

SANYO

Air Conditioning & Heat Pump Products



AIR CONDITIONING
& HEAT PUMP
PRODUCTS



SANYO Air Conditioners & Heat Pumps

| BTU/h | | 9,000 | 12,000 | 18,000 | 24,000 | 30,000 | 36,000 | 42,000 |
|----------------------------|-------------------|----------------|-----------------------------------|----------------------------------|--|---------------------|---|--------------------------------------|
| MODEL (System) | | 09KS51 09KLS51 | 12KS51 12KLS51 12RS11 12RLS11 | 18KS52 18KLS52 18XS52 18XLS52 | 24KS32A 24KLS32A 24XS32A 24XLS32A 24TS32A 24TLS32A | 30KS32A 30KLS32A | 36KS32A 36KLS32A 36TS32A 36TLS32A 36XS32A 36XLS32A | 42TS32A 42TLS32A 42XS32A 42XLS32A |
| AIR CONDITIONER | Wall Mounted | | | | | | | |
| | Ceiling Suspended | | | | | | | |
| | Ceiling Recessed | | | | | | | |
| | Outdoor | | for KS1251 C1251 CL1251 | | | | | |
| | | | for RS1211 C1211 CL1211 | | | | | |
| MODEL (System) | | 09KHS51 | 12KHS51 | 18KHS52 | 24KH42 24TH42 24XH42 24UH42 | | 36KH42 36TH42 36XH42 36UH42 36XHS32 | 42TH42 42XH42 |
| 4 SERIES HEAT PUMPS | | | | | | | | |
| HEAT PUMP WITHOUT HEATER | Wall Mounted | | | | | | | |
| | Ceiling Suspended | | | | | | | |
| | Ceiling Recessed | | | | | | | |
| | Concealed Duct | | | | | | | |
| | Ceiling Recessed | | | | | | | |
| | Outdoor | | | | | | for KH3642, TH3642, XH3642, UH3642 CH3642 | |
| MODEL (System) | | 09KHS22 | 12KHS32 | 18KHS22 | 24KHS32 24THS32 | | 36THS32 | |
| HEAT PUMP WITH HEATER | Wall Mounted | | | | | | | |
| | Ceiling Suspended | | | | | | | |
| | Outdoor | | | | | | | |

Models with "L" in the Model No. are Low Ambient Type units that operates in the A/C mode down to 0°F ambient temperature.

New era High SEER

High Efficiency

SEER 13.0
(Complying with 2006 DOE Regulation)

24KS62R/24KLS62R

KS2462R

Model Identification

System

Cooling Capacity in BTU/h
Indoor Unit Type
K: Wall Mounted
F: Floor Mounted
T: Ceiling Suspended
X: 4way Ceiling Recessed
R: 1way Ceiling Recessed
M: Multi-Zone

18 K

H S 5 2

Voltage: 1:115V

2: 208/230V

Model Series No.

Wireless remote Control

Function
H: Heat Pump
L: Low Ambient
G: Gas Heater

18KHS52

Master model No. (System)

KHS1852

Indoor unit

+ CH1852

Outdoor unit

Component

Indoor Unit Type
K: Wall Mounted
F: Floor Mounted
T: Ceiling Suspended
X: 4way Ceiling Recessed
R: 1way Ceiling Recessed
C: Outdoor unit

K

H S 18 5 2

Voltage: 1: 115V

2: 208/230V

Model Series No.

Cooling Capacity in BTU/h

S: Wireless remote Control

Function
H: Heat Pump
L: Low Ambient
G: Gas HeaterDUAL ZONE
18KMS12DUAL ZONE
24KMS12TRI ZONE
32KMS12DUAL ZONE
18KMH22

STW-2 Series



| | V | heater | 7000 | 9000 | 12000 | 14000 |
|---------------------|----------|--------|-----------|-----------|-----------|-----------|
| COOL W/ HEATER | 230/208V | 2.55kW | STW0622C2 | STW0922C2 | STW1222C2 | |
| | 230/208V | 3.45kW | STW0623C2 | STW0923C2 | STW1223C2 | STW1523C2 |
| HEAT PUMP W/ HEATER | 230/208V | 5.00kW | | STW0925C2 | STW1225C2 | STW1525C2 |
| | 230/208V | 3.00kW | STW0633C2 | STW0933C2 | STW1233C2 | |
| HEAT PUMP W/ HEATER | 230/208V | 4.00kW | STW0634C2 | STW0934C2 | STW1234C2 | STW1534C2 |
| | 230/208V | 5.00kW | | STW0935C2 | STW1235C2 | STW1535C2 |
| HEAT PUMP W/ HEATER | 265V | 2.55kW | STW0622H2 | STW0922H2 | STW1222H2 | |
| | 265V | 3.45kW | STW0623H2 | STW0923H2 | STW1223H2 | STW1523H2 |
| HEAT PUMP W/ HEATER | 265V | 5.00kW | | STW0925H2 | STW1225H2 | STW1525H2 |
| | 265V | 3.00kW | STW0633H2 | STW0933H2 | STW1233H2 | |
| HEAT PUMP W/ HEATER | 265V | 4.00kW | STW0634H2 | STW0934H2 | STW1234H2 | STW1534H2 |
| | 265V | 5.00kW | | STW0935H2 | STW1235H2 | STW1535H2 |

Model Identification

STW 09 2 * C 2

SANYO Packaged Terminal A/C
Nominal Cooling Capacity
06: 7000BTU 12:12000BTU
09: 9000BTU 15:15000BTU

Voltage:

2: 230/208V

3: 265V

Heater Specification Table

| Heater Designator | Heater Amp | 230 / 208 V Model | Watt | Min.Amp | BTU/h |
|-------------------|------------|-------------------|------|-------------|-------|
| 2 | 11.1/10.0 | 2850V/2000 | 15 | 8000/7100 | |
| 3 | 15.0/13.0 | 3450V/2820 | 20 | 11700/9600 | |
| 5 | 21.7/19.7 | 5000V/4000 | 30 | 17200/13000 | |
| Heater Designator | Heater Amp | 205 V Model | Watt | Min.Amp | BTU/h |
| 3 | 11.3 | 3000 | 15 | 10200 | |
| 4 | 15.1 | 4000 | 20 | 13000 | |
| 5 | 16.0 | 5000 | 30 | 17000 | |

STB-1 Series



| | V | 8000 | 10000 | 12000 |
|--------------------|---------|-----------|-----------|-----------|
| COOLING ONLY | 115V | STB0810C1 | STB1010C1 | |
| | 230/208 | | STB1020C1 | STB1220C1 |
| COOLING W/HEATER | 115V | STB0811C1 | | |
| | 230/208 | | STB1023C1 | STB1123C1 |
| HEAT PUMP W/HEATER | 230/208 | STB0823H1 | | |
| | 230/208 | | | |

Model Identification

STB 06 2 3 C 1

SANYO 26" Thru The Wall
Nominal Cooling Capacity
08: 8000BTU
10: 10000BTU
11: 11000BTU
12: 12000BTU

Development Flag
Type:
C: Cooling H: Heat Pump
Electric Heater Size (See below)
0: No Electric Heater 1: 1.2kw 3: 3.4kw

Voltage:
1: 115V 2: 230/208V



P0811



KGS1411 CG1411

MODEL FEATURE CHART

OP: Option

| | | AIR CONDITIONERS | | | | | | | | LOW-AMBIENT AIR CONDITIONERS | | | | | | | |
|--|--|----------------------------|---------|---------|-------------------------------|--------|---|---------|---|-------------------------------|--------------|----------|----------------------|----------------------------------|---------|---|----|
| | Wall Mounted | 09KS51 12KS51 18KS52 | 24KS32A | 24KS62R | 30KS32A 36KS32A | | | | | 09KLS51 12KLS51 18KLS52 | 24KLS32A | 24KLS62R | 30KLS32A 36KLS32A | | | | |
| | Ceiling Suspended | | | | 24TS32A 36TS32A 42TS32A | | | | | | | | | 24TLS32A 36TLS32A 42TLS32A | | | |
| | Ceiling Recessed | | | | | 12RS11 | 18XS52 24XS32A 36XS32A 42XS32A | | | | | | | | 12RLS11 | 18XLS52 24XLS32A 36XLS32A 42XLS32A | |
| | Concealed Duct | | | | | | | | | | | | | | | | |
| | Dual Zone | | | | | | 18KMS12 24KMS12 | | | | | | | | | | |
| | Tri Zone | | | | | | | 32KMS12 | | | | | | | | | |
| | Microprocessor-Controlled Operation | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Wireless Remote Control | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Wired Remote Control | - | OP | OP | OP | OP | - | OP | - | - | - | OP | OP | OP | OP | - | OP |
| | Self-Diagnosing Function | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Dry Mode | ● | ● | ● | - | - | - | - | - | ● | ● | ● | ● | - | - | - | - |
| | 3 Fan Speeds and Automatic Fan Operation | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Air Sweep Control | ● | ● | ● | ● | ● | ● | - | ● | KMS1212 ONLY | KMS1812 ONLY | ● | ● | ● | ● | - | ● |
| | Louver Control | ● | ● | ● | ● | ● | ● | - | ● | KMS1212 ONLY | KMS1812 ONLY | ● | ● | ● | ● | - | ● |
| | Automatic Heating and Cooling Changeover | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Night Setback Mode for Cooling and Heating | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Hot Start Heating System | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 24-Hour Clock with ON/OFF Program Timer | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 12-Hour ON/OFF Timer | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 72-Hour ON/OFF Timer | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 1-Hour OFF Timer | ● | ● | ● | ● | ● | - | ● | - | - | ● | ● | ● | ● | ● | - | ● |
| | Weekly Timer | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | System Controller | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Anti-Mold Filter | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Filter Sign | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Automatic Restart Function after Power Failure | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Fresh Air Intake | - | - | - | - | ● | - | OP | - | - | - | - | - | - | - | ● | - |
| | Duct Extension | - | - | - | - | - | - | ● | - | - | - | - | - | - | - | - | ● |
| | Air Clean Filter (Optional) | OP | OP | OP | - | - | - | - | - | OP | OP | OP | - | - | - | - | - |
| | Built-In Drain Pump | - | - | - | - | - | ● | ● | - | - | - | - | - | - | - | ● | ● |
| | Low Ambient Operation | - | - | - | - | - | - | - | - | ● | ● | ● | ● | ● | ● | ● | ● |
| | Electric Expansion Valve | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | R-22 | ● | ● | - | ● | ● | ● | ● | ● | ● | ● | ● | ● | - | ● | ● | ● |
| | R-410A | ODP=0 Refrigerant | - | - | ● | - | - | - | - | - | - | - | - | - | - | - | - |

Features

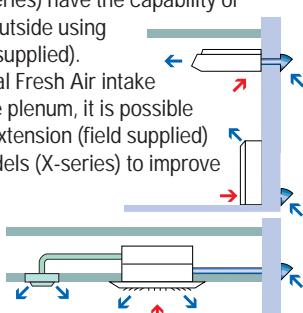
SANYO: Your Best Choice in Ductless Split Air Conditioning Systems

Sanyo's Ductless Split Air Conditioner & Heat Pump products offer wide versatility in solving your cooling and heating requirements. The Indoor unit(evaporator) is mounted inside the room, enclosed in a handsome space saving cabinet. It is connected to the outdoor unit(condenser) via refrigerant lines & inter-unit wiring through a 3-1/2" opening in the wall. Since no ductwork is required, installation is simple, fast & efficient. There is no need to use up window space or cut large openings in existing walls, which could undermine the integrity of your structure, and even pose security risks. Since the Sanyo-manufactured Rotary compressor is located in the outdoor unit, compressor operating noise is virtually eliminated from the indoor. The indoor unit has been uniquely designed to provide Whisper Quiet operation while delivering comfort throughout the room(s). In addition, Sanyo-perfected rotary compressors provide efficient, powerful cooling at the lowest noise levels in the industry.

Fresh Air Intake Capability & Duct Extension (Ceiling Recessed models (X-series))

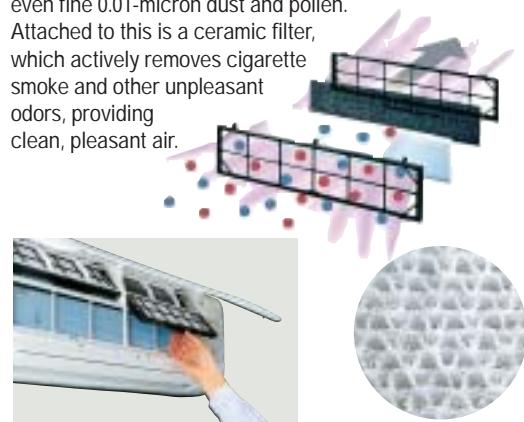
Ceiling Recessed models (X-series), Ceiling Suspended models (T-series) have the capability of bringing fresh air from outside using an air intake duct (field supplied).

(X-series require optional Fresh Air intake plenum) Using Air intake plenum, it is possible to connect an air duct extension (field supplied) to Ceiling Recessed models (X-series) to improve the room air circulation.



Air Clean Filter (Optional)

The dust-collecting Air Clean Filter is capable of efficiently catching even fine 0.01-micron dust and pollen. Attached to this is a ceramic filter, which actively removes cigarette smoke and other unpleasant odors, providing clean, pleasant air.



| HEAT PUMPS W/O HEATER | | | | | HEAT PUMPS W/ HEATER | | | | |
|-------------------------------|----------------------------|----------------------------|---------|------------------|----------------------|--------------------|---------|--------------------|---------|
| 09KHS51 12KHS51 18KHS52 | 24KH42 36KH42 | | | | 09KHS22 | 12KHS32 18KHS22 | 24KHS32 | | |
| | 24TH42 36TH42 42TH42 | | | | | | | 24THS32 36THS32 | |
| | | 24XH42 36XH42 42XH42 | 36XHS32 | | | | | | |
| | | | | 24UH42 36UH42 | | | | | 18KMH22 |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | OP | OP | OP | ● | OP | ● | ● | ● | - |
| - | OP | OP | OP | - | OP | - | - | - | ● |
| - | ● | ● | ● | - | ● | - | - | - | - |
| ● | ● | ● | ● | - | ● | - | - | - | - |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | - | ● | ● | ● | - |
| ● | ● | ● | ● | ● | - | ● | ● | ● | - |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | - |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | - |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | - |
| ● | - | - | - | ● | - | ● | ● | ● | - |
| - | - | - | - | - | - | - | - | - | ● |
| - | OP | OP | OP | - | OP | - | - | - | - |
| ● | - | - | - | ● | - | - | ● | ● | - |
| - | OP | OP | OP | - | OP | - | - | - | - |
| - | OP | OP | OP | - | OP | - | - | - | - |
| ● | ● | ● | ● | ● | - | ● | ● | ● | ● |
| - | OP | OP | OP | - | - | - | - | - | - |
| - | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| - | - | OP | OP | OP | - | - | - | ● | - |
| - | - | - | ● | ● | ● | - | - | - | - |
| OP | - | - | - | - | - | - | - | - | - |
| - | - | - | ● | ● | ● | - | - | - | - |
| - | ● | ● | ● | - | ● | - | - | - | - |
| - | ● | ● | ● | ● | ● | - | - | ● | - |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| - | - | - | - | - | - | - | - | - | - |

Features



Microprocessor-controlled Operation

Microprocessor control ensures that the temperature and humidity levels in the room are always comfortable.



