SERVICE MANUAL

ON/OFF

Wall mounted Type K -Series

HSU-07LEK03
HSU-07HEK03
HSU-09LEK03
HSU-09HEK03
HSU-12LEK03
HSU-12HEK03

Haier
Inspired living

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Большая библиотека технической документации
http://splitoff.ru/tehn-doc.html
каталоги, инструкции, сервисные мануалы, схемы.

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1. Introduction

1.1 Safety Cautions

Be sure to read the following safety cautions before conducting repair work.

The caution items are classified into “Warning” and “Caution”. The “Warning” items are especially important since they can lead to death or serious injury if they are not followed closely. The “Caution” items can also lead to serious accidents under some conditions if they are not followed. Therefore, be sure to observe all the safety caution items described below.

About the pictograms

△ This symbol indicates an item for which caution must be exercised.
The pictogram shows the item to which attention must be paid.

○ This symbol indicates a prohibited action.
The prohibited item or action is shown inside or near the symbol.

● This symbol indicates an action that must be taken, or an instruction.
The instruction is shown inside or near the symbol.

After the repair work is complete, be sure to conduct a test operation to ensure that the equipment operates normally, and explain the cautions for operating the product to the customer.

1.1.1 Caution in Repair

Warning	
Be sure to disconnect the power cable plug from the plug socket before disassembling the equipment for a repair. Working on the equipment that is connected to a power supply can cause an electrical shook. If it is necessary to supply power to the equipment to conduct the repair or inspecting the circuits, do not touch any electrically charged sections of the equipment.	
If the refrigerant gas discharges during the repair work, do not touch the discharging refrigerant gas.The refrigerant gas can cause frostbite.	
When disconnecting the suction or discharge pipe of the compressor at the welded section, release the refrigerant gas completely at a well-ventilated place first. If there is a gas remaining inside the compressor, the refrigerant gas or refrigerating machine oil discharges when the pipe is disconnected, and it can cause injury.	
If the refrigerant gas leaks during the repair work, ventilate the area. The refrigerant gas can generate toxic gases when it contacts flames.	
The step-up capacitor supplies high-voltage electricity to the electrical components of the outdoor unit. Be sure to discharge the capacitor completely before conducting repair work.A charged capacitor can cause an electrical shock.	
Do not start or stop the air conditioner operation by plugging or unplugging the power cable plug. Plugging or unplugging the power cable plug to operate the equipment can cause an electrical shock or fire.	

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Warning	
Do not repair the electrical components with wet hands. Working on the equipment with wet hands can cause an electrical shock.	
Do not clean the air conditioner by splashing water. Washing the unit with water can cause an electrical shock.	
Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.	
Be sure to turn off the power switch and unplug the power cable when cleaning the equipment. The internal fan rotates at a high speed, and cause injury.	
Do not tilt the unit when removing it. The water inside the unit can spill and wet the furniture and floor.	
Be sure to check that the refrigerating cycle section has cooled down sufficiently before conducting repair work. Working on the unit when the refrigerating cycle section is hot can cause burns.	
Use the welder in a well-ventilated place. Using the welder in an enclosed room can cause oxygen deficiency.	

1.1.2 Cautions Regarding Products after Repair

Warning	
Be sure to use parts listed in the service parts list of the applicable model and appropriate tools to conduct repair work. Never attempt to modify the equipment. The use of inappropriate parts or tools can cause an electrical shock, excessive heat generation or fire.	
When relocating the equipment, make sure that the new installation site has sufficient strength to withstand the weight of the equipment. If the installation site does not have sufficient strength and if the installation work is not conducted securely, the equipment can fall and cause injury.	
Be sure to install the product correctly by using the provided standard installation frame. Incorrect use of the installation frame and improper installation can cause the equipment to fall, resulting in injury.	For integral units only
Be sure to install the product securely in the installation frame mounted on a window frame. If the unit is not securely mounted, it can fall and cause injury.	For integral units only

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Warning	
Be sure to use an exclusive power circuit for the equipment, and follow the technical standards related to the electrical equipment, the internal wiring regulations and the instruction manual for installation when conducting electrical work. Insufficient power circuit capacity and improper electrical work can cause an electrical shock or fire.	
Be sure to use the specified cable to connect between the indoor and outdoor units. Make the connections securely and route the cable properly so that there is no force pulling the cable at the connection terminals. Improper connections can cause excessive heat generation or fire.	
When connecting the cable between the indoor and outdoor units, make sure that the terminal cover does not lift off or dismount because of the cable. If the cover is not mounted properly, the terminal connection section can cause an electrical shock, excessive heat generation or fire.	
Do not damage or modify the power cable. Damaged or modified power cable can cause an electrical shock or fire. Placing heavy items on the power cable, and heating or pulling the power cable can damage the cable.	
Do not mix air or gas other than the specified refrigerant (R-410A / R22) in the refrigerant system. If air enters the refrigerating system, an excessively high pressure results, causing equipment damage and injury.	
If the refrigerant gas leaks, be sure to locate the leak and repair it before charging the refrigerant. After charging refrigerant, make sure that there is no refrigerant leak. If the leak cannot be located and the repair work must be stopped, be sure to perform pump-down and close the service valve, to prevent the refrigerant gas from leaking into the room. The refrigerant gas itself is harmless, but it can generate toxic gases when it contacts flames, such as fan and other heaters, stoves and ranges.	
When replacing the coin battery in the remote controller, be sure to disposed of the old battery to prevent children from swallowing it. If a child swallows the coin battery, see a doctor immediately.	

Caution	
Installation of a leakage breaker is necessary in some cases depending on the conditions of the installation site, to prevent electrical shocks.	
Do not install the equipment in a place where there is a possibility of combustible gas leaks. If a combustible gas leaks and remains around the unit, it can cause a fire.	
Be sure to install the packing and seal on the installation frame properly. If the packing and seal are not installed properly, water can enter the room and wet the furniture and floor.	For integral units only

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1.1.3 Inspection after Repair

Warning	
Check to make sure that the power cable plug is not dirty or loose, then insert the plug into a power outlet all the way. If the plug has dust or loose connection, it can cause an electrical shock or fire.	
If the power cable and lead wires have scratches or deteriorated, be sure to replace them. Damaged cable and wires can cause an electrical shock, excessive heat generation or fire.	

Warning	
Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances, since it can cause an electrical shock, excessive heat generation or fire.	

Caution	
Check to see if the parts and wires are mounted and connected properly, and if the connections at the soldered or crimped terminals are secure. Improper installation and connections can cause excessive heat generation, fire or an electrical shock.	
If the installation platform or frame has corroded, replace it. Corroded installation platform or frame can cause the unit to fall, resulting in injury.	
Check the grounding, and repair it if the equipment is not properly grounded. Improper grounding can cause an electrical shock.	
Be sure to measure the insulation resistance after the repair, and make sure that the resistance is 1 M ohm or higher. Faulty insulation can cause an electrical shock.	
Be sure to check the drainage of the indoor unit after the repair. Faulty drainage can cause the water to enter the room and wet the furniture and floor.	

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1.1.4 Using Icons

Icons are used to attract the attention of the reader to specific information. The meaning of each icon is described in the table below:

1.1.5 Using Icons List

Icon	Type of Information	Description
Note:	Note	A “note” provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks.
Caution	Caution	A “caution” is used when there is danger that the reader, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.
Warning	Warning	A “warning” is used when there is danger of personal injury.
	Reference	A “reference” guides the reader to other places in this binder or in this manual, where he/she will find additional information on a specific topic.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

2. List of Functions

List of Functions

Category	Functions	HSU-07/09/12LEK03	HSU-07/09/12HEK03
Healthy negative ion	Make your room full of an abundance natural negative ions.	N	N
Left&right flow	With specialized motor and flaps, the airflow can be adjusted .	N	N
Child lock	Avoid the child's wrong operation on the remote controller	Y	Y
3D air flow	The 3D airflow is able to deliver the airflow horizontally and vertically.	N	N
24Hour timer	Use the timer function to set on,or off,or from on to off,or from off to on	Y	Y
Auto restart	Automatic return to previous operation conditions after asundden power blackout	Y	Y
Easy clean design	The panel is easy to wash and the airflow vents can be detached easily	Y	Y
Intelligent air	With single-blade technology ,the airflow can be adjusted not to blow directly	Y	Y
Anti-mold filter	Catches most small particles and remove unpleasant odors effectively.	Y	Y
Sleep mode	The setting temprature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode"during night sleep	Y	Y
4 Fan setting	Select the fan speed LO,MED,HI,AUTO	Y	Y
Entire auto mode	You can set a tempreture value,with which the unit can be adjusted the operation mode automatically	N	N
Auto mode	Adjust the last fixed operation mode automatically.	Y	Y
ESF filter	Trap harmful dust and remove unpleasant odors effectively	N	N
Power mode	Quick cooling or heating	N	N
Soft mode	Lower noise operation condition	N	N
Negative ion filter	Generate negative ions by the filter.	N	N
Constant temperature dehumidification	Make dehumidifying in the room while keeping the constant temperature inside	N	N

Note: Y: Holding Functions
N : No Functions

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

3. Specifications

Model			HSU-07HEK03		HSU-07LEK03
			Cooling	Heating	Cooling
Capacity Rated (Min.~Max.)		kW	2.38	2.65	2.38
		Btu/h	8125.3	9047.1	8125.3
		kcal/h	2406.8	2279	2406.8
NOMINAL DISTRIBUTION SISTEM VOLTAGE	Phase		1PH		1PH
	Frequency	HZ	50		50
	Voltage	V	220V		220V
Moisture Removal		L/h	1.0	—	1.0
Running Current (Rated)		A	4.3	3.6	4.3
Power Consumption Rated (Min.~Max.)		W	900	750	900
Power Factor		%	98	98	98
COP Rated (Min.~Max.)		W/W	2.64	3.53	2.64
Piping Connections	Liquid	mm	φ 6.35		φ6.35
	Gas	mm	φ 9.52		φ6.35
	Drain	mm	φ 16.0		φ16.0
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes
Max. Interunit Piping Length		m	7		7
Max. Interunit Height Difference		m	5		5
Chargeless		m	5		5
Amount of Additional Charge of Refrigerant		g/m	20		20
Indoor Unit					
Front Panel Color			White		White
Air Flow Rate	m³/min(cfm)	H	6.67(235.45)	6.67(235.45)	6.67(235.45)
		M	6.11(215.68)	6.11(215.68)	6.11(215.68)
		L	5.56(196.27)	5.56(196.27)	5.56(196.27)
		SL	—	—	—
Fan	Type		Cross Flow Fan		Cross Flow Fan
	Motor Output	W	15		20
	Speed	Steps	3 Steps, Auto		3 Steps, Auto
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof
Running Current (Rated)		A	0.09	0.09	0.09
Power Consumption (Rated)		W	20	20	20
Temperature Control			Microcomputer Control		Microcomputer Control
Dimensions (H×W×D)		mm	780*182*260		780*182*260
Packaged Dimensions (H×W×D)		mm	856*289*345		856*289*345
Weight		kg	7.6		7.6
Gross Weight		kg	10.1		10.1
OperationSound	H/M/L	dBA	37/33/29	37/33/29	37/33/29
Sound Power	H	dBA	37	37	37

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Outdoor Unit					
Casing Color			White		White
Compressor	Type		Rotary		Rotary
	Model		44R 233CF-5JSC		44R 233CF-5JSC
	Motor Output	W	880		880
RefrigerantOil	Model		SUNISO 4GSD		SUNISO 4GSD
	Charge	L	0.27		0.27
Refrigerant	Model		R22		R22
	Charge	kg	0.55		0.55
Air Flow Rate (H/L)	m³/min		17.0	17.2	17.0
	cfm		600	607	600
Fan	Type		Propeller		Propeller
	Motor Output	W	16		16
Running Current (Rated)		A	4.0	3.32	4.0
Power Consumption (Rated)		W	880	730	880
Power Factor		%	98	98	98
Starting Current		A	21.5		21.5
Dimensions (H×W×D)		mm	700*261*428		700*261*428
Packaged Dimensions (H×W×D)		mm	833*348*490		833*348*490
Weight		kg	25.1		23.5
Gross Weight		kg	29.6		29.6
OperationSound	H/L	dBA	50	50	50
Sound Power	H	dBA	50	50	50

Note: The data are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor ; 27°CDB/19°CWB Outdoor ; 35°CDB/24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB/6°CWB	5 m

Conversion Formulae
kcal/h=kW×860
Btu/h=kW×3414
cfm=m³/min×35.3

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Model			HSU-09HEK03		HSU-12HEK03	
			Cooling	Heating	Cooling	Heating
Capacity Rated (Min.~Max.)		kW	2.5	2.75	3.5	3.8
		Btu/h	8535	9388.5	11949	12973.2
		kcal/h	2150	2365	3010	3268
NOMINAL DISTRIBUTION SISTEM VOLTAGE	Phase		1PH		1PH	
	Frequency	HZ	50		50	
	Voltage	V	220V		220V	
Moisture Removal		L/h	1.2	—	1.6	—
Running Current (Rated)		A	4.5	3.9	5.9	6.1
Power Consumption Rated (Min.~Max.)		W	940	850	1250	1280
Power Factor		%	98	98	98	98
COP Rated (Min.~Max.)		W/W	2.66	3.24	2.80	2.97
Piping Connections	Liquid	mm	φ 6.35		φ6.35	
	Gas	mm	φ 9.52		φ12.7	
	Drain	mm	φ 16.0		φ16.0	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Max. Interunit Piping Length		m	7		10	
Max. Interunit Height Difference		m	5		5	
Chargeless		m	5		5	
Amount of Additional Charge of Refrigerant		g/m	20		20	
Indoor Unit						
Front Panel Color			White		White	
Air Flow Rate	m³/min(cfm)	H	6.67(235.45)	6.67(235.45)	9.17(325.54)	9.17(325.54)
		M	6.11(215.68)	6.11(215.68)	8.17(288.4)	8.17(288.4)
		L	5.56(196.27)	5.56(196.27)	7.10(250.63)	7.10(250.63)
		SL	—	—	—	—
Fan	Type		Cross Flow Fan		Cross Flow Fan	
	Motor Output	W	15		20	
	Speed	Steps	3 Steps, Auto		3 Steps, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable / Washable / Mildew Proof		Removable / Washable / Mildew Proof	
Running Current (Rated)		A	0.09	0.09	0.11	0.11
Power Consumption (Rated)		W	20	20	25	25
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H×W×D)		mm	780*182*260		780*182*260	
Packaged Dimensions (H×W×D)		mm	856*289*345		856*289*345	
Weight		kg	7.6		8.8	
Gross Weight		kg	10.1		11.3	
OperationSound	H/M/L	dBA	37/33/29	37/33/29	39/35/31	39/35/31
Sound Power	H	dBA	37	37	39	39

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Outdoor Unit						
Casing Color			White		White	
Compressor	Type		Hermetic motor Compressor		Hermetic motor Compressor	
	Model		44R 233CF-5JSC		48R313NL-5ESF	
	Motor Output	W	880		1230	
RefrigerantOil	Model		SUNISO 4GSD		SUNISO 4GSD	
	Charge	L	0.27		0.41	
Refrigerant	Model		R22		R22	
	Charge	kg	0.55		1.06	
Air Flow Rate (H/L)	m³/min		17.0	17.2	17.5	17.7
	cfm		600	607	618	625
Fan	Type		Propeller		Propeller	
	Motor Output	W	16		27	
Running Current (Rated)		A	4.18	3.77	5.57	5.70
Power Consumption (Rated)		W	920	830	1225	1255
Power Factor		%	98	98	98	98
Starting Current		A	21.5		34	
Dimensions (H×W×D)		mm	700*261*428		700*261*428	
Packaged Dimensions (H×W×D)		mm	833*348*490		833*348*490	
Weight		kg	25.1		30.6	
Gross Weight		kg	29.6		35.1	
OperationSound	H/L	dBA	50	50	52	52
Sound Power	H	dBA	50	50	52	52

Note: The data are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor ; 27°CDB/19°CWB Outdoor ; 35°CDB/24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB/6°CWB	5 m

Conversion Formulae
kcal/h=kW×860
Btu/h=kW×3414
cfm=m³/min×35.3

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Model			HSU-09LEK03	HSU-12LEK03
			Cooling	Cooling
Capacity Rated (Min.~Max.)		kW	2.5	3.5
		Btu/h	8535	11949
		kcal/h	2150	3010
NOMINAL DISTRIBUTION SISTEM VOLTAGE	Phase		1PH	1PH
	Frequency	HZ	50	50
	Voltage	V	220V	220V
Moisture Removal		L/h	1.2	1.6
Running Current (Rated)		A	4.5	5.9
Power Consumption Rated (Min.~Max.)		W	940	1250
Power Factor		%	98	98
COP Rated (Min.~Max.)		W/W	2.66	2.8
Piping Connections	Liquid	mm	φ 6.35	φ 6.35
	Gas	mm	φ 9.52	φ 12.7
	Drain	mm	φ16.0	φ16.0
Heat Insulation			Both Liquid and Gas Pipes	Both Liquid and Gas Pipes
Max. Interunit Piping Length		m	7	10
Max. Interunit Height Difference		m	5	5
Chargeless		m	5	5
Amount of Additional Charge of Refrigerant		g/m	20	20
Indoor Unit				
Front Panel Color			White	White
Air Flow Rate	m^3/min(cfm)	H	6.67(235.45)	9.17(325.54)
		M	6.11(215.68)	8.17(288.4)
		L	5.56(196.27)	7.10(250.63)
		SL	—	—
Fan	Type		Cross Flow Fan	Cross Flow Fan
	Motor Output	W	15	20
	Speed	Steps	3 Steps, Auto	3 Steps, Auto
Air Direction Control			Right, Left, Horizontal, Downward	Right, Left, Horizontal, Downward
Air Filter			Removable / Washable / Mildew Proof	Removable / Washable / Mildew Proof
Running Current (Rated)		A	0.09	0.11
Power Consumption (Rated)		W	20	25
Power Factor		%	98	98
Temperature Control			Microcomputer Control	Microcomputer Control
Dimensions (H×W×D)		mm	780*182*260	780*182*260
Packaged Dimensions (H×W×D)		mm	856*289*345	856*289*345
Weight		kg	7.6	8.8
Gross Weight		kg	10.1	11.3
OperationSound	H/M/L	dBA	37/33/29	39/35/31
Sound Power	H	dBA	37	39

