

FULL DC INVERTER SYSTEMS

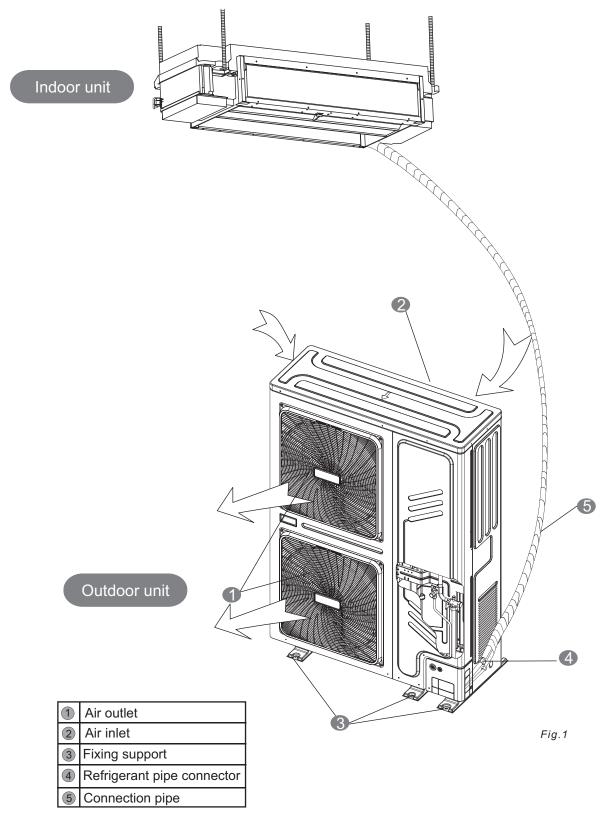
OWNER'S MANUAL SDV4-200EA, SDV4-224EA, SDV4-260EA

COMMERCIAL AIR CONDITIONERS SDV4



Original instructions

This air conditioner comprises an indoor unit, outdoor unit, and a connection pipe.



NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model). The actual shape shall prevail.

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IMPORTANT SAFETY INFORMATION

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

The safty precautions listed here are divided into two categories. In either case, important safty information is listed which must be read carefully



WARNING

Failure to observe a warning may result in death. The appliance shall be installed in accordance with national wiring regulations.



CAUTION

Failure to observe a caution may result in injury or damage to the equipment.



WARNING

Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.

Ask your dealer for improvement, repair, and maintenance.

Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.

In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off the power supply and call your dealer for instructions.

Never let the indoor unit or the remote controller get wet. It may cause an electric shock or a fire.

Never press the button of the remote controller with a hard, pointed object.

The remote controller may be damaged.

Never replace a fuse with that of wrong rated current or other wires when a fuse blows out.

Use of wire or copper wire may cause the unit to break down or cause a fire.

It is not good for your health to expose your body to the air flow for a long time.

where oil gas, salty air(near the coast), caustic gas(the sulfide in hotspring) exist, otherwise it may damage the unit and shorten the life span of the manchine.If the situations above can't be avoided, choose a anticorrosive model.

Do not insert fingers, rods or other objects into the air inlet or outlet.

When the fan is rotating at high speed, it will cause injury.

Never use a flammable spray such as hair spray, lacqueror paint near the unit. It may cause a fire.

Never touch the air outlet or the horizontal blades while the swing flap is in operation. Fingers may become caught or the unit may break down.

Never put any objects into the air inlet or outlet. Objects touching the fan at high speed can be dangerous.

Never inspect or service the unit by yourself. Ask a qualified service person to perform this work.

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.



Contact you local government for information regarding the connection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundeater and get into the food chain, damaging your health and well-being.

To prevent refrigerant leak, contact your dealer.

When the system is installed and runs in a small room, it is required to keep the concentration of the refrigerant, if by any chance coming out, below the limit. Otherwise, oxygen in the room may be affected, resulting in a serious accident.

The refrigerant in the air conditioner is safe and normally does not leak.