Wireless Remote Control

Sanyo's infrared Remote Control with and easy to read LCD Display, gives the user the capability to adjust & set: temperature, sweep(louver control), fan speeds, timer, night setback and more, for complete automatic operation.



Dry Mode

By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is efficiently dehumidified.



3 Fan speeds and Automatic Fan Operation

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low. According to room temperature to maintain a comfortable airflow throughout the room.



Air Sweep Control

The air sweep function moves the louver up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



Louver Control

Louver can be manually set to the desired angle by remote control.



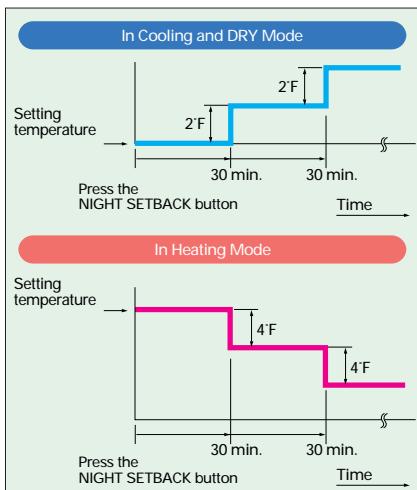
Automatic Heating and Cooling Changeover

After setting the temperature and functions you desire, just relax. If the room temperature is higher than the set temperature, cooling operation begins. If the room temperature is lower than the set temperature, heating operation begins. During normal thermostat cycle operation, cooling and heating operations automatically change in accordance with set temperature, time and room temperature. (Heat Pump unit only)



Night Setback Mode for Cooling and Heating

Cooling and DRY Mode: With the Night Setback Mode, the air conditioner automatically raises the setting temperature 2°F after 30 minutes, and then another 2°F after the next 30 minutes. **Heating Mode:** With the Night Setback Mode, the setting temperature is automatically lowered 4°F after 30 minutes, and then another 4°F after the next 30 minutes. This saves energy without sacrificing comfort and is ideal for gentle cooling and heating.



ON/OFF Timer

Remote controller (RCS-SH80UG)

ON/OFF timer can be set to 0.5 hour gradations (max. 72 hours).



Anti-mold Filter

Filter is treated with anti-mold chemicals to prevent mold or bacteria from occurring.



Built-in Drain Pump

Max. head 30 inches[†] from the bottom of the unit. (condensate pump is only for allowing drain line to meet minimum gravity flow requirements.)

†: Excluding RS1211



Electronic Refrigerant Control Valve

The circulation volume of the refrigerant is controlled by a pulse type electronic control valve. When the power is switched ON, the opening degree of the electronic control valve is controlled between 90 and 480 steps.

4-Series Heat Pumps additional Features

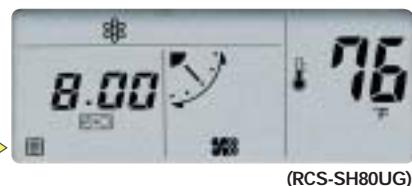


Filter Sign

Filter sign informs you when maintenance is necessary.

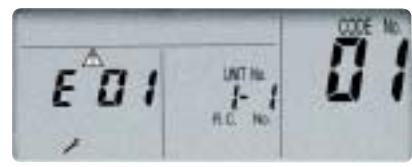
2,500 hrs: X, T-types

150 hrs: K-type



Self-diagnosing Function

Details of previous warnings are stored and can be verified on the liquid crystal display. This makes it easier to diagnose malfunctions, greatly reducing service labor. (Wired remote controller)



(RCS-SH80UG)



12-hour ON/OFF Timer

This timer can be set to automatically turn the unit on or off at any time within a 12-hour period.



1-hour OFF Timer

When this button is pushed either while the unit is operating or while it is stopped, the unit will operate for one hour and then switch off automatically.

4-Series Heat Pumps additional Features

Wired remote controllers (Optional)

Remote Controller
(RCS-SH80UG)



- Group (collective) control of up to 8 indoor units (maximum) with a remote controller is possible.
- Control with multiple remote controls (main/sub) is possible (max.2).
- Operating status appears on a large crystal display, and service check function is also provided.
- Comes with 72-hour ON/OFF timer.
- Size (inch): 4-23/32(H) x 4-23/32(W) x 5/8(D)

System Controller
(SHA-KC64UG)



- Used in combination with remote controllers, the system controller can control up to 64 groups of indoor units (max. 64 indoor units).
- Separating the 64 indoor units into 4 zones, each zone can be controlled individually.
- Up to 16 groups (indoor units) can be registered to each zone.
- Collective control and individual group (unit) control can also be performed.
- System without remote controller is also available.
- Up to 2 system controllers (1 main, 1 sub) can be installed in a system.
- Alarm and operation outputs for an external collected signal are available (potential free contact).

Weekly timer
(TM-SH80UG)



- Program covering a week, in which the operation can be stopped 3 times per day, can be set.
**In case of power failure, the timer stores recorded programs for up to 100 hours.*
- Temporary cancellation with cancel button is also possible.
- Can be used concurrently with remote controller and system controller.
- Size (inch): 4-23/32(H) x 4-23/32(W) x 5/8(D)

Wireless remote controllers (Optional)

| Wireless Remote Controller | Applicable Unit | For All Indoor Units | | | |
|-------------------------------|-----------------|--|----------|--|----------|
| | | U-series | K-series | X-series | T-series |
| | | BUILT-IN TYPE • Signal receiving unit can be installed in the outer panel of indoor unit. • Control panel can be installed in the inside indoor unit. | | EXTERNAL TYPE • Separate type signal receiving unit. | |

Remote controllers functions

| | | Remote Controller (RCS-SH80UG) | System Controller (SHA-KC64UG) |
|---------------|-------------------------------------|-----------------------------------|-----------------------------------|
| Function | ON/OFF | ● | ● (Collective/Individual) |
| | Operation mode | ● | ● (Individual) |
| | Dry | ● | ● (Individual) |
| | Cooling | ● | ● (Individual) |
| | Fan | ● | ● (Individual) |
| | Temp setting | ● | ● (Individual) |
| | Fan speed setting (Hi/Mid./Lo/Auto) | ● | ● (Individual) |
| | Auto flap | ● | ●* |
| | Arbitrary airflow direction setting | ● | ●* |
| | Sweep (Flap swing) | ● | ●* |
| System | 72 hr. ON/OFF timer | ● | × |
| | Sensor temp. display | ● | × |
| | Self-diagnostic function | ● | ● |
| Setting Range | Central control (at hand inhibited) | × | ● |
| | Group control | ● (Up to 8 units) | ● (Up to 16 groups) |
| | Concurrent use with weekly timer | ● | ● |

●: Controllable
×: Uncontrollable

NOTE:

*This function is not usable for indoor unit which is connected to a remote controller.

NOTE:

If you use both remote controller and system controller concurrently, both controllers can be used on a last-signal priority basis.

Wall-Mounted Air Conditioners



Wireless
Remote Controller



09KS51/09KLS51
12KS51/12KLS51

Indoor Unit
KS0951
KS1251



Outdoor Unit
C0951/CL0951
C1251/CL1251



Wireless
Remote Controller



18KS52
18KLS52

Indoor Unit
KS1852

WASHABLE FRONT GRILLE



Outdoor Unit
C1852/CL1852



Only for 09KLS51,
12KLS51, 18KLS52

| Wall Mounted Air Conditioners | | | | | |
|---|--------------------------------|------------------|--------------------------------|--------------------------------|----------------|
| Model No. | | 09KS51 / 09KLS51 | | 12KS51 / 12KLS51 | |
| Unit Model No. | | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit |
| | | KS0951 | C0951/CL0951 | KS1251 | C1251/CL1251 |
| Performance & Electrical Ratings | | | | | |
| Capacity | Cooling | Btu/h | 9,000 | 11,800 | 17,000/16,500 |
| Capacity | Heating | Btu/h | --- | --- | --- |
| Moisture Removal | High | Pints/H | 2.0 | 3.0 | 4.5/4.3 |
| Dry Air Flow | Hi/Med/Low | CFM | 270/240/220 | 330/290/260 | 390/345/315 |
| SEER | Cooling | | 10.0 | 10.2 | 10.6 |
| EER | Cooling | | 10.0 | 9.8 | 9.9/9.9 |
| HSPF | Heating | | --- | --- | --- |
| COP | Heating | | --- | --- | --- |
| Power Supply | V, Phase, Hz | | 115, 1, 60 | 115, 1, 60 | 230/208, 1, 60 |
| Running Amps | Cooling | A | 8.8 | 10.9 | 7.8/8.4 |
| | Heating | A | --- | --- | --- |
| Power Input | Cooling | W | 900 | 1200 | 1,720/1,670 |
| | Heating | W | --- | --- | --- |
| Back-up Heater | kW | | --- | --- | --- |
| Maximum Fuse Size Amps | A | | 15 | 20 | 15 |
| Features | | | | | |
| Controls | Microcomputer | | Microcomputer | Microcomputer | |
| Low Ambient Control | 09KLS51 Equip. | | 12KLS51 Equip. | 18KLS52 Equip. | |
| Wireless Remote Controller | Equip | | Equip | Equip | |
| Wired Remote Controller | --- | | --- | --- | |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | 3 + Automatic | |
| Timer | On/Off/24hr Program 1hr Off | | On/Off/24hr Program 1hr Off | On/Off/24hr Program 1hr Off | |
| Air Deflection | Horizontal | Manual | Manual | Manual | Manual |
| | Vertical | Automatic | Automatic | Automatic | Automatic |
| Air Filter | Washable | | Washable | Washable | |
| Refrigerant | R-22 | | R-22 | R-22 | |
| Refrigerant control | Capillary Tube | | Capillary Tube | Capillary Tube | |
| Operation Sound | In(Hi/Med/Lo) | dB-A | 38/34/32 | 41/38/34 | 41/38/36 |
| | Outdoor(Hi) | dB-A | 48 | 48 | 52 |
| Refrigerant Piping | Type | Flare Type | | Flare Type | Flare Type |
| | Discharge | inches | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge |
| | Suction | inches | 3/8" Suction | 1/2" Suction | 5/8" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 50Ft | | Max. 65Ft | Max. 65Ft |
| Elevation Difference | Outdoor Above | Ft. | Max. 23Ft | Max. 23Ft | Max. 23Ft |
| | Outdoor Below | Ft. | Max. 23Ft | Max. 23Ft | Max. 23Ft |
| Dimensions & Weight | | | | | |
| Height | inches | | Indoor Unit | Outdoor Unit | Indoor Unit |
| | 10-5/8" | | 21-1/4" | 10-5/8" | 21-1/4" |
| Width | inches | | 31-11/16" | 31-1/2" | 39-3/16" |
| Depth | inches | | 6-31/32" | 11-13/32" | 7-23/32" |
| Net Weight | Lbs. | | 17.6 | 66.1 | 75.0 |
| Approvals | CSA, ARI, MEA | | CSA, ARI, MEA | CSA, ARI, MEA | |

** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue for more detail.)



Wireless
Remote Controller

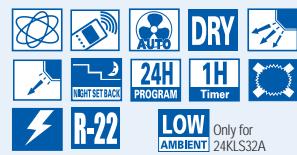


24KS32A/24KLS32A

Indoor Unit
KS2432A



Outdoor Unit
C2432A/CL2432A



Wireless
Remote Controller



24KS62R/24KLS62R

Indoor Unit
KS2462R



Outdoor Unit
C2462R/CL2462R



Wireless
Remote Controller



30KS32A/30KLS32A
36KS32A/36KLS32A

Indoor Unit
KS3032
KS3632



Outdoor Unit
C3032A/CL3032A
C3632A/CL3632A



| Wall Mounted Air Conditioners | | | | | | | |
|---|--------------------------------|--------------------|--------------------------------|---------------------------------|----------------|---------------------------------|---------------------------------|
| Model No. | | 24KS32A / 24KLS32A | | 24KS62R / 24KLS62R | | 30KS32A / 30KLS32A | |
| Unit Model No. | | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit |
| Performance & Electrical Ratings | | | | | | | |
| Capacity | Cooling | Btu/h | 22,800/22,400 | 27,000/26,000 | | 30,000/29,000 | 34,000/33,000 |
| Capacity | Heating | Btu/h | --- | --- | | --- | --- |
| Moisture Removal | High | Pints/H | 7.2/7.2 | 6.5/6.4 | | 10.0/9.9 | 11.1/11.1 |
| Dry Air Flow | Hi/Med/Low | CFM | 650/580/520 | 559 (High) | | 840/740/620 | 830/710/590 |
| SEER | Cooling | | 10.0/10.0 | 13.0/13.0 | | 10.4/10.7 | 10.8/11.0 |
| EER | Cooling | | 9.7/9.7 | 12.1/11.8 | | 10.4/10.5 | 10.3/10.6 |
| HSPF | Heating | | --- | --- | | --- | --- |
| COP | Heating | | --- | --- | | --- | --- |
| Power Supply | V, Phase, Hz | | 230/208, 1, 60 | 230/208, 1, 60 | | 230/208, 1, 60 | 230/208, 1, 60 |
| Running Amps | Cooling | A | 10.9/11.5 | 10.2/10.9 | | 13.0/13.6 | 14.9/15.5 |
| | Heating | A | --- | --- | | --- | --- |
| Power Input | Cooling | W | 2,340/2,300 | 2,240/2,200 | | 2,880/2,770 | 3,300/3,110 |
| | Heating | W | --- | --- | | --- | --- |
| Back-up Heater | kW | | --- | --- | | --- | --- |
| Maximum Fuse Size Amps | A | | 25 | 35 | | 30 | 35 |
| Features | | | | | | | |
| Controls | Microcomputer | | Microcomputer | Microcomputer | | Microcomputer | Microcomputer |
| Low Ambient Control | 24KLS32A Equip. | | 24KLS62R Equip. | 30KLS32A Equip. | | 36KLS32A Equip. | 36KLS32A Equip. |
| Wireless Remote Controller | Equip | | Equip | Equip | | Equip | Equip |
| Wired Remote Controller | Optional (RCS-KS2432AWD) | | Optional (RCS-KS2432AWD) | Optional (RCS-102WD, RCS-302WD) | | Optional (RCS-102WD, RCS-302WD) | Optional (RCS-102WD, RCS-302WD) |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | 3 + Automatic | | 3 + Automatic | 3 + Automatic |
| Timer | On/Off/24hr Program 1hr Off | | On/Off/24hr Program 1hr Off | On/Off/24hr Program 1hr Off | | On/Off/24hr Program 1hr Off | On/Off/24hr Program 1hr Off |
| Air Deflection | Horizontal | Manual | Manual | Manual | Manual | Manual | Manual |
| | Vertical | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic |
| Air Filter | Washable | | Washable | Washable | | Washable | Washable |
| Refrigerant | R-22 | | R-410A | R-22 | | R-22 | R-22 |
| Refrigerant control | Capillary Tube | | Capillary Tube | Capillary Tube | | Capillary Tube | Capillary Tube |
| Operation Sound | In(Hi/Med/Lo) | dB-A | 47/42/38 | 48/42/38 | 46/42/38 | 46/42/38 | 48/44/40 |
| | Outdoor(Hi) | dB-A | 53 | 55 | 56 | 56 | 56 |
| Refrigerant Piping | Type | Flare Type | | Flare Type | Flare Type | | Flare Type |
| | Discharge | inches | 3/8" Discharge | 3/8" Discharge | 3/8" Discharge | 3/8" Discharge | 3/8" Discharge |
| | Suction | inches | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 132Ft | | Max. 132Ft | Max. 165Ft | | Max. 165Ft |
| Elevation Difference | Outdoor Above | Ft. | Max. 50Ft | Max. 50Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft |
| | Outdoor Below | Ft. | Max. 50Ft | Max. 50Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft |
| Dimensions & Weight | | | | | | | |
| Height | inches | Indoor Unit | 28-15/16" | Indoor Unit | 36-5/8" | Indoor Unit | 48-5/8" |
| Width | inches | | 44-7/8" | | 37" | 59-1/16" | 14-9/16" |
| Depth | inches | | 8-31/32" | 13-3/8" | 8-31/32" | 9-7/16" | 37" |
| Net Weight | Lbs. | | 40.0 | 150.0 | 40.0 | 150.0 | 198.0 |
| Approvals | CSA, ARI, MEA | | CSA, ARI, MEA | ETL, ARI, MEA | | ETL, ARI, MEA | ETL, ARI, MEA |