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Outdoor Unit				
Casing Color			White	White
Compressor	Type		Rotary	Rotary
	Model		44R233CF-5JSC	48R313NL-5ESF
	Motor Output	W	880	1230
RefrigerantOil	Model		SUNISO 4GSD	SUNISO 4GSD
	Charge	L	0.27	0.41
Refrigerant	Model		R22	R22
	Charge	kg	0.43	0.79
Air Flow Rate (L)	m³/min		17.0	17.5
	cfm		600	618
Fan	Type		Propeller	Propeller
	Motor Output	W	16	27
Running Current (Rated)		A	4.18	5.57
Power Consumption (Rated)		W	920	1225
Power Factor		%	98	98
Starting Current		A	21.5	34
Dimensions (H×W×D)		mm	700*261*428	700*261*428
Packaged Dimensions (H×W×D)		mm	833*348*490	833*348*490
Weight		kg	23.5	29.2
Gross Weight		kg	28	33.7
OperationSound	H/L	dBA	50	52
Sound Power	H	dBA	50	52

Note: The data are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor ; 27°CDB/19°CWB Outdoor ; 35°CDB/24°CWB	Indoor ; 20°CDB Outdoor ; 7°CDB/6°CWB	5 m

Conversion Formulae
kcal/h=kW×860
Btu/h=kW×3414
cfm=m³/min×35.3

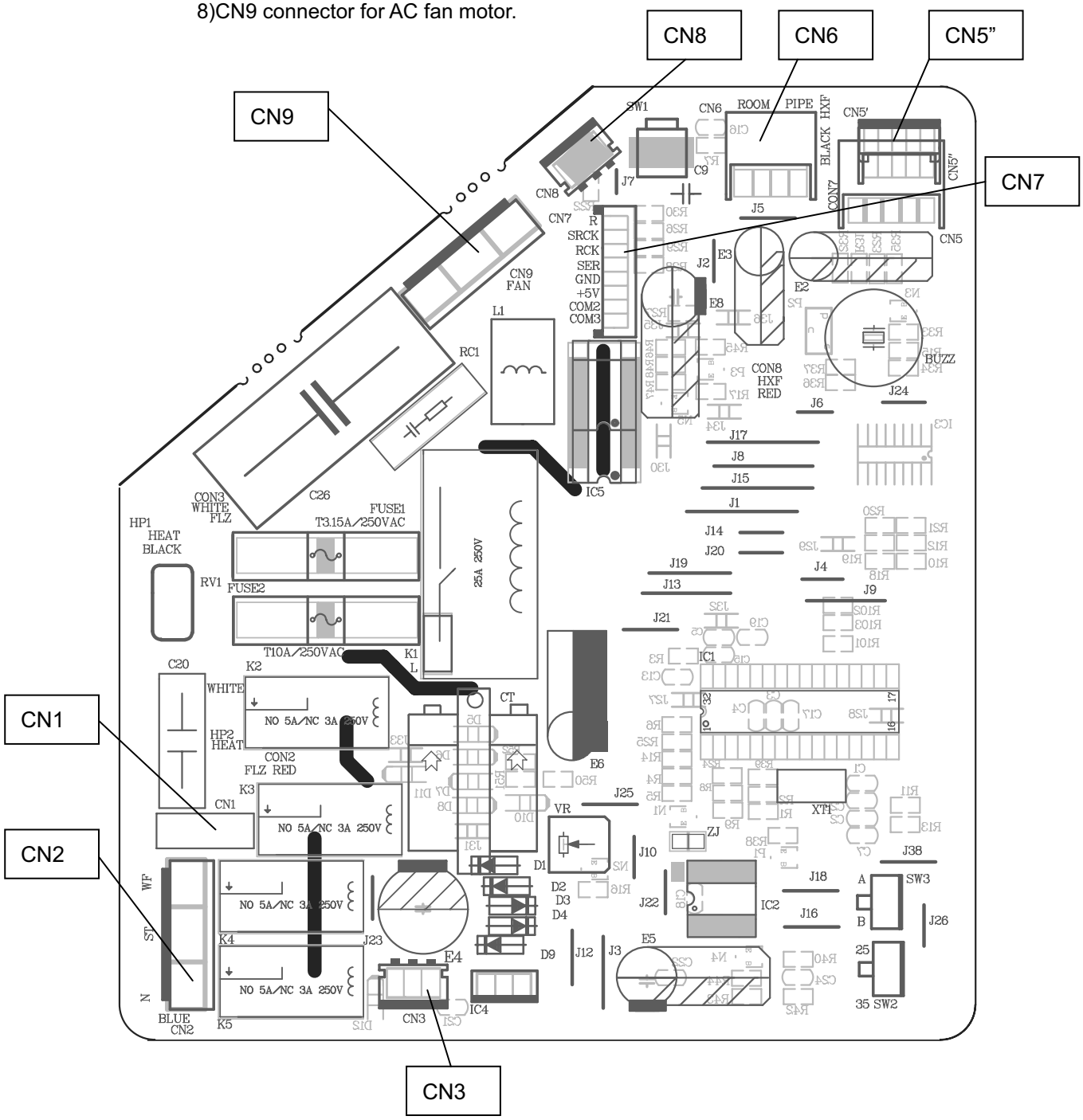
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

4.Printed Circuit Board Connector Wiring Diagram

4.1 Indoor unit

Connectors Indoor PCB

1)CN1 connector for transformer.
2)CN2 connector for power line N.
3)CN3 connector for transformer.
4)CN5” connector for up and down step motor.
5)CN6 connector for ambient temp. sensor and piping temp.sensor.
6)CN7 connector for receiver display.
7)CN8 connector for AC fan feedback motor.
8)CN9 connector for AC fan motor.



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

5. Functions and control

5.1 main functions and control specifications

Including brief introduction to air conditioners of series models and electric control function.

5.1.1 Automatic running

5.1.1.1 Automatic running mode

When the running mode is turned to automation after starting the system, the system will first determine the running mode according to the current room temperature and then will run according to the determined mode. **Tr** in the following selection conditions means room temperature, **Ts** means setting temperature, **Tp** means temperature of indoor coil pipe

a. Tr≥23℃ running cooling mode

b. Tr<23℃ running heating mode

After turning to the automation mode, the running mode can be switched between cooling mode, fan mode and heating mode according to the change of the indoor ambient temperature. But the automatic conversion between cooling mode and heating mode must be conducted after 15 minutes.

5.1.1.2 Single cold automatic run mode:

After entering into this mode, the main control “MCU” determines the corresponding work pattern according to the indoor temperature so as to maintain the preset temperature (the preset temperature is 26℃). When the indoor temperature is below 26℃, outlet air from compressor is off, the automatic wind from fan motor is low, and wind can be set to high, medium or low by hand. When the indoor temperature is or above 26℃, the unit enters the cooling mode and conducts the cooling programme (the preset temperature is 26℃), outlet air from compressor is on and indoor fan motor run in fixed wind speed.

5.1.2 Indoor temperature control

Temperature control range : 16℃-30℃

Temperature control precision: ±1℃

Compressor can’t be controlled by temperature sensor within 2 minutes after it starts

5.1.2.1 Cooling mode:

When Tr> Ts, outdoor fan motor and compressor on, and indoor fan motor run at fixed wind speed. When Tr < Ts, outdoor fan motor and compressor off, and when Tr > Ts, outdoor fan motor and compressor are working again .If Tr=Ts, the indoor fan motor , outdoor fan motor and the compressor’s state will not change.

5.1.2.2 Heating mode:

When Tr ≤ Ts, compressor, four-ways valve and outdoor fan motor is on, indoor fan motor runs as in cold blast avoidance mode, and 4℃of compensation is added after compressor is started.

When Tr>Ts+5℃, compressor is off, and the indoor fan motor runs as in cold blast avoidance mode.

When Tr<Ts+5℃, compressor, four-ways valve and outdoor fan motor is on, and the indoor fan motor runs as in the mode of avoiding cold blast.

5.1.3 Cooling run mode:

temperature control range :16℃-30℃

temperature control precision: ±1℃

compressor can’t be controlled by temperature sensor within 2 minutes after it starts.

control character: when Tr ≥ Ts, outlet air from compressor is on and indoor fan motor run at fixed wind speed. When Tr< Ts, outlet air from compressor is off , and when Tr > Ts, outlet air from compressor is on.

wind speed control: (the temperature difference is 1℃)

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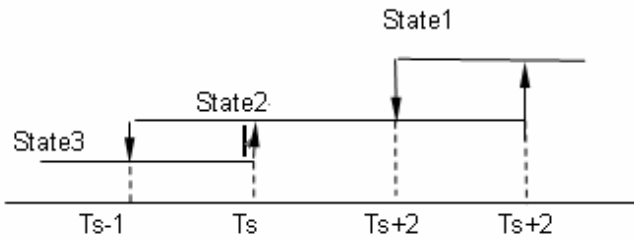
auto: when Tr>=Ts+3℃, the wind speed is high;
When Ts+1℃≤Tr≤Ts+3℃, the wind speed is medium.
When Tr≤Ts+1℃, the wind speed is low.
When temperature sensor is off, the fan motor runs at low speed.
when the wind speed changes from low to high, there is no delay, and when it changes from high to low, there is a 3-minutes delay before conversion.
Manual operation:When unit is on the wind speed can be set to high, medium, low or automatic as required (execute instruction 2 seconds later after receiving remote signal)
Compressor control：The compressor can't be controlled by temperature sensor within 2 minutes after start up and can be only restarted at least 3 minutes later after shutdown. There is no 3-minute protection with power on for the first time (over 3 minutes with power off). The compressor must stands by for 3 minutes before it is restarted after shut down.
There is no 2-minute limit when changing the temperature setting or shutting down the machine through the remote controller, and the machine can be shut down immediately.
Avoiding electrical shock: outlet air is available 2 seconds later after startup.
High temperature expiration protection:
High temperature expiration prevention:When the temp.of coil pipe is above 72℃,compressor and outlet air stop running 10 seconds later, and inlet air runs as the temp. sensor is off. When compressor stands by for 3 minute and the temp. of coil pipe is below 65℃, the unit can be started again.
Protection of frost is available (disable in test run or heating mode): In order to prevent the indoor heat exchanger from freezing (in refrigation or dehumidifying mode), the compressor will be shut off when the temperature of the indoor coil pipe is or below 0℃ and the compressor runs for over 5 minutes. When the temperature of the indoor coil pipe ascends to over 7℃, the compressor is restarted (must meet a 3-minutes delay)
Timer on, Timer off and sleep control are available.

5.1.4 Dehumidifying mode：

Temperature control range : 16℃-30℃
Control character:
When Tr >Ts+2℃, compressor and outdoor fan motor run continuosly with indoor fan motor runnig in accordance with the wind speed setting(State 1).
When Ts ≤ Tr ≤ Ts +2℃, outlet air from compressor is on for 10 minutes and off for 6 minutes, the indoor fan motor is off in 3 minutes after shut down of compressor and gives breeze in other time(State 2).
When Tr < Ts, outlet air from compressor is unavailable, and the indoor fan motor enter breeze mode 3 minutes later after shut down of compressor(State 3).



When all the ranges alternate, there is ±1℃ difference.

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5.1.5 Heating mode: (cooling only have no the mode)

*Temperature control range : 16℃-30℃

*Temperature control precision: ±1℃

*Control Character:

When Tr ≤ Ts, compressor, four-ways valve and outdoor fan motor is on, indoor fan motor runs as in cold blast mode, and 5℃ of compensation is added after compressor is started.

When Tr >Ts+5℃, compressor is off, and the indoor fan motor runs as in warm blast mode.

When Tr <Ts+5℃, compressor, four-ways valve and outdoor fan motor is on, and the indoor fan motor runs as in the mode of avoiding cold blast.

*Control of indoor fan motor:

Manual operation: The wind speed can be set to high, medium, low or automatic as required.

Automatic operation: When Tr < Ts, the wind speed is high;

When Ts ≤ Tr ≤ Ts+2℃, the wind speed is medium.

When Ts+2℃ ≤ Tr, the wind speed is low.

*Control of air door: setting the position of air door as required.

*Compressor control： The compressor can't be controlled by temperature sensor in 2 minutes after start up and also can't be started again at least 3 minutes later after shut down. There are 3-minute protection with power on for the first time (over 3 minutes with power off). The compressor must be started again 3 minutes later after shut down.

*Avoiding electrical shock: outlet air is available 2 seconds later after start up.

*Timer on, Timer off and sleep control are available.

*Control of 4-way valve: When the unit is started for the first time, the 4-way valve starts runnig 10 seconds earlier than compressor does. After compressor stops runnig, the 4-way valve continues running for 2 minutes and then stops. If changing the unit from heating to cooling, the 4-way valve is shut off 2 minutes later and compressor is started 3 minutes later.

5.1.5.1 Cold draft prevention:

5.1.5.1.1 Compressor is interrupted during the defrosting operation and continues to run after defrosting is completed. When the indoor exchanging temperature is below 23℃, the indoor fan motor is off. When the indoor exchanging temperature is above 23℃, the indoor fan motor is running at weak speed.

5.1.5.1.2 If the temperature of coil pipe can't be above 38℃ 4 minutes later after start up, fan motor is running at the preset wind speed.

5.1.5.1.3 If the temperature of coil pipe is above 38℃ 4 minutes later after start up, fan motor is running at the preset wind speed.

5.1.5.1.4 If coil pipe descends to the temp. lower than 38℃ from 38℃. fan motor is running at the preset wind speed.

*Warm blast: If the temperature sensor is off. Compressor stops runnig. If the temperature of coil pipe is above 23℃, fan motor enter breeze mode; and if the temperature of coil pipe is below 20℃, fan motor stops running.

5.1.5.2 High temperature protection and high temperature expiration protection:

5.1.5.2.1 High temperature prevention: When the temp. of coil pipe is above 58℃, the outdoor fan motor stops.When the temp descends to 53℃, the outdoor fan motor is restarted and fan speed invertage frequence is more than 45 seconds.

5.1.5.2.2 High temperature expiration prevention:When the temp.of coil pipe is above 72℃,compressor and outlet air stop running 10 seconds later, and inlet air runs as the temp. sensor is off. When compressor stands by for 3 minute and the temp. of coil pipe is below 65℃, the unit can be started again.

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*Overcooling protection: One and half a minutes later after compressor starts, if the temperature of coil pipe is below -4℃, compressor and air outlet stop, and air inlet runs according to the temp. setting. Compressor can be restarted 3 minutes later.

5.1.5.3 Defrosting:

5.1.5.3.1 Entry conditions of defrosting:

The entry conditions of defrosting is classified into two types: intelligentized defrosting and sensor defrosting. Through selecting and judging, the models without outdoor sensor defrosts according to intelligentized defrosting, and others with ensor defrosts according to sensor defrosting.

Intelligentized defrosting:

①Indoor unit enter overload protection and air outlet stops when air outlet has been restarted and runs over 10 minutes, and compressor runs over 45 minutes in total and over 20 minutes continuously, and the temp. of indoor coil pipe is below 41℃.

②Compressor runs20minutes continuously, and the temp. of indoor coil pipe decreases 1℃ per 6 minutes and this operation repeats 3 times, and the temp. of coil pipe is below 41℃, and 5 minutes later after compressor is restarted.

③When compressor runs over 3 hours in total and over 20 minutes continuously and after the temp. of indoor coil pipe is below 41℃, the system enters defrosting mode.

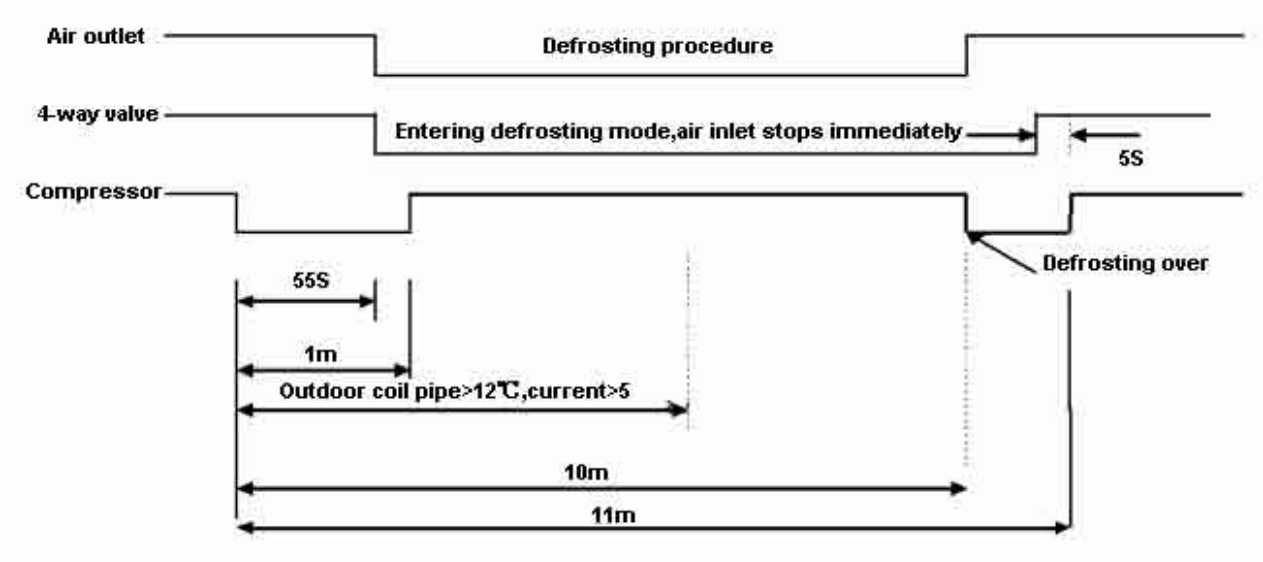
④The difference between the temp. of indoor coil pipe and the indoot temp. is below 12℃ and lasts 5 minutes, compressor runs over 45 minutes in total and over 20 minutes continuously after the temp. of indoor coil pipe is below 41℃, the system enters defrosting mode.

