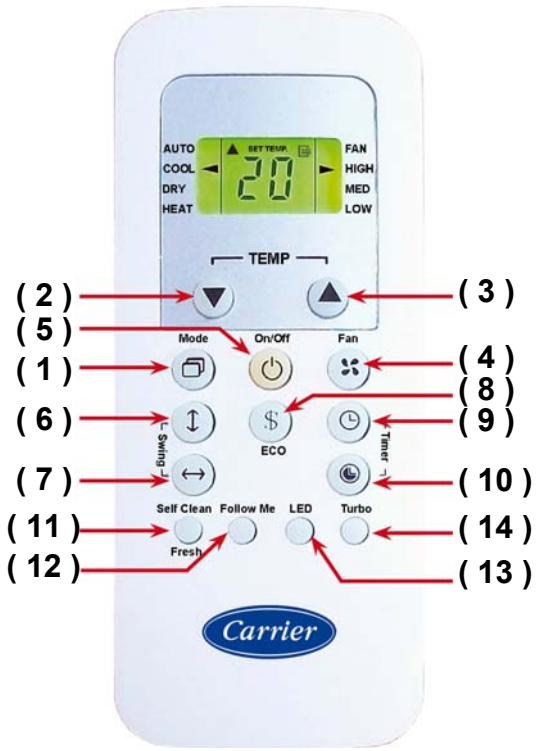
## Switches S1 + S2 : for Setting Net Address

| FOR SETTING NETADDRESS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S1+S2 |  | |  | |  | |  | |
| CODE | 0~F | | 0~F | | 0~F | | 0~F | |
| NETADDRESS | 0~15 | | 16~31 | | 32~47 | | 48~63 | |
| FACTORY SETTING | ✓ | | | | | | | |

**Swich S1 + S2 of the PCB of indoor unit are field used to set the net address**

# 17. Optional Wireless Control & Optional Display Panel

## Optional Wireless Control




### Control Buttons

( 1 ) MODE selection button AUTO - COOL - DRY - FAN

( 2 ) Decrease temperature button. Each time you press the button, the temperature decreased by 1°C

( 3 ) Increase temperature button. Each time you press the button, he temperature increased by 1°C

( 4 ) FAN selection button
High - Medium - Low - Auto fan speed

( 5 ) ON / OFF button

( 6 ) Vertical Air Flow Auto Swing *

( 7 ) Horizontal Air Flow Auto Swing *

( 8 ) ECO function button *

( 9 ) TIMER ON function button

( 10 ) TIMER OFF function button

( 11 ) Self Clean function button *

( 11 ) Fresh air function button *

( 12 ) Follow Me function button

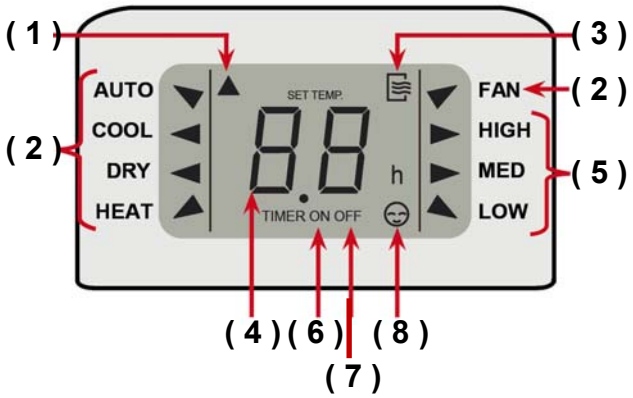
( 13 ) LED Display function button

( 14 ) TURBO function button *

Note :

* This function does not work with this product but works with other products

### Display Of Remote Control




( 1 ) Signal transmission indicator

( 2 ) Operation MODE indicator

| | |
|---|---|
| AUTO | Automatic |
| COOL | Cooling and dehumidification |
| DRY | Dehumidification only |
| FAN | Ventilation (fan only) |

( 3 ) ON / OFF indicator

( 4 ) SET TEMP. indicator

( 5 ) FAN SPEED indicator

| | |
|---|---|
| HIGH | FAN SPEED indicator high speed |
| MED | FAN SPEED indicator medium speed |
| LOW | FAN SPEED indicator low speed |
| | FAN SPEED indicator Auto speed |

