





















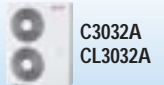
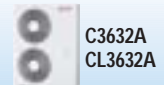
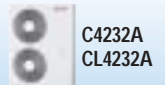














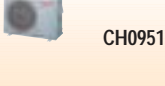
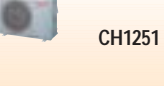


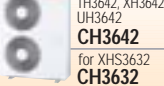
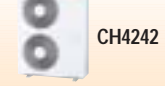









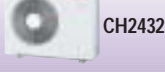
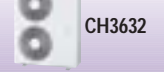
## Air Conditioning & Heat Pump Products



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	 KS0951	 KS1251	 KS1852	 KS2432A	 KS3032	 KS3632	
	Ceiling Suspended				 TS2432		 TS3632	 TS4232
	Ceiling Recessed		 RS1211	 XS1852	 XS2432		 XS3632	 XS4232
	Outdoor	 C0951 CL0951	 C1251 CL1251 <small>for RS1211 C1211 CL1211</small>	 C1852 CL1852	 C2432A CL2432A	 C3032A CL3032A	 C3632A CL3632A	 C4232A CL4232A
MODEL (System)		09KHS51	12KHS51	18KHS52	24KH42 24TH42 24XH42 24UH42	4 SERIES HEAT PUMPS		42TH42 42XH42
HEAT PUMP WITHOUT HEATER	Wall Mounted	 KHS0951	 KHS1251	 KHS1852	 KH2442		 KH3642	
	Ceiling Suspended				 TH2442		 TH3642	 TH4242
	Ceiling Recessed				 XH2442		 XH3642	 XH4242
	Concealed Duct				 UH2442		 UH3642	
	Ceiling Recessed						 XHS3632	
	Outdoor	 CH0951	 CH1251	 CH1852	 CH2442		 CH3642 CH3632 <small>for KH3642, TH3642, XH3642, UH3642</small>	 CH4242
MODEL (System)		09KHS22	12KHS32	18KHS22	24KHS32 24THS32		36THS32	
HEAT PUMP WITH HEATER	Wall Mounted	 KHS0922	 KHS1232	 KHS1822	 KHS2432			
	Ceiling Suspended				 THS2432		 THS3632	
	Outdoor	 CH0922	 CH1232	 CH1822	 CH2432		 CH3632	

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

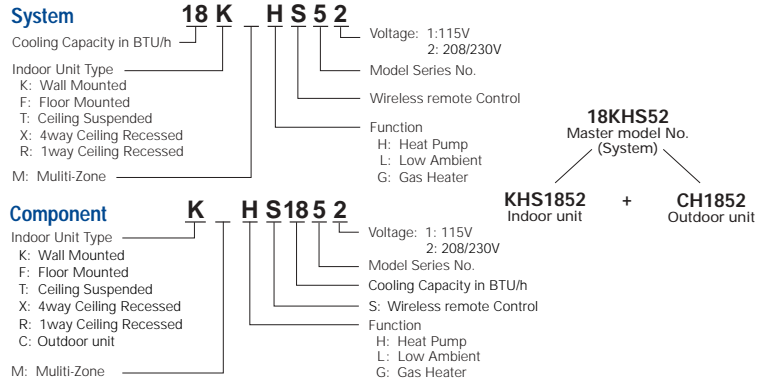
High Efficiency  
**SEER 13.0**  
(Complying with 2006 DOE Regulation)

24KS62R/24KLS62R C2462R / CL2462R




KS2462R

### Model Identification

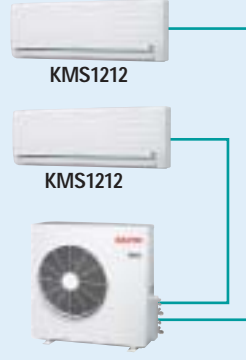


### DUAL ZONE 18KMS12



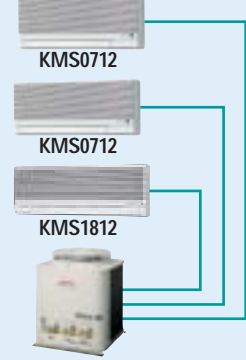
KMS0912  
KMS0912  
CM1812

### DUAL ZONE 24KMS12



KMS1212  
KMS1212  
CM2412

### TRI ZONE 32KMS12




KMS0712  
KMS0712  
KMS1812  
CM3212

### DUAL ZONE 18KMH22




KMH0922  
KMH0922  
CMH1822

## STW-2 Series



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

## 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		

### 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

### Model Identification

STW 09 2 \* C 2

SANYO Packaged Terminal A/C

Nominal Cooling Capacity  
06: 7000BTU 12: 12000BTU  
09: 9000BTU 15: 15000BTU

Development Series #

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

Heater Size (Refer to the table below)

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	2550/2000	15	8000/7100
3	15.0/13.0	3450/2820	20	11700/9600
5	21.7/19.7	5000/4000	30	17000/13000
205 V Model				
Heater Designator	Heater Amp	Watt	Min.Amp	BTU/h
3	11.3	3000	15	10200
4	15.1	4000	20	13000
5	16.0	5000	30	17000

### Portable



P0811

### Gas Heater Air Conditioner

14KGS11



KGS1411  
CG1411

# MODEL FEATURE CHART OP: Option

		AIR CONDITIONERS								LOW-AMBIENT AIR CONDITIONERS							
		09KS51 12KS51 18KS52	24KS32A	24KS62R	30KS32A 36KS32A					09KLS51 12KLS51 18KLS52	24KLS32A	24KLS62R	30KLS32A 36KLS32A				
	Wall Mounted																
	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	-	-	-	-	-	●	-	-	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	●	●	-	●	●	●	●	●	●	●	-	●	●	●	●	●
	ODP=0 Refrigerant	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-	-

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

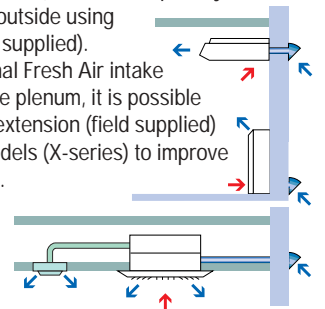
## SANYO: Your Best Choice in Ductless Split Air Conditioning Systems

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))

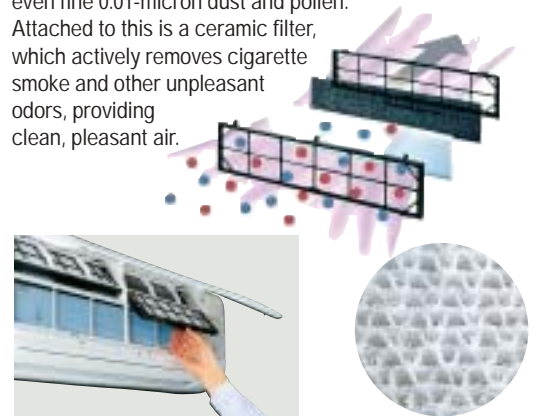
Ceiling Recessed models (X-series), Ceiling Suspended models (T-series) have the capability of bringing fresh air from outside using an air intake duct (field supplied). (X-series require optional Fresh Air intake plenum) Using Air intake plenum, it is possible to connect an air duct extension (field 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.