5.1.5.3.2 Exit conditions of defrosting:

Defrosting time is higher than 9 minutes (compressor is on).

①During the defrosting and 2 minutes After quiting the defrosting mode, abnormality of temp. sensor isn't detected.

②After quiting the defrosting mode, the fan motor enter cooling prevention mode.



5.1.6 Timer function:

You can set 24-hour timer on or timer off as required, and the minum time unit is 1 minute. After setting, the indicator of indoor unit is on , and it is off when timer setting is completed. There are several timer mode as follows.

5.1.6.1 Timer on: The LED of "timer on" lights up, and unit behaves with halt status. Timer on is completed, and then unit starts running with the LED of "timer on" off. The unit starts with the the last setting receiving timer signals, and sleep setting is not allowed.

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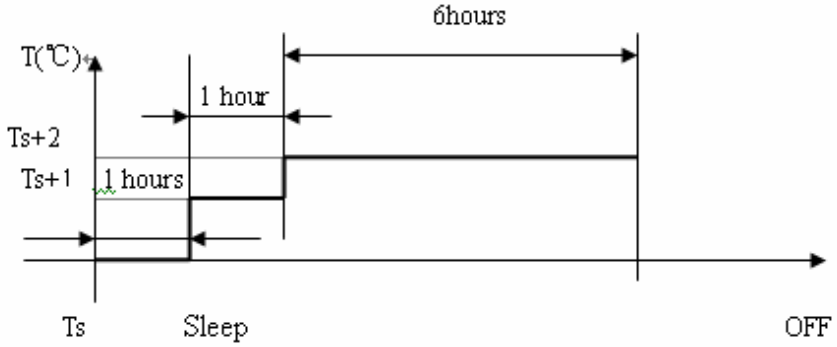
5.1.6.2 Timer off: Unit starts, timer indicator lights up; When reaching time setting, the indicator goes out, unit enters shut down mode, and sleep function can be set. If timer off and sleep are set synchronously, the one which time is short run first. Executing shutdown instruction clear timer and sleep function.

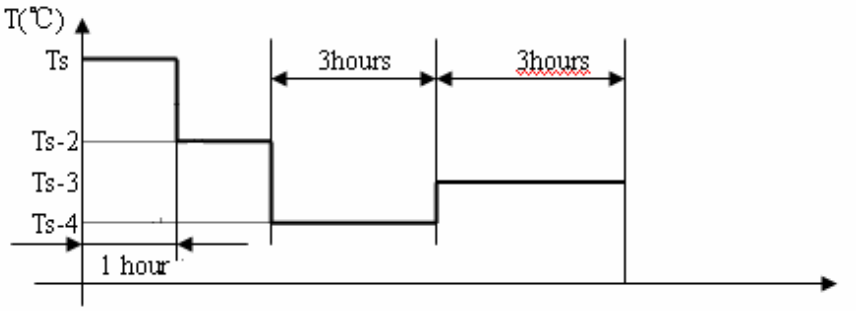
5.1.6.3 Timer on and timer off can be set synchronously.

5.1.7 Sleep function: the timer indicator lights up.

5.1.7.1 In cooling/defrosting mode, the temp. setting increases 1℃ one hour later after start up. After another hour the temp. setting increase by more 1℃ and then run continuously for another 6 hours and then close.



5.1.7.2 In heating mode, the temp. setting decrease 2℃ one hour after start up. After another hour the temp. setting decrease by more 2℃. After 3 hours the temp. setting rise by 1℃and then run continuously for another 3 hours and then close.



5.1.7.3 If the wind speed is set to high before going to bed, the wind speed become medium after start up; If the wind speed is set to medium before going to bed, the wind speed become low after start up; If the wind speed is set to low before going to bed, the wind speed keep unchanged.

5.1.8 Emergency switch input:

5.1.8.1 Press the switch of emergency operation, then buzzer rings once and unit enters the automatic operation mode. (emergency operation)

5.1.8.2 If the switch is kept pressed for 5 seconds, buzzer ring two times and unit enter enter test run mode.

5.1.8.3 Press the switch again, and then closes.

5.1.8.4 Enter emergency operation from timer mode, then timer is cancelled.

5.1.9 Test run:

5.1.9.1 The temperature sensor of inlet air doesn't work, and compressor starts (but subject to the limit of -minute delay excluding the first time), and high wind, cooling, and air door is open.The indoor fan motor runs, running indicator lights up, compressor relay and the one of outdoor fan motor is closed

5.1.9.2 During test run:

The prevention of freezing of evaporator doesn't work.

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Temperature control doesn't work.

Temperature expiration control doesn't work.

5.1.10 The memory function of power down

is available, and the auto recovery function of power on is optional. (In auto, heating, cooling, or defrosting status, press the "sleeping" button 10 times within 5 seconds, and the auto recovery function of power on can be set on/off. If the buzzer rings 4 times, the the auto recovery function of power on is available; If the buzzer rings 2 times, the the auto recovery function of power on is unavailable.)

If there is no EEPROM, the unit is taken off the 'off' function of the memory function of power down. But the memory function of power down can also be set on/off, and the data is the default value of chip.

5.1.11 Alarm from indoor fan motor:

2 minutes later after the indoor fan motor is charged, and the impulse from fan motor is not detected, hen send alarm signals.

5.2 Value of Thermistor

5.2.1 Indoor unit

Room sensor

R25℃=23KΩ±3.5%

B25℃/50℃=4200K±3%

Temp.(℃)	Max.(KΩ)	Normal(KΩ)	Min.(KΩ)	Tolerance(℃)	
-30	568.8372	501.0746	440.8435	-1.97	1.75
-29	530.9600	468.6491	413.1441	-1.95	1.74
-28	495.8488	438.5314	387.3645	-1.93	1.72
-27	463.2850	410.5433	363.3602	-1.91	1.71
-26	433.0683	384.5212	340.9980	-1.90	1.70
-25	405.0156	360.3153	320.1558	-1.88	1.69
-24	378.9588	337.7879	300.7211	-1.86	1.67
-23	354.7440	316.8126	282.5905	-1.84	1.66
-22	332.2300	297.2732	265.6686	-1.82	1.64
-21	311.2873	279.0627	249.8676	-1.80	1.63
-20	291.7969	262.0831	235.1067	-1.78	1.62
-19	273.6494	246.2437	221.3111	-1.76	1.60
-18	256.7445	231.4612	208.4122	-1.74	1.59
-17	240.9897	217.6590	196.3462	-1.72	1.57
-16	226.3000	204.7662	185.0545	-1.70	1.56
-15	212.5973	192.7176	174.4829	-1.68	1.54
-14	199.8093	181.4531	164.5813	-1.66	1.53
-13	187.8698	170.9169	155.3033	-1.64	1.51
-12	176.7176	161.0578	146.6059	-1.62	1.49
-11	166.2961	151.8284	138.4495	-1.60	1.48
-10	156.5532	143.1847	130.7973	-1.58	1.46
-9	147.4409	135.0863	123.6153	-1.56	1.44

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-8	138.9148	127.4956	116.8717	-1.53	1.43
-7	130.9337	120.3778	110.5374	-1.51	1.41
-6	123.4597	113.7009	104.5852	-1.49	1.39
-5	116.4577	107.4349	98.9897	-1.47	1.38
-4	109.8953	101.5523	93.7278	-1.45	1.36
-3	103.7422	96.0274	88.7774	-1.43	1.34
-2	97.9708	90.8365	84.1185	-1.40	1.32
-1	92.5551	85.9574	79.7322	-1.38	1.30
0	87.4712	81.3697	75.6011	-1.36	1.29
1	82.6970	77.0544	71.7088	-1.34	1.27
2	78.2118	72.9937	68.0402	-1.31	1.25
3	73.9966	69.1712	64.5813	-1.29	1.23
4	70.0335	65.5716	61.3188	-1.27	1.21
5	66.3062	62.1807	58.2405	-1.24	1.19
6	62.7992	58.9853	55.3351	-1.22	1.17
7	59.4984	55.9729	52.5917	-1.20	1.15
8	56.3905	53.1320	50.0006	-1.17	1.13
9	53.4631	50.4521	47.5523	-1.15	1.11
10	50.7048	47.9230	45.2384	-1.13	1.09
11	48.1049	45.5355	43.0505	-1.10	1.07
12	45.6534	43.2808	40.9813	-1.08	1.04
13	43.3410	41.1509	39.0236	-1.05	1.02
14	41.1592	39.1381	37.1708	-1.03	1.00
15	39.0998	37.2355	35.4167	-1.00	0.98
16	37.1553	35.4363	33.7555	-0.98	0.96
17	35.3186	33.7344	32.1818	-0.95	0.94
18	33.5833	32.1240	30.6905	-0.93	0.91
19	31.9432	30.5997	29.2769	-0.90	0.89
20	30.3925	29.1565	27.9365	-0.88	0.87
21	28.9259	27.7895	26.6651	-0.85	0.84
22	27.5383	26.4944	25.4589	-0.83	0.82
23	26.2252	25.2670	24.3140	-0.80	0.80
24	24.9822	24.1034	23.2271	-0.78	0.77
25	23.8050	23.0000	22.1950	-0.78	0.77
26	22.7500	21.9499	21.1520	-0.78	0.78
27	21.7477	20.9536	20.1638	-0.82	0.81
28	20.7951	20.0081	19.2272	-0.86	0.85
29	19.8895	19.1104	18.3394	-0.89	0.88
30	19.0285	18.2581	17.4974	-0.93	0.92
31	18.2094	17.4484	16.6988	-0.97	0.95
32	17.4302	16.6792	15.9410	-1.00	0.99
33	16.6885	15.9480	15.2217	-1.04	1.02
34	15.9825	15.2530	14.5389	-1.08	1.06
35	15.3103	14.5920	13.8903	-1.12	1.09
36	14.6700	13.9632	13.2743	-1.16	1.13

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

37	14.0599	13.3650	12.6889	-1.20	1.16
38	13.4786	12.7957	12.1325	-1.23	1.20
39	12.9244	12.2537	11.6035	-1.27	1.24
40	12.3960	11.7375	11.1004	-1.31	1.27
41	11.8921	11.2459	10.6218	-1.35	1.31
42	11.4113	10.7775	10.1665	-1.39	1.34
43	10.9526	10.3311	9.7330	-1.43	1.38
44	10.5147	9.9056	9.3204	-1.48	1.42
45	10.0967	9.4999	8.9275	-1.52	1.45
46	9.6976	9.1130	8.5532	-1.56	1.49
47	9.3163	8.7439	8.1965	-1.60	1.53
48	8.9521	8.3916	7.8566	-1.64	1.57
49	8.6040	8.0554	7.5327	-1.68	1.60
50	8.2713	7.7345	7.2237	-1.73	1.64
51	7.9531	7.4280	6.9291	-1.77	1.68
52	7.6489	7.1353	6.6480	-1.81	1.72
53	7.3580	6.8556	6.3797	-1.85	1.76
54	7.0796	6.5884	6.1237	-1.90	1.79
55	6.8131	6.3329	5.8793	-1.94	1.83
56	6.5581	6.0887	5.6459	-1.99	1.87
57	6.3140	5.8552	5.4230	-2.03	1.91
58	6.0802	5.6318	5.2100	-2.07	1.95
59	5.8563	5.4181	5.0065	-2.12	1.99
60	5.6417	5.2136	4.8120	-2.16	2.03
61	5.4361	5.0178	4.6260	-2.21	2.07
62	5.2391	4.8304	4.4481	-2.25	2.11
63	5.0502	4.6510	4.2780	-2.30	2.15
64	4.8691	4.4791	4.1153	-2.35	2.19
65	4.6954	4.3145	3.9596	-2.39	2.23
66	4.5287	4.1567	3.8105	-2.44	2.27
67	4.3689	4.0055	3.6678	-2.49	2.31
68	4.2154	3.8605	3.5312	-2.53	2.35
69	4.0682	3.7216	3.4004	-2.58	2.39
70	3.9268	3.5883	3.2750	-2.63	2.43
71	3.7910	3.4605	3.1549	-2.68	2.48
72	3.6606	3.3378	3.0398	-2.73	2.52
73	3.5353	3.2201	2.9294	-2.77	2.56
74	3.4150	3.1072	2.8237	-2.82	2.60
75	3.2993	2.9987	2.7222	-2.87	2.64
76	3.1881	2.8946	2.6249	-2.92	2.68
77	3.0812	2.7946	2.5316	-2.97	2.73
78	2.9785	2.6986	2.4420	-3.02	2.77
79	2.8796	2.6063	2.3560	-3.07	2.81
80	2.7845	2.5176	2.2735	-3.12	2.86
81	2.6931	2.4324	2.1943	-3.17	2.90

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

82	2.6050	2.3505	2.1182	-3.22	2.94
83	2.5203	2.2717	2.0451	-3.28	2.99
84	2.4388	2.1960	1.9749	-3.33	3.03
85	2.3602	2.1231	1.9075	-3.38	3.07
86	2.2846	2.0530	1.8426	-3.43	3.12
87	2.2118	1.9856	1.7803	-3.48	3.16
88	2.1416	1.9207	1.7204	-3.54	3.20
89	2.0740	1.8582	1.6628	-3.59	3.25
90	2.0089	1.7981	1.6074	-3.64	3.29
91	1.9461	1.7402	1.5541	-3.70	3.34
92	1.8856	1.6844	1.5028	-3.75	3.38
93	1.8272	1.6307	1.4535	-3.80	3.43
94	1.7709	1.5789	1.4060	-3.86	3.47
95	1.7166	1.5291	1.3603	-3.91	3.52
96	1.6643	1.4810	1.3163	-3.97	3.56
97	1.6138	1.4347	1.2739	-4.02	3.61
98	1.5650	1.3900	1.2331	-4.08	3.66
99	1.5180	1.3470	1.1937	-4.13	3.70
100	1.4726	1.3054	1.1559	-4.19	3.75
101	1.4287	1.2654	1.1194	-4.24	3.80
102	1.3864	1.2268	1.0842	-4.30	3.84
103	1.3455	1.1895	1.0503	-4.36	3.89
104	1.3060	1.1535	1.0176	-4.42	3.94
105	1.2679	1.1188	0.9860	-4.47	3.98
106	1.2310	1.0853	0.9556	-4.53	4.03
107	1.1954	1.0529	0.9263	-4.59	4.08
108	1.1610	1.0217	0.8980	-4.65	4.13
109	1.1277	0.9915	0.8707	-4.70	4.17
110	1.0955	0.9624	0.8443	-4.76	4.22
111	1.0644	0.9342	0.8189	-4.82	4.27
112	1.0344	0.9070	0.7943	-4.88	4.32
113	1.0053	0.8807	0.7706	-4.94	4.37
114	0.9771	0.8553	0.7478	-5.00	4.41
115	0.9499	0.8307	0.7256	-5.06	4.46
116	0.9235	0.8070	0.7043	-5.12	4.51
117	0.8980	0.7840	0.6837	-5.18	4.56
118	0.8734	0.7618	0.6637	-5.24	4.61
119	0.8495	0.7404	0.6445	-5.30	4.66
120	0.8263	0.7196	0.6258	-5.36	4.71

Pipe Sensor

R25℃=10KΩ±3%

B25℃/50℃=3700K±3%

Temp.((℃))	Max.(KΩ)	Normal(KΩ)	Min.(KΩ)	Tolerance(℃)	
-30	165.2170	147.9497	132.3678	-1.94	1.75