If the refrigerant leaks in the room, contact with a fire of a burner, a heater or a cooker may result in a harmful gas.

Turn off any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.

Do not use the air conditioner until a service person confirms that the portion where the refrigerant leaks is repaired.

If the supply cord is damaged, it must be replaced by the manufacturer, its service angent or similarly qualified person in order to avoid a hazard.



CAUTION

Do not use the air conditioner for other purposes. In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.

Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord. Otherwise, an electric shock and injury may result.

In order to avoid electric shock or fire, make sure that an earth leak detector is installed.

Be sure the air conditioner is grounded.

In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

In order to avoid injury, do not remove the fan guard of the outdoor unit.

Do not operate the air conditioner with a wet hand. An electric shock may happen.

Do not touch the heat exchanger fins.

These fins are sharp and could result in cutting injuries.

Do not place items which might be damaged by moisture under the indoor unit.

Condensation may form if the humidity is above 80%, the drain outlet is blocked or the filter is polluted.

After a long use, check the unit stand and fitting for damage.

If damaged, the unit may fall and result in injury.

To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.

Arrange the drain hose to ensure smooth drainage. Incomplete drainage may cause wetting of the building, furniture etc.

Never touch the internal parts of the controller.

Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen.

Never expose little children, plants or animals directly to the air flow.

Adverse influence to little children, animals and plants may result.

Do not allow a child to mount on the outdoor unit or avoid placing any object on it.

Falling or tumbling may result in injury.

Do not operate the air conditioner when using a room fumigation - type insecticide.

Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.

Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit.

It may cause incomplete combuston or deformation of the unit due to the heat.

Do not install the air conditioner at any place where flammable gas may leak out.

If the gas leaks out and stays around the air conditioner, a fire may break out.

This appliance can be used by children age from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved, children should not play with This appliance. Cleaning and user maintenance should not be made by children without supervision.

When capacity of indoor unit greater than the sum of 100%, capacity of indoor unit will be attenuated.

When capacity of indoor unit greater than or equal to the sum of 120%, in order to ensure the effectiveness of machine, and then try to open the indoor units at different time.

The outdoor unit window-shades should be periodic cleaning in case of being jammed.

This window-shapes is heat dissipation outlet of components, if being jammed will cause the components shorten their service life spans because of overheated for a long time.

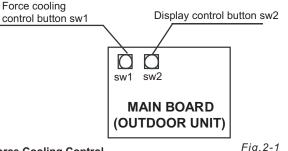
The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

5.Poor environmental conditions, the appliance should be maintained a month and a half or so; If the environment condition is good, may be extended appropriately maintenance cycle.

PARTS NAMES 2.

The air conditioner consists of the indoor unit, the outdoor unit, the connecting pipe and the remote controller. (see Fig.1)

Force Cooling Control



Force Cooling Control

Fig.2-1

Force cooling control of outdoor unit be pressed once that a order to force cooling in indoor unit. When the frequency of outdoor unit change to 62Hz and then running it; indoor fan run in high speed. Press the button again will exit the Force Cooling Control.

Display function

SW2 on the main control board of outdoor unit is the point inspection function button (as shown in Figure 2-1). Pressing this button once displays the first parameter of the digital pipe in the main control board.

Additional button presses will display other parameters following the sequence shown in Table 2-1.

Table 2-1

Soguonco		Normal display		
Sequence	Displayed Content	Normal display		
		Current frequency		
1	0	Local capacity of outdoor units		
2	1	Total capacity requirements of outdoor units		
3	2	Total requirements of outdoor units corrected capacity		
4	3	Operating mode		
5	4	Operating FAN speed and FAN grade		
6	5	T2B/T2 average temperature		
7	6	T3 pipe temperature		
8	7	T4 environment temperature		
9	8	Inverter exhaust temperature		
10 9 Non-inverter exhaust (reserved)		Non-inverter exhaust temperature (reserved)		
11	0	Heat dissipator surface temperature (reserved)		
12	1	Electronic expansion valve aperture		
13	2	Inverter input current		
14	3	Non-inverter input current		
15	4	Exhaust pressure (reserved)		
16	5	Priority mode		
17	6	Indoor unit quantity		
18	7	Working indoor unit quantity		
19	8	Last fault or protection code		
20	9			