# 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 an 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.



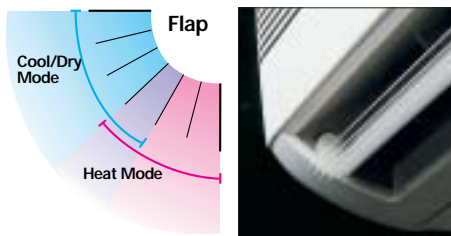
## 3 Fan speeds and Automatic Fan Operation

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.



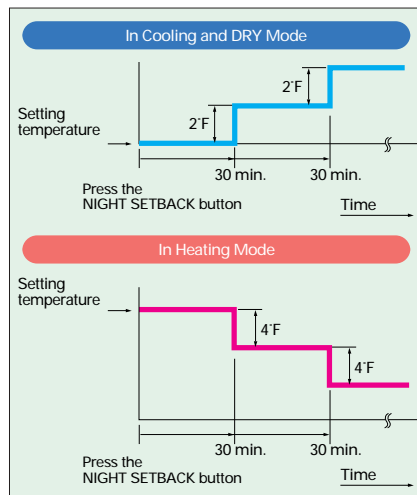
## Automatic Heating and Cooling Changeover

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.



## Automatic Restart Function after Power Failure

This feature allows the system to automatically resume operation at its preset program, after power is restored from a power failure.



## Hot Start Heating System

Right from the start, air is warm and comfortable. The Hot Start Heating System prevents any cold blasts at the beginning while the heat pump is warming up. (Heat pump unit only)



## 24-hour Clock with ON/OFF Program Timer

The remote control unit allows you to set a wide variety of timer-based operations. Such functions include automatic ON/OFF with a timer setting, same time ON/OFF every day, ON timer, OFF timer and Combination timer.



## 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.



## 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<sup>1</sup> from the bottom of the unit. (condensate pump is only for allowing drain line to meet minimum gravity flow requirements.)

<sup>1</sup>: 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



(RCS-SH80UG)



## 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)

# 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



**X-series** (Ceiling Recessed Type)

**T-series** (Ceiling Suspended Type)

#### 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.



RCS-SH80UA-WL

#### For All Indoor Units

**U-series** **K-series** **X-series** **T-series**

#### EXTERNAL TYPE

- Separate type signal receiving unit.



RCS-BH80UA-WL

## Remote controllers functions

		Remote Controller (RCS-SH80UG)	System Controller (SHA-KC64UG)	
Function	ON/OFF	●	● (Collective/Individual)	
	Operation mode switch	Heating	●	● (Individual)
		Dry	●	● (Individual)
		Cooling	●	● (Individual)
		Fan	●	● (Individual)
	Temp setting	●	● (Individual)	
	Fan speed setting (Hi/Mid./Lo/Auto)	●	● (Individual)	
	Auto flap	Auto airflow direction setting	●	●*
		Arbitrary airflow direction setting	●	●*
	Sweep (Flap swing)	●	●*	
	72 hr. ON/OFF timer	●	×	
	Sensor temp. display	●	×	
Self-diagnostic function	●	●		
System	Central control (at hand inhibited)	×	●	
	Group control	● (Up to 8 units)	● (Up to 16 groups)	
	Concurrent use with weekly timer	●	●	
Setting Range	Cooling, dry (°F)		65 – 86	
	Heating (°F)		61 – 79	

●: 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



**09KS51/09KLS51**  
**12KS51/12KLS51**

**Indoor Unit**  
KS0951  
KS1251



**Outdoor Unit**  
C0951/CL0951  
C1251/CL1251



**18KS52**  
**18KLS52**

**Indoor Unit**  
KS1852



**Outdoor Unit**  
C1852/CL1852



WASHABLE FRONT GRILLE



**LOW AMBIENT**  
Only for 09KLS51,  
12KLS51, 18KLS52

## Wall Mounted Air Conditioners

Model No.	09KS51 / 09KLS51		12KS51 / 12KLS51		18KS52 / 18KLS52	
	Indoor Unit KS0951	Outdoor Unit C0951/CL0951	Indoor Unit KS1251	Outdoor Unit C1251/CL1251	Indoor Unit KS1852	Outdoor Unit C1852/CL1852
<b>Performance &amp; Electrical Ratings</b>						
Capacity	Cooling	Btu/h	9,000		11,800	
	Heating	Btu/h	---		---	
Moisture Removal	High	Pints/H	2.0		3.0	
Dry Air Flow	Hi/Med/Low	CFM	270/240/220		330/290/260	
SEER	Cooling		10.0		10.2	
EER	Cooling		10.0		9.8	
HSPF	Heating		---		---	
COP	Heating		---		---	
Power Supply	V, Phase, Hz		115, 1, 60		115, 1, 60	
Running Amps	Cooling	A	8.8		10.9	
	Heating	A	---		---	
Power Input	Cooling	W	900		1200	
	Heating	W	---		---	
Back-up Heater		kW	---		---	
Maximum Fuse Size Amps		A	15		20	
<b>Features</b>						
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	
	Vertical		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/Me/Lo)	dB-A	38/34/32		41/38/36	
	Outdoor(Hi)	dB-A	48		52	
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		Max. 65Ft	
Elevation Difference	Outdoor Above	Ft.	Max. 23Ft		Max. 23Ft	
	Outdoor Below	Ft.	Max. 23Ft		Max. 23Ft	
<b>Dimensions &amp; Weight</b>						
Height		inches	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
			10-5/8"	21-1/4"	10-5/8"	21-1/4"
Width		inches	31-11/16"	31-1/2"	31-11/16"	31-1/2"
Depth		inches	6-31/32"	11-13/32"	6-31/32"	11-13/32"
Net Weight		Lbs.	17.6	66.1	17.6	75.0
<b>Approvals</b>			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.)