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

-29	155.5754	139.5600	125.0806	-1.93	1.74
-28	146.5609	131.7022	118.2434	-1.91	1.73
-27	138.1285	124.3392	111.8256	-1.89	1.71
-26	130.2371	117.4366	105.7989	-1.87	1.70
-25	122.8484	110.9627	100.1367	-1.85	1.69
-24	115.9272	104.8882	94.8149	-1.83	1.67
-23	109.4410	99.1858	89.8106	-1.81	1.66
-22	103.3598	93.8305	85.1031	-1.80	1.64
-21	97.6556	88.7989	80.6728	-1.78	1.63
-20	92.3028	84.0695	76.5017	-1.76	1.62
-19	87.2775	79.6222	72.5729	-1.74	1.60
-18	82.5577	75.4384	68.8710	-1.72	1.59
-17	78.1230	71.5010	65.3815	-1.70	1.57
-16	73.9543	67.7939	62.0907	-1.68	1.55
-15	70.0342	64.3023	58.9863	-1.66	1.54
-14	66.3463	61.0123	56.0565	-1.64	1.52
-13	62.8755	57.9110	53.2905	-1.62	1.51
-12	59.6076	54.9866	50.6781	-1.60	1.49
-11	56.5296	52.2278	48.2099	-1.58	1.47
-10	53.6294	49.6244	45.8771	-1.56	1.46
-9	50.8956	47.1666	43.6714	-1.54	1.44
-8	48.3178	44.8454	41.5851	-1.51	1.42
-7	45.8860	42.6525	39.6112	-1.49	1.40
-6	43.5912	40.5800	37.7429	-1.47	1.39
-5	41.4249	38.6207	35.9739	-1.45	1.37
-4	39.3792	36.7676	34.2983	-1.43	1.35
-3	37.4465	35.0144	32.7108	-1.41	1.33
-2	35.6202	33.3552	31.2062	-1.38	1.31
-1	33.8936	31.7844	29.7796	-1.36	1.29
0	32.2608	30.2968	28.4267	-1.34	1.28
1	30.7162	28.8875	27.1431	-1.32	1.26
2	29.2545	27.5519	25.9250	-1.29	1.24
3	27.8708	26.2858	24.7686	-1.27	1.22
4	26.5605	25.0851	23.6704	-1.25	1.20
5	25.3193	23.9462	22.6273	-1.23	1.18
6	24.1432	22.8656	21.6361	-1.20	1.16
7	23.0284	21.8398	20.6939	-1.18	1.14
8	21.9714	20.8659	19.7982	-1.15	1.12
9	20.9688	19.9409	18.9463	-1.13	1.09
10	20.0176	19.0621	18.1358	-1.11	1.07
11	19.1149	18.2270	17.3646	-1.08	1.05
12	18.2580	17.4331	16.6305	-1.06	1.03
13	17.4442	16.6782	15.9315	-1.03	1.01
14	16.6711	15.9601	15.2657	-1.01	0.99
15	15.9366	15.2770	14.6315	-0.98	0.96

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

16	15.2385	14.6268	14.0271	-0.96	0.94
17	14.5748	14.0079	13.4510	-0.93	0.92
18	13.9436	13.4185	12.9017	-0.91	0.90
19	13.3431	12.8572	12.3778	-0.88	0.87
20	12.7718	12.3223	11.8780	-0.86	0.85
21	12.2280	11.8126	11.4011	-0.83	0.83
22	11.7102	11.3267	10.9459	-0.81	0.80
23	11.2172	10.8634	10.5114	-0.78	0.78
24	10.7475	10.4216	10.0964	-0.75	0.75
25	10.3000	10.0000	9.7000	-0.75	0.75
26	9.8975	9.5974	9.2980	-0.76	0.76
27	9.5129	9.2132	8.9148	-0.80	0.80
28	9.1454	8.8465	8.5496	-0.84	0.83
29	8.7942	8.4964	8.2013	-0.87	0.86
30	8.4583	8.1621	7.8691	-0.91	0.90
31	8.1371	7.8428	7.5522	-0.95	0.93
32	7.8299	7.5377	7.2498	-0.98	0.97
33	7.5359	7.2461	6.9611	-1.02	1.00
34	7.2546	6.9673	6.6854	-1.06	1.04
35	6.9852	6.7008	6.4222	-1.10	1.07
36	6.7273	6.4459	6.1707	-1.13	1.11
37	6.4803	6.2021	5.9304	-1.17	1.14
38	6.2437	5.9687	5.7007	-1.21	1.18
39	6.0170	5.7454	5.4812	-1.25	1.22
40	5.7997	5.5316	5.2712	-1.29	1.25
41	5.5914	5.3269	5.0704	-1.33	1.29
42	5.3916	5.1308	4.8783	-1.37	1.33
43	5.2001	4.9430	4.6944	-1.41	1.36
44	5.0163	4.7630	4.5185	-1.45	1.40
45	4.8400	4.5905	4.3500	-1.49	1.44
46	4.6708	4.4252	4.1887	-1.53	1.47
47	4.5083	4.2666	4.0342	-1.57	1.51
48	4.3524	4.1145	3.8862	-1.61	1.55
49	4.2026	3.9686	3.7443	-1.65	1.59
50	4.0588	3.8287	3.6084	-1.70	1.62
51	3.9206	3.6943	3.4780	-1.74	1.66
52	3.7878	3.5654	3.3531	-1.78	1.70
53	3.6601	3.4416	3.2332	-1.82	1.74
54	3.5374	3.3227	3.1183	-1.87	1.78
55	3.4195	3.2085	3.0079	-1.91	1.82
56	3.3060	3.0989	2.9021	-1.95	1.85
57	3.1969	2.9935	2.8005	-2.00	1.89
58	3.0919	2.8922	2.7029	-2.04	1.93
59	2.9909	2.7948	2.6092	-2.08	1.97
60	2.8936	2.7012	2.5193	-2.13	2.01

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

61	2.8000	2.6112	2.4328	-2.17	2.05
62	2.7099	2.5246	2.3498	-2.22	2.09
63	2.6232	2.4413	2.2700	-2.26	2.13
64	2.5396	2.3611	2.1932	-2.31	2.17
65	2.4591	2.2840	2.1195	-2.36	2.21
66	2.3815	2.2098	2.0486	-2.40	2.25
67	2.3068	2.1383	1.9803	-2.45	2.29
68	2.2347	2.0695	1.9147	-2.49	2.34
69	2.1652	2.0032	1.8516	-2.54	2.38
70	2.0983	1.9393	1.7908	-2.59	2.42
71	2.0337	1.8778	1.7324	-2.63	2.46
72	1.9714	1.8186	1.6761	-2.68	2.50
73	1.9113	1.7614	1.6219	-2.73	2.54
74	1.8533	1.7064	1.5697	-2.78	2.58
75	1.7974	1.6533	1.5194	-2.83	2.63
76	1.7434	1.6021	1.4710	-2.88	2.67
77	1.6913	1.5528	1.4243	-2.92	2.71
78	1.6409	1.5051	1.3794	-2.97	2.75
79	1.5923	1.4592	1.3360	-3.02	2.80
80	1.5454	1.4149	1.2942	-3.07	2.84
81	1.5000	1.3721	1.2540	-3.12	2.88
82	1.4562	1.3308	1.2151	-3.17	2.93
83	1.4139	1.2910	1.1776	-3.22	2.97
84	1.3730	1.2525	1.1415	-3.27	3.01
85	1.3335	1.2153	1.1066	-3.32	3.06
86	1.2953	1.1794	1.0730	-3.38	3.10
87	1.2583	1.1448	1.0405	-3.43	3.15
88	1.2226	1.1113	1.0092	-3.48	3.19
89	1.1880	1.0789	0.9789	-3.53	3.24
90	1.1546	1.0476	0.9497	-3.58	3.28
91	1.1223	1.0174	0.9215	-3.64	3.33
92	1.0910	0.9882	0.8942	-3.69	3.37
93	1.0607	0.9599	0.8679	-3.74	3.42
94	1.0314	0.9326	0.8424	-3.80	3.46
95	1.0030	0.9061	0.8179	-3.85	3.51
96	0.9756	0.8806	0.7941	-3.90	3.55
97	0.9490	0.8558	0.7711	-3.96	3.60
98	0.9232	0.8319	0.7489	-4.01	3.64
99	0.8983	0.8088	0.7275	-4.07	3.69
100	0.8741	0.7863	0.7067	-4.12	3.74
101	0.8507	0.7646	0.6867	-4.18	3.78
102	0.8281	0.7436	0.6672	-4.23	3.83
103	0.8061	0.7233	0.6484	-4.29	3.88
104	0.7848	0.7036	0.6303	-4.34	3.92
105	0.7641	0.6845	0.6127	-4.40	3.97

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

106	0.7441	0.6661	0.5957	-4.46	4.02
107	0.7247	0.6482	0.5792	-4.51	4.07
108	0.7059	0.6308	0.5632	-4.57	4.12
109	0.6877	0.6140	0.5478	-4.63	4.16
110	0.6700	0.5977	0.5328	-4.69	4.21
111	0.6528	0.5820	0.5183	-4.74	4.26
112	0.6361	0.5667	0.5043	-4.80	4.31
113	0.6200	0.5518	0.4907	-4.86	4.36
114	0.6043	0.5374	0.4775	-4.92	4.41
115	0.5891	0.5235	0.4648	-4.98	4.45
116	0.5743	0.5100	0.4524	-5.04	4.50
117	0.5600	0.4968	0.4404	-5.10	4.55
118	0.5460	0.4841	0.4288	-5.16	4.60
119	0.5325	0.4717	0.4175	-5.22	4.65
120	0.5194	0.4597	0.4066	-5.28	4.70

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

6. System Configuration

6.1 System Configuration

After the installation and test operation of the room air conditioner have been completed, it should be operated and handled as described below. Every user would like to know the correct method of operation of the room air conditioner, to check if it is capable of cooling (or heating) well, and to know a clever method of using it.In order to meet this expectation of the users, giving sufficient explanations taking enough time can be said to reduce about 80% of the requests for servicing. However good the installation work is and however good the functions are, the customer may blame either the room air conditioner or its installation work because of improper handling. The installation work and handing over of the unit can only be considered to have been completed when its handling has been explained to the user without using technical terms but giving full knowledge of the equipment.

6.2 Instruction

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Cautions

Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in an air conditioner can be recycled .Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damagedprior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.
- For the purpose of the safety,the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug the air conditioner before openning inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or performating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Cautions

• Do not obstruct or cover the ventilation grille of the air conditoner.Do not put fingers or any other things into the inlet/outlet and swing louver.

• Do not allow children to play with the air conditioner.In no case should children be allowed to sit on the outdoor unit.

Specifications

• The refrigerating circuit is leak-proof.

The machine is adaptive in following situation

1.Applicable ambient temperature range:

Cooling	Indoor	Maximum:D.B/W.B Minimum:D.B/W.B	32°C/23°C 18°C/14°C
	Outdoor	Maximum:D.B/W.B Minimum:D.B	43°C/26°C 18°C
Heating	Indoor	Maximum:D.B Minimum: D.B	27°C 15°C
	Outdoor	Maximum:D.B/W.B Minimum:D.B	27°C/18°C -7°C

2. If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.

3. If the fuse of indoor unit on PC board is broken,please change it with the type of T. 3.15A/ 250V.

4. The wiring method should be in line with the local wiring standard.

5. After installation, the power plug should be easily reached.

6. The waste battery should be disposed properly.

7. The appliance is not intended for use by young children or infirm persons without supervision.

8. Young children should be supervised to ensure that they do not play with the applience.

9.Please employ the proper power plug, which fit into the power supply cord.

10 .The power plug and connecting cable must have acquired the local attestation.

11.In order to protect the units,please turn off the A/C first, and at least 30 seconds later, cutting off the power.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Cautions

Safety Instruction

- Please read the following Safety Instructions carefully prior to use.
- The instructions are classified into two levels, WARNING and CAUTION according to the seriousness of possible risks and damages as follows. Compliance to the instructions are strictly required for safety use.

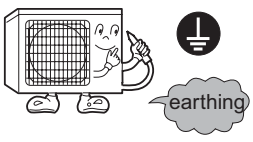
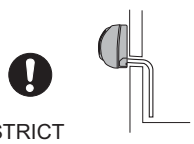
Installation

⚠WARNING

Please call Sales/Service Shop for the Installation.
Do not attempt to install the air conditioner by yourself because improper works may cause electric shock, fire, water leakage.

Installation in a inadequate place may cause accidents. Do not install in the following place.

⚠CAUTION

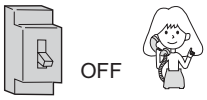
Connect the earth cable.  	Do not install in the place where there is any possibility of inflammable gas leakage around the unit. PROHIBITION	Do not get the unit exposed to vapor or oil steam. PROHIBITION	Check proper installation of the drainage securely  STRICT ENFORCEMENT

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Cautions

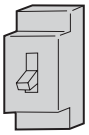
⚠ WARNING

When abnormality such as burnt-small found, immediately stop the operation button and contact sales shop.



STRICT ENFORCEMENT

Use an exclusive power source with a circuit breaker



Connect power supply cord to the outlet completely

STRICT ENFORCEMENT

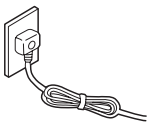
Use the proper voltage

STRICT ENFORCEMENT

Do not use power supply cord extended or connected in halfway

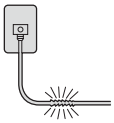
PROHIBITION

Do not use power supply cord in a bundle.



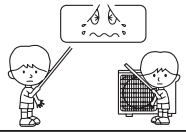
PROHIBITION

Take care not to damage the power supply cord.



PROHIBITION

Do not insert objects into the air inlet or outlet.



PROHIBITION

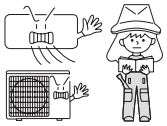
Do not start or stop the operation by disconnecting the power supply cord and so on.

PROHIBITION

Do not channel the air flow directly at people, especially at infants or the aged.

PROHIBITION

Do not try to repair or reconstruct by yourself.

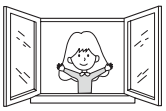


⚠ CAUTION

Do not use for the purpose of storage of food, art work, precise equipment, breeding, or cultivation.

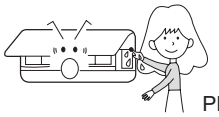
PROHIBITION

Take fresh air occasionally especially when gas appliance is running at the same time.



STRICT ENFORCEMENT

Do not operate the switch with wet hand.

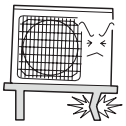


PROHIBITION

Do not install the unit near a fireplace or other heating apparatus.

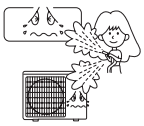
PROHIBITION

Check good condition of the installation stand



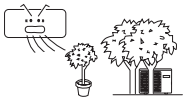
PROHIBITION

Do not pour water onto the unit for cleaning



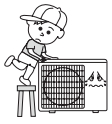
PROHIBITION

Do not place animals or plants in the direct path of the air flow



PROHIBITION

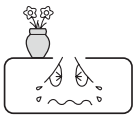
Do not place any objects on or climb on the unit.



PROHIBITION

Do not place flower vase or water containers on the top of the unit.

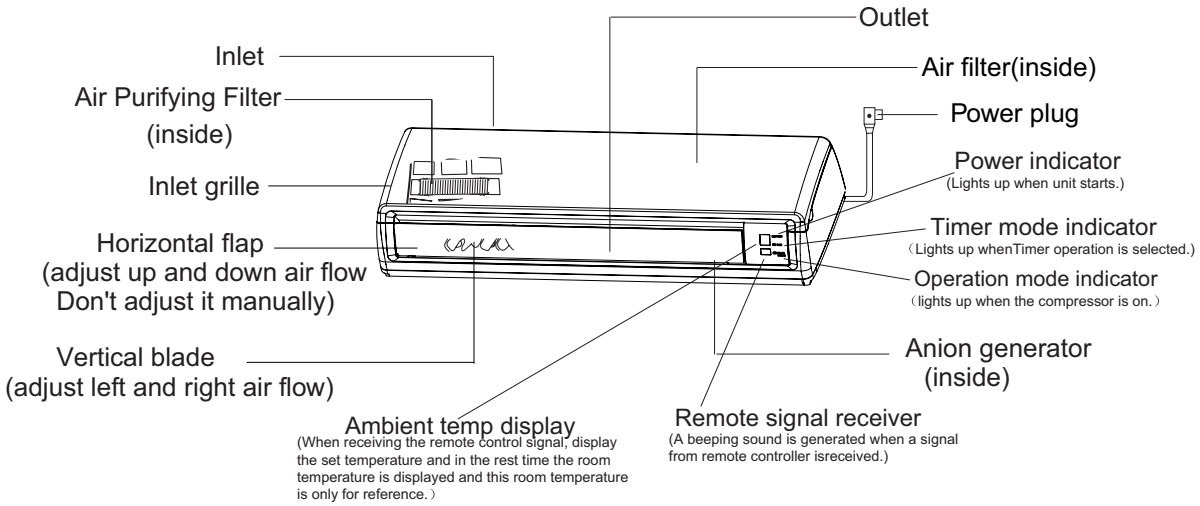
PROHIBITION



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

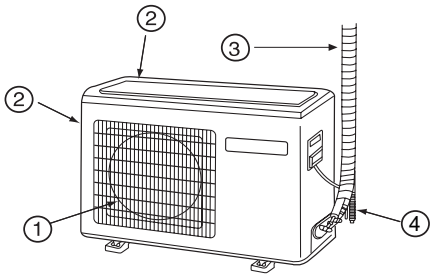
Parts and Functions

Indoor Unit



Actual inlet grille may vary from the one shown in the manual according to the product purchased

Outdoor Unit



HSU-07LEK03
HSU-07HEK03
HSU-09LEK03
HSU-12LEK03
HSU-09HEK03
HSU-12HEK03

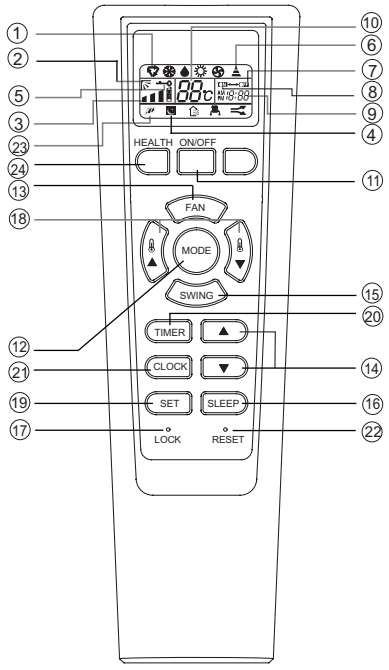
① OUTLET
② INLET
③ CONNECTING PIPING AND ELECTRICAL WIRING
④ DRAIN HOSE

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Parts and Functions

Operation

Buttons and display of the remote controller.