NOTE

- 12 hours preheating is imperative after turn on the power switch. Please do not shut down the power when the unit is supposed to stop running in 24h or shorter time. (This is to warm the crankcase heat box to avoid compulsive start of condenser.)
- Pay attention not to block the air inlet and outlet. Blocks may decrease the efficiency of the unit or startup the protector, which will stop running.

3. OPERATION RANGE

Use the system in the following temperature for safe and effective operation. The Max operation temperature for the air conditioner. (Cooling/Heating)

Table 3-1

Temperature Mode	Outdoor temperature	Room temperature
Cooling operation	-15℃~46℃	21℃~32℃
Heating operating	-15℃~24℃	0℃~28℃

NOTE

1. If air conditioner is used outside the above conditions, it may cause the unit to function abnormally.

2. The phenomenon is normal that the surface of air conditioning may condense water when the relative larger humidity in room, please close the door and window.

3. Optimum performance will be achieved within these operating temperature range.

4. The A-weighted sound pressure level is below 70 dB.

4 OPERATION AND PERFORMANCE

4.1 Protection Equipment

This Protection Equipment will enable the Air Conditioner to stop when the Air Conditioner is to be directed running compulsively.

When the Protection Equipment is activated, the Operation Indicator still lights while the Air Conditioner is not running. But the Check Indicatior Lights.

The protection equipment may be activated in following conditions:

Cooling Operation

- The air inlet or air outlet of outdoor unit is blocked.
- Strong wind is Continuously blowing to the air outlet of the outdoor unit.

Heating Operation

- Too much dust and rubbish adhere to the dust filter in the indoor unit
- The air outlet of indoor unit is choked

NOTE

When the protection equipment starts, please shut down the manual power switch, and restart operation after problem is solved.

4.2 About power cut

- If power is cut during operation, stop all the operation immediately.
- Power comes again. The lamp on the display panel of indoor unit flashes. And then unit will auto-restart.
- Mishandling in operation: If mishandling happens because of lighting or mobile wireless, please shut off the manual power switch, and turn on again, then push the ON/OFF button.

4.3 Heating capacity

- The heating operation is a heat-pump process that heat will be absorbed from outdoor air and released in doors. Once the outdoor temperature is decreased, heating capacity decreased corredpindingly.
- Other heating equipment is suggested to be used together when outdoor temperature is too low.
- In some extreme cold upland that buy another inddoor unit equipped electrical heater will obtain better performance.(Refer to indoor unit owner's manual for details)

NOTE

- The motor in Indoor Unit will continue running for 20~30 seconds for to remove residual heat when the Indoor Unit recoeiving OFF command during heating operation.
- 2. If the air conditioner malfunction occurs because of disturb, pleasereconnect the air conditioner to power, then turn on it again.

4.4 Five-minute protection feature

 A protection feature prevents the air conditioner from being activated for approximately 5 minuites when it restarts immediately after operation.

4.5 Cooling and heating operation

- The indoor unit of the intelligent inverter centralized air conditioner can be controlled solely, but the indoor unit in the same system can not run cooling and heating at the same time.
- When the Cooling and Heating operation confront with each other, the Indoor Unit which are running on Cooling Mode would stop and there will be Standby or No Priority displayed in the Control Panel. Those Indoor Units which are running on Heating Mode will run continuously.
- If the Air Conditioner Administrator has set running mode, then the air conditioner can not run on modes other than the presetted.Standby or No Priority will be displayed in the Control Panel.

4.6 Features of heating operation

 Warm air will not be blown out immediately at the beginning of the heating operation, 3~5 minutes ago (depends on the indoor and outdoor temperature), until the indoor heat exchanger become hot, then blows out warm air.