24KS32A/24KLS32A

Indoor Unit  
KS2432A



Outdoor Unit  
C2432A/CL2432A

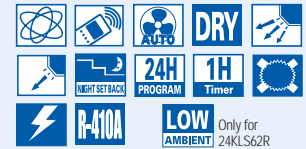


24KS62R/24KLS62R

Indoor Unit  
KS2462R



Outdoor Unit  
C2462R/CL2462R



30KS32A/30KLS32A

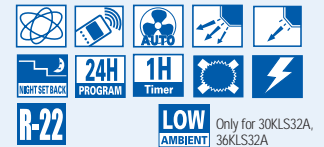
Indoor Unit  
KS3032

36KS32A/36KLS32A

KS3632



Outdoor Unit  
C3032A/CL3032A  
C3632A/CL3632A



Wall Mounted Air Conditioners									
Model No.	24KS32A / 24KLS32A		24KS62R / 24KLS62R		30KS32A / 30KLS32A		36KS32A / 36KLS32A		
Unit Model No.	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
	KS2432A	C2432A/CL2432A	KS2462R	C2462R/CL2462R	KS3032	C3032A/CL3032A	KS3632	C3632A/CL3632A	
<b>Performance &amp; Electrical Ratings</b>									
Capacity	Cooling	Btu/h	22,800/22,400	27,000/26,000	30,000/29,000	34,000/33,000			
	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			
<b>Features</b>									
Controls	Microcomputer		Microcomputer		Microcomputer		Microcomputer		
Low Ambient Control	24KLS32A Equip.		24KLS62R Equip.		30KLS32A Equip.		36KLS32A Equip.		
Wireless Remote Controller	Equip		Equip		Equip		Equip		
Wired Remote Controller	Optional (RCS-KS2432AWD)		Optional (RCS-KS2432AWD)		Optional (RCS-102WD, RCS-302WD)		Optional (RCS-102WD, RCS-302WD)		
Fan Speeds	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		
Air Deflection	Horizontal	Manual	Manual	Manual	Manual	Manual	Manual	Manual	
	Vertical	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	
Air Filter	Washable		Washable		Washable		Washable		
Refrigerant	R-22		R-410A		R-22		R-22		
Refrigerant control	Capillary Tube		Capillary Tube		Capillary Tube		Capillary Tube		
Operation Sound	In(Hi/Me/Lo)	dB-A	47/42/38	48/42/38	46/42/38	48/44/40			
	Outdoor(Hi)	dB-A	53	55	56	56			
Refrigerant Piping	Type	Flare Type	Flare Type	Flare Type	Flare Type	Flare Type	Flare Type	Flare Type	
	Discharge	3/8" Discharge	3/8" Discharge	3/8" Discharge	3/8" Discharge	3/8" Discharge	3/8" Discharge	3/8" Discharge	
	Suction	3/4" Suction	3/4" Suction	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			
	Outdoor Below	Ft.	Max. 50Ft	Max. 50Ft	Max. 100Ft	Max. 100Ft			
<b>Dimensions &amp; Weight</b>									
Height	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
	13"	28-15/16"	13"	36-5/8"	14-9/16"	48-5/8"	14-9/16"	48-5/8"	
Width	44-7/8"	37"	44-7/8"	37"	59-1/16"	37"	59-1/16"	37"	
Depth	8-31/32"	13-3/8"	8-31/32"	13-3/8"	9-7/16"	13-3/8"	9-7/16"	13-3/8"	
Net Weight	40.0	150.0	40.0	150.0	64.0	198.0	68.0	198.0	
<b>Approvals</b>									
	CSA, ARI, MEA				CSA, 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



**Indoor Unit**  
KHS0951  
KHS1251



**Outdoor Unit**  
CH0951  
CH1251

**09KHS51**  
**12KHS51**



WASHABLE FRONT GRILLE



**Indoor Unit**  
KHS1852

**Outdoor Unit**  
CH1852



**18KHS52**



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 KHS0951	Outdoor Unit CH0951	Indoor Unit KHS1251	Outdoor Unit CH1251	Indoor Unit KHS1852	Outdoor Unit CH1852	Indoor Unit KH2442	Outdoor Unit CH2442	Indoor Unit KH3642	Outdoor Unit CH3642		
<b>Performance &amp; Electrical Ratings</b>												
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			
<b>Features</b>												
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 1hr Off		On/Off/24hr Program 1hr Off		On/Off/24hr Program 1hr Off		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		Manual		Manual		Manual		Manual			
	Vertical		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/Me/Lo)	dB-A	38/34/32	41/38/34	41/38/36		45/42/40		48/44/40			
	Outdoor(Hi)	dB-A	48	52	52		53		56			
Refrigerant Piping	Type		Flare Type		Flare Type		Flare Type		Flare Type			
	Discharge	inches	1/4" Discharge		1/4" Discharge		1/4" Discharge		3/8" Discharge			
	Suction	inches	3/8" Suction		1/2" Suction		3/4" Suction		3/4" Suction			
Refrigerant Pipe Length**	Ft.		Max. 50Ft		Max. 65Ft		Max. 65Ft		Max. 165Ft			
Elevation Difference	Outdoor Above	Ft.	Max. 23Ft		Max. 23Ft		Max. 165Ft		Max. 165Ft			
	Outdoor Below	Ft.	Max. 23Ft		Max. 23Ft		Max. 100Ft		Max. 100Ft			
<b>Dimensions &amp; Weight</b>												
Height	inches		Indoor Unit 10-5/8"	Outdoor Unit 21-1/4"	Indoor Unit 10-5/8"	Outdoor Unit 21-1/4"	Indoor Unit 11-7/32"	Outdoor Unit 24-19/32"	Indoor Unit 14-9/16"	Outdoor Unit 28-15/16"	Indoor Unit 14-9/16"	Outdoor Unit 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