( 6 ) TIMER ON function indicator

( 7 ) TIMER OFF function indicator

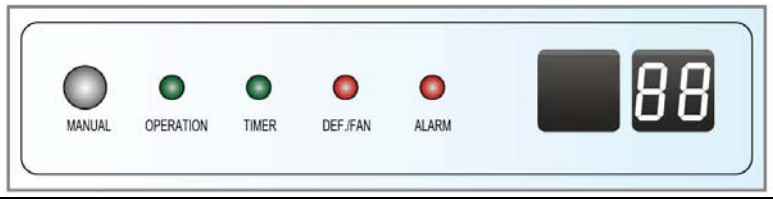
( 8 ) FOLLOW ME function indicator

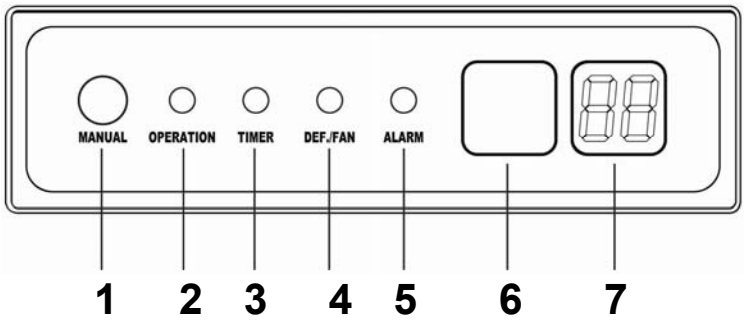
# Optional Wireless Control & Optional Display Panel

## Optional Display Panel

**The optinal display panel is used with optional wireless control**

**Optional display panel can be installed on the false ceiling to show unit operation and error code.**



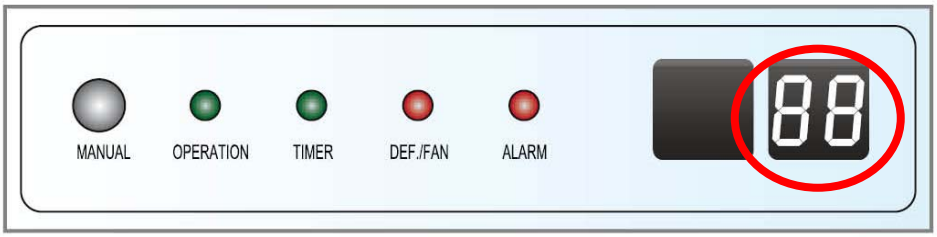

The optional display panel id indoor unit contains the following function indicators :

| | |
|---|---|
| 1 | MANUAL Button<br>*** This button is used to operate the unit temporarily in case you misplace the remote control or its batteries are exhausted.**<br>*** Once you push temporary button, the air conditioner will run in such order : Auto, Forced cool, off and back to Auto**<br>AUTO<br>**The OPERATION lamp is lit, and the air conditioner will run under AUTO mode.**<br>**The remote controller operation is enabled to operate according to the received signal.**<br>FORCED COOL<br>**The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.**<br>OFF<br>**The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.** |
| 2 | OPERATION green led<br>*** OPERATION green led lights on when the air conditioner operates**<br>*** OPERATION green led lights off when the air conditioner stops** |
| 3 | TIMER green led<br>*** TIMER green led lights on when timer function operates**<br>* TIMER green led lights off when timer function stops |
| 4 | DEF. / FAN red led<br>*** This led lights on when defrost protection is activated and lights off when defrost protection terminates in heat mode.** |
| 5 | ALARM red led<br>**ALARM red led flashes when there is a malfunction in outdoor unit** |
| 6 | Infrared Signal Receiver<br>**( In case of using wireless remote control )** |
| 7 | Display Digital Tube<br>*** This display shows error code in case of a malfunction.** |

## Optional Wireless Control & Optional Display Panel

**The electronic printed circuit board in the indoor unit is equipped with smart self diagnostic function which automatically stops the operation of the air conditioner in case of a malfunction.**