- During operation, the fan motor in the outdoor unit may stop running under high temperature.
- During Fan Operation, if other Indoor Units are running on Heating Mode, the fan may stop in order to prevent sending heat wind.

4.7 Defrost in the heating operation

- During heating operation, outdoor unit sometimes will frost. To increase efficiency, the unit will start defrosting automatically (about 2~10 minutes), and then water will be drained out from outdoor unit.
- During defrosting, both the fan motors in the outdoor unit and indoor unit will stop running.

5 MALFUNCTION CODE OF OUTDOOR UNIT

Table 5-1

No.	Failure or Protection Type	Recovery Mode	Fault Code
1	COMM.Fault between DSP and chip	Recoverable	H0
2	COMM.Fault between communication chip and main chip	Recoverable	H1
3	3 times of P6 protection in 30 minutes	Irrecoverable	H4
4	3 times of P2 protection in 30 minutes	Irrecoverable	H5
5	The number of indoor units decreases	Recoverable	H7
6	Reserved	Recoverable	H8
7	M-HOME for the indoor and outdoor units does not match	Irrecoverable	HF
8	Reserved	Recoverable	E1
9	Communication fault between the outdoor and indoor units	Recoverable	E2
10	T3 & T4 temperature sensor fault	Recoverable	E4
11	Voltage protection fault or a lack of Phase B , Phase N	Recoverable	E5
12	DC fan motor fault	Recoverable	E6
13	Discharge temperature sensor fault	Recoverable	E7
14	A fan in the A region run for more than 5 minutes in heat mode	Recoverable	EA
15	2 times of E6 protection in 10 minutes	Irrecoverable	EB
16	Inverter compressure top high temperature protection	Recoverable	P0
17	High pressure protection or exhaust temperature switch protection	Recoverable	P1
18	Low pressure protection	Recoverable	P2
19	Outdoor input current protection	Recoverable	P3
20	Compressor discharge high protection	Recoverable	P4
21	Outdoor condenser high temperature protection	Recoverable	P5
22	Inverter module protection	Recoverable	P6
23	Typhoon protection	Recoverable	P8
24	Evaporator high temperature protection	Recoverable	PE

Display Function Instruction

- 1. When stand by, LED displaying the amount of indoor units online which communicate with outdoor units.
- 2. When operation, LED displaying frequency value of compressor.
- 3. When defrost, LED displaying "dF".
- 4. The power cord type designation is H07RN-F.

6. FOLLOWING SYMPTOMS ARE NOT AIR CONDITIONER TROUBLES

Symptom 1: The system does not operate

- The air conditioner does not start immediately after the ON/OFF button on the romote controller is pressed. If the operation lamp lights, the system is in normal condition.To prevent overloading of the compressor motor, the air conditioner starts 5 minutes after it is turned ON.
- If the operation lamp and the "PRE-DEF indicator(cooling and heating type) or fan only indicator(cooling only type)" light, it means you choose the heating model, When just starting, if the compressor has not started, the indoor unit appears "anti cold wind" protection because of its overlow outlet temperature.

Symptom 2: Change into the fan mode during cooling mode

- In order to prevent the indoor evaporator frosting, the system will change into fan mode automatically, restore to the cooling mode after soon.
- When the room temperature drops to the set temperature, the compressor goes off and the indoor unit changes to fan mode; when the temperature rises up, the compressor starts again. It is same in the heating mode.

Symptom 3: White mist comes out of a unit

Symptom 3.1: Indoor unit

When humidity is high during cooling operation If the interior of an indoor unit is extremely contaminated, the temperature distribution inside a room becomes uneven. It is necessary to clean the interior of the indoor unit. Ask your dealer for details on cleaning the unit. This operation requires a qualified service erson

Symptom 3.2: Indoor unit, outdoor unit

When the system is changed over to heating operation after defrost operation Moisture generated by defrost becomes steam and is exhausted.

Sptom 4: Noise of air conditionerscooling

Symptom 4.1: Indoor unit

 A continuous low "shah" sound is heard when the system is in cooling operation or at a stop.
 When the drain pump (optional accessories) is in operation, this noise is heard.