Outdoor Unit  
CH0922  
CH1232

09KHS22



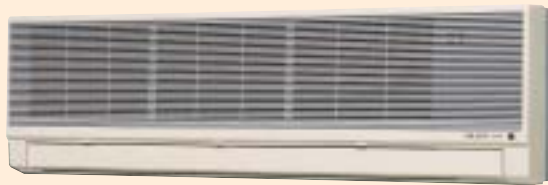
Indoor Unit  
KHS1232  
KHS1822



Outdoor Unit  
CH1822

12KHS32

18KHS22



Indoor Unit  
KHS2432



Outdoor Unit  
CH2432

24KHS32



Only for 12KHS32, 18KHS22, 24KHS32

Only for 24KHS32

### Wall Mounted Heat Pump

Model No.	09KHS22		12KHS32		18KHS22		24KHS32	
	Indoor Unit KHS0922	Outdoor Unit CH0922	Indoor Unit KHS1232	Outdoor Unit CH1232	Indoor Unit KHS1822	Outdoor Unit CH1822	Indoor Unit KHS2432	Outdoor Unit CH2432
<b>Performance &amp; Electrical Ratings</b>								
Capacity	Cooling	Btu/h	11,700/11,500		16,500/16,000		22,000/21,200	
	Heating	Btu/h	13,000/12,700		18,000/17,600		25,000/24,300	
Moisture Removal	High	Pints/H	2.2/2.1		5.3/5.2		6.2/6.1	
Dry Air Flow	Hi/Med/Low	CFM	220/190/160		440/380/320		540/460/380	
SEER	Cooling		10.0/10.0		10.0/10.0		10.0/10.0	
EER	Cooling		9.5/9.5		9.1/9.1		9.6/9.5	
HSPF	Heating		6.8/6.8		6.8/6.8		7.0/7.0	
COP	Heating		3.1/3.2		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	
Running Amps	Cooling	A	4.5/4.6		8.1/8.7		10.3/10.9	
	Heating	A	4.7/4.8		8.1/8.7		11.3/12.2	
Power Input	Cooling	W	950/930		1,810/1,760		2,300/2,220	
	Heating	W	1,030/980		1,810/1,760		2,500/2,430	
Back-up Heater		kW	1.0/0.82		1.5/1.23		1.8/1.47	
Maximum Fuse Size Amps		A	15		30		30	
<b>Features</b>								
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	
	Vertical	Manual	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/Me/Lo)	dB-A	40/35/30		47/44/40		45/42/40	
	Outdoor(Hi)	dB-A	49		55		53	
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		3/4" Suction	
Refrigerant Pipe Length**		Ft.	Max. 50Ft		Max. 65Ft		Max. 165Ft	
Elevation Difference	Outdoor Above	Ft.	Max. 23Ft		Max. 23Ft		Max. 165Ft	
	Outdoor Below	Ft.	Max. 23Ft		Max. 23Ft		Max. 100Ft	
<b>Dimensions &amp; Weight</b>								
Height		inches	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
			13-19/32"	20-7/8"	14-3/16"	20-7/8"	14-3/16"	24-13/16"
Width		inches	31-1/2"	29-17/32"	38-31/32"	29-17/32"	38-31/32"	32-11/16"
Depth		inches	7-3/32"	11-1/32"	7-25/32"	11-1/32"	7-25/32"	12-13/32"
Net Weight		Lbs.	24.0	90.0	30.0	92.0	30.0	134.0
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

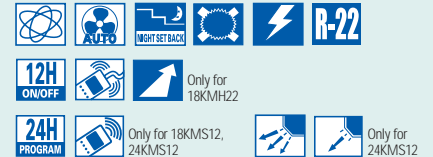


Indoor Unit  
KMS1212 (x2)



## 24KMS12

Indoor Unit  
KMS1212 (x2)



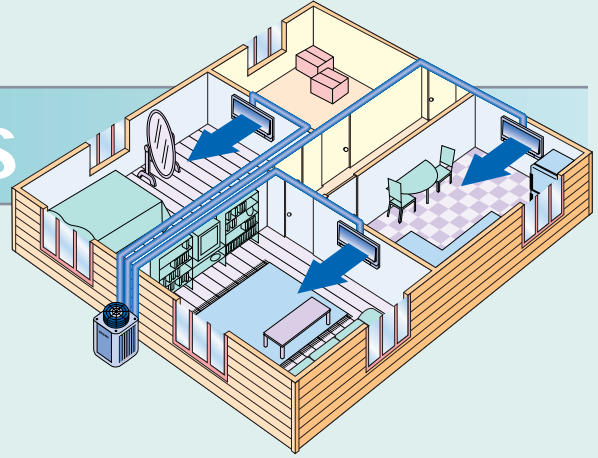
			Dual-Zone Air Conditioners				Dual-Zone Heat Pump	
Model No.			18KMS12		24KMS12		18KMH22	
Unit Model No.			Indoor Unit KMS0912 x 2	Outdoor Unit CM1812	Indoor Unit KMS1212 x 2	Outdoor Unit CM2412	Indoor Unit KMH0922 x 2	Outdoor Unit CMH1822
Performance & Electrical Ratings			EACH SYSTEM		TOTAL SYSTEM		EACH SYSTEM	
Capacity	Cooling	Btu/h	9,000/8,800	18,000/17,600	12,800/12,500	24,000/23,500	8,800/8,700	16,800/16,300
	Heating	Btu/h	---	---	---	---	10,000/9,800	19,000/18,000
Moisture Removal	High	Pints/H	2.2/2.1	4.4/4.2	3.3/3.2	5.6/5.4	2.2/2.1	4.4/4.2
Dry Air Flow	Hi/Med/Low	CFM	220/190/160	440/380/320	360/310/260	720/620/520	220/190/160	440/380/320
SEER	Cooling		10.0/10.0	10.0/10.0	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	9.8/10.0	9.2/9.2
HSPF	Heating		---	---	---	---	7.0/7.0	7.0/7.0
COP	Heating		---	---	---	---	3.3/3.3	3.4/3.3
Power Supply	V, Phase, Hz		230/208, 1, 60		230/208, 1, 60		230/208, 1, 60	
Running Amps	Cooling	A	4.3/4.5	8.6/9.0	5.7/6.0	11.2/12.0	4.1/4.3	8.2/8.7
	Heating	A	---	---	---	---	4.1/4.3	7.5/7.9
Power Input	Cooling	W	930/910	1,860/1,820	1,280/1,240	2,570/2,480	900/870	1,820/1,780
	Heating	W	---	---	---	---	900/870	1,640/1,590
Back-up Heater		kW	---	---	---	---	1.0/0.82	2.0/1.64
Maximum Fuse Size Amps		A	---	15	---	30	---	30
<b>Features</b>								
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		Manual		Manual		Manual	
	Vertical		Manual		Automatic		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/Me/Lo)	dB-A	40/35/30		40/37/34		40/35/30	
	Outdoor(Hi)	dB-A	54		53		56	
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		3/8" Suction	
Refrigerant Pipe Length**		Ft.	Max. 50Ft		Max. 65Ft		Max. 50Ft	
Elevation Difference	Outdoor Above	Ft.	Max. 23Ft		Max. 23Ft		Max. 23Ft	
	Outdoor Below	Ft.	Max. 23Ft		Max. 23Ft		Max. 23Ft	
<b>Dimensions &amp; Weight</b>			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Height	inches		13-19/32"	24-13/16"	14-3/16"	32-7/8"	13-19/32"	24-3/16"
Width	inches		31-1/2"	32-11/16"	39-3/8"	33-15/32"	31-1/2"	32-11/16"
Depth	inches		7-3/32"	12-13/32"	8-3/32"	12-1/32"	7-3/32"	12-13/32"
Net Weight	Lbs.		24.0	130.0	37.0	158.0	24.0	134.0
<b>Approvals</b>			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.