1. Mode display
   AUTO
   COOL
   DRY
   HEAT
   FAN
2. SWING display
3. FAN SPEED display

4. SLEEP display
5. LOCK display
6. SIGNAL SENDING
7. TIMER OFF display
8. TIMER ON display
9. CLOCK display
10. TEMP display
11. POWER ON/OFF
    Used for unit start and stop.
12. MODE
    Used to select AUTO run, COOL, DRY, HEAT and FAN operation
13. FAN
    Used to select fan speed LO, MED, HI, AUTO
14. HOUR
    Used to set clock and timer setting.
15. SWING
    Used to set auto fan direction.
16. SLEEP
    Used to select sleep mode.
17. LOCK
    Used to lock buttons and LCD display.
18. TEMP.SETTING
    Used to select your desired temp.
19. SET
    Used to confirm timer and clock settings.
20. TIMER
    Used to select TIMER ON, TIMER OFF, TIMER ON-OFF
21. CLOCK
    Used to set correct time
22. RESET
    Used to reset the controller back to normal condition.
23. HEALTH display
24. HEALTH
    Used to operate the healthy function.

Clock set

When unit is started for the first time and after replacing batteries in remote controller, clock should be adjusted as follows:
Press CLOCK button, "AM" or "PM" flashes.
Press △ or ▽ to set correct time. Each press will increase or decrease 1min. If the button is kept depressed, time will change quickly.
After time setting is confirmed, press SET, "AM "and "PM" stop flashing, while clock starts working.

NOTE: Cooling only unit do not have displays and functions related with heating

Hints

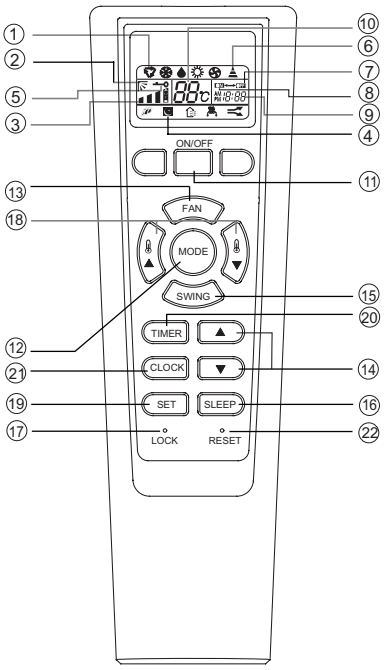
After replacing with new batteries, remote controller will conduct self-check, displaying all information on LCD. Then, it will become normal.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Parts and Functions

Operation

If the unit which you purchased has not healthy function, Remote controller should like the following figure:



1. Mode display
   AUTO
   COOL
   DRY
   HEAT
   FAN
2. SWING display
3. FAN SPEED display

4. SLEEP display
5. LOCK display
6. SIGNAL SENDING
7. TIMER OFF display
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11. POWER ON/OFF
    Used for unit start and stop.
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    Used to select AUTO run, COOL, DRY, HEAT and FAN operation
13. FAN
    Used to select fan speed LO, MED, HI, AUTO
14. HOUR
    Used to set clock and timer setting.
15. SWING
    Used to set auto fan direction.
16. SLEEP
    Used to select sleep mode.
17. LOCK
    Used to lock buttons and LCD display.
18. TEMP.SETTING
    Used to select your desired temp.
19. SET
    Used to confirm timer and clock settings.
20. TIMER
    Used to select TIMER ON, TIMER OFF, TIMER ON-OFF
21. CLOCK
    Used to set correct time
22. RESET
    Used to reset the controller back to normal condition.
    Used to operate the healthy function.

Clock set

When unit is started for the first time and after replacing batteries in remote controller, clock should be adjusted as follows:
Press CLOCK button, "AM" or "PM" flashes.
Press △ or ▽ to set correct time. Each press will increase or decrease 1min. If the button is kept depressed, time will change quickly.
After time setting is confirmed, press SET, "AM "and "PM" stop flashing, while clock starts working.

NOTE: Cooling only unit do not have displays and functions related with heating

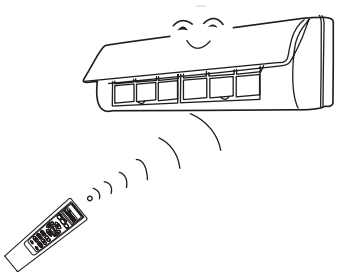
Hints

After replacing with new batteries, remote controller will conduct self-check, displaying all information on LCD. Then, it will become normal.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

Remote controller's operation



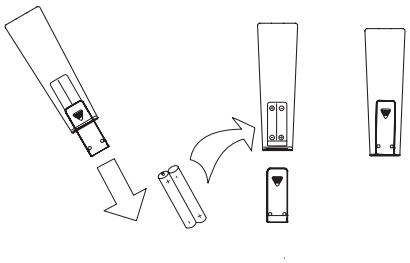
- When in use, put the signal transmission head directly to the receiver hole on the indoor unit.
- The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well.
- Don't throw the controller, prevent it from being damaged.
- When electronic-started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receivering the signals so the distance to the indoor unit should be shorter.

Loading of the battery

Load the batteries as illustrated. 2 R-03 batteries, resetting key (cylinder)

Remove the battery cover:

Slightly press "▼" and push down the cover.



Load the battery:

Be sure that the loading is in line with the" + "/"-" pole request as illustrated.

Put on the cover again

Confirmation indicator:

In disorderation, reload the batteries or load the new batteries after 6mins.

Note:

Use two new same-typed batteries when loading.
If the remote controller can't run normally or doesn't work at all, use a sharp pointed item to press the reset key.

Hint:

Remove the batteries in case unit won't be in usage for a long period.
If there are any display after taking-out just need to press reset key.

Power failure resume(please set and apply as necessary)

If sudden power failure occurs, the unit will resume original operation when power is supplied again.

Note: When sudden power failure happens during unit operation in power failure resume mode, if the air conditioner is not desired for use in a long period, please shut off the power supply in case that the unit automatically resume operation when power is re-supplied, or press ON/OFF to turn off the unit when power resumes.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

Auto,Cool,Dry,Heat and Fan operation

(1) Unit start

Press ON/OFF button, unit starts.

(2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:

Remote controller: AUTO → COOL → DRY → HEAT → FAN

Unit will run in selected mode.

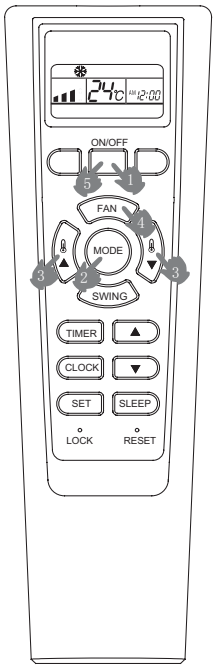
(3) Select temp. setting

Press TEMP button.

△ Every time the button is pressed, temp. setting increases 1°C

▽ Every time the button is pressed, temp. setting decreases 1°C

Unit will start running to reach the temp. setting on LCD.



(4) FAN

Press FAN button. For each press, fan speed changes as follows:

Unit will run at selected fan speed.

Note:AUTO is not available in FAN mode.

(5) Unit stop

Press ON/OFF button.

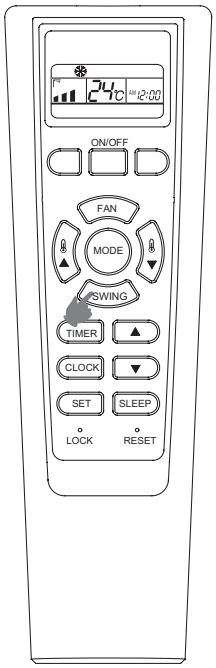
Note:

1. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
2. In DRY mode, when room temperature becomes lower than temp.setting+2°C, unit will run intermittently at LOW speed regardless of FAN setting.
3. In FAN operation mode, the unit will not operate in COOL mode but only in FAN mode , AUTO is not available in FAN mode.And temp.setting is disabled. In FAN mode,SLEEP operation is not available.
4. In HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function.When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
5. Remote controller can memorize each operation status. When starting it next time, just press ON/OFF button and unit will run in previous status.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

Air Flow Direction Adjustment



1.Status display of air sending

Horizontal flap	Remote controller
Pos.1 (Cool/Dry standard position)	Blank
Pos.2 (Upward swing)	
Pos.3 (Downward swing)	
Pos.4 (Auto swing)	

2.Up and down air flow direction(Use remote controller)

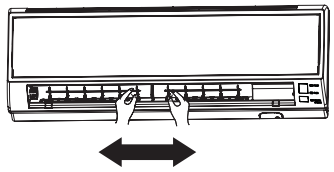
For each press of SWING button, air flow direction on remote controller display as follows according to different operation modes:

→ Pos.1 → Pos.2 → Pos.3 → Pos.4 →

The horizontal flap will swing according to the above positions

3.Left and right air flow adjustment(manual)

Move the vertical blade by a knob on air conditioner to adjust left and right direction referring to Fig.



Cautions:

- Do not try to adjust the flap by hand.
- When adjusting the flap by hand,turn off the unit ,and use the remote controller to restart the unit.
- When humidity is high,condensate water might occur at air outlet if all vertical louvers are adjusted to left or right.
- It is advisable not to keep horizontal flap at downward position for a long time in COOLor DRY mode ,otherwise, condensate water might occur.

Hints

- As cold air flows downward in COOL mode, adjusting air flow horizontally will be much more helpful for a better air circulation.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

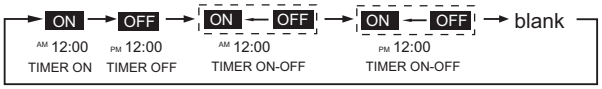
TIMER Operation

Set Clock correctly before starting Timer operation
You can let unit start or stop automatically at following times: Before you wake up in the morning, or get back from outside or after you fall asleep at night.

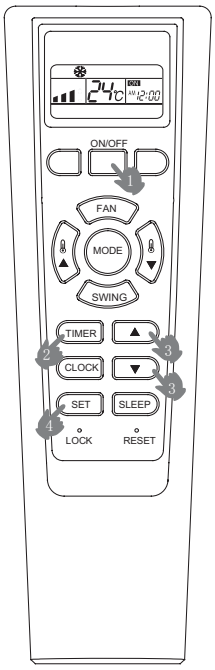
TIMER ON/OFF

(1)After unit start, select your desired operation mode.
Operation mode will be displayed on LCD.
Power indicator on indoor unit lights up.

(2)TIMER mode selection
Press TIMER button to change TIMER mode.
Every time the button is pressed, display changes as follows:



Select your desired TIMER mode (TIMER ON or TIMER OFF), ON or OFF will flash.



(3)Timer setting
Press HOUR△ / ▽ button.
△ Every time the button is pressed, time increases 10 min. If button is kept depressed, time will change quickly.
▽ Every time the button is pressed, time decreases 10 min. If button is kept depressed, time will change quickly. Time will be shown on LCD. It can be adjusted within 24 hours.

(4)Confirming your setting
After setting correct time, press SET button to confirm, "ON" or "OFF" stops flashing
Time displayed: Unit starts or stops at x hour x min. (TIMER ON or TIMER OFF).
Timer mode indicator on indoor unit lights up.

To cancel TIMER mode

Just press TIMER button several times until TIMER mode disappears.

Hints

After replacing batteries or a power failure happens, Time setting should be reset.
Remote controller possesses memory function, when use TIMER mode next time, just press SET button after mode selecting if timer setting is the same as previous one.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

TIMER ON-OFF

(1)After unit start, select your desired operation mode
Operation mode will be displayed on LCD.

(2) Press TIMER button to change TIMER mode.
Every time the button is pressed, display changes as follows:

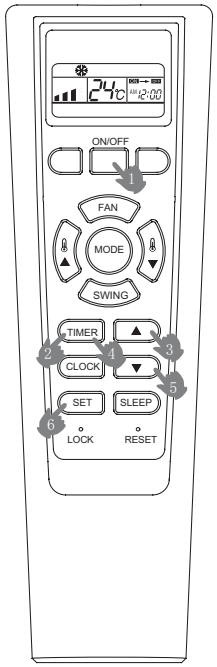
Select TIMER ON-OFF. "ON" will flash.

(3)Time setting for TIMER ON

Press HOUR button.

△Every time the button is pressed, time increases 10 min.
If button is kept depressed, time will change quickly.
▽ Every time the button is pressed, time decreases 10 min.
If button is kept depressed, time will change quickly.

Time will be shown on LCD.
It can be adjusted within 24 hours.
AM refers to morning and PM to afternoon



(4) Time confirming for TIMER ON
After time setting, press TIMER button to confirm.
"ON" stops blinking, While "OFF" starts blinking.
Time displayed: Unit starts at x hour x min.

(5)Time setting for TIMER OFF
Follow the same procedures in "Time setting for TIMER ON".

(6) Time confirming for TIMER OFF
After time setting, press SET button to confirm, "OFF" stops flashing
Time displayed: Unit stops at X hour X min.

To cancel TIMER mode

■ Just press TIMER button several times until TIMER mode disappears.

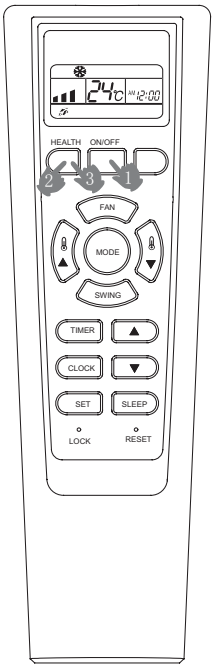
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

HEALTH Operation

1.Unit start

Press the ON/OFF switch



2.Health anion function

Press HEALTH button is displayed on the remote controller and is displayed on the display board .

3.To Cancel HEALTH Model

Press the " HEALTH"again, then the healthy function stops.

When indoor fan motor is running, it has healthy process function. (It's available under any mode)

NOTE: If the unit which you purchased has healthy function,follow it.If not,please ignore.

Brief introduction to health anion function

The anion generator in the air conditioner can generate a lot of anion effectively balance the quantity of position and anion in the air and also to kill bacteria and speed up the dust sediment in the room and finally clean the air in the room.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Operation

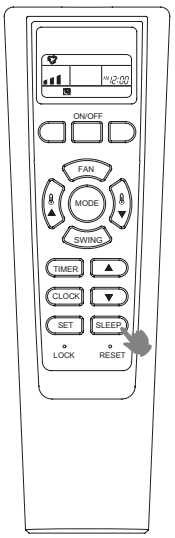
Comfortable SLEEP

Operation

Before going to bed, you can simply press the SLEEP button and unit will operate in SLEEP mode and bring you a sound sleep.

Use of SLEEP function

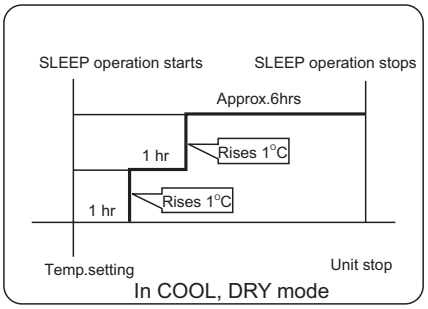
After the unit starts, set the operation status, then press SLEEP button before which the clock must be adjusted and time being set.



Operation Mode

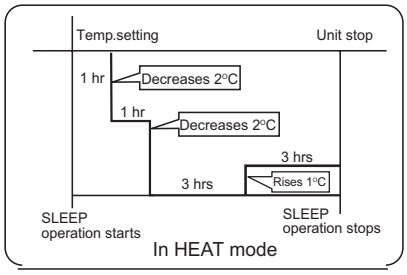
1. In COOL,DRY mode

1 hours after SLEEP mode starts, temp. will become 1°C higher than temp. setting. After another 1 hours, temp. rises by 1°C further. The unit will run for further 6 hours then stops. Temp. is higher than temp. setting so that room temperature won't be too low for your sleep.



In COOL, DRY mode

further 3 hours then stops. Temp. is lower than temp. setting so that room temperature won't be too high for your sleep.



In HEAT mode

3. In AUTO mode

The unit operates in corresponding sleep mode adapted to the automatically selected operation mode.

4. In FAN mode

It has no SLEEP function.

5. When quiet sleeping function is set to 8 hours, the quiet sleeping time can not be adjusted.

When TIMER function is set , the quiet sleeping function can't be set up .After the sleeping function is set up,if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on,if the two modes are set up at the same time ,either of their operation time is ended first ,the unit will stop automatically,and the other mode will be cancelled.

Power Failure Resume Function

If the unit is started for the first time, the compressor will not start running unless 3 minutes have elapsed. When the power resumes after power failure, the unit will run automatically, and 3 minutes later the compressor starts running.

Note to the power failure resume:

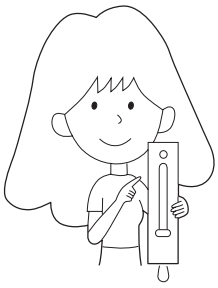
press the sleep button ten times in five seconds and enter this function after hearing four sounds. And press the sleep button ten times within five seconds and leave this function after hearing two sounds.

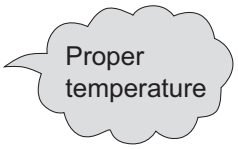
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Maintenance

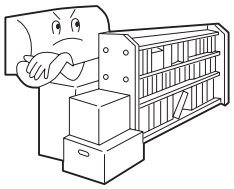
For Smart Use of The Air Conditioner

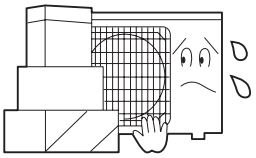
Setting of proper room temperature



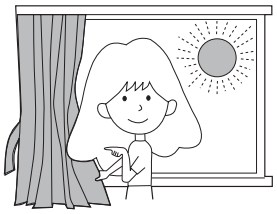


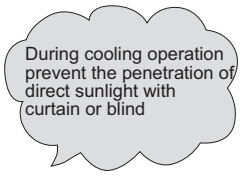
Do not block the air inlet or outlet



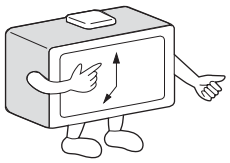


Close doors and windows during operation

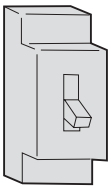




Use the timer effectively

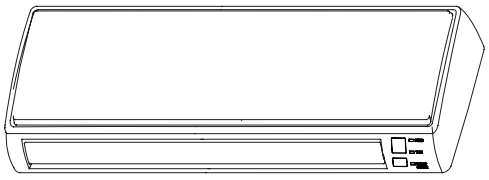


If the unit is not to be used for a long time, turn off the power supply main switch.