* Field installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue for more detail.)

Wall-Mounted Heat Pump



Wireless
Remote Controller



09KHS51
12KHS51

Indoor Unit
KHS0951
KHS1251



Wireless
Remote Controller



18KHS52



Indoor Unit
KHS1852



Outdoor Unit
CH0951
CH1251



Outdoor Unit
CH1852



Above models do not have back up heater



24KH42 **Indoor Unit**
KH2442



Outdoor Unit
CH2442



36KH42 **Indoor Unit**
KH3642



Outdoor Unit
CH3642

Wall Mounted Heat Pump

| Model No. | 09KHS51 | | 12KHS51 | | 18KHS52 | | 24KH42 | | 36KH42 | | |
|---|---------------------|--------------|---------------------|----------------|---------------------|--------------|--|----------------|--|----------------|--------------|
| Unit Model No. | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | |
| Performance & Electrical Ratings | | | | | | | | | | | |
| Capacity | Cooling | Btu/h | 9,100 | | 11,700 | | 17,000/16,500 | | 22,000/21,000 | 33,000/32,000 | |
| | Heating | Btu/h | 10,900 | | 12,500 | | 19,000/18,500 | | 25,000/24,300 | 40,000/39,000 | |
| Moisture Removal | High | Pints/H | 2.0 | | 3.5 | | 4.5/4.3 | | 7.1/6.8 | 10.6/10.6 | |
| Dry Air Flow | Hi/Med/Low | CFM | 270/240/220 | | 330/290/260 | | 390/345/315 | | 540/460/380 | 830/710/590 | |
| SEER | Cooling | | 11.0 | | 10.2 | | 10.5 | | 10.0/10.0 | 10.3/10.5 | |
| EER | Cooling | | 10.2 | | 9.8 | | 10.0/9.9 | | 9.6/9.5 | 10.0/10.2 | |
| HSPF | Heating | | 6.8 | | 6.8 | | 6.8/6.8 | | 7.0/7.0 | 7.6/7.6 | |
| COP | Heating | | 3.6 | | 3.1 | | 3.5/3.5 | | 2.9/2.9 | 3.0/3.0 | |
| Power Supply | V, Phase, Hz | | 115, 1, 60 | | 115, 1, 60 | | 230/208, 1, 60 | | 230/208, 1, 60 | 230/208, 1, 60 | |
| Running Amps | Cooling | A | 8.8 | | 10.9 | | 7.6/8.1 | | 10.3/10.9 | 14.9/15.5 | |
| | Heating | A | 8.4 | | 10.3 | | 7.1/7.5 | | 11.3/12.2 | 17.8/19.1 | |
| Power Input | Cooling | W | 890 | | 1,200 | | 1,700/1,660 | | 2,300/2,220 | 3,290/3,120 | |
| | Heating | W | 890 | | 1,170 | | 1,610/1,540 | | 2,500/2,430 | 3,860/3,810 | |
| Back-up Heater | kW | | --- | | --- | | --- | | --- | --- | |
| Maximum Fuse Size Amps | A | | 15 | | 20 | | 15 | | 25 | 40 | |
| Features | | | | | | | | | | | |
| Controls | Microcomputer | | Microcomputer | | Microcomputer | | Microcomputer | | Microcomputer | | |
| Low Ambient Control | *Optional | | *Optional | | *Optional | | Down to 23° F (0° F) *** | | Down to 23° F (0° F) *** | | |
| Wireless Remote Controller | Equip | | Equip | | Equip | | Optional (RCS-BH80UA-WL) | | Optional (RCS-BH80UA-WL) | | |
| Wired Remote Controller | --- | | --- | | --- | | Optional (RCS-SH80UG) | | Optional (RCS-SH80UG) | | |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | | 3 + Automatic | | 3 + Automatic | | 3 + Automatic | | |
| Timer | On/Off/24hr Program | | On/Off/24hr Program | | On/Off/24hr Program | | On/Off/72hr (Optional remote required) | | On/Off/72hr (Optional remote required) | | |
| | 1hr Off | | 1hr Off | | 1hr Off | | Optional Weekly timer (TM-SH80UG) | | Optional Weekly timer (TM-SH80UG) | | |
| Air Deflection | Horizontal | Manual | Manual | Manual | Manual | Manual | Manual | Manual | Manual | Manual | |
| | Vertical | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | |
| Air Filter | Washable | | Washable | | Washable | | Washable | | Washable | | |
| Refrigerant | R-22 | | R-22 | | R-22 | | R-22 | | R-22 | | |
| Refrigerant control | Capillary Tube | | Capillary Tube | | Capillary Tube | | Electronic Expansion Control Valve | | Electronic Expansion Control Valve | | |
| Operation Sound | In(Hi/Med/Lo) | dB-A | 39/34/32 | | 41/38/34 | | 41/38/36 | | 45/42/40 | 48/44/40 | |
| | Outdoor(Hi) | dB-A | 48 | | 48 | | 52 | | 53 | 56 | |
| Refrigerant Piping | Type | Flare Type | | Flare Type | | Flare Type | | Flare Type | | Flare Type | |
| | Discharge | inches | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge | 1/2" Suction | 5/8" Suction | 1/4" Discharge | 3/4" Suction | 3/8" Discharge | 3/4" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 50Ft | | Max. 65Ft | | Max. 65Ft | | Max. 165Ft | | Max. 165Ft | |
| Elevation Difference | Outdoor Above | Ft. | Max. 23Ft | | Max. 23Ft | | Max. 23Ft | | Max. 165Ft | Max. 165Ft | |
| | Outdoor Below | Ft. | Max. 23Ft | | Max. 23Ft | | Max. 23Ft | | Max. 100Ft | Max. 100Ft | |
| Dimensions & Weight | | | | | | | | | | | |
| Height | inches | 10-5/8" | 21-1/4" | 10-5/8" | 21-1/4" | 11-7/32" | 24-19/32" | 14-9/16" | 28-15/16" | 14-9/16" | 48-5/8" |
| Width | inches | 31-11/16" | 31-1/2" | 31-11/16" | 31-1/2" | 39-3/16" | 34-21/32" | 49-7/32" | 37" | 59-1/16" | 37" |
| Depth | inches | 6-31/32" | 11-13/32" | 6-31/32" | 11-13/32" | 7-23/32" | 12-19/32" | 8-9/32" | 13-3/8" | 9-7/16" | 13-3/8" |
| Net Weight | Lbs. | 17.6 | 75.0 | 17.6 | 83.9 | 26.5 | 108.0 | 40.0 | 157.0 | 73.0 | 203.0 |
| Approvals | CSA, ARI, MEA | | CSA, ARI, MEA | | CSA, ARI, MEA | | CSA, ARI, MEA | | CSA, ARI, MEA | | |

* Field installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue)

*** When air discharge chamber is installed.



Indoor Unit
KHS0922

09KHS22



Outdoor Unit
CH0922
CH1232



Indoor Unit
KHS1232
KHS1822

12KHS32
18KHS22



Outdoor Unit
CH1822



Indoor Unit
KHS2432

24KHS32



Outdoor Unit
CH2432



Only for 12KHS32, 18KHS22, 24KHS32



Only for 24KHS32

Wall Mounted Heat Pump

| Model No. | 09KHS22 | | 12KHS32 | | 18KHS22 | | 24KHS32 | |
|---|---------------------|----------------|---------------------|----------------|---------------------|----------------|------------------------------------|----------------|
| Unit Model No. | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit |
| Performance & Electrical Ratings | | | | | | | | |
| Capacity | Cooling | Btu/h | 9,000/8,800 | | 11,700/11,500 | | 16,500/16,000 | 22,000/21,200 |
| | Heating | Btu/h | 10,900/10,700 | | 13,000/12,700 | | 18,000/17,600 | 25,000/24,300 |
| Moisture Removal | High | Pints/H | 2.2/2.1 | | 3.3/3.2 | | 5.3/5.2 | 6.2/6.1 |
| Dry Air Flow | Hi/Med/Low | CFM | 220/190/160 | | 360/310/260 | | 440/380/320 | 540/460/380 |
| SEER | Cooling | | 10.0/10.0 | | 10.0/10.0 | | 10.0/10.0 | 10.0/10.0 |
| EER | Cooling | | 9.5/9.5 | | 9.7/9.7 | | 9.1/9.1 | 9.6/9.5 |
| HSPF | Heating | | 6.8/6.8 | | 6.8/6.8 | | 6.8/6.8 | 7.0/7.0 |
| COP | Heating | | 3.1/3.2 | | 3.3/3.3 | | 2.9/2.9 | 2.9/2.9 |
| Power Supply | V, Phase, Hz | | 230/208, 1, 60 | | 230/208, 1, 60 | | 230/208, 1, 60 | 230/208, 1, 60 |
| Running Amps | Cooling | A | 4.5/4.6 | | 5.6/5.9 | | 8.1/8.7 | 10.3/10.9 |
| | Heating | A | 4.7/4.8 | | 5.2/5.5 | | 8.1/8.7 | 11.3/12.2 |
| Power Input | Cooling | W | 950/930 | | 1,210/1,180 | | 1,810/1,760 | 2,300/2,220 |
| | Heating | W | 1,030/980 | | 1,170/1,120 | | 1,810/1,760 | 2,500/2,430 |
| Back-up Heater | kW | | 1.0/0.82 | | 1.5/1.23 | | 1.8/1.47 | 1.8/1.47 |
| Maximum Fuse Size Amps | A | | 15 | | 20 | | 30 | 30 |
| Features | | | | | | | | |
| Controls | Microcomputer | | Microcomputer | | Microcomputer | | Microcomputer | |
| Low Ambient Control | *Optional | | *Optional | | *Optional | | Down to 23° F | |
| Wireless Remote Controller | Equip | | Equip | | Equip | | Equip | |
| Wired Remote Controller | --- | | --- | | --- | | --- | |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | | 3 + Automatic | | 3 + Automatic | |
| Timer | On/Off/24hr Program | | On/Off/24hr Program | | On/Off/24hr Program | | On/Off/24hr Program | |
| Air Deflection | Horizontal | Manual | Manual | Manual | Manual | Manual | Manual | Manual |
| | Vertical | Manual | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic |
| Air Filter | Washable | | Washable | | Washable | | Washable | |
| Refrigerant | R-22 | | R-22 | | R-22 | | R-22 | |
| Refrigerant control | Capillary Tube | | Capillary Tube | | Capillary Tube | | Electronic Expansion Control Valve | |
| Operation Sound | In(Hi/Med/Lo) | dB-A | 40/35/30 | | 43/39/36 | | 47/44/40 | 45/42/40 |
| | Outdoor(Hi) | dB-A | 49 | 49 | 55 | | | 53 |
| Refrigerant Piping | Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type |
| | Discharge | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge | 1/4" Discharge |
| | Suction | 3/8" Suction | 3/8" Suction | 1/2" Suction | 5/8" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 50Ft | Max. 65Ft | Max. 65Ft | Max. 65Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft |
| Elevation Difference | Outdoor Above | Ft. | Max. 23Ft | Max. 23Ft | Max. 23Ft | Max. 23Ft | Max. 165Ft | Max. 165Ft |
| | Outdoor Below | Ft. | Max. 23Ft | Max. 23Ft | Max. 23Ft | Max. 23Ft | Max. 100Ft | Max. 100Ft |
| Dimensions & Weight | | | | | | | | |
| Height | inches | 13-19/32" | 20-7/8" | 14-3/16" | 20-7/8" | 14-3/16" | 24-13/16" | 14-9/16" |
| Width | inches | 31-1/2" | 29-17/32" | 38-31/32" | 29-17/32" | 38-31/32" | 32-11/16" | 49-7/32" |
| Depth | inches | 7-3/32" | 11-1/32" | 7-25/32" | 11-1/32" | 7-25/32" | 12-13/32" | 8-9/32" |
| Net Weight | Lbs. | 24.0 | 90.0 | 30.0 | 92.0 | 30.0 | 134.0 | 40.0 |
| Approvals | ETL, ARI, MEA | | ETL, ARI, MEA | | ETL, ARI, MEA | | ETL, ARI, MEA | |

* Field Installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue)

Dual-Zone Air Conditioners & Heat Pump /



Outdoor Unit
CM1812
CMH1822



Indoor Unit
KMS0912 (x2)
KMH0922 (x2)



18KMS12

Indoor Unit
KMS0912 (x2)



18KMH22

Indoor Unit
KMH0922 (x2)



Outdoor Unit
CM2412



Indoor Unit
KMS1212 (x2)



24KMS12

Indoor Unit
KMS1212 (x2)