Wireless Remote Controller

Indoor Unit  
KMS0712 (x2)



32KMS12

Indoor Unit  
KMS1812



Outdoor Unit  
CM3212



Tri-Zone Air Conditioners					
Model No.		32KMS12		18KMH22	
Unit Model No.		Indoor: KMS0712 x 2 & KMS1812		Outdoor: CM3212	
		KMS0712 x 2	KMS1812	KMS0712 x 2 + KMS1812	
<b>Performance &amp; Electrical Ratings</b>					
Capacity	Cooling	Btu/h	7,000/7,000	18,000/18,000	32,000/32,000
	Heating	Btu/h	---	---	---
Moisture Removal	High	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	10.0/10.0
EER	Cooling		9.3/9.7	9.0/9.2	9.4/9.7
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	15.0/16.0
	Heating	A	---	---	---
Power Input	Cooling	W	750/720	2,000/1,950	3,400/3,300
	Heating	W	---	---	---
Back-up Heater		kW	---	---	---
Maximum Fuse Size Amps		A	---	---	30
<b>Features</b>					
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	
Refrigerant control				Capillary Tube	
Operation Sound	In(Hi/Me/Lo)	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.	
<b>Dimensions &amp; Weight</b>					
Height		inches	KMS0712 13-19/32"	KMS1812 14-3/16"	CM3212 32-1/16"
Width		inches	31-1/2"	38-31/32"	26-3/8"
Depth		inches	7-3/32"	7-25/32"	26-3/8"
Net Weight		Lbs.	24.0	30.0	220.0
<b>Approvals</b>				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)

# Ceiling-Suspended Air Conditioner & Heat



**24TS32A/24TLS32A**  
**24THS32**

Indoor Unit  
TS2432  
THS2432



Outdoor Unit  
C2432A/CL2432A  
CH2432



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

Indoor Unit  
TS3632  
THS3632  
TS4232



Outdoor Unit  
C3632A/CL3632A  
CH3632  
C4232A/CL4232A



**24TH42**  
Indoor Unit  
TH2442



Outdoor Unit  
CH2442



**36TH42/42TH42**  
Indoor Unit  
TH3642  
TH4242



Outdoor Unit  
CH3642  
CH4242



<b>Model No.</b>		
Unit Model No.		
<b>Performance &amp; Electrical Ratings</b>		
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	
<b>Features</b>		
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/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.
<b>Dimensions &amp; Weight</b>		
Height	inches	
Width	inches	
Depth	inches	
Net Weight	Lbs.	
<b>Approvals</b>		

## Quiet operation

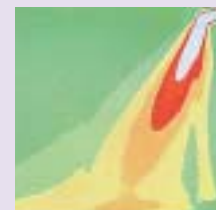
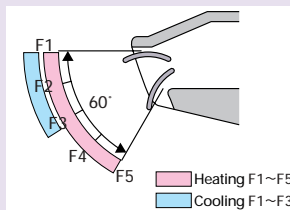
The ceiling-mounted unit is equipped with a highly efficient, multi-blade centrifugal fan that generates a powerful yet gentle airflow throughout the room. A redesigned aerodynamically tested lower structure minimizes operational sound even at high fan speed.



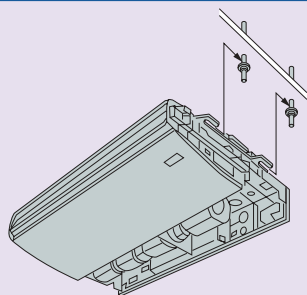
# Pumps

## 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

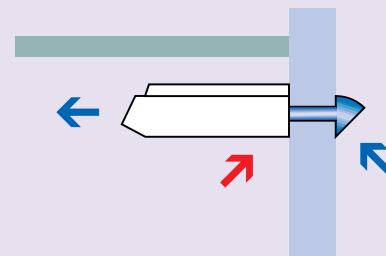


External suspension method.  
Installation time can be shortened.



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

## Fresh Air Intake Capability



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

Ceiling - Suspended Air Conditioners						Ceiling - Suspended Heat Pumps									
24TS32A / 24TLS32A		36TS32A / 36TLS32A		42TS32A / 42TLS32A		24THS32		36THS32		24TH42		36TH42		42TH42	
Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor 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	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
7-15/32"	28-15/16"	9-7/16"	48-5/8"	9-7/16"	48-5/8"	7-15/32"	28-15/16"	9-7/16"	48-5/8"	7-15/32"	28-15/16"	9-7/16"	48-5/8"	9-7/16"	48-5/8"
51-3/16"	37"	62"	37"	62"	37"	51-3/16"	37"	62"	37"	51-3/16"	37"	62-1/32"	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"	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	90.0	203.0	60.0	157.0	90.0	203.0	90.0	203.0
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

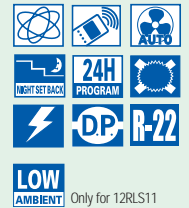


**12RS11/12RLS11**

Cooling Unit  
RS1211



Outdoor Unit  
C1211/CL1211



**18XS52/18XLS52**  
**24XS32A/24XLS32A**

Indoor Unit  
XS1852  
XS2432



Outdoor Unit  
C1852  
CL1852



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

Indoor Unit  
XS3632  
XS4232  
XHS3632



Outdoor Unit  
C3632A/CL3632A  
C4232A/CL4232A  
CH3632



**24XH42**

Indoor Unit  
XH2442



Outdoor Unit  
CH2442



**36XH42**  
**42XH42**

Indoor Unit  
XH3642  
XH4242



Outdoor Unit  
CH3642  
CH4242

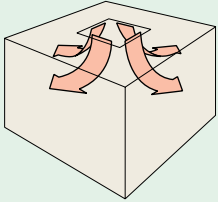


Model No.		
Unit Model No.		
Performance & Electrical Ratings		
Capacity	Cooling	Btu/h
	Heating	Btu/h
Moisture Removal	High	Pints/H
Dry Air Flow	Hi/Med/Low	CFM
SEER	Cooling	
EER	Cooling	
HSPF	Heating	
COP	Heating	
Power Supply	V. Phase, Hz	
Running Amps	Cooling	A
	Heating	A
Power Input	Cooling	W
	Heating	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/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		

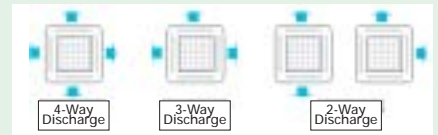


# Pump

## 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.



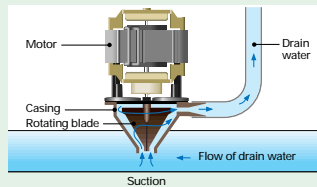
## Whisper-quiet operation

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<sup>1</sup> 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