OFF

Use the louvers effectively



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

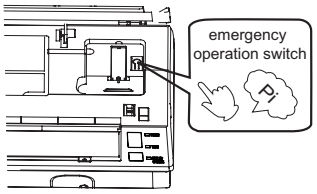
Operation

Emergency operation and test operation

Emergency Operation:

- Use this operation only when the remote controller is defective or lost,and with function of emergency running, air conditoner can run automatically for a while.
- When the emergency operation switch is pressed, the " Pi "sound is heard once, which means the start of this operation.
- When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode
Above 23°C	26°C	No	AUTO	COOL
Below 23°C	23°C	No	AUTO	HEAT

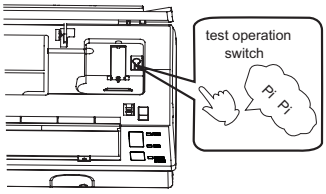


- It is impossible to change the settings of temp.and fan speed,It is also not possible to operate in timer or dry mode.

Test operation:

Test operation switch is the same as emergency switch.

- Use this switch in the test operation when the room temperature is below 16℃, do not use it in the normal operation.
- Continue to press the test operation switch for more than 5 seconds. After you hear the "Pi" sound twice, release your finger from the switch: the cooling operation starts with the air flow speed "Hi".
- Under this operation mode,the fan motor of indoor unit will run in high speed.



Removal of the restriction of emergency or test operation:

- Press the emergency operation switch once more, or manipulate through the ON/OFF button of remote controller;after you heard the "Pi" sound, the emergency or test operation will be terminated.
- When the remote controller is manipulated, it gets the system back to the normal operation mode.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Maintenance

For Smart Use of The Air Conditioner

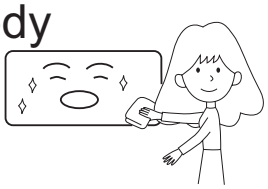
⚠ WARNING

Before maintenance,be sure to turn off the system and the circuit breaker.

Remote Controller

Do not use water , wipe the controller with a dry cloth.Do not use glass cleaner or chemical cloth.

Indoor Body



Wipe the air conditioner by using a soft and dry cloth.For serious stains,use a neutral detergent diluted with water.Wring the water out of the cloth before wiping.then wipe off the detergent completely.

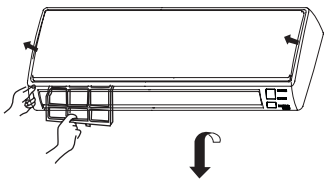
Do not use the following for cleaning

Gasoline,benzine, thinner or cleanser may damage the coating of the unit.

Hot water over 40°C(104°F) may cause discoloring or deformation.

Air Filter cleaning

1 Open the inlet grille by pulling it upward.



2 Remove the filter.

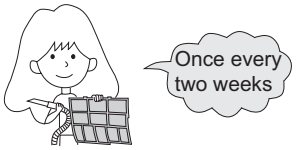
Push up the filter's center tab slightly until it is released from the stopper, and remove the filter downward.

3 Clean the filter.

Use a vacuum cleaner to remove dust, or wash the filter with water.After washing, dry the filter completely in the shade.

4 Attach the filter.

Attach the filter correctly so that the "FRONT" indication is facing to the front.Make sure that the filter is completely fixed behind the stopper.If the right and left filters are not attached correctly, that may cause defects.



5 Close the inlet grille.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Trouble shooting

Before asking for service, check the following first.

	Phenomenon	Cause or check points
Normal Performance inspection	The system does not restart immediately.	• When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system. • When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.
	Noise is heard	• During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.) • During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes • Should there be a big noise from air flow in unit operation, air filter may be too dirty.
	Smells are generated.	• This is because the system circulates smells from the interior air such as the smell of furniture, paint, cigarettes.
	Mist or steam are blown out.	• During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.
	In dry mode, fan speed can't be changed.	• In DRY mode, when room temperature becomes lower than temp.setting+2°C,unit will run intermittently at LOW speed regardless of FAN setting.
Multiple check		• Is power plug inserted? • Is there a power failure? • Is fuse blownout?
	Poor cooling	• Is the air filter dirty? Normally it should be cleaned every 15 days. • Are there any obstacles before inlet and outlet? • Is temperature set correctly? • Are there some doors or windows left open? • Is there any direct sunlight through the window during the cooling operation?(Use curtain) • Are there too much heat sources or too many people in the room during cooling operation?

Application temp. range of air conditioner -7°C~43°C.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

7.Codes and Description

7.1.Problem Symptoms and Measures

Symptom	Check Item	Details of Measure
None of the units operates	Check the power supply.	Check to make sure that the rated voltage is supplied.
	Check the indoor PCB	Check to make sure that the indoor PCB is broken
Equipment operates but does not cool, or does not heat (only for heat pump)	Diagnosis by service port pressure and operating current.	Check for insufficient gas.
Large operating noise and vibrations	Check the installation condition.	Check to make sure that the required spaces for installation (specified in the Technical Guide, etc.) are provided.

7.2 Error Codes and Description indoor display

	Code indication	Description
	indoor	
Indoor Malfunction	E1	Room temperature sensor failure
	E2	Heat-exchange sensor failure
	E4	Indoor EEPROM error
	E14	Indoor fan motor malfunction

The code indication that is listed above is the main fault

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

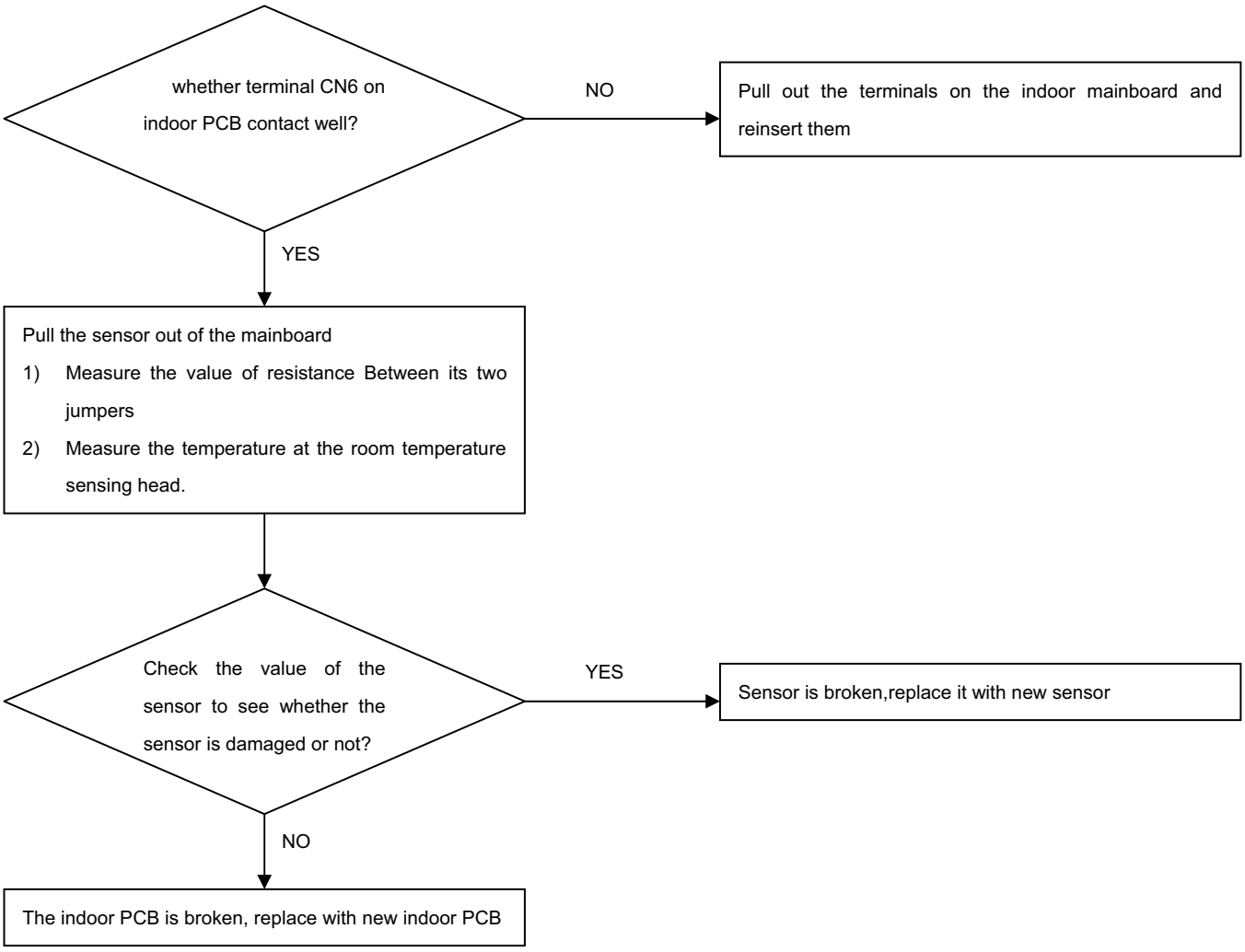
Troubleshooting

Caution

Be sure to turn off power switch before connect or disconnect connector, or else parts damage may be occurred.

E1: Room temperature sensor failure CN6

E2: Heat-exchange sensor failure CN6

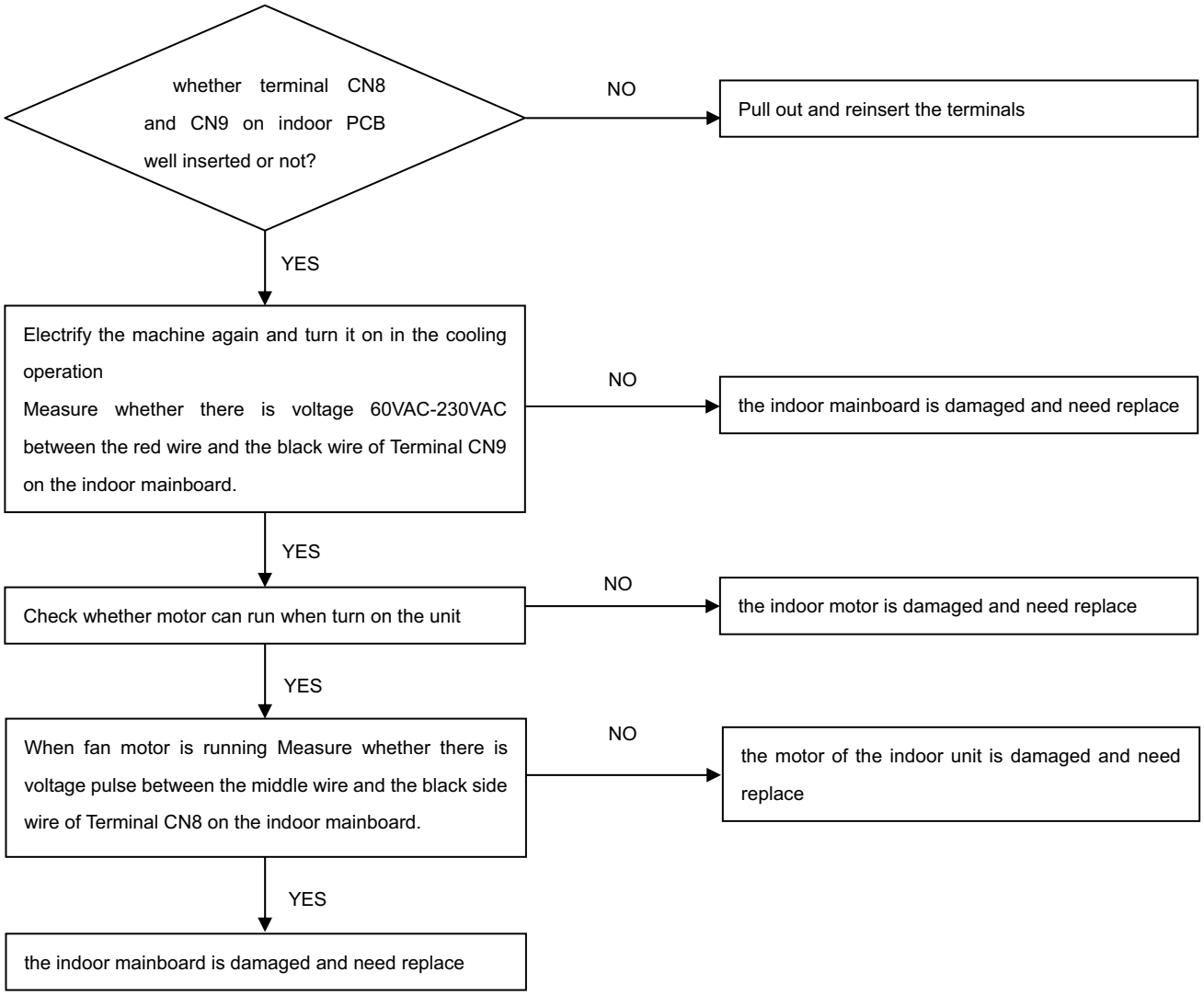


E4：Indoor EEPROM error:：Replace the PCB of indoor unit

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

E14 :Indoor fan motor malfunction

Notes: When the unit is on ,don't pull out or insert the terminal of the motor (CN9), or else The motor would be damaged.



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

8 Installation

- Read this manual before installation
- Explain sufficiently the operating means to the user according to this manual.

Necessary Tools for Installation

1.Driver
2.Hacksaw
3.Hole core drill
4.Spanner(17,19 and 26mm)
5.Torque wrench(17mm,22mm,26mm)
6.Pipe cutter
7.Flaring tool
8.Knife
9.Nipper
10.Gas leakage detector or soap-and-water solution
11.Measuring tape
12.Reamer

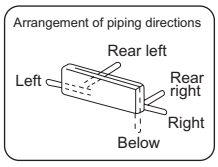
Drawing for the installation of indoor and outdoor units

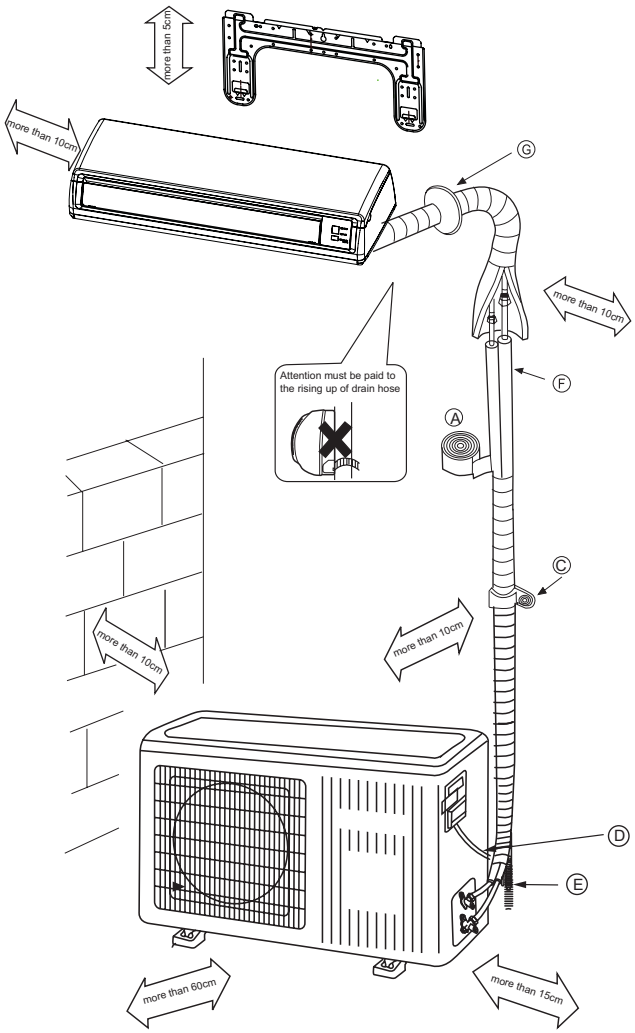
Accessory parts

No.	Accessory parts	Number of articles
①	Remote controller	1
②	R-03 dry battery	2
③	Mounting plate	1
④	Drain hose	1
⑤	ϕ4X50 Steel nail, cement	6
⑥	ϕ4X25 Screw, Plastic cap	4
⑦	Drain-elbow	1
⑧	Cover	1
⑨	Cushion	4
⑩	Pipe supporting plate	1
⑪	Connecting cable	1

Optional parts for piping

Mark	Parts name
Ⓐ	Non-adhesive tape
Ⓑ	Adhesive tape
Ⓒ	Saddle(L.S) with screws
Ⓓ	Connecting electric cable for indoor and outdoor
Ⓔ	Drain hose
Ⓕ	Heating insulating material
Ⓖ	Piping hole cover





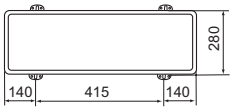
Note:Cooling only units don't have Drain-elbow

※ The marks from Ⓐ to Ⓖ in the figure are the parts numbers.

※ The distance between the indoor unit and the floor should be more than 2m.