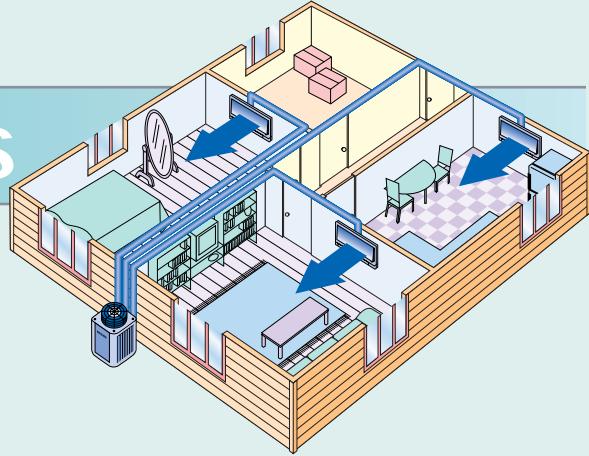
| Dual-Zone Air Conditioners | | | | Dual-Zone Heat Pump | | |
|---|--------------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------|
| Model No. | 18KMS12 | 24KMS12 | 18KMH22 | | | |
| Unit Model No. | Indoor Unit KMS0912 x 2 | Outdoor Unit CM1812 | Indoor Unit KMS1212 x 2 | Outdoor Unit CM2412 | Indoor Unit KMH0922 x 2 | |
| Performance & Electrical Ratings | EACH SYSTEM | TOTAL SYSTEM | EACH SYSTEM | TOTAL SYSTEM | EACH SYSTEM | |
| Capacity | Cooling Heating | Btu/h Btu/h | 9,000/8,800 --- | 18,000/17,600 --- | 12,800/12,500 --- | 24,000/23,500 --- |
| Moisture Removal | High | Pints/H | 2.2/2.1 | 4.4/4.2 | 3.3/3.2 | 5.6/5.4 |
| Dry Air Flow | Hi/Med/Low | CFM | 220/190/160 | 440/380/320 | 360/310/260 | 720/620/520 |
| SEER | Cooling | | 10.0/10.0 | 10.0/10.0 | 10.0/10.0 | 10.0/10.0 |
| EER | Cooling | | 9.7/9.7 | 9.7/9.7 | 10.0/10.1 | 9.3/9.5 |
| HSPF | Heating | | --- | --- | --- | 7.0/7.0 |
| COP | Heating | | --- | --- | --- | 3.3/3.3 |
| Power Supply | V, Phase, Hz | | 230/208, 1, 60 | | 230/208, 1, 60 | 230/208, 1, 60 |
| Running Amps | Cooling Heating | A | 4.3/4.5 A | 8.6/9.0 --- | 5.7/6.0 --- | 11.2/12.0 --- |
| Power Input | Cooling Heating | W | 930/910 W | 1,860/1,820 --- | 1,280/1,240 --- | 2,570/2,480 --- |
| Back-up Heater | kW | | --- | --- | --- | 1.0/0.82 |
| Maximum Fuse Size Amps | A | | 15 | | 30 | 30 |
| Features | | | | | | |
| Controls | Microcomputer | | Microcomputer | Microcomputer | | |
| Low Ambient Control | *Optional | | *Optional | *Optional | | |
| Wireless Remote Controller | Equip | | Equip | --- | | |
| Wired Remote Controller | --- | | --- | Equip | | |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | 3 + Automatic | | |
| Timer | On/Off/24hr Program | | On/Off/24hr Program | On/Off/12hr | | |
| Air Deflection | Horizontal Vertical | | Manual Manual | Manual Automatic | Manual Manual | |
| Air Filter | | | Washable | Washable | Washable | |
| Refrigerant | | | R-22 | R-22 | R-22 | |
| Refrigerant control | Capillary Tube | | Capillary Tube | Capillary Tube | | |
| Operation Sound | In(Hi/Med/Lo) Outdoor(Hi) | dB-A | 40/35/30 54 | 40/37/34 53 | 40/35/30 56 | |
| Refrigerant Piping | Type | | Flare Type | Flare Type | Flare Type | |
| | Discharge Suction | inches inches | 1/4" Discharge 3/8" Suction | 1/4" Discharge 1/2" Suction | 1/4" Discharge 3/8" Suction | |
| Refrigerant Pipe Length** | Ft. | | Max. 50Ft | Max. 65Ft | Max. 50Ft | |
| Elevation Difference | Outdoor Above Outdoor Below | Ft. Ft. | Max. 23Ft Max. 23Ft | Max. 23Ft Max. 23Ft | Max. 23Ft Max. 23Ft | |
| Dimensions & Weight | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | |
| Height | inches | 13-19/32" | 24-13/16" | 14-3/16" | 32-7/8" | |
| Width | inches | 31-1/2" | 32-11/16" | 39-3/8" | 33-15/32" | |
| Depth | inches | 7-3/32" | 12-13/32" | 8-3/32" | 12-1/32" | |
| Net Weight | Lbs. | 24.0 | 130.0 | 37.0 | 158.0 | |
| Approvals | ETL, ARI, MEA | | ETL, ARI, MEA | ETL, ARI, MEA | | |

* Field Installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue)

Tri-Zone Air Conditioners

Simultaneous Comfort Control in Two or Three Rooms

Sanyo's "Whisper Quiet" Multi-zone systems allow you to maintain comfortable, independent temperature control in more than one room simultaneously. Each indoor unit come with its own remote control that conveniently places all system functions & operations at your finger tips. In addition, each indoor unit is served by its own super quiet, Sanyo Rotary Compressor, that is housed in one outdoor unit, circuited to provide for the independent operation of each zone.



| Tri-Zone Air Conditioners | | | |
|---|---------------------|---------------------|-----------------|
| Model No. | | 32KMS12 | 18KMH22 |
| Unit Model No. | KMS0712 x 2 | KMS1812 | Outdoor: CM3212 |
| Performance & Electrical Ratings | | | |
| Capacity Cooling | Btu/h | 7,000/7,000 | 18,000/18,000 |
| Capacity Heating | Btu/h | --- | --- |
| Moisture Removal | Pints/H | 2.2/2.1 | 5.3/5.2 |
| Dry Air Flow | Hi/Med/Low CFM | 220/190/160 | 440/380/320 |
| SEER | Cooling | 10.0/10.0 | 10.0/10.0 |
| EER | Cooling | 9.3/9.7 | 9.0/9.2 |
| HSPF | Heating | --- | --- |
| COP | Heating | --- | --- |
| Power Supply | V, Phase, Hz | 230/208, 1, 60 | |
| Running Amps | Cooling A | 3.3/3.5 | 8.9/9.5 |
| | Heating A | --- | --- |
| Power Input | Cooling W | 750/720 | 2,000/1,950 |
| | Heating W | --- | --- |
| Back-up Heater | kW | --- | --- |
| Maximum Fuse Size Amps | A | | 30 |
| Features | | | |
| Controls | Microcomputer | Microcomputer | |
| Low Ambient Control | *Optional | *Optional | |
| Wireless Remote Controller | Equip | Equip | |
| Wired Remote Controller | --- | --- | |
| Fan Speeds | 3 + Automatic | 3 + Automatic | |
| Timer | On/Off/24hr Program | On/Off/24hr Program | |
| Air Deflection | Horizontal | Manual | Manual |
| | Vertical | Manual | Automatic |
| Air Filter | | Washable | Washable |
| Refrigerant | | R-22 | R-22 |
| Refrigerant control | | Capillary Tube | |
| Operation Sound | In(Hi/Med/Low) dB-A | 40/35/30 | 47/44/40 |
| | Outdoor(Hi) dB-A | 62 | 62 |
| Refrigerant Piping | Type | Flare Type | Flare Type |
| Discharge | inches | 1/4" Discharge | 1/4" Discharge |
| Suction | inches | 3/8" Suction | 1/2" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 50Ft (each) | Max. 65Ft. |
| Elevation Difference | Outdoor Above Ft. | Max. 23Ft. | Max. 23Ft. |
| | Outdoor Below Ft. | Max. 23Ft. | Max. 23Ft. |
| Dimensions & Weight | | | |
| Height | inches | KMS0712 | KMS1812 |
| Width | inches | 13-19/32" | 14-3/16" |
| Depth | inches | 31-1/2" | 38-31/32" |
| Net Weight | Lbs. | 24.0 | 30.0 |
| Approvals | | ETL, ARI, MEA | 220.0 |

* Field Installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue)

Ceiling-Suspended Air Conditioner & Heat



Wireless
Remote Controller



Indoor Unit
TS2432
THS2432



Outdoor Unit
C2432A/CL2432A
CH2432

24TS32A/24TLS32A
24THS32



Indoor Unit
TS3632
THS3632
TS4232



Outdoor Unit
C3632A/CL3632A
CH3632
C4232A/CL4232A



Wireless
Remote Controller

36TS32A/36TLS32A
42TS32A/42TLS32A
36THS32



LOW AMBIENT Only for 24TLS32A, 36TLS32A, 42TLS32A

Cooling **Heating** **Electric** Only for 24THS32, 36THS32



24TH42

Indoor Unit
TH2442



36TH42/42TH42

Indoor Unit
TH3642
TH4242



Outdoor Unit
CH3642
CH4242



Quiet operation

The ceiling-mounted unit is equipped with a highly efficient, multi-blade centrifugal fan that generates a powerful yet gentle airflow throughout the room.

A redesigned aerodynamically tested louver structure minimizes operational sound even at high fan speed.

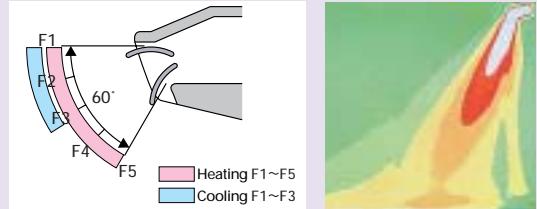


| | | |
|---|---------------|---------|
| Model No. | | |
| Unit Model No. | | |
| Performance & Electrical Ratings | | |
| Capacity | Cooling | Btu/h |
| | Heating | Btu/h |
| Moisture Removal | High | Pints/H |
| Dry Air Flow | Hi/Med/Low | CFM |
| SEER | Cooling | |
| EER | Cooling | |
| HSPF | Heating | |
| COP | Heating | |
| Power Supply | V, Phase, Hz | |
| Running Amps | Cooling | A |
| | Heating | A |
| Power Input | Cooling | W |
| | Heating | W |
| Back-up Heater | | kW |
| Maximum Fuse Size Amps | | A |
| Features | | |
| Controls | | |
| Low Ambient Control (for Cooling) | | |
| Wireless Remote Controller | | |
| Wired Remote Controller | | |
| Fan Speeds | | |
| Timer | | |
| Air Deflection | Horizontal | |
| | Vertical | |
| Air Filter | | |
| Refrigerant | | |
| Refrigerant control | | |
| Operation Sound | In(H/Me/Lo) | dB-A |
| | Outdoor(Hi) | dB-A |
| Refrigerant Piping | Type | |
| | Discharge | inches |
| | Suction | inches |
| Refrigerant Pipe Length** | Ft. | |
| Elevation Difference | Outdoor Above | Ft. |
| | Outdoor Below | Ft. |
| Dimensions & Weight | | |
| Height | inches | |
| Width | inches | |
| Depth | inches | |
| Net Weight | Lbs. | |
| Approvals | | |

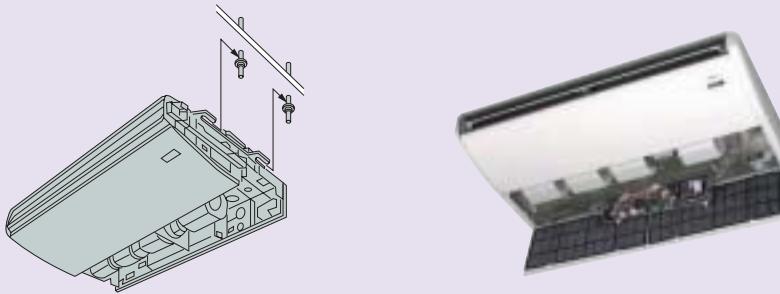
Pumps

Auto louver function provides optimum airflow during heating or cooling operation.

Auto louver function is a standard feature which provide optimum airflow during heating or cooling operation. Angle of louver is automatically set for heating or cooling. For example, when heating with fan speed set to low, the discharge is aimed downward so that warm air reaches the floor. The louver angle can be set to between 4° above and 80° below the horizontal in five steps. An auto sweep function to distribute the airflow over a wide area is also provided. Wind direction is adjusted automatically in both heating and cooling operation. The louver can also be set to swing automatically from F1 to F5 in any operation mode (heat pump type only).



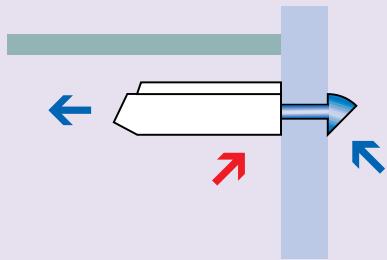
Improved serviceability / Easy Installation



External suspension method.
Installation time can be shortened.

Improved accessibility to electronic components (control box) for serving.

Fresh Air Intake Capability



The ceiling recessed models have the capability of bringing fresh air from outside.