Ceiling - Recessed Air Conditioners					Ceiling-Recessed H/P												
12RS11/12RLS11		18XS52/18XLS52		24XS32A/24XLS32A		36XS32A/36XLS32A		42XS32A/42XLS32A		24XH42		36XH42		42XH42		36XHS32	
Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
RS1211	C1211/CL1211	XS1852	C1852/CL1852	XS2432	C2432A/CL2432A	XS3632	C3632A/CL3632A	XS4232	C4232A/CL4232A	XH2442	CH2442	XH3642	CH3642	XH4242	CH4242	XHS3632	CH3632
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	
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	
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	
10.0		10.4/10.4		10.8/10.2		10.2/10.2		10.2/10.3		10.0/10.2		10.7/11.0		10.4/10.4		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	
---		---		---		---		---		7.0/7.0		7.0/7.0		7.0/7.0		7.0/7.0	
---		---		---		---		---		2.9/2.9		2.9/2.9		2.9/2.8		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	
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	
---		---		---		---		---		11.7/12.3		18.2/19.3		21.7/22.2		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	
---		---		---		---		---		2,500/2,450		3,850/3,750		4,450/4,350		3,850/3,750	
---		---		---		---		---		---		---		---		---	
15		20		25		35		50		25		40		45		30	
Microcomputer		Microcomputer		Microcomputer		Microcomputer		Microcomputer		Microcomputer		Microcomputer		Microcomputer		Microcomputer	
12RLS11 Equip.		18XLS52 Equip.		24XLS32A Equip.		36XLS32A Equip.		42XLS32A Equip.		Down to 23° F (0° F)***		Down to 23° F (0° F)***		Down to 23° F (0° F)***		Down to 23° F	
Equip		Equip		Equip		Equip		Equip		Optional(RCS-SH80UA-WL)		Optional(RCS-SH80UA-WL)		Optional(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)		---	
3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic		3 + Automatic	
On/Off/24hr Program		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 (Optional remote required) Optional Weekly timer (TM-SH80UG)		On/Off/24hr (Optional remote required) Optional Weekly timer (TM-SH80UG)		On/Off/24hr (Optional remote required) Optional Weekly timer (TM-SH80UG)		On/Off/24hr Program 1hr Off	
---		---		---		---		---		---		---		---		---	
Manual		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic	
Washable		Washable		Washable		Washable		Washable		Washable		Washable		Washable		Washable	
R-22		R-22		R-22		R-22		R-22		R-22		R-22		R-22		R-22	
Capillary Tube		Capillary Tube		Capillary Tube		Capillary Tube		Capillary Tube		Electronic Expansion Control Valve		Electronic Expansion Control Valve		Electronic Expansion Control Valve		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	
Flare Type		Flare Type		Flare Type		Flare Type		Flare Type		Flare Type		Flare Type		Flare Type		Flare Type	
1/4" Discharge 1/2" Suction		1/4" Discharge 5/8" Suction		1/4" Discharge 3/4" Suction		3/8" Discharge 3/4" Suction		3/8" Discharge 3/4" Suction		1/4" Discharge 3/4" Suction		3/8" Discharge 3/4" Suction		3/8" Discharge 3/4" Suction		3/8" Discharge 3/4" Suction	
Max. 65Ft		Max. 65Ft		Max. 132Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft	
Max. 23Ft		Max. 23Ft		Max. 132Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft		Max. 165Ft	
Max. 23Ft		Max. 23Ft		Max. 83Ft		Max. 100Ft		Max. 100Ft		Max. 100Ft		Max. 100Ft		Max. 100Ft		Max. 100Ft	
Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
12-5/8"	20-7/8"	12-29/32"	24-19/32"	12-29/32"	28-15/16"	14-3/32"	48-5/8"	14-3/32"	48-5/8"	13-5/16"	28-15/16"	14-1/2"	48-5/8"	14-1/2"	48-5/8"	14-3/32"	48-5/8"
31-29/32"	29-17/32"	33-27/32"	34-21/32"	33-27/32"	37"	45-9/32"	37"	45-9/32"	37"	33-27/32"	37"	45-9/32"	37"	45-9/32"	37"	45-9/32"	37"
24-13/32"	11-1/32"	33-27/32"	12-19/32"	33-27/32"	13-3/8"	33-27/32"	13-7/8"	33-27/32"	13-7/8"	33-27/32"	13-3/8"	33-27/32"	13-3/8"	33-27/32"	13-3/8"	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	60.0	157.0	75.0	203.0	75.0	203.0	90.0	203.0
ETL, ARI, MEA		ETL, ARI, MEA		ETL, ARI, MEA		ETL, ARI, MEA		ETL, ARI, MEA		CSA, ARI, MEA		CSA, ARI, MEA		CSA, ARI, MEA		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

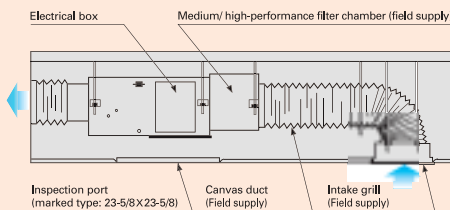


**UH3642** Indoor Unit  
UH3642



Outdoor Unit  
CH3642

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

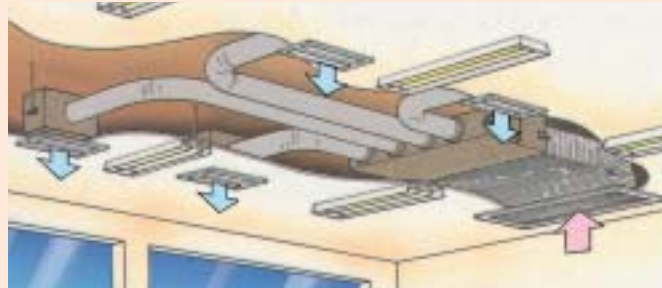


## Built-in drain pump

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.