**Smart self-diagnostic function for malfunctions detection through the optional leds of display panel for easy fast service and maintenance.**




| Malfunction Reason | LED OPERATION | LED TIMER | LED DEF/FAN | LED ALARM | Malfunction Code |
|---|---|---|---|---|---|
| **Indoor and Outdoor communication malfunction** | ● | X | ● | X | **E1** |
| **Open or short circuit of T1 temperature sensor** | X | ● | X | X | **E2** |
| **Open or short circuit of T2 temperature sensor** | ● | X | X | X | **E3** |
| **Outdoor malfunction** | ● | ● | ● | ● | **E6** |
| **Indoor EEPROM malfunction** | ● | ● | X | X | **E7** |
| **Water-level alarm malfunction** | X | X | X | ● | **E8** |
| **DC motor out of control** | X | ● | X | ● | **Eb** |
| **Outdoor system pressure over-low protection** | ● | ● | ● | X | **Ed** |
| **Refrigerant leak protection** | ● | X | X | ● | **EC** |

● = Light  X = OFF

Leds status on the PCB of outdoor unit only sizes 42K – 48K and 60K ( 3Ph ) refers to malfunction reason

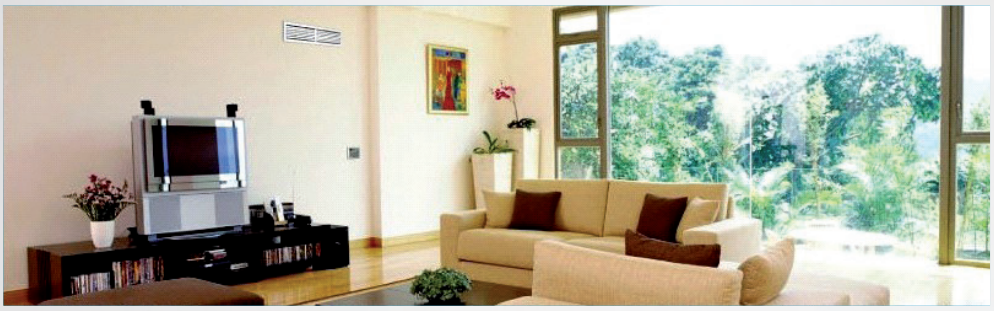
Protection function operates if a malfunction happens in the outdoor unit as below by leds of PCB of outdoor unit as follows:

| Malfunction Reason | LED 1 | LED 2 | LED 3 |
|---|---|---|---|
| No defect | off | off | on |
| Phase reversal | on | off | on |
| Overload of current | off | on | on |
| Phase loss | on | on | on |

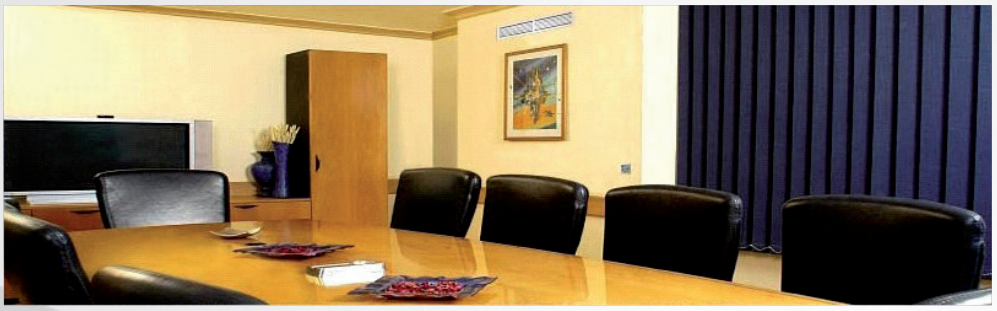
NOTES

1- Prior to the malfunction repair, disconnect the electrical mains supply by moving the circuit breaker to OFF position.

2- After repairing the malfunction, connect the electrical main supply by moving the circuit breaker to ON position and operate the air conditioner by using the wireless remote control or using wired room controller.



Residential



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