Ceiling - Suspended Air Conditioners

| 24TS32A / 24TLS32A | 36TS32A / 36TLS32A | 42TS32A / 42TLS32A | 24THS32 | 36THS32 | 24TH42 | 36TH42 | 42TH42 |
|--------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|--|--|--|
| Indoor Unit | Outdoor Unit | Indoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit |
| TS2432 C2432A/CL2432A | TS3632 C3632A/CL3632A | TS4232 C4232A/CL4232A | THS2432 CH2432 | THS3632 CH3632 | TH2442 CH2442 | TH3642 CH3642 | TH4242 CH4242 |
| 24,000/23,400 | 34,000/33,000 | 42,000/40,500 | 22,400/21,600 | 34,000/33,000 | 22,400/21,600 | 34,000/33,000 | 42,000/40,000 |
| --- | --- | --- | 25,400/25,000 | 40,000/39,000 | 25,400/25,000 | 40,000/39,000 | 44,000/42,000 |
| 7.1/6.9 | 10.6/10.8 | 14.8/14.6 | 6.3/6.2 | 10.7/10.8 | 8.0/7.9 | 10.7/10.8 | 14.8/14.3 |
| 460/400/310 | 900/790/680 | 900/---/--- | 460/400/310 | 900/790/680 | 550/490/460 | 1,100/930/750 | 1,100/930/750 |
| 10.0/10.0 | 10.6/10.9 | 10.2/10.3 | 10.0/10.0 | 10.4/10.7 | 10.0/10.0 | 10.4/10.7 | 10.0/10.4 |
| 9.9/9.9 | 10.2/10.5 | 10.0/9.9 | 9.5/9.5 | 10.1/10.4 | 9.5/9.5 | 10.1/10.4 | 9.8/9.5 |
| --- | --- | --- | 7.0/7.0 | 7.3/7.3 | 7.0/7.0 | 7.3/7.3 | 7.0/7.0 |
| --- | --- | --- | 2.9/2.9 | 3.0/2.9 | 2.9/2.9 | 3.0/2.9 | 2.9/2.8 |
| 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 |
| 11.3/11.9 | 15.0/15.5 | 20.6/21.0 | 10.7/11.3 | 15.1/15.7 | 10.7/11.3 | 15.1/15.7 | 20.6/21.3 |
| --- | --- | --- | 11.7/12.9 | 18.2/19.6 | 11.7/12.9 | 18.2/19.6 | 21.7/22.5 |
| 2,420/2,360 | 3,340/3,130 | 4,190/4,100 | 2,350/2,280 | 3,350/3,170 | 2,350/2,280 | 3,350/3,170 | 4,300/4,200 |
| --- | --- | --- | 2,550/2,500 | 3,950/3,890 | 2,550/2,500 | 3,950/3,890 | 4,450/4,350 |
| --- | --- | --- | 1.8/1.47 | 2.4/1.95 | --- | --- | --- |
| 25 | 35 | 50 | 30 | 45 | 25 | 40 | 45 |
| Microcomputer | Microcomputer | Microcomputer | Microcomputer | Microcomputer | Microcomputer | Microcomputer | Microcomputer |
| 24TLS32A Equip. | 36TLS32A Equip. | 42TLS32A Equip. | Down to 23° F | Down to 23° F | Down to 23° F (0° F)*** | Down to 23° F (0° F)*** | Down to 23° F (0° F)*** |
| Equip | Equip | Equip | Equip | Equip | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) |
| Optional(RCS-102WD, RCS-302WD) | Optional(RCS-102WD, RCS-302WD) | Optional(RCS-102WD, RCS-302WD) | --- | --- | Optional(RCS-SH80UG) | Optional(RCS-SH80UG) | Optional(RCS-SH80UG) |
| 3 + Automatic | 3 + Automatic | 3 + Automatic | 3 + Automatic | 3 + Automatic | 3 + Automatic | 3 + Automatic | 3 + Automatic |
| On/Off/24hr Program | On/Off/24hr Program | On/Off/24hr Program | On/Off/24hr Program | On/Off/24hr Program | On/Off/72hr (Optional remote required) | On/Off/72hr (Optional remote required) | On/Off/72hr (Optional remote required) |
| 1hr Off | 1hr Off | 1hr Off | 1hr Off | 1hr Off | Optional Weekly timer (TM-SH80UG) | Optional Weekly timer (TM-SH80UG) | Optional Weekly timer (TM-SH80UG) |
| Manual | Manual | Manual | Manual | Manual | Manual | Manual | Manual |
| Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic | Automatic |
| Washable | Washable | Washable | Washable | Washable | Washable | Washable | Washable |
| R-22 | R-22 | R-22 | R-22 | R-22 | R-22 | R-22 | R-22 |
| Capillary Tube | Capillary Tube | Capillary Tube | Electronic Expansion Control Valve | Electronic Expansion Control Valve | Electronic Expansion Control Valve | Electronic Expansion Control Valve | Electronic Expansion Control Valve |
| 39/37/33 | 42/40/35 | 42/40/35 | 39/37/33 | 42/40/35 | 40/38/36 | 46/42/37 | 47/43/38 |
| 53 | 56 | 56 | 53 | 56 | 53 | 56 | 56 |
| Flare Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type | Flare Type |
| 1/4" Discharge | 3/8" Discharge | 3/8" Discharge | 1/4" Discharge | 3/8" Discharge | 1/4" Discharge | 3/8" Discharge | 3/8" Discharge |
| 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction | 3/4" Suction |
| Max. 132Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft |
| Max. 132Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft | Max. 165Ft |
| Max. 83Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft | Max. 100Ft |
| Indoor Unit | Outdoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit |
| 7-15/32" | 28-15/16" | 9-7/16" | 48-5/8" | 9-7/16" | 48-5/8" | 9-7/16" | 48-5/8" |
| 51-3/16" | 37" | 62" | 37" | 62" | 37" | 62-1/32" | 37" |
| 26-3/8" | 13-3/8" | 26-3/8" | 13-3/8" | 26-3/8" | 13-3/8" | 26-3/8" | 13-3/8" |
| 57.0 | 150.0 | 84.0 | 198.0 | 97.0 | 205.0 | 60.0 | 157.0 |
| ETL, ARI, MEA | ETL, ARI, MEA | ETL, ARI, MEA | ETL, ARI, MEA | ETL, ARI, MEA | CSA, ARI, MEA | CSA, ARI, MEA | CSA, ARI, MEA |

* Field Installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue)

*** When air discharge chamber is installed.

Ceiling-Recessed Air Conditioners & Heat



Wireless
Remote Controller



12RS11/12RLS11
Cooling Unit
RS1211



Outdoor Unit
C1211/CL1211


LOW AMBIENT Only for 12RLS11



Wireless
Remote Controller



18XS52/18XLS52
24XS32A/24XLS32A
Indoor Unit
XS1852
XS2432



Outdoor Unit
C1852
CL1852


LOW AMBIENT Only for 18XLS52, 24XLS32A

36XS32A/36XLS32A
42XS32A/42XLS32A
36XHS32



Wireless
Remote Controller



Indoor Unit
XS3632
XS4232
XHS3632



Outdoor Unit
C3632A/CL3632A
C4232A/CL4232A
CH3632


LOW AMBIENT Only for 36XLS32A, 42XLS32A
COOLING HEATING Only for 36XHS32



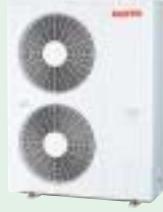
24XH42
Indoor Unit
XH2442



Outdoor Unit
CH2442



36XH42
42XH42
Indoor Unit
XH3642
XH4242



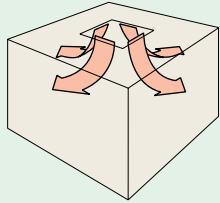
Outdoor Unit
CH3642
CH4242



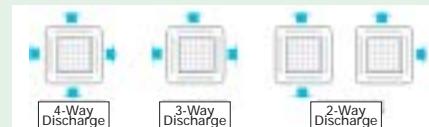
| | |
|---|---------------------|
| Model No. | |
| Unit Model No. | |
| Performance & Electrical Ratings | |
| Capacity | Cooling Btu/h |
| | Heating Btu/h |
| Moisture Removal | High Pints/H |
| Dry Air Flow | Hi/Med/Low CFM |
| SEER | Cooling |
| EER | Cooling |
| HSPF | Heating |
| COP | Heating |
| Power Supply | V, Phase, Hz |
| Running Amps | Cooling A |
| | Heating A |
| Power Input | Cooling W |
| | Heating W |
| Back-up Heater | kW |
| Maximum Fuse Size Amps | A |
| Features | |
| Controls | |
| Low Ambient Control (for Cooling) | |
| Wireless Remote Controller | |
| Wired Remote Controller | |
| Fan Speeds | |
| Timer | |
| Air Deflection | Horizontal |
| | Vertical |
| Air Filter | |
| Refrigerant | |
| Refrigerant control | |
| Operation Sound | In(Hi/Med/Low) dB-A |
| | Outdoor(Hi) dB-A |
| Refrigerant Piping | Type |
| | Discharge inches |
| | Suction inches |
| Refrigerant Pipe Length* | Ft. |
| Elevation Difference | Outdoor Above Ft. |
| | Outdoor Below Ft. |
| Dimensions & Weight | |
| Height | inches |
| Width | inches |
| Depth | inches |
| Net Weight | Lbs. |
| Approvals | |

Pump

4-way airflow design sends cool air in all directions



Air is returned through the center of the grille, while evenly distributing air through each of the 4 supply air openings. Installation in the center of the room provides for the greatest comfort. However, 1 or 2 supply louvers can be closed for installation near 1 wall to provide 3 or 2 way airflow. Also, by closing off 1 supply louver, you may attach a duct (field supply) to the upper plenum and provide conditioned air to another, separate area.



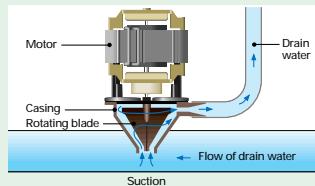
Whisper-quiet operation

Thanks to the newly developed turbo fan and decreased resistance of the air path, one of the industry's lowest levels of noise has been achieved.



Integrated drain pump

Drain pump is built into the unit to raise the drain pipe up 20 inches[†] from the drain pan. [†]: Excluding RS1211



Fresh Air Intake Plenum (Option)

When used to take in fresh air, attach the fresh air-intake plenum to the unit.

Air-intake plenum is optionally supplied.

CMB-GSJ80T for XS1852, XS2432, XHS2432,

CMB-GSJ140T for XS3632, XS4232, XHS3632

CMB-GSJ80U for XH2442

CMB-GSJ140U for XH3642, XH4242



Ceiling - Recessed Air Conditioners

Ceiling-Recessed H/P

| 12RS11/12RLS11 | 18XLS52/18XLS52 | 24XLS32A/24XLS32A | 36XLS32A/36XLS32A | 42XLS32A/42XLS32A | 24XH42 | 36XH42 | 42XH42 | 36XHS32 | |
|--|--|--|--|--|--|--|--|--|--|
| Indoor Unit | Outdoor Unit |
| RS1211 | C1211/CL1211 | XS1852 | C1852/CL1852 | XS2432 | C2432A/CL2432A | XS3632 | C3632A/CL3632A | XS4232 | C4232A/CL4232A |
| | | PNR-XS2432 | PNR-XS2432 | PNR-XS3632 | PNR-XS3632 | PNR-XH2442 | PNR-XH3642 | PNR-XH3642 | PNR-XH3632 |
| 11,500 | 18,000/17,500 | 24,000/23,400 | 36,000/35,000 | 42,000/40,500 | 24,000/23,400 | 34,500/33,500 | 42,000/40,000 | 34,500/33,500 | 34,500/33,500 |
| --- | --- | --- | --- | --- | 25,000/24,300 | 37,500/36,500 | 44,000/42,000 | 37,500/36,500 | 37,500/36,500 |
| 3.1 | 5.5/5.4 | 7.1/6.9 | 11.9/11.9 | 14.6/14.8 | 8.6/8.4 | 10.5/10.6 | 14.4/14.0 | 11.1/11.1 | 11.1/11.1 |
| 280/245/220 | 540/460/360 | 540/460/360 | 980/830/650 | 980/880 | 710/530/450 | 1,050/840/720 | 1,050/840/720 | 980/830/650 | 980/830/650 |
| 10.0 | 10.4/10.4 | 10.0/10.2 | 10.8/11.0 | 10.2/10.3 | 10.0/10.2 | 10.7/11.0 | 10.4/10.4 | 10.7/11.0 | 10.7/11.0 |
| 9.6 | 10.1/10.1 | 9.8/9.8 | 10.5/10.8 | 9.9/9.8 | 9.8/10.0 | 10.3/10.5 | 10.0/9.8 | 10.3/10.5 | 10.3/10.5 |
| --- | --- | --- | --- | --- | 7.0/7.0 | 7.0/7.0 | 7.0/7.0 | 7.0/7.0 | 7.0/7.0 |
| --- | --- | --- | --- | --- | 2.9/2.9 | 2.9/2.9 | 2.9/2.9 | 2.9/2.9 | 2.9/2.9 |
| 115, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 | 230/208, 1, 60 |
| 11.2 | 8.0/8.6 | 11.6/12.2 | 15.4/16.0 | 20.8/21.1 | 11.2/11.6 | 15.4/15.8 | 20.6/21.0 | 15.4/15.8 | 15.4/15.8 |
| --- | --- | --- | --- | --- | 11.7/12.3 | 18.2/19.3 | 21.7/22.2 | 18.2/19.3 | 18.2/19.3 |
| 1,200 | 1,780/1,730 | 2,440/2,380 | 3,440/3,250 | 4,230/4,120 | 2,450/2,350 | 3,350/3,200 | 4,200/4,100 | 3,350/3,200 | 3,350/3,200 |
| --- | --- | --- | --- | --- | 2,500/2,450 | 3,850/3,750 | 4,450/4,350 | 3,850/3,750 | 3,850/3,750 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 20 | 25 | 35 | 50 | 25 | 40 | 45 | 30 | |
| Microcomputer |
| 12RLS11 Equip. | 18XLS52 Equip. | 24XLS32A Equip. | 36XLS32A Equip. | 42XLS32A Equip. | Down to 23° F (0° F)*** | Down to 23° F |
| Equip | Equip | Equip | Equip | Equip | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Optional(RCS-BH80UA-WL, RCS-SH80UA-WL) | Equip |
| --- | Optional(RCS-102WD, RCS-302WD) | Optional(RCS-102WD, RCS-302WD) | Optional(RCS-102WD, RCS-302WD) | Optional(RCS-102WD, RCS-302WD) | Optional(RCS-SH80UG) | Optional(RCS-SH80UG) | Optional(RCS-SH80UG) | Optional(RCS-SH80UG) | --- |
| 3 + Automatic |
| On/Off/24hr Program | On/Off/24hr (Optional remote required) | On/Off/24hr Program |
| | 1hr Off | 1hr Off | 1hr Off | 1hr Off | Optional Weekly timer (TM-SH80UG) | 1hr Off |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Manual | Automatic |
| Washable |
| R-22 |
| Capillary Tube | Electronic Expansion Control Valve |
| 45/41/37 | 37/35/31 | 37/35/31 | 43/40/36 | 43/40/36 | 38/35/31 | 44/37/33 | 45/38/34 | 43/40/36 | |
| 49 | 55 | 53 | 56 | 56 | 53 | 56 | 56 | 56 | 56 |
| Flare Type 1/4" Discharge 1/2" Suction | Flare Type 1/4" Discharge 5/8" Suction | Flare Type 1/4" Discharge 3/4" Suction | Flare Type 3/8" Discharge 3/4" Suction | Flare Type 3/8" Discharge 3/4" Suction | Flare Type 1/4" Discharge 3/4" Suction | Flare Type 3/8" Discharge 3/4" Suction |
| Max. 65Ft | Max. 65Ft | Max. 132Ft | Max. 165Ft |
| Max. 23Ft | Max. 23Ft | Max. 132Ft | Max. 165Ft |
| Max. 23Ft | Max. 23Ft | Max. 83Ft | Max. 100Ft |
| Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit | Indoor Unit |
| 12-5/8" | 20-7/8" | 12-29/32" | 24-19/32" | 12-29/32" | 14-3/2" | 28-15/16" | 14-1/2" | 48-5/8" | 14-1/2" |
| 31-29/32" | 29-17/32" | 33-27/32" | 34-21/32" | 33-27/32" | 45-9/32" | 37" | 45-9/32" | 37" | 45-9/32" |
| 24-13/32" | 11-13/32" | 33-27/32" | 12-19/32" | 33-27/32" | 13-7/8" | 33-27/32" | 13-7/8" | 33-27/32" | 13-3/8" |
| 68.0 | 90.0 | 60.0 | 108.0 | 60.0 | 150.0 | 75.0 | 198.0 | 84.0 | 205.0 |
| ETL, ARI, MEA |

* Field installed ** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue for more detail.)