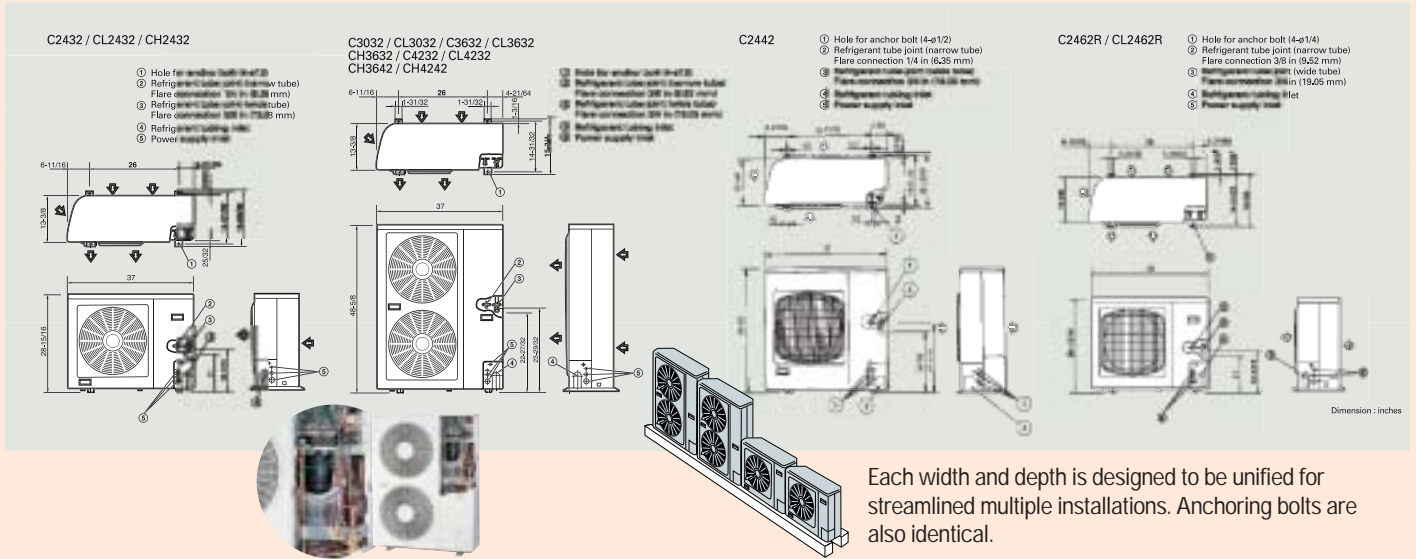
Above picture shows the standard ducting system, where air is taken in from the back of the unit. This system is useful for places which need extensive air conditioning, including conference halls, showrooms, and restaurants.

## Concealed Duct Heat Pumps

Model No.	24UH42		36UH42	
	Indoor Unit UH2442	Outdoor Unit CH2442	Indoor Unit UH3642	Outdoor Unit CH3642
<b>Performance &amp; Electrical Ratings</b>				
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	
<b>Features</b>				
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/Me/Lo) dB-A	34/30/27	38/33/31	
	Outdoor(Hi) dB-A	53	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	
Elevation Difference	Outdoor Above Ft.	Max. 165Ft	Max. 165Ft	
	Outdoor Below Ft.	Max. 100Ft	Max. 100Ft	
<b>Dimensions &amp; Weight</b>				
Height	inches	Indoor Unit: 12-7/32" Outdoor Unit: 28-15/16"	Indoor Unit: 12-7/32"	Outdoor Unit: 48-5/8"
Width	inches	39-3/8" 37"	58-9/32"	37"
Depth	inches	24-13/16" 13-3/8"	24-13/16"	13-3/8"
Net Weight	Lbs.	71.0 157.0	104.0	203.0
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



Wireless Remote Controller



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

POWER SOURCE	Cooling	Heating
Electric Power	115V60Hz	
Employed Gas	---	
	Natural gas (LPG)	
<b>PERFORMANCE</b>		
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
<b>ELECTRICAL RATING</b>		
Available Voltage range	104-126	
Running Amps	8.2A	5.9A
Power Input	900 W	620 W
SEER	10.0 BTU/Wh	---
<b>FEATURES</b>		
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/Amount charged at shipment	1.34lb.	
Refrigerant Control	Capillary Tube	
Operation Sound	Indoor: Hi/Me/Lo Outdoor: Hi	39/37/34 dB-A 45 dB-A 41/38/33 dB-A 43 dB-A
Refrigerant Tubing Connections	Flare	
Max Allowable Tubing Length/Elevation difference**	49'/23'	
Refrigerant	Narrow tube	1/4"
Tubing Diameter	Wide tube	3/8"
<b>Dimensions &amp; Weight</b>		
Unit Dimensions	Height	Indoor Unit: 10-5/8" Outdoor Unit: 23-7/32"
	Width	31-11/16" / 28-1/2"
	Depth	6-31/32" / 11-15/32"
Package Dimensions	Height	9-13/16" / 31-1/16"
	Width	33-21/32" / 25-1/32"
	Depth	13-5/16" / 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.	
<b>BURNER</b>		
Burner Type	Ribbon Burner	
Burner Configuration	Slit Type	
<b>GAS CONSUMPTION</b>		
Typical Input	Natural Gas	LPG
	"15,500 High"	"15,500 High"
Burner Type	"10,400 Medium"	"10,400 Medium"
Burner Configuration	"6,150 Low"	"6,150 Low"
<b>GOVERNOR SETTING PRESSURE</b>		
	Natural Gas	LPG
	P2	P1
P2, P1 Inches Water Column	3.43 High 1.61 Medium 0.63 Low	7.0 High 7.0 Medium 7.0 Low
	P2	P1
	3.54 High 1.61 Medium 0.63 Low	11.0 High 11.0 Medium 11.0 Low
<b>GAS NOZZLE</b>		
Inner Diameter	Natural Gas: 0.0807	LPG: 0.063
Q <sup>3</sup> y	1	1
<b>SAFETY DEVICES</b>		
Re-start timer (3 minutes)	Cooling	Heating
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

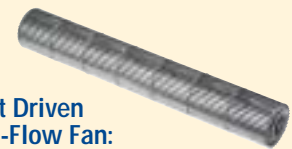


STW-2 Series



## 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.



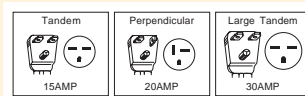
## Model Identification

STW 09 2 \* C 2

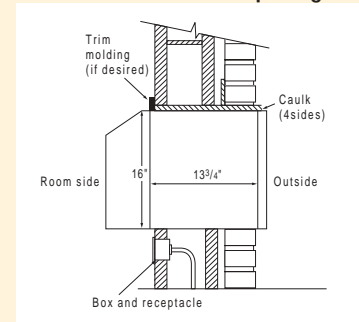
SANYO Packaged Terminal A/C  
 Nominal Cooling Capacity  
 06: 7000BTU 12: 12000BTU  
 09: 9000BTU 15: 15000BTU  
 Voltage  
 2: 230/208V  
 3: 265V

Development Series #  
 Unit Type: C: Cooling Only w/E. Heater  
 H: Heat Pump w/E. Heater  
 Heater Size (Refer to the table below)

## Cord plug and wall outlet (230/208v)



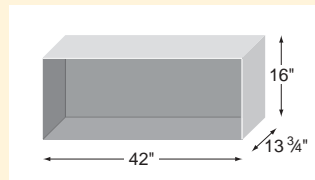
## Minimum Wall Sleeve Opening



## 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	230V 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

## Wall Case Dimensions



Cooling & Electric Heating Model									Heat Pump Model								
Model Number	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	70	40	40	65	65	70	70	70	70
Weight	Ship/Net (Lb)	110/95	110/95	110/95	110/95	120/105	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