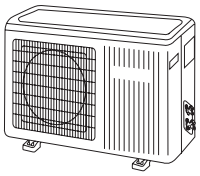
No.0010518787

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html



Floor fixing dimensions
of the outdoor unit
(Unit:mm)

HSU-07LEK03
HSU-07HEK03
HSU-09LEK03
HSU-12LEK03
HSU-09HEK03
HSU-12HEK03



Fixing of outdoor unit

- Fix the unit to concrete or block with bolts(ϕ10mm) and nuts firmly and horizontally.
- When fitting the unit to wall surface, roof or rooftop, fix a supporter surely with nails or wires in consideration of earthquake and strong wind.
- If vibration may affect the house, fix the unit by attaching a vibration-proof mat.

Indoor Unit Selection of Installation Place Outdoor Unit

- Place, robust not causing vibration, where the body can be supported sufficiently.
- Place, not affected by heat or steam generated in the vicinity, where inlet and outlet of the unit are not disturbed.
- Place, possible to drain easily, where piping can be connected with the outdoor unit.
- Place, where cold air can be spread in a room entirely.
- Place, nearby a power receptacle, with enough space around. (Refer to drawings).
- Place where the distance of more than lm from televisions, radios, wireless apparatuses and fluorescent lamps can be left.
- In the case of fixing the remote controller on a wall, place where the indoor unit can receive signals when the fluorescent lamps in the room are lightened.
- Place, which is less affected by rain or direct sunlight and is sufficiently ventilated.
- Place, possible to bear the unit, where vibration and noise are not increased.
- Place, where discharged wind and noise do not cause a nuisance to the neighbors.
- Place, where a distance marked ⇦⇨is available as illustrated in the above figure.

Power Source

- Before inserting power plug into receptacle, check the voltage without fail. The power source is the same as the corresponding name plate.
- Install an exclusive branch circuit of the power.
- A receptacle shall be set up in a distance where the power cable can be reached. Do not extend the cable by cutting it.

Selection of pipe

- To this unit, both liquid and gas pipes shall be insulated as they become low temperature in operation.
- Use optional parts for piping set or pipes covered with equivalent insulation material.

	For 07	For 09	For 12
Liquid pipe (ϕ)	6.35mm(1/4")	6.35mm(1/4")	6.35mm(1/4")
Gas pipe (ϕ)	9.52mm(3/8")	9.52mm(3/8")	12.7mm(1/2")

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

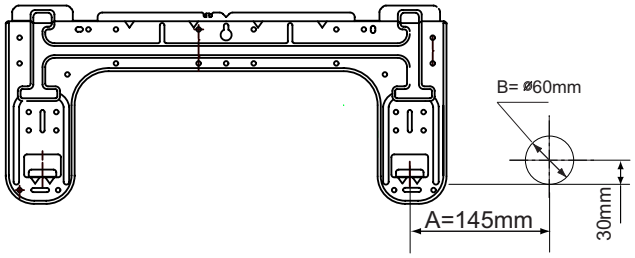
Indoor unit

Indoor unit

1.Fitting of the Mounting Plate and Positioning of the wall Hole

When the mounting plate is first fixed

1.Carry out, based on the neighboring pillars or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail.
2. Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten securely the plate with the attachment steel nail.
3. Find the wall hole location A using a measuring tape

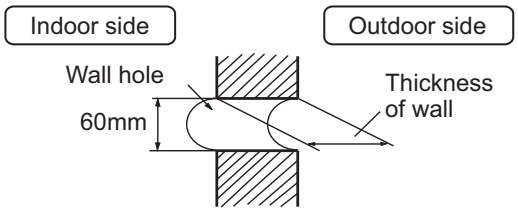


When the mounting plate is fixed side bar and lintel

- Fix to side bar and lintel a mounting bar, Which is separately sold, and then fasten the plate to the fixed mounting bar.
- Refer to the previous article, " When the mounting plate is first fixed ", for the position of wall hole.

2.Making a Hole on the Wall and Fitting the Piping Hole Cover

- Make a hole of 60 mm in diameter, slightly descending to outside the wall.
- Install piping hole cover and seal it off with putty after installation



(Section of wall hole) Ⓖ Piping hole pipe

3.Installation of the Indoor Unit

Drawing of pipe

[Rear piping]

- Draw pipes and the drain hose, then fasten them with the adhesive tape

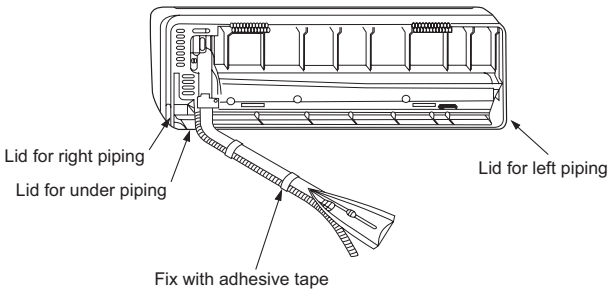
[Left • Left-rear piping]

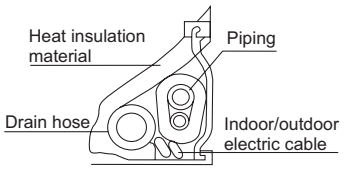
- In case of left side piping, cut away, with a nipper, the lid for left piping.
- In case of left-rear piping, bend the pipes according to the piping direction to the mark of hole for left-rear piping which is marked on heat insulation materials.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Indoor unit

1. Insert the drain hose into the dent of heat insulation materials of indoor unit.
2. Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them.
3. Coat the flaring seal face with refrigerant oil and connect pipes.
   Cover the connection part with heat insulation materials closely, and make sure fixing with adhesive tape





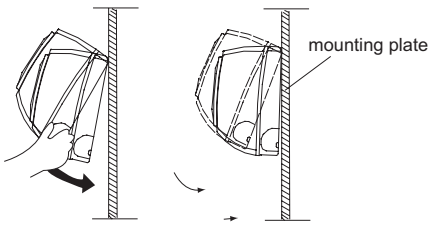
- Indoor/outdoor electric cable and drain hose must be bound with refrigerant piping by protecting tape.

[Other direction piping]

- Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according to the position of wall hole. When bending, be careful not to crash pipes.
- Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation of connecting part specially.

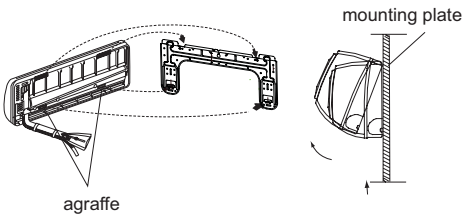
Fixing the indoor unit body

- Hang surely the unit body onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing.
- In order to fix the body onto the mounting plate,hold up the body aslant from the underside and then put it down perpendicularly.



Unloading of indoor unit body

- When you unload the indoor unit,please use your hand to arise the body to leave agraffe,then lift the bottom of the body outward slightly and lift the unit aslant until it leaves the mounting plate.

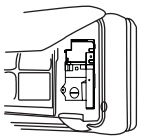


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Indoor unit

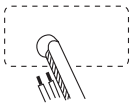
Connecting the indoor/outdoor Electric Cable

Removing the wiring cover



- Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.

When connecting the cable after installing the indoor unit



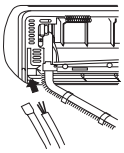
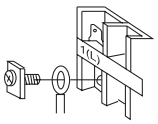
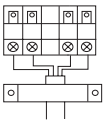
1. Insert from outside the room cable into left side of the wall hole, in which the pipe has already existed.
2. Pull out the cable on the front side, and connect the cable making a loop.

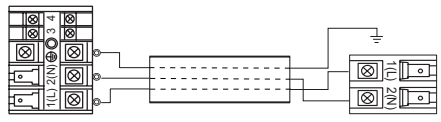
When connecting the cable before installing the indoor unit

- Insert the cable from the back side of the unit, then pull it out on the front side.
- Loosen the screws and insert the cable ends fully into terminal block, then tighten the screws.
- Pull the cable slightly to make sure the cables have been properly inserted and tightened.
- After the cable connection, never fail to fasten the connected cable with the wiring cover.

Note: When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.

1. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05/07RN-F or 245IEC57(YZW).
2. If the fuse on PC board is broken please change it with the type of T. 3.15A/250V.
3. The wiring method should be in line with the local wiring standard.
4. After installation, the power plug should be easily reached.
5. A breaker should be incorporated into fixed wiring. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.

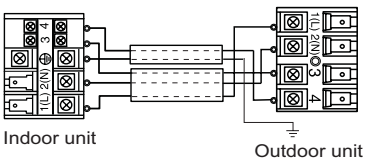






HSU-07LEK03
HSU-09LEK03
HSU-12LEK03

connecting wiring:
-mod 07-12: ⩾3G1.0mm²

Power cable:
-mod 07-12: ⩾ 3G1.0mm²



HSU-07HEK03
HSU-09HEK03
HSU-12HEK03

connecting wiring:
-mod 07-12: ⩾5G1.0mm²

Power cable:
-mod 07-12: ⩾ 3G1.0mm²

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Outdoor unit

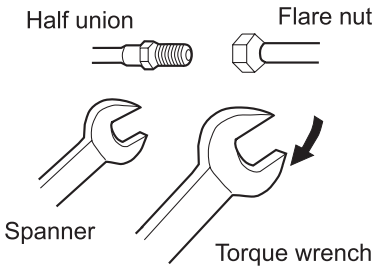
Outdoor unit

1.Installation of Outdoor Unit

Install according to Drawing for the installation of indoor and outdoor units

2.Connection of pipes

- To bend a pipe, give the roundness as large as possible not to crush the pipe
- Connecting the pipe of gas side first makes working easier.
- The max vertical distance between the indoor unit and the outdoor unit is 5 m.



Forced fastening without careful centering may damage the threads and cause a leakage of gas.

Pipe Diameter (ϕ)	Fastening torque
Liquid side 6.35mm(1/4")	18N.m
Gas side 9.52mm(3/8")	42N.m
Gas side 12.7mm(1/2")	50N.m

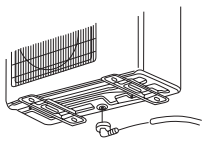
Be careful that matters, such as wastes of sands, etc. shall not enter the pipe.

3.Connection

- Use the same method on indoor unit. Loosen the screws on terminal block and insert the plugs fully into terminal block, then tighten the screws.
- Insert the cable according to terminal number in the same manner as the indoor unit.
- If wiring is not correct, proper operation can not be carried out and controller may be damaged.
- Fix the cable with a clamp.

4.Attaching Drain-Elbow

- If the drain-elbow is used, please attach it as figure. (Note: Only for heat pump unit.)



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

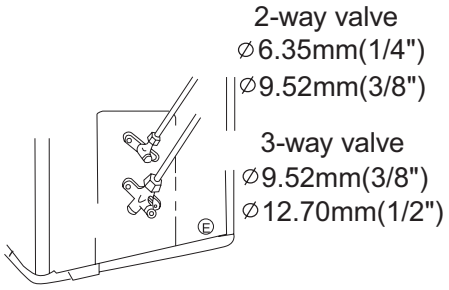
Outdoor unit

5.Purging Method:

Push the air out of the indoor unit
and piping as followes:

(1) Remove the valve cap on 2-way valve in outdoor unit.
(2) Loosen by 1/2 turn the flare nut of gas pipe, which is is conneted to 3-way valve.
(3) Loosen 2-way valve by 90° using hexagon wrench, and after approx.10 sec tighten it up. Gas comes out through flare nut on wide pipe. If no gas is discharged, tighten flare nut with specified torque.
(4) Open 2-way and 3-way valves using specified torque.
(5) Tighten the caps on the valves with specified torque.

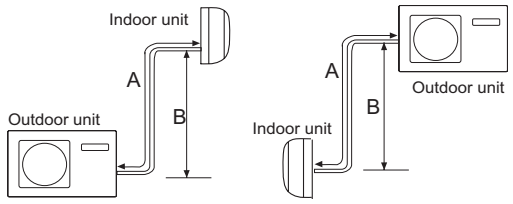
	Tighten torque N.m
Valve rod	7-9
Valve cap	20-25



HSU-07LEK03
HSU-09LEK03
HSU-12LEK03
HSU-07HEK03
HSU-09HEK03
HSU-12HEK03

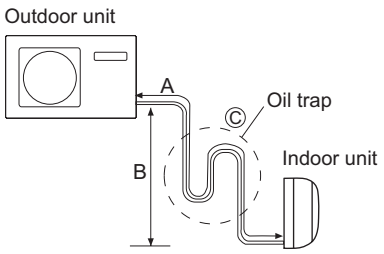
- When connecting pipe exceeds 5 meters, 20g refrigerant shall be added per exceeding meter. Charge according to the following list.

	for 7k 9k 12k		
Piping length	5m	7m	10m
Additional amount	No need	40g	100g



Max.Elevation: B=5m

Max. Length: for 7K 9K : A=7m
for 12K : A=10m



CAUTION
- In case more than 5 metres，oil trap Ⓒ should be installed every 5~7m.

- Note: When extending piping, air inside piping shall be removed by using external refrigerant gas, charge according to the following list.

Brand new outdoor unit is charged 50g more refrigerant than regulated weight. Only for first installation, this extra 50g can be used to purge air in pipes.

★ 1 During this procedure, 50g refrigerant will be discharged in piping.
(This must be strictly controlled within 90° and 10 sec.)

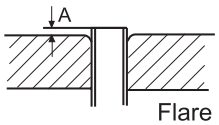
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

1.Power Source Installation

- The power source must be exclusively used for air conditioner. (Over I0A)
- In the case of installing an air conditioner in a moist place, please install an earth leakage breaker.
- For installation in other places, use a circuit breaker as far as possible.

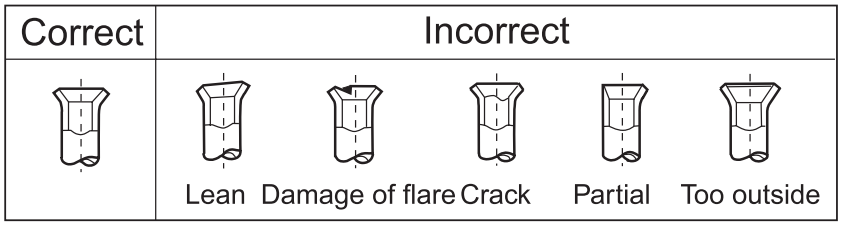
2.Cutting and Flaring Work of Piping

- Pipe cutting is carried out with a pipe cutter and burs must be removed.
- After inserting the flare nut, flaring work is carried out.



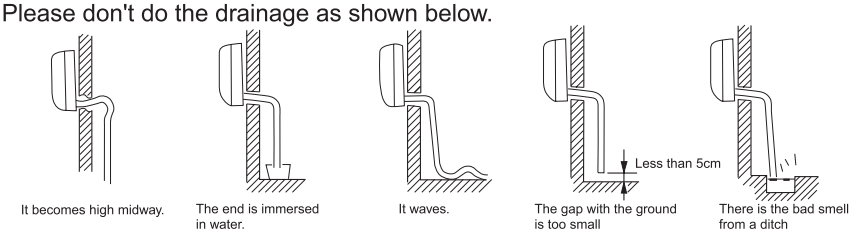
Flare tooling die

	Pipe diameter(ϕ)	Size A(mm)
Liquid side	6.35mm(1/4")	0.8~1.5
Gas side	9.52mm(3/8")	1.0~1.8
Gas side	12.7mm(1/2")	1.2~2.0



3.On Drainage

Please install the drain hose so as to be downward slope without fail.
Please don't do the drainage as shown below.



- Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor.
- In case that the attached drain hose is in a room, please apply heat insulation to it without fail.

Check for Installation and Test Run

- Please kindly explain to our customers how to operate through the instruction manual.

Check Items for Test Run ☐ Put check mark ✓ in boxes

☐ Gas leak from pipe connecting?
☐ Heat insulation of pipe connecting?
☐ Are the connecting wirings of indoor and outdoor firmly inserted to the terminal block?
☐ Is the connecting wiring of indoor and outdoor firmly fixed?
☐ Is drainage securely carried out?
☐ Is the earth line securely connected?
☐ Is the indoor unit securely fixed?
☐ Is power source voltage abided by the code?
☐ Is there any noise?
☐ Is the lamp normally lighting?
☐ Are cooling and heating (when in heat pump) performed normally?
☐ Is the operation of room temperature regulator normal?

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

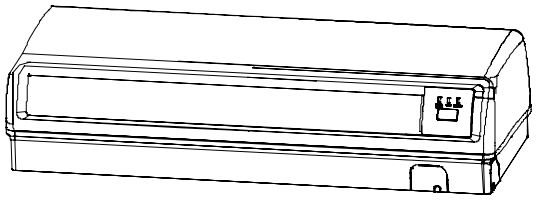
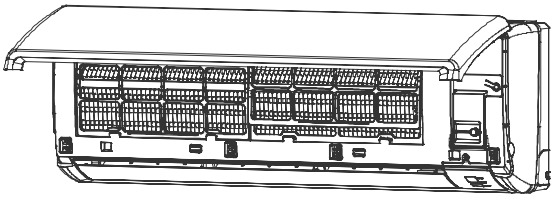
9. Removal Procedure

Indoor unit

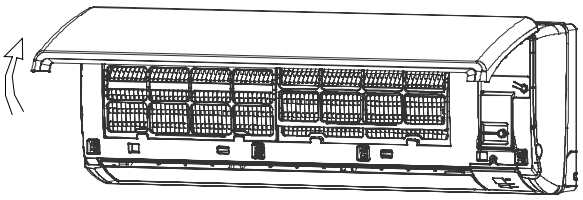
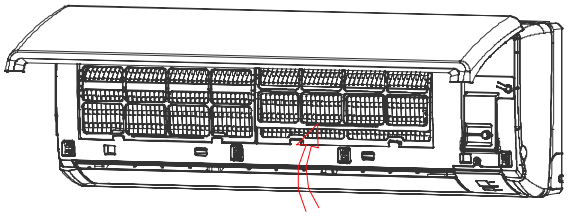
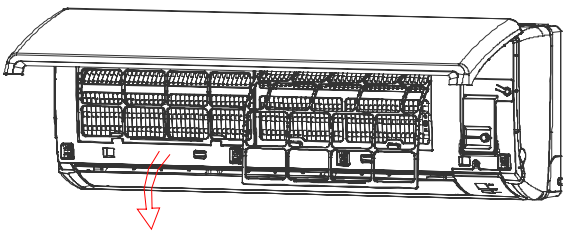
9.1 Removal of Air Filter

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Features		
2. Remove the air filters.		
1 Hold the front panel by the tabs on the both sides and lift it until it stops with a click.		