*** When air discharge chamber is installed

Concealed Duct



UH2442

**Indoor Unit
UH2442**

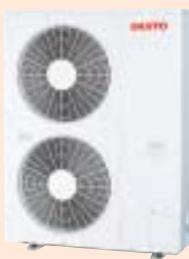


**Outdoor Unit
CH2442**



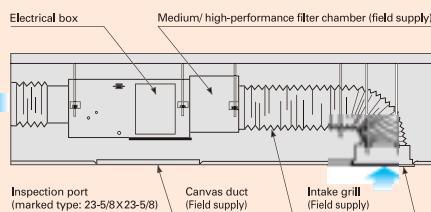
UH3642

**Indoor Unit
UH3642**



**Outdoor Unit
CH3642**

Outline diagram with medium-or high-performance filter installed.

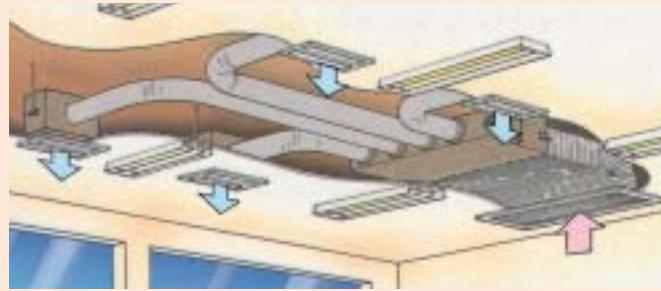


Built-in drain pump

Max. head 30 inches from the bottom of the unit.(condensate pump is only for allowing drain line to meet minimum gravity flow requirements.)

Installation Example

The basic systems in the concealed-duct type air conditioner.



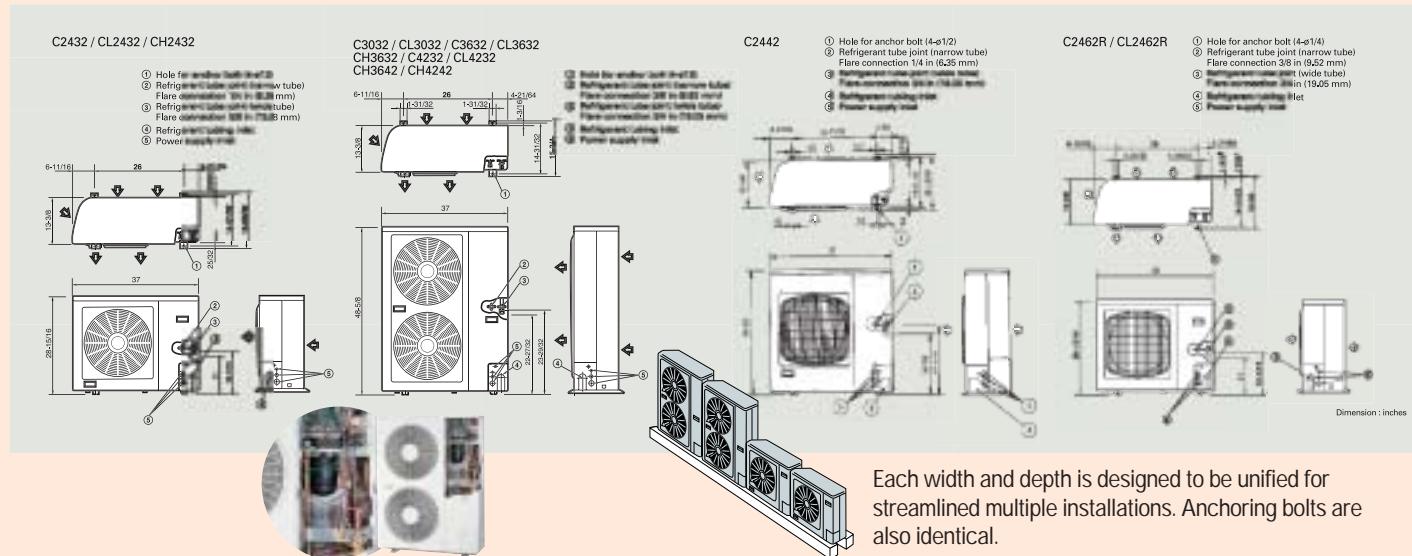
Above picture shows the standard ducting system, where air is taken in from the back of the unit. This system is useful for places which need extensive air conditioning, including conference halls, showrooms, and restaurants.

Concealed Duct Heat Pumps

| Model No. | 24UH42 | | 36UH42 | |
|---|---|---|---|---|
| | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit |
| Performance & Electrical Ratings | | | | |
| Capacity | Cooling Btu/h | 24,000/23,400 | | 34,500/33,000 |
| | Heating Btu/h | 27,000/26,500 | | 37,500/36,500 |
| Moisture Removal | High Pints/H | 8.4/7.7 | | 10.0/9.9 |
| Dry Air Flow | Hi/Med/Low CFM | 670/530/460 | | 1,060/920/750 |
| External Static Pressure | in. Aq | 0.2: at shipment 0.4: using jumper cable | | 0.24: at shipment 0.38: using jumper cable |
| SEER | Cooling | 10.0/10.0 | | 10.3/10.5 |
| EER | Cooling | 9.4/9.4 | | 10.3/10.4 |
| HSPF | Heating | 7.0/7.0 | | 7.0/7.0 |
| COP | Heating | 3.0/3.0 | | 2.9/2.8 |
| Power Supply | V, Phase, Hz | 230/208, 1, 60 | | 230/208, 1, 60 |
| Running Amps | Cooling A | 11.5/12.1 | | 15.1/15.7 |
| | Heating A | 12.0/12.5 | | 18.2/19.6 |
| Power Input | Cooling W | 2,550/2,480 | | 3,350/3,170 |
| | Heating W | 2,650/2,550 | | 3,780/3,760 |
| Back-up Heater | kW | --- | | --- |
| Maximum Fuse Size Amps | A | 25 | | 40 |
| Features | | | | |
| Controls | Microcomputer | | Microcomputer | |
| Low Ambient Control | Down to 23° F (0° F)*** | | Down to 23° F (0° F)*** | |
| Wireless Remote Controller | Optional (RCS-SH80UA-WL) | | Optional (RCS-SH80UA-WL) | |
| Wired Remote Controller | Optional (RCS-SH80UG) | | Optional (RCS-SH80UG) | |
| Fan Speeds | 3 + Automatic | | 3 + Automatic | |
| Timer | On/Off/72hr (Optional remote required) Optional Weekly timer (TM-SH80UG) | | On/Off/72hr (Optional remote required) Optional Weekly timer (TM-SH80UG) | |
| Air Deflection | Horizontal | --- | --- | --- |
| | Vertical | --- | --- | --- |
| Air Filter | --- | | --- | |
| Refrigerant | R-22 | | R-22 | |
| Refrigerant control | Electronic Expansion Control Valve | | Electronic Expansion Control Valve | |
| Operation Sound | In(Hi/Med/Low) dB-A Outdoor(HI) dB-A | 34/30/27 53 | | 38/33/31 56 |
| Refrigerant Piping | Type | Flare Type | | Flare Type |
| | Discharge inches | 1/4" Discharge | | 3/8" Discharge |
| | Suction inches | 3/4" Suction | | 3/4" Suction |
| Refrigerant Pipe Length** | Ft. | Max. 165Ft | | Max. 165Ft |
| Elevation Difference | Outdoor Above Ft. Outdoor Below Ft. | Max. 165Ft Max. 100Ft | | Max. 165Ft Max. 100Ft |
| Dimensions & Weight | | | | |
| | Indoor Unit | Outdoor Unit | Indoor Unit | Outdoor Unit |
| Height | inches | 12-7/32" | 28-15/16" | 12-7/32" |
| Width | inches | 39-3/8" | 37" | 58-9/32" |
| Depth | inches | 24-13/16" | 13-3/8" | 24-13/16" |
| Net Weight | Lbs. | 71.0 | 157.0 | 104.0 |
| Approvals | CSA, ARI, MEA | | CSA, ARI, MEA | |

** This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalogue for more detail.) *** When air discharge chamber is installed

Space saving and easy to install outdoor unit (2t & up)



Each width and depth is designed to be unified for streamlined multiple installations. Anchoring bolts are also identical.

Gas Heater Air Conditioner



14KGS11

Indoor Unit
KGS1411



Outdoor Unit
CG1411



Rating Conditions: Cooling—Indoor air temperature 80° F D.B. / 67° F W.B., Outdoor air temperature 95° F D.B. / 75° F W.B.
Rating Conditions: Heating—Indoor air temperature 70° F D.B., Outdoor air temperature 47° F D.B. / 43° F W.B.
** This is maximum elevation difference. When the Indoor Unit is located above the Outdoor Unit.
(Refer to back of the catalogue for more detail.)

DATA SUBJECT TO CHANGE WITHOUT NOTICE

Gas Heater Air Conditioners 14KGS11

| | Cooling | Heating |
|---|---------------------------------|--|
| POWER SOURCE | | |
| Electric Power | 115V60Hz | |
| Employed Gas | --- | Natural gas (LPG) |
| PERFORMANCE | | |
| Capacity | 8,800 BTU/h | 14,000/9,900/6,150 BTU/h |
| Air Circulation (High) | 282 cfm | 300 cfm |
| Moisture Removal (High) | 2.2 Pint/h | --- |
| Maximum Fuse Size | Amps | 15A |
| ELECTRICAL RATING | | |
| Available Voltage range | | 104-126 |
| Running Amps | 8.2A | 5.9A |
| Power Input | 900 W | 620 W |
| SEER | 10.0 BTU/Wh | --- |
| FEATURES | | |
| Controls/Temperature Control | Microcomputer / IC thermostat | |
| Control Unit | Wireless remote control unit | |
| Timer | On/Off 12 hours, 1 hour Off | |
| Fan Speeds | 3 and Auto / 1 (Hi) | |
| Airflow Direction (Indoor) | Horizontal/Vertical | Manual / Auto |
| Air Filter | | Washable |
| Compressor | | Rotary (Hermetic) |
| Refrigerant/Amountcharged at shipment | | 1.34lb. |
| Refrigerant Control | | Capillary Tube |
| Operation Sound | Indoor: Hi/Me/Lo Outdoor: Hi | 39/37/34 dB-A 45 dB-A |
| Refrigerant Tubing Connections | | 41/38/33 dB-A 43 dB-A |
| Max Allowable Tubing Length/Elevation difference** | | Flare 49'/23' |
| Refrigerant | Narrow tube | 1/4" |
| Tubing Diameter | Wide tube | 3/8" |
| Dimensions & Weight | | |
| Unit Dimensions | | Indoor Unit Outdoor Unit |
| Height | 10-5/8" | 23-7/32" |
| Width | 31-11/16" | 28-1/2" |
| Depth | 6-31/32" | 11-15/32" |
| Package Dimensions | | Height 31-1/16" Width 25-1/32" Depth 13-5/16" |
| Height | 9-13/16" | 31-1/16" |
| Width | 33-21/32" | 25-1/32" |
| Depth | 14-29/32" | 14-29/32" |
| Weight | Net 17.6 lb. | 85.7 lb. |
| Shipping | 22.0 lb. | 90.8 lb. |
| Shipping Volume | 2.51 cu. ft. | 6.72 cu. ft. |
| BURNER | | |
| Burner Type | Ribbon Burner | |
| Burner Configuration | Slit Type | |
| GAS CONSUMPTION | | Natural Gas LPG |
| Typical Input | BTU/h | "15,500 High" "15,500 High" |
| Burner Type | | "10,400 Medium" "10,400 Medium" |
| Burner Configuration | | "6,150 Low" "6,150 Low" |
| GOVERNOR SETTING PRESSURE | | Natural Gas LPG |
| P2, P1 Inches Water Column | P2 P1 | P2 P1 |
| 3.43 High | 7.0 High | 3.54 High |
| 1.61 Medium | 7.0 Medium | 1.61 Medium |
| 0.63 Low | 7.0 Low | 0.63 Low |
| GAS NOZZLE | Natural Gas | LPG |
| Inner Diameter | 0.0807 | 0.063 |
| Q'ty | 1 | 1 |
| SAFETY DEVICES | Cooling | Heating |
| Re-start timer (3 minutes) | | |
| Compressor over load limiting | | |
| Circuit Fuse | | |
| Current Limit Function (Out of range between 0.8-17A) | | |
| Thermal Fuse | --- | |
| Auto reset temperature limiting 221°F | --- | |
| Flame rod | --- | |
| Approvals | | "CSA(NRTL/C), AGA CGA" |

Packaged Terminal Air Conditioner



STW-2 Series

Quieter & More Efficient Than Ever!

- Energy Efficient Operation with High EER (up to 11.6)
- Quiet 2 Fan Motors operation
- Industry Standard size (42' x 16')
- Attractive Appearance
- Easy to Operate Controls
- Solid State Control
- Fan Cycle Switch
- Discrete Electric Resistance Heater
- Freeze Protection
- 2-way Adjustable Discharge Louver
- Easy to Clean Up-front Filters
- 2 Stage Thermostat (H/P only)
- Heat Pump Operation as low as 25°F (H/P only)
- Indoor Coil Freeze Control
- Manual Ventilation Control up to 70 CFM
- Weather-Resistant Super Seal
- Front Desk Control Capability (Optional)
- Remote Control Capability (Optional)
- Temperature Limiter
- Load Shedding Control Capability
- Random Restart Circuit
- Automatic Emergency Heat (H/P only)
- Compressor Restart Function

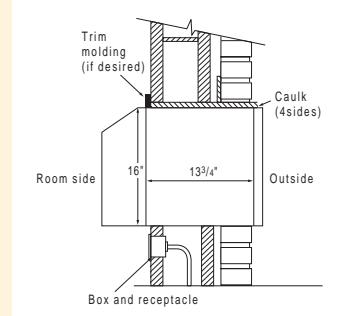


Direct Driven Cross-Flow Fan:

Aluminum Random Skew Fan was employed for the indoor fan. Air flap curvatures and their unique spacing system help to reduce noise while increasing the air volume compared to the conventional model.