 A "pishi-pishi" squeaking sound is heard when the system stops after heating operation.
 Expansion and contraction of plastic parts caused by temperature change make this noise.

Symptom 4.2: Indoor unit, outdoor unit

- A continuous low hissing sound is heard when the system is in operation.
 This is the sound of refrigerant gas flowing through both indoor and outdoor units.
- A hissing sound which is heard at the start or immediately after stopping operation or defrost operation. This is the noise of refrigerant caused by flow stop or flow change.

Symptom 4.3: Outdoor unit

When the tone of operating noise changes. This noise is caused by the change of frequency.

Symptom 5: Dust comes out of the unit

When the unit is used for the first time in a long time. This is because dust has gotten into the unit.

Symptom 6: The units can give off odours

The unit can absorb the smell of rooms, furniture, cigarettes, etc., and then emit it again.

Symptom 7: The outdoor unit fan does not spin.

During operation. The speed of the fan is controlled in order to optimize product operation.

7. TROUBLESHOOTING

7.1. Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

- The operation lamp is flashing rapidly (twice every second) This lamp is still flashing rapidly after turn off the power and turn on again.
- Remote controller receives malfunction or the button does not work well.
- A safety device such as a fuse, a breaker frequently actuates.
- Obstacles and water enter the unit.
- Water leaks from indoor unit.
- Other malfunctions.

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions is evident, investigate the system according to the following procedures. (see in Table 7-1)

Symptoms	Causes	Solution
Unit does not start	 Power failure. Power switch is off. Fuse of power switch may have burned. Batteries of remote controller exhausted or other problem of controller. 	 Wait for the comeback of power. Switch on the power. RepILocation: Replace the batterises or check the controller.
Air flowing normally but completely can't cooling	 Temperature is not set correctly. Be in 3 minutes protection of compressor. 	Set the temperature properly.Wait.
Units start or stop frequently	 Refrigerant is too little or too much. Air or no concreting gas in the refrigerating circuit. Compressor is malfunction. Voltage is too high or too low. System circuit is blocked. 	 Check leakage, and rightly recharge refrigerant. Vacuum and recharge refrigerant. Maintenance or change compressor. Install manostat. Find reasons and solution.
Low cooling effect	 Outdoor unit and indoor unit heat exchanger is dirty. The air filter is dirty. Inlet/outlet of indoor/outdoor units is blocked. Doors and windows are open Sunlight directly shine. Too much heat resource. Outdoor temp. is too high. Leakage of refrigerant or lack of refrigerant. 	 Clean the heat exchanger. Clean the air filter. Eliminate all dirties and make air smooth. Close doors and windows. Make curtains in order to shelter from sunshine. Reduce heat source. AC cooling capacity reduces (normal). Check leakage and rightly recharge refrigerant.
Low heating effect	 Outdoor temperature is lower than 7°C Doors and windows not completely closed. Leakage of refrigerant or lack of refrigerant. 	 Use heating device. Close doors and windows. Check leakage and rightly recharge refrigerant.

7.2 Troubles and causes of remote controller

Before asking for serving or repairing , check the following points.

(see in Table 7-2)

Table 7-2

Symptoms	Causes	Solution
The fan speed can not be	 Check whether the MODE indicated on the display is "AUTO" 	When the automatic mode is selected, the air conditioner will automatically change the fan speed.
changed.	 Check whether the MODE indicated on the display is "DRY" 	When dry operation is selected, the air conditioner automatically change the fan speed. The fan speed can be selected during "COOL", "FAN ONLY" and "HEAT"
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	• Check whether the batteries in the remote controller are exhausted.	The power supply is off.
The TEMP. indicator does not come on.	 Check whether the MODE indicated on the display is FAN ONLY 	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of time.	• Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display.	The air conditioner operation will stop up to the set time
The TIMER ON indicator goes off after a lapse of certain time.	• Check whether the timer operation is started when the TIMER ON is indicated on the display.	Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	• Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed.	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeatly push the ON/OFF button twice.