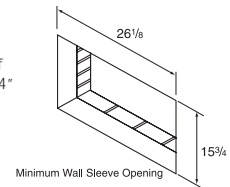
STB Series



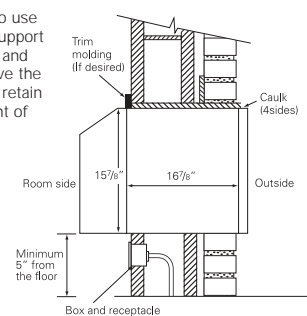
- Attractive Appearance
- 8 Different models which include a variety of cooling, Cool/Heat and Heat Pump
- Industry Standard Wall Sleeve (Not included) 26" (W) X 15-5/8" (H) X 16-7/8"
- Solid State Control (H/P)
- Up Front Slide Out Washable Air Filter
- Two Fan speeds and Fan Only Setting
- Slide out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

## Dimension of Wall Opening

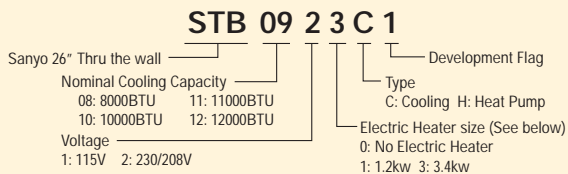
Wall opening of 26-1/8" x 15-3/4" is required



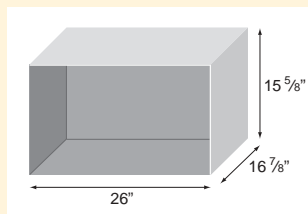
Be sure to use lintel to support the block and brick above the sleeve to retain the weight of the unit



## Model Identification



## Wall Sleeve Dimension



## Wall Receptacles



	Cooling & Electric Heating Model			Heat Pump Model	Cooling Only Model			
Model Number	STB0811C1	STB1023C1	STB1123C1	STB0823H1	STB0810C1	STB1010C1	STB1020C1	STB1220C1
Voltage	V 115	230/208	230/208	230/208	115	115	230/208	230/208
Cooling Capacity	BTU/h 8000	9500/9300	11300/11000	8000/7800	8200	10200	9700/9500	11500/11300
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	8.5/8.5
Cooling Watts	W 920	1120/1090	1330/1310	940/920	940	1200	1140/1110	1350/1330
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	6.1/6.6
Plug Type	Parallel	Perp.	Perp.	Perp.	Parallel	Parallel	Tandem	Tandem
Recommended Circuit Protection	Time Delay (A) 15	20	20	20	15	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	3.2
Indoor CFM	Hi/Lo 250/220	250/220	250/220	250/220	270/240	270/240	270/240	270/240
Weight	Ship/Net (Lb) 93/82	100/89	106/95	101/90	93/82	101/90	100/89	104/93

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
<b>Performance &amp; Electrical Ratings</b>	
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	HCFC R22
<b>Features</b>	
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
<b>Dimensions</b>	
Height	31"
Width	12-7/8"
Depth	16-3/8"
Net Weight	74 lbs.
<b>Accessory</b>	
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.

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

Max. 8 units

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

O1RCSKH5B  
RCS5PS4B

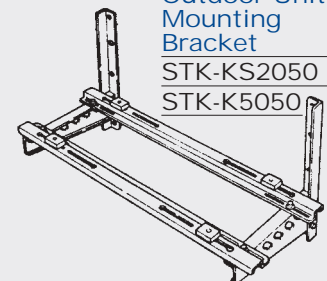


Wireless Remote

RCS-SH80UA-WL

Outdoor Unit Mounting Bracket

STK-KS2050  
STK-K5050

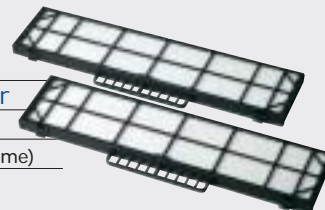


Refrigerant Line Set

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

Air Clean Filter

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



# 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, 18XS52, 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, 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, 18KHS22, 18XS52, 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, 18XS52, 18XLS52 36XS32A, 36XLS32A, 36TS32A, 36TLS32A, 42XS32A, 42XLS32A, 42TS32A, 42TLS32A
RCS-302WD (30')		
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	18XS52, 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						25'	R22 0.16	
09KHS51		3/8"	50'			33'		
09KHS22						25'		
12KS51, 12KLS51						33'		
12KHS51		1/2"	65'					
12KHS32								
12RS11, 12RLS11	1/4"			23'	23'	33'		Both Tubes
14KGS11		3/8"	49'					
18KS52, 18KLS52						25'		
18KHS52		5/8"	65'			33'	R22 0.27	
18KHS22								
18XS52, 18XLS52								
24KS32A, 24KLS32A	3/8"			50'	50'	25'		
24TS32A								Wide Tube
24TLS32A			132'	132'	83'	50'		Both Tubes
24XS32A								Wide Tube
24XLS32A								
24KHS32	1/4"							
24THS32								
24KH42						100'	R22 0.48	Both Tubes
24TH42								
24XH42								
24UH42								
30KS32A								Wide Tube
30KLS32A								Both Tubes
36KS32A								Wide Tube
36KLS32A								Both Tubes
36TS32A		3/4"				50'	R22 0.86	Wide Tube
36TLS32A								Both Tubes
36XS32A			165'	165'	100'			Wide Tube
36XLS32A								
36XHS32								
36THS32	3/8"							
36KH42						100'	R22 0.53	Both Tubes
36TH42								
36XH42								
36UH42								
42TS32A								Wide Tube
42TLS32A						50'	R22 0.86	Both Tubes
42XS32A								Wide Tube
42XLS32A								
42TH42								
42XH42						100'	R22 0.53	
18KMS12								
18KMH22	1/4" x 2	3/8" x 2	50'				R22 0.16	
24KMS12		1/2" x 2	65'	23'	23'	33'	R22 0.27	Both Tubes
32KMS12 (KMS0712)	1/4" x 2	3/8" x 2	50'				R22 0.16	
32KMS12 (KMS1812)	1/4"	1/2"	65'				R22 0.27	
24KS62R, 24KLS62R	3/8"	3/4"	132'	50'	50'	23'	R410A 0.43	

\*condenser is shipped with enough REFRIGERANT to operate the SYSTEM to this length. Additional refig. 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

#### "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

#### "42" Series 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	23°F (0°F) *** DB
Heating	Maximum	80°F DB/67°F WB	75°F DB/65°F WB
	Minimum	-°F DB/-°F WB	15°F WB

\*\*\* When air discharge chamber is installed.



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.  
©Copyright 2004, SANYO Air Conditioning Products.



**SANYO Fisher Company**  
A Division of SANYO North America Corporation  
21605 Plummer Street Chatsworth, CA 91311 USA  
Phone: 818-998-7322 Fax: 818-717-2703  
website: <http://www.sanyohvac.com>