Minimum Wall Sleeve Opening



Model Identification

STW 09 2 * C 2

| | | | | |
|-----------------------------|--------------|--|--|--|
| SANYO Packaged Terminal A/C | | | | |
| Nominal Cooling Capacity | | | | |
| 06: 7000BTU | 12: 12000BTU | | | |
| 09: 9000BTU | 15: 15000BTU | | | |
| Voltage | | | | |
| 2: 230/208V | | | | |
| 3: 265V | | | | |

Development Series #

Unit Type: C: Cooling Only w/E. Heater
H: Heat Pump w/E. Heater

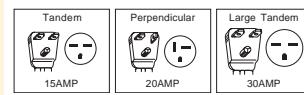
Heater Size (Refer to the table below)

Heater Specification Table

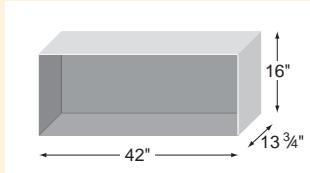
| Heater Designator | 265V Model | | | |
|-------------------|------------|-----------|----------|-------------|
| | Heater Amp | Watt | Min. Amp | BTU/h |
| 2 | 11.1/10.0 | 2550/2090 | 15 | 8600/7100 |
| 3 | 15.0/13.6 | 3450/2820 | 20 | 11700/9600 |
| 5 | 21.7/19.7 | 5000/4090 | 30 | 17000/13900 |

| Heater Designator | 265V Model | | | |
|-------------------|------------|------|----------|-------|
| | Heater Amp | Watt | Min. Amp | BTU/h |
| 3 | 11.3 | 3000 | 15 | 10200 |
| 4 | 15.1 | 4000 | 20 | 13600 |
| 5 | 18.9 | 5000 | 30 | 17000 |

Cord plug and wall outlet (230/208V)



Wall Case Dimensions



| Model Number | Cooling & Electric Heating Model | | | | | | | Heat Pump Model | | | | | | | | |
|--------------------------|----------------------------------|-----------|-----------|-----------|-------------|-----------|-------------|-----------------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-----------|
| | STW062_C2 | STW063_C2 | STW092_C2 | STW093_C2 | STW122_C2 | STW123_C2 | STW152_C2 | STW153_C2 | STW062_H2 | STW063_H2 | STW092_H2 | STW093_H2 | STW122_H2 | STW123_H2 | STW152_H2 | STW153_H2 |
| Voltage Rating | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 |
| Cooling Capacity BTU/h | 7100/7000 | 7100 | 9100/8900 | 9100 | 12000/11900 | 12000 | 14200/14000 | 14200 | 7100/7000 | 7100 | 9000/8800 | 9000 | 12000/11800 | 12000 | 14000/13800 | 14000 |
| Cooling EER BTU/hw | 11.6/11.6 | 11.6 | 11.4/11.4 | 11.4 | 10.9/10.9 | 10.9 | 9.5/9.6 | 9.5 | 11.6/11.6 | 11.6 | 11.4/11.4 | 11.4 | 10.9/10.9 | 10.9 | 9.4/9.4 | 9.4 |
| Cooling Power W | 610/600 | 610 | 800/780 | 800 | 1100/1090 | 1100 | 1490/1460 | 1490 | 610/600 | 610 | 790/770 | 790 | 1100/1080 | 1100 | 1490/1470 | 1490 |
| Amp F.L. A | 2.7/2.9 | 2.4 | 3.5/3.8 | 3.1 | 4.9/5.4 | 4.2 | 6.9/7.2 | 5.8 | 2.7/2.9 | 2.4 | 3.5/3.8 | 3.0 | 4.9/5.3 | 4.2 | 6.6/7.2 | 5.7 |
| Amp L.R. A | 17 | 13 | 22 | 15 | 29 | 24 | 41 | 31 | 17 | 13 | 22 | 15 | 29 | 24 | 41 | 31 |
| H/P Capacity BTU/h | --- | --- | --- | --- | --- | --- | --- | 6400/6200 | 6400 | 8100/8000 | 8100 | 10800/10600 | 10800 | 13300/13200 | 13300 | |
| H/P COP W/W | --- | --- | --- | --- | --- | --- | --- | 3.3/3.3 | 3.3 | 3.2/3.2 | 3.2 | 3.1/3.1 | 3.1 | 2.9/2.9 | 2.9 | |
| H/P Power Watts | --- | --- | --- | --- | --- | --- | --- | 570/550 | 570 | 740/730 | 740 | 1020/1000 | 1020 | 1350/1340 | 1350 | |
| H/P Amp A | --- | --- | --- | --- | --- | --- | --- | 2.5/2.7 | 2.2 | 3.3/3.6 | 2.9 | 4.5/4.9 | 3.9 | 6.0/6.6 | 5.2 | |
| Indoor CFM Hi | 315/285 | 315 | 315/285 | 315 | 410/370 | 410 | 410/370 | 410 | 315/285 | 315 | 315/285 | 315 | 410/370 | 410 | 410/370 | 410 |
| Indoor CFM Low | 275/235 | 275 | 275/235 | 275 | 355/320 | 355 | 355/320 | 355 | 275/235 | 275 | 275/235 | 275 | 355/320 | 355 | 355/320 | 355 |
| Moisture Removal Pints/h | 1.8 | 1.8 | 2.3 | 2.3 | 2.8 | 2.8 | 3.8 | 3.8 | 2.3 | 2.3 | 2.8 | 2.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| Sensible Heat Ratio | 0.71 | 0.71 | 0.71 | 0.71 | 0.69 | 0.69 | 0.65 | 0.65 | 0.81 | 0.81 | 0.8 | 0.8 | 0.69 | 0.69 | 0.65 | 0.65 |
| Vent CFM | 65 | 65 | 65 | 65 | 70 | 70 | 70 | 40 | 40 | 65 | 70 | 70 | 70 | 70 | 70 | |
| Weight Ship/Net (Lb) | 110/95 | 110/95 | 110/95 | 110/95 | 120/105 | 120/105 | 120/105 | 110/95 | 110/95 | 115/100 | 115/100 | 125/110 | 125/110 | 125/110 | 125/110 | |

Because its products are subject to continuous improvements, SANYO reserves the right to modify product design and specifications without notice and without incurring any obligations.

26" Through The Wall



Cooling Only Model



Cooling + Heating Model



Heat Pumps Model



STB Series



- Attractive Appearance
- 8 Different models which include a variety of cooling, Cool/Heat and Heat Pump
- Industry Standard Wall Sleeve (Not included) 26"(W) X 15-5/8"(H) X 16-7/8"
- Solid State Control (H/P)
- Up Front Slide Out Washable Air Filter
- Two Fan speeds and Fan Only Setting

- Slide out Chassis
- Efficient Rotary Compressor
- 2 Stage Thermostat (H/P)
- 4 Way Adjustable Air Discharge
- Hidden Vent Control
- Fan Cycle Switch
- Indoor Coil Freeze Control (H/P)
- Compressor Random Restart Function (H/P)

Model Identification

STB 09 2 3 C 1

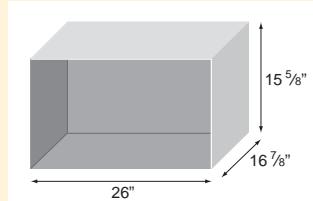
| | |
|--------------------------|--------------|
| Sanyo 26" Thru the wall | _____ |
| Nominal Cooling Capacity | _____ |
| 08: 8000BTU | 11: 11000BTU |
| 10: 10000BTU | 12: 12000BTU |
| Voltage | _____ |
| 1: 115V | 2: 230/208V |

| | |
|----------------------------------|--------------|
| Development Flag | _____ |
| Type | _____ |
| C: Cooling | H: Heat Pump |
| Electric Heater size (See below) | _____ |
| 0: No Electric Heater | _____ |
| 1: 1.2kw | 3: 3.4kw |

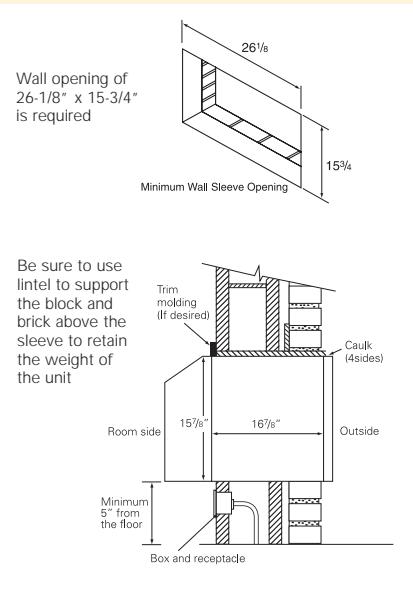
Wall Receptacles



Wall Sleeve Dimension



Dimension of Wall Opening



| Model Number | Cooling & Electric Heating Model | | | Heat Pump Model | | Cooling Only Model | | |
|--|----------------------------------|----------|------------|-----------------|------------|--------------------|----------|-----------|
| | STB081C1 | STB102C1 | STB112C1 | STB082H1 | STB081C1 | STB101C1 | STB102C1 | STB122C1 |
| Voltage | V | 115 | 230/208 | 230/208 | 115 | 115 | 230/208 | 230/208 |
| Cooling Capacity | BTU/h | 8000 | 9500/9300 | 11300/10000 | 8000/7800 | 8200 | 10200 | 9700/9500 |
| Cooling EER | BTU/hw | 8.7 | 8.5/8.5 | 8.5/8.5 | 8.5/8.5 | 8.7 | 8.5 | 8.5/8.5 |
| Cooling Watts | W | 920 | 1120/1090 | 1330/1310 | 940/920 | 940 | 1200 | 1140/1110 |
| Cooling Amps | A | 8.3 | 5.0/5.3 | 6.0/6.5 | 4.2/4.5 | 8.3 | 10.6 | 5.0/5.3 |
| Plug Type | Parallel | Perp. | Perp. | Perp. | Perp. | Parallel | Parallel | Tandem |
| Recommended Circuit Protection | Time Delay (A) | 15 | 20 | 20 | 20 | 15 | 15 | 15 |
| H/P CAPACITY | BTU/h | --- | --- | 7500/7400 | --- | --- | --- | --- |
| H/P COP | W/W | --- | --- | 2.5/2.5 | --- | --- | --- | --- |
| H/P Watts | W | --- | --- | 880/870 | --- | --- | --- | --- |
| H/P Amperes | A | --- | --- | 4.0/4.3 | --- | --- | --- | --- |
| Electric Heating Capacity | BTU/h | 4040 | 11250/9200 | 11250/9200 | 11250/9200 | --- | --- | --- |
| Electric Heating Watts | kW | 1350 | 3550/2930 | 3550/2930 | 3550/2980 | --- | --- | --- |
| Electric Heating Amperes | A | 12.0 | 15.5/14.2 | 15.5/14.2 | 15.5/14.2 | --- | --- | --- |
| Moisture Removal | Pints/h | 2.0 | 2.6 | 3.2 | 2.0 | 2.0 | 2.7 | 2.6 |
| Indoor CFM | Hi/Lo | 250/220 | 250/220 | 250/220 | 250/220 | 270/240 | 270/240 | 270/240 |
| Weight | Ship/Net (Lb.) | 93/82 | 100/89 | 106/95 | 101/90 | 93/82 | 101/90 | 100/89 |
| Specifications subject to change without notice. | | | | | | | | |

Portable Air Conditioners



- 3 Fan Speed with Horizontal auto-swing-louvers.
- Built-in water tank with over flow alarm (Continuous Drain Fitting also equipped)
- Programmable 18-hour On/Off timer
- Hot Air Exhaust Duct included
- Multi-Function(Cooling, Fan & Dehumidifier)

P0811

| Portable Air Conditioners | |
|----------------------------------|--------------------------------|
| Model No. | P0811 |
| Performance & Electrical Ratings | |
| Cooling Capacity | 7200 BTU/h @ 86°F/70% Humidity |
| Dehumidification (per day) | 37.5 Liters (1267 oz.) |
| Fan Control | Low-Med-High |
| Electrical | 115 V, 60 Hz, 6.2 A |
| Power Consumption | 692 W |
| Refrigerant | HFC R22 |
| Features | |
| Controls | Microcomputer |
| Thermostat Control | 61°F-86°F |
| Filter | Washable |
| Operation Sound | 51.5 dB-A |
| Timer | On/Off/18-hour |
| Extension Flexible Duct | 6 Ft |
| Dimensions | |
| Height | 31" |
| Width | 12-7/8" |
| Depth | 16-3/8" |
| Net Weight | 74 lbs. |
| Accessory | |
| PWK60AL | Window Exhaust Kit |

"Eco Multi" Air Conditioners

Suitable air-conditioning for numerous commercial applications including office and industrial.

"ECO MULTI SYSTEM," the new individual air-conditioning system that effectively combines a power control compressor and an electronic refrigerant control valve.

With the ECO MULTI it is possible to connect indoor units with a capacity of up to 135%* of the outdoor unit maximum capacity. Assuming that the minimum capacity of an indoor unit is 12,000 BTU/h, it is possible to connect eight units to one outdoor unit.

* The actual total capacity of the indoor unit's can not exceed the outdoor unit maximum capacity.

Max. 8 units

For more detail information refer to "ECO MULTI" CATALOG.