8. Specifications

Sale Model			SDV4-200EA	SDV4-224EA
Code			220095103380	220095103370
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz
	Capacity	kW	20.0	22.4
Cooling	Input	kW	6.1	6.8
	EER	kW/ kW	3.28	3.29
	Capacity	kW	22.0	24.5
Heating	Input	kW	6.1	5.9
	COP	kW/ kW	3.61	4.15
Max. input cons	sumption	W	9400	10013
Max. current		А	14.5	17.2
	Model		LNB42FSAMC	LNB53FCAMC
	Туре		Rotary	Rotary
	Brand		MITSUBISHI	MITSUBISHI
0	Capacity	W	13980	16860
Compressor	Input	W	4270	5200
	Rated current(RLA)	А	12	15.4
	Crankcase heater	W	25	25
	Refrigerant oil	ml	FV50S 1400+1300ml	FV50S 1700+1500ml
	Model		WZDK170-38G-1	WZDK170-38G-1
	Туре		DC motor	DC motor
	Brand		Panasonic	Panasonic
	Insulation class		E	E
Outdoor fan	Safe class		IPX4	IPX4
motor	Input	W	260(up)/200(down)	250(up)/185(down)
	Output	W	210(up)/160(down)	200(up)/150(down)
	Rated current	A	2.1(up)/1.7(down)	1.7(up)/1.4(down)
	Capacitor	uF	/	1
	Speed	r/min	860(up)/840(down)	860(up)/840(down)
	Material		ASG20	ASG20
	Туре		Axial fan	Axial fan
Outdoor fan	Diameter	mm	560	560
	Height	mm	170	170
	Number of rows		1.6	2
	Tube pitch(a)x row			
	pitch(b)	mm	21 x 19.4	21 x 19.4
Outdoor coil	Fin spacing	mm	1.5	1.5
	Tube outside dia.and type	mm	Φ7	Φ7
			Inner groove tube	Inner groove tube
	Coil length x height	mm	1090 x 756	1080 x 756
	Number of circuits		12	18
Outdoor air flow	1	m³/h	10999	10494
Outdoor sound	level(sound pressure level)	dB(A)	59	59

Sale Model			SDV4-200EA	SDV4-224EA
Code			220095103380	220095103370
	Dimension(W x H x D)	mm	1120×1558×400	1120×1558×400
Outdoor Unit	Packing (W x H x D)	mm	1270×1575×480	1270×1575×480
	Net/Gross weight	kg	137/153	146.5/162.5
Refrigerant	Туре		R410A	R410A
Reingerant	Charged volume	g	4800	6200
Throttle type			Electronic expansion valve	
Design pressure	9	MPa	4.4/2.6	
Defriverent	Liquid side/ Gas side	mm	Φ9.52/Φ19.1	Ф9.52/Ф19.1
Refrigerant piping	Max. refrigerant pipe length	m	120	120
piping	Max. difference in level	m	30	30
Connection	Power wiring	mm ²	5 core x6.0	5 core x6.0
wiring	Signal wiring	mm²	3 core shielded wire x 0.75	3 core shielded wire x 0.75
Ambient temp		°C	Cooling -15 \sim 48 Heating -15 \sim 27	Cooling -15~48 Heating -15~27

Sale Model			SDV4-260EA
Code	Code		220095103390
Power supply	ower supply		380-415V-3N~50Hz
	Capacity	kW	26.0
Cooling	Input	kW	7.6
	EER	kW/ kW	3.42
	Capacity	kW	28.5
Heating	Input	kW	6.8
	COP	kW/ kW	4.19
Max. input cons	umption	W	10736
Max. current		А	18.7
	Model		LNB53FCAMC
	Туре		Rotary
	Brand		MITSUBISHI
	Capacity	W	16860
Compressor	Input	W	5200
	Rated current(RLA)	А	15.4
	Crankcase heater	W	25
	Refrigerant oil	ml	FV50S 1700+1500ml
	Model		WZDK170-38G-1
	Туре		DC motor
	Brand		Panasonic
	Insulation class		E
Outdoor fan	Safe class		IPX4
motor	Input	W	250(up)/185(down)
	Output	W	200(up)/150(down)
	Rated current	Α	1.7(up)/1.4(down)
	Capacitor	uF	1
	Speed	r/min	860(up)/840(down)