CHY7243

Outdoor Unit

Capacity

Cooling Max. 72,000 BTU/h

Heating Max. 80,000 BTU/h



System Option & Accessories



Wired Remote

RCS-102WD
RCS-302WD



Wired Remote

RCS-KS2432AWD

Fresh Air Intake Plenum

CMB-GSJ80T
CMB-GSJ80U
CMB-GSJ140T
CMB-GSJ140U



Condensate Drain Pump
SI2750-1
SI2750-2
EE1750-2



Wireless Remote
RCS-BH80UA-WL

Locking Bracket for
Remote Control

01RCSKHSB
RCS5PS4B

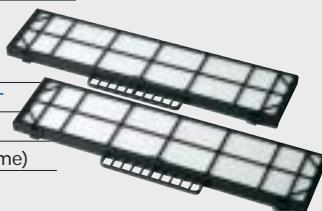


Refrigerant Line Set

| | |
|----------|----------|
| AP0905BH | AP2507BH |
| AP0907BH | AP2510BH |
| AP0910BH | AP2515BH |
| AP1205BH | AP2710BH |
| AP1207BH | AP2715BH |
| AP1210BH | AP3210BH |
| | AP3215BH |

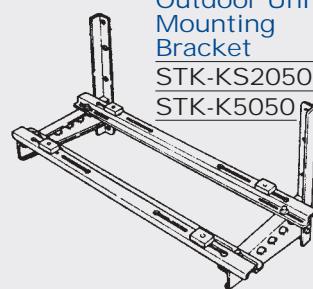
Air Clean Filter

STK-ARF4B
STK-F4B (w/o frame)



Outdoor Unit
Mounting
Bracket

STK-KS2050
STK-K5050



System Option & Accessories



Wired Remote
RCS-SH80UG



Weekly Timer
TM-SH80UG



System Controller
SHA-KC64UG

| H.V.A.C. Accessories | | |
|------------------------|---|--|
| MODEL NO. | DESCRIPTION | USE WITH |
| AP0905BH | Insulated Tubing Kit 1/4" and 3/8" x 15' | 09KS51, 09KLS51, 09KHS51, 09KHS22, 14KGS11, (2) 18KMS12, (2) 18KMH22, (2) 32KMS12 |
| AP0907BH | Insulated Tubing Kit 1/4" and 3/8" x 20' | |
| AP0910BH | Insulated Tubing Kit 1/4" and 3/8" x 33' | |
| AP1205BH | Insulated Tubing Kit 1/4" and 1/2" x 15' | 12KS51, 12KLS51, 12KHS51, 12KHS32, 12RS11, 12RLS11, (2) 24KMS12, (1) 32KMS12 |
| AP1207BH | Insulated Tubing Kit 1/4" and 1/2" x 20' | |
| AP1210BH | Insulated Tubing Kit 1/4" and 1/2" x 33' | |
| AP2507BH | Insulated Tubing Kit 1/4" and 5/8" x 20' | 18KS52, 18KLS52, 18XHS52, 18XLS52, 18KHS52, 18KHS22 |
| AP2510BH | Insulated Tubing Kit 1/4" and 5/8" x 30' | |
| AP2515BH | Insulated Tubing Kit 1/4" and 5/8" x 50' | |
| AP2710BH | Insulated Tubing Kit 1/4" and 3/4" x 30' | 24XS32A, 24XLS32A, 24KHS32, 24TS32A, 24TLS32A, 24KH42, 24TH42, 24XH42, 24UH42 |
| AP2715BH | Insulated Tubing Kit 1/4" and 3/4" x 50' | |
| AP3210BH | Insulated Tubing Kit 3/8" and 3/4" x 30' | |
| AP3215BH | Insulated Tubing Kit 3/8" and 3/4" x 50' | 24KS32A, 24KLS32A, 24KS62R, 24KLS62R 30KS32A, 30KLS32A, 36KS32A, 36KLS32A, 36TS32A, 36TLS32A, 36XS32A, 36XLS32A 36XHS32, 36THS32, 36KH42, 36TH42, 36XH42, 36UH42 42XS32A, 42XLS32A, 42TS32A, 42TLS32A, 42TH42, 42XH42 |
| 01RCSKHSB | Locking Bracket for | "2" Series & 12KHS32 |
| RCS5PS4B | | "32" Series (Exclude 12KHS32), "51" Series, "52" Series, 24KS62R, 24KLS62R |
| SAC-7 | Display stand | 09KS51, 09KLS51, 09KHS51, 09KHS22, 12KS51, 12KLS51, 12KHS51, 12KHS32, 14KGS11 |
| STK-KS2050 | Mounting Bracket for Outdoor Unit | 09KS51, 09KLS51, 09KHS51, 09KHS22, 12KS51, 12KLS51 12KHS51, 12KHS32, 12RS11, 12RLS11 |
| STK-K5050 | Mounting Bracket for Outdoor Unit | 18KS52, 18KLS52, 18KHS52, 18XHS52, 18XLS52 18KMS12, 18KMH22, 24KS32A, 24KLS32A, 24TS32A, 24TLS32A 24KMS12, 24XS32A, 24XLS32A, 24KHS32, 24THS32 |
| SI2750-1 (or SI3100-1) | Condensate Pump | All 115 volt Models |
| SI2750-2 (or SI3100-2) | Condensate Pump | All 230 volt Models (Recommended: up to 2t) |
| EE1750-2 (or SI1730-2) | Condensate Pump | All 230 volt Models (High Vol. Condensate Removal) (Recommended: 2t or more) |
| RCS-102WD (10') | Wired Remote Controller | 24TS32A, 24TLS32A, 24XS32A, 24XLS32A, 30KS32A, 30KLS32A, 36KS32A, 36KLS32A, 18XHS52, 18XLS52 |
| RCS-302WD (30') | | 36XS32A, 36XLS32A, 36TS32A, 36TLS32A, 42XS32A, 42TS32A, 42TLS32A |
| RCS-KS2432AWD | Wired Remote Controller | 24KS32A, 24KLS32A, 24KS62R, 24KLS62R |
| RCS-SH80UG | Wired Remote Controller | 24UH42, 24KH42, 24XH42, 24TH42, 36UH42, 36KH42, 36XH42, 36TH42, 42XH42, 42TH42 |
| RCS-SH80UA-WL | Wireless Remote Controller | 24XH42, 24TH42, 36XH42, 36TH42, 42XH42, 42TH42 |
| RCS-BH80UA-WL | Wireless Remote Controller | 24UH42, 24KH42, 24XH42, 24TH42, 36UH42, 36KH42, 36XH42, 36TH42, 42XH42, 42TH42 |
| SHA-KC64UG | System controller | 24UH42, 24KH42, 24XH42, 24TH42, 36UH42, 36KH42, 36XH42, 36TH42, 42XH42, 42TH42 |
| TM-SH80UG | Weekly timer | 24UH42, 24KH42, 24XH42, 24TH42, 36UH42, 36KH42, 36XH42, 36TH42, 42XH42, 42TH42 |
| CMB-GSJ80T | Fresh Air Intake Plenum | 18XHS52, 18XLS52, 24XS32A, 24XLS32A, 24XHS32 |
| CMB-GSJ140T | Fresh Air Intake Plenum | 36XS32A, 36XLS32A, 36XHS32, 42XS32A, 42XLS32A |
| CMB-GSJ80U | Fresh Air Intake Plenum | 24XH42 |
| CMB-GSJ140U | Fresh Air Intake Plenum | 36XH42, 42XH42 |
| STK-ARF4B | Air Clean Filter (2)Filter pads and (2) frames | 09KS51, 09KLS51, 09KHS51, 12KS51, 12KLS51, 12KHS51, 14KGS11 (Replacement Filter pads: STK-F4B) |
| STK-F4B | Air Clean Filter (4)Filter pads only | 18KS52, 18KLS52, 18KHS52, 24KS32A, 24KLS32A, 24KS62R, 24KLS62R |
| PWK 60AL | Window Panel Kit | P0811 |

| STW / STB Accessories | | |
|-----------------------|--|--|
| Model No. | DESCRIPTION | USE WITH |
| SC2001 | 24VAC Wired Remote Thermostat | STW_____C2 (Cooling w/strip heat model), Requires STK02LVC |
| SC2201 | 24VAC Wired Remote Thermostat | STW_____H2 (Heat Pump w/strip heat model), Requires STK02LVC |
| STK-B01RG | Rear Grille | STB Series |
| STK-B01WC | Wall Case | STB Series |
| STK01AF | Air Filter for Replacement | STW 2Series |
| STK01DK | Internal/External Drain Kit | STW 2Series |
| STK01FG | Front Grille for Replacement | STW 2Series |
| STK01RG | Stamped Aluminum Rear Grille | STW 2Series |
| STK01SB | Sub Base - Non Electric | STW 2Series |
| STK01WC1 | Insulated Wall Sleeve | STW 2Series |
| STK01WCEx | 2-1/4" Wall Sleeve Extension | STW 2Series |
| STK02LVC | Remote Thermostat & Front Desk Control Interface Board | STW 2Series (Use with SC2001 or SC2201) |
| STK02RG | Architectural Rear Grille | STW 2Series |
| STK02JB | Junction Box Kit | STW 2Series |

Tubing, Sizes, Length & Elevation Difference, Refrigerant Charge Adjustment & Insulation Chart

| SYSTEM MODEL# | OD TUBE SIZE (Inches) | | MAXIMUM LENGTH (FT) OF TUBING BETWEEN IN/OUTDOOR | MAXIMUM ELEVATION DIFFERENCE (FT) BETWEEN IN/OUTDOOR | | MAXIMUM LENGTH (FT) OF TUBING AT SHIPMENT* | REQUIRED ADDITIONAL REFRIGERANT OZ/FT | (see**) | | | | | | |
|--------------------------------|-----------------------|----------|--|--|---------------|--|---------------------------------------|------------|--|--|--|--|--|--|
| | NARROW | WIDE | | OUTDOOR ABOVE | OUTDOOR BELOW | | | | | | | | | |
| 09KS51, 09KLS51 | 1/4" | 3/8" | 50' | 25' | 33' | 25' | R22 0.16 | Both Tubes | | | | | | |
| 09KHS51 | | | | | | | | | | | | | | |
| 09KHS22 | | | | | | | | | | | | | | |
| 12KS51, 12KLS51 | | | | | | | | | | | | | | |
| 12KHS51 | | | | | | | | | | | | | | |
| 12KHS32 | | 1/2" | 65' | 23' | 23' | 33' | R22 0.27 | | | | | | | |
| 12RS11, 12RLS11 | | | | | | | | | | | | | | |
| 14KGS11 | | | 49' | | | | | | | | | | | |
| 18KS52, 18KLS52 | | | | | | | | | | | | | | |
| 18KHS52 | | | 5/8" | 65' | 25' | 33' | | | | | | | | |
| 18KHS22 | | | | | | | | | | | | | | |
| 18XKS52, 18XLS52 | | | | | | | | | | | | | | |
| 24KS32A, 24KLS32A | 3/8" | 1/4" | 50' | 50' | 25' | 100' | R22 0.48 | Both Tubes | | | | | | |
| 24TS32A | | | | | | | | | | | | | | |
| 24TLS32A | | | | | | | | | | | | | | |
| 24KS32A | | | | | | | | | | | | | | |
| 24XLS32A | | | | | | | | | | | | | | |
| 24KHS32 | | 3/4" | 132' | 132' | 83' | 50' | R22 0.86 | | | | | | | |
| 24THS32 | | | | | | | | | | | | | | |
| 24KH42 | | | | | | | | | | | | | | |
| 24TH42 | | | | | | | | | | | | | | |
| 24XH42 | | | | | | | | | | | | | | |
| 24UH42 | | | | | | | | | | | | | | |
| 30KS32A | 3/8" | 1/4" | 165' | 165' | 100' | 100' | R22 0.53 | Both Tubes | | | | | | |
| 30KLS32A | | | | | | | | | | | | | | |
| 36KS32A | | | | | | | | | | | | | | |
| 36KLS32A | | | | | | | | | | | | | | |
| 36TS32A | | | | | | | | | | | | | | |
| 36TLS32A | | 3/8" | 165' | 165' | 100' | | | | | | | | | |
| 36XS32A | | | | | | | | | | | | | | |
| 36XLS32A | | | | | | | | | | | | | | |
| 36XHS32 | | | | | | | | | | | | | | |
| 36THS32 | | | | | | | | | | | | | | |
| 36KH42 | 1/4" x 2 | 3/8" x 2 | 50' | 23' | 23' | 33' | R22 0.16 | Both Tubes | | | | | | |
| 36TH42 | | | | | | | | | | | | | | |
| 36XH42 | | | | | | | | | | | | | | |
| 36UH42 | | | | | | | | | | | | | | |
| 42TS32A | | | | | | | | | | | | | | |
| 42TLS32A | | | | | | | | | | | | | | |
| 42KS32A | | | | | | | | | | | | | | |
| 42XLS32A | | | | | | | | | | | | | | |
| 42TH42 | | | | | | | | | | | | | | |
| 42KH42 | | | | | | | | | | | | | | |
| 18KMS12 | 1/4" x 2 | 1/2" x 2 | 65' | 23' | 23' | 33' | R22 0.27 | Both Tubes | | | | | | |
| 18KMH22 | | | | | | | | | | | | | | |
| 24KMS12 | | 1/4" x 2 | 3/8" x 2 | 50' | | | R22 0.16 | | | | | | | |
| 32KMS12 (KMS0712) (KMS1812) | | | | | | | | | | | | | | |
| 24KS62R, 24KLS62R | 3/8" | 1/4" | 1/2" | 65' | 50' | 50' | R22 0.27 | R410A 0.43 | | | | | | |

*condenser is shipped with enough REFRIGERANT to operate the SYSTEM to this length. Additional refrigerant is required if this length is exceeded. See next Column.

** Line sets for systems 1.5 ton & less come with both lines insulated. Line sets for 2 ton & above come with the wide tube insulated only. For Low Ambient & Heat Pump applications, the narrow tube must be insulated (installer provided) in the field at time of installation. (excluding 24KS32A)

THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE READ INSTALLATION MANUAL FOR PROPER PROCEDURES.

Operation Range

Cooling Unit

| | Temperature | Indoor Air Intake Temp. | Outdoor Air Intake Temp. |
|---------|-------------|-------------------------|--------------------------|
| Cooling | Maximum | 95°F DB/71°F WB | 115°F DB |
| | Minimum | 67°F DB/57°F WB | 67°F DB |

Heat Pump Unit

| | Temperature | Indoor Air Intake Temp. | Outdoor Air Intake Temp. |
|---------|-------------|-------------------------|--------------------------|
| Cooling | Maximum | 95°F DB/71°F WB | 115°F DB |
| | Minimum | 67°F DB/57°F WB | 67°F DB |
| Heating | Maximum | 80°F DB/67°F WB | 75°F DB/65°F WB |
| | Minimum | -°F DB/-°F WB | 17°F DB/15°F WB |

Low Ambient Model

| | Temperature | Indoor Air Intake Temp. | Outdoor Air Intake Temp. |
|---------|-------------|-------------------------|--------------------------|
| Cooling | Maximum | 95°F DB/71°F WB | 115°F DB |
| | Minimum | 67°F DB/57°F WB | 0°F DB |

Gas Heater Air Conditioner

| | Temperature | Indoor Air Intake Temp. | Outdoor Air Intake Temp. |
|---------|-------------|-------------------------|--------------------------|
| Cooling | Maximum | 95°F DB/71°F WB | 115°F DB |
| | Minimum | 67°F DB/57°F WB | 67°F DB |
| Heating | Maximum | 80°F DB/67°F WB | 75°F DB/65°F WB |
| | Minimum | -°F DB/-°F WB | 0°F DB/-2°F WB |

Because its products are subject to continuous improvements, Sanyo reserves the right to modify product design and specifications without notice and without incurring any obligations.

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"32" Series Heat Pump Unit (Excluding 12KHS32)

| | Temperature | Indoor Air Intake Temp. | Outdoor Air Intake Temp. |
|---------|-------------|-------------------------|--------------------------|
| Cooling | Maximum | 95°F DB/71°F WB | 115°F DB |
| | Minimum | 67°F DB/57°F WB | 23°F DB |
| Heating | Maximum | 80°F DB/67°F WB | 75°F DB/65°F WB |
| | Minimum | -°F DB/-°F WB | 17°F DB/15°F WB |



SANYO

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