Sale Model			SDV4-260EA
Code	Code		220095103390
Outdoor fan Material			ASG20
	Туре		Axial fan
Outdoor fan	Diameter	mm	560
	Height	mm	170
	Number of rows		2
	Tube pitch(a)x row pitch(b)	mm	21 x 19.4
	Fin spacing	mm	1.5
Outdoor coil	Tube outside	mm –	Φ7
	dia.and type		Inner groove tube
	Coil length x height	mm	1080 x 756
	Number of circuits		18
Outdoor air flow		m³/h	10494
Outndoor sound pressure level)		dB(A)	60
	Dimension (W x H x D)	mm	1120×1558×400
Outdoor unit	Packing (W x H x D)	mm	1270×1575×480
	Net/Gross weight	kg	147/163
Refrigerant	Туре		R410A
	Charged volume	g	6200
Throttle type			Electronic expansion valve
Design pressure		MPa	4.4/2.6
Definement	Liquid side/ Gas side	mm	Φ9.52/Φ22.2
Refrigerant piping	Max. refrigerant pipe length	m	120
	Max. difference in level	m	30
Connection	Power wiring	mm ²	5 core x6.0
wiring	Signal wiring	mm ²	3 core shielded wire x 0.75
Ambient temp		°C	Cooling -15 \sim 48 Heating -15 \sim 27

Notes:

1. The cooling conditions: indoor temp.: 27 °C DB (80.6 °F), 19 °C WB (60 °F) outdoor temp.: 35 °C DB (95 °F) equivalent pipe length: 5m drop length: 0m.

2. The heating conditions: indoor temp.: 20°CDB (68°F), 15°CWB (44.6°F) outdoor temp.: 7°CDB (42.8°F) equivalent pipe length: 5m drop length: 0m.

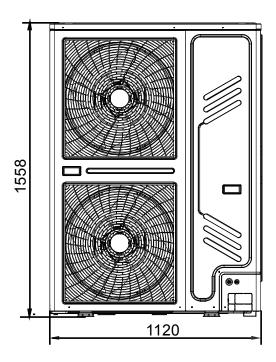
3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of *m(1.3m for 200~260model). During actual operation, these values are normally somewhat higher as a result of ambient conditions.

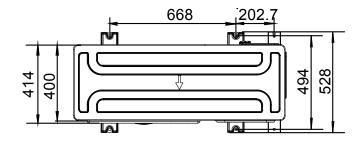
4. The aboved datas may be changed without notice for future improvement on quality and performance.

EER, COP values and energy classes

	EER	COP	
SDV4-200EA	3.28	3.61	A/A
SDV4-224EA	3.29	4.15	A/A
SDV4-260EA	3.42	4.19	A/A

9. Dimensions





Take-back of electrical waste Information for Users to Disposal of electrical and electronic equipment (private households)

Icon on the product or in the accompanying documentation means that used electric or electronic products must not be disposed together with domestic waste. For the correct disposal of the product hand it over to a place for take-back, where it is collected free of charge. By correct disposal of the product you can help to preserve valuable natural resources and help in preventing potential negative impacts to environment and human health, which could be consequence of incorrect disposal of waste. Ask for more details from local authorities, nearest collection point, in Waste Acts of respective country, in the Czech Republic in Act no. 185/2001 Coll., in the wording of later regulations. In case of incorrect disposal of this waste, a fine can be imposed according to national regulations.



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Supplier and technical support: Nepa, spol.s.r.o. Purkyňova 45 612 00 Brno Czech Republic www.nepa.cz

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