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Step	Procedure		Points
2	Lift an air filter upwards slightly and then pull it out downwards.	  	■ Please embed the air filters into the unit along the grooves as installation. ■ Please embed the hooks on air filter completely into the unit during installation.

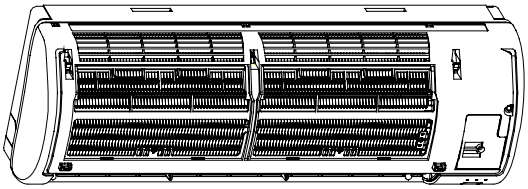
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

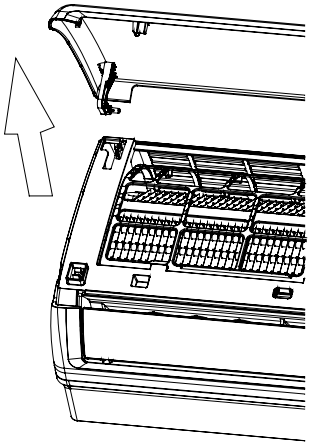
9.2 Removal of Front Panel

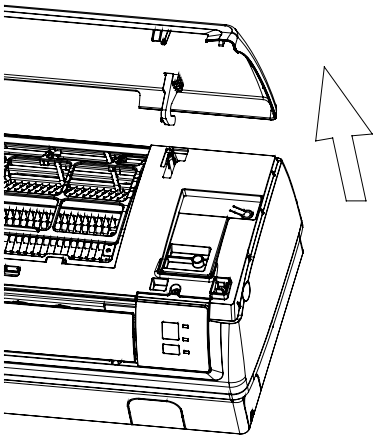
Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

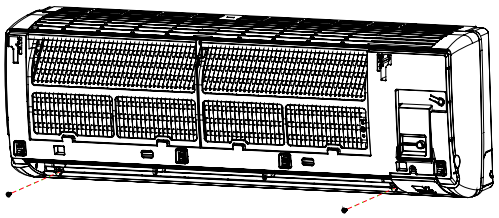
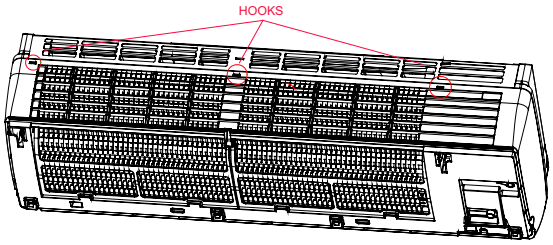
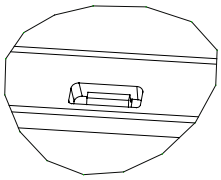
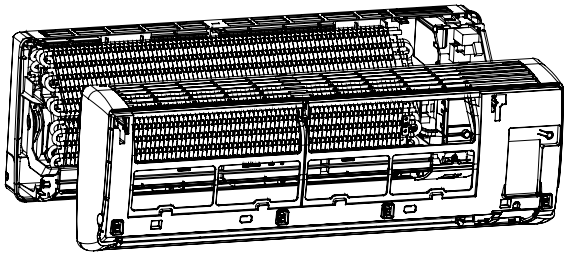
Step	Procedure	Points
1. Remove the front panel.		
1	Open the front panel until it is on the horizontal position, and then release the pivots on both sides of the unit to remove the front panel.	■ Please close the panels before start the removal procedure of front grille. ■ Slide the front panel from one side to another to release each axis. ■ When assembling, align the right and left axes with grooves in turn and insert them to the end.







Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

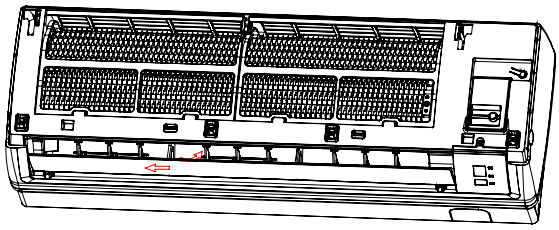
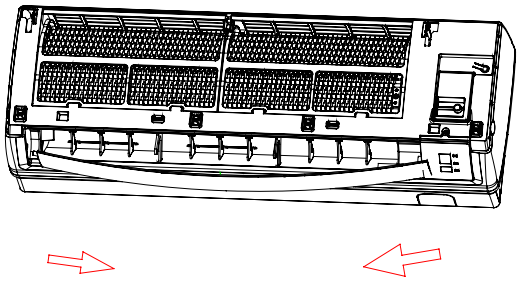
Step	Procedure		Points
2	Loosen the marked two screws		
3	Release the marked three hooks.	 	
4	Pull the front grille out horizontally and remove it.		■ When assembling, install the front grille horizontally so as not to stuff the flap inside. ■ When assembling, make sure the three hooks are caught properly.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

9.3 Removal of horizontal flap

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

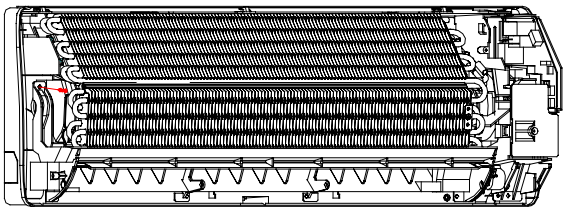
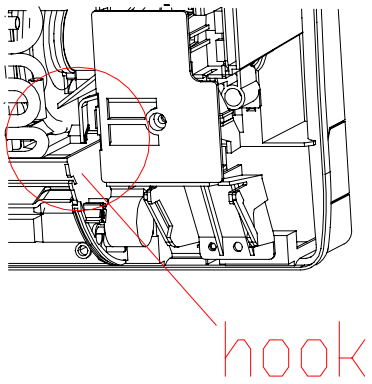
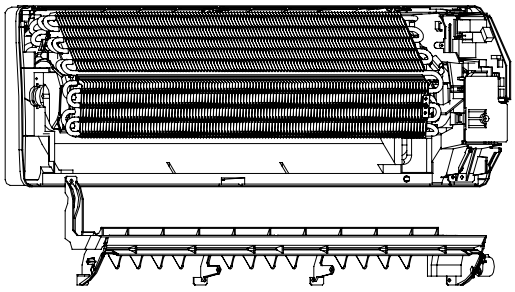
Step	Procedure		Points
1. Remove the horizontal			■ The horizontal flap is single.
1	Release the center pivot.		
2	Bend the horizontal blade slightly and remove it.		■ Installation procedure 1. Since key pattern hook is provided, rotate the flap and fit it to the left pivot first. 2. Fit the flap to the right pivot. 3. Fit the flap to the center pivot.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

9.4 Removal of Drain pan

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the Drain pan		
		
1	Loosen the marked screws under the screw covers	
		
2	Lift up the lower part of the grille to release the hook on the upper backside.	
		
3	Rotate the upper part of the grille to release the hook on the lower back side. Pull out the drain pan	

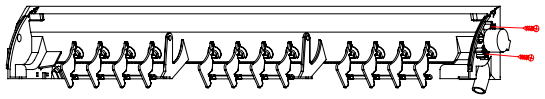
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

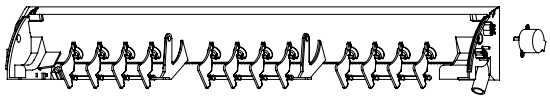
9.5 Removal of Vertical Blades and Swing Motor

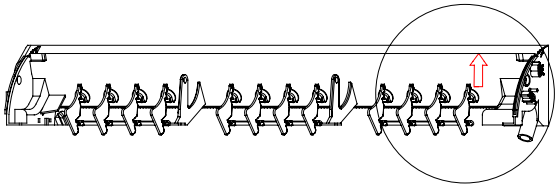
Procedure

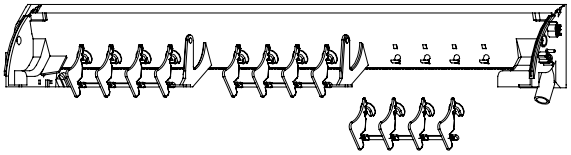
Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

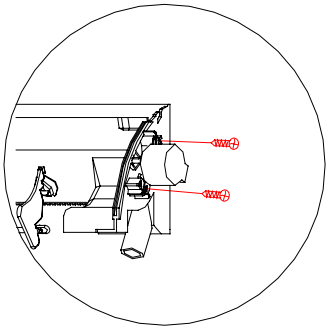
Step	Procedure	Points
■ Remove the assembly of the outlet grille.		
1. Remove the vertical blades.		
1	Push the hooks on the back of the vertical blades and remove.	

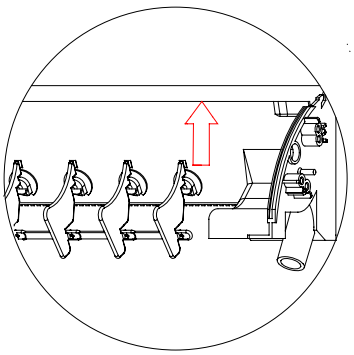










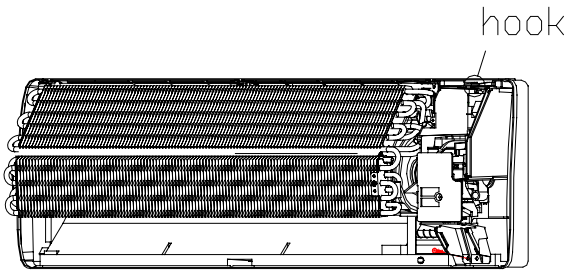
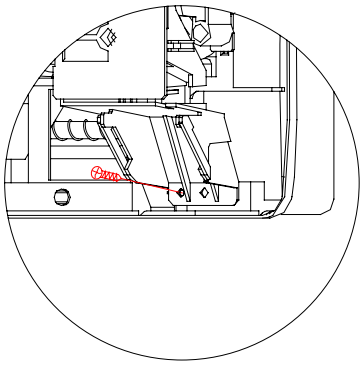
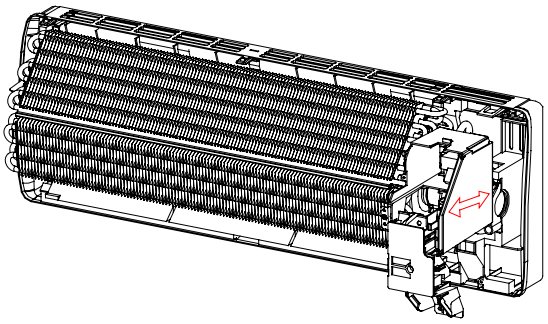


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

9.6 Removal of Electrical Box

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

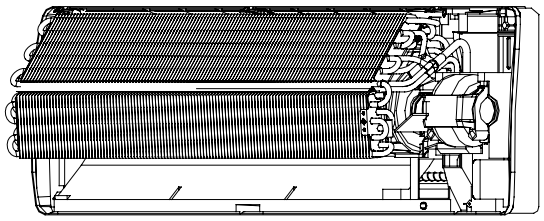
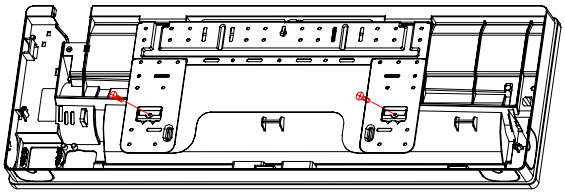
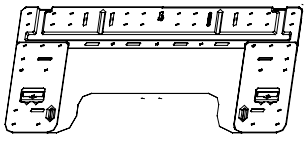
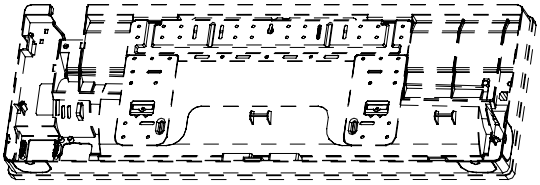
Step	Procedure	Points
■ Remove the front grille.		■ Discharge the static electricity from your body before touching the electrical parts like signal receiver PCB. It may cause malfunction of PCB.
1. Remove the electrical box.		
1 Loosen the screw of the drip proof plate.	 	
2 Lift and remove the electrical box.		■ When assembling, insert the left hook of the drip proof plate into the hem plate of the heat exchanger.

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

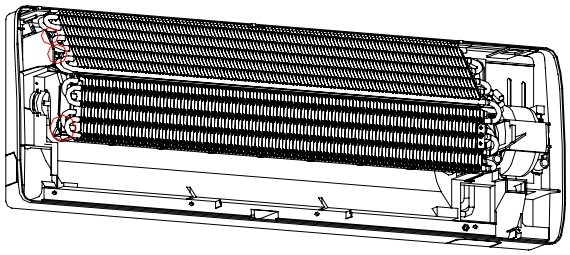
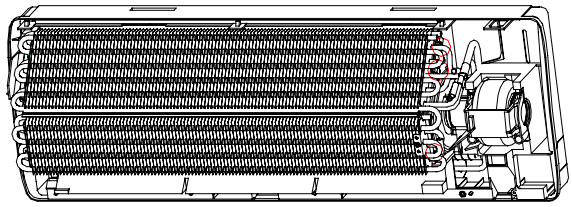
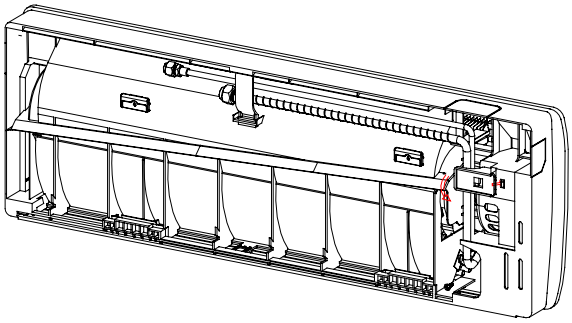
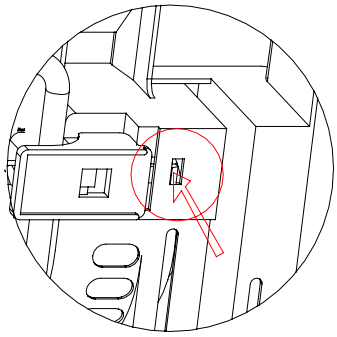
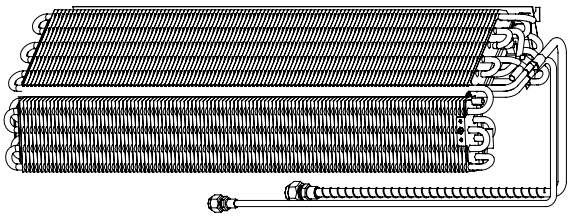
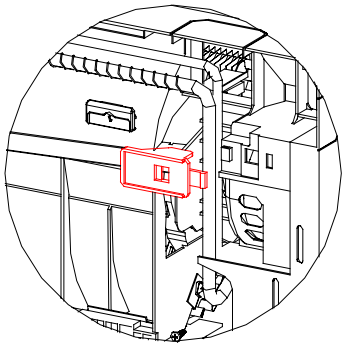
9.7 Removal of Heat Exchanger

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
		■ You can detach the indoor unit without removing the assembly of the outlet grille.
1	Loosen the screws fixed to the installation plate.	Caution If gas leaks, repair the spot of leaking, then collect all refrigerant from the unit. After conducting vacuum drying, recharge proper amount of refrigerant.
2	Loosen the marked hooks	Caution Do not contaminate any gas (including air) other than the specified refrigerant (R410A), into refrigerant cycle. (Contaminating of air or other gas causes abnormal high pressure in refrigerating cycle, and this results in pipe breakage or personal injuries.)
		
3	Loosen the marked screws and remove mounting plate	■ Pay attention so that the residual water in the drain will not make the floor wet. ■ In case that a drain hose is buried inside a wall, remove it after the drain hose in the wall is pulled out. ■ Use two wrenches to disconnect pipes. ■ When disconnecting pipes, cover every nozzle with caps so as not to let dust and moisture in.
		
		

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Step	Procedure	Points
1	Release the hooks	
2	Release the hook from the back side. Lift up the lower part of the fixture plate and remove it.	  
6	Remove the heat exchanger	 

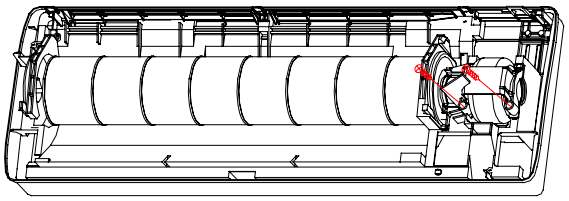
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

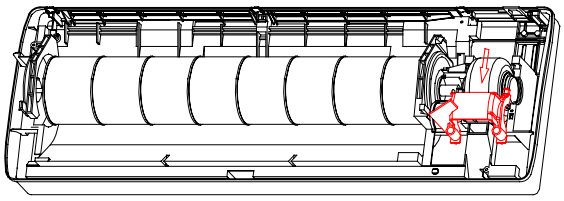
9.8 Removal of Fan Rotor and Fan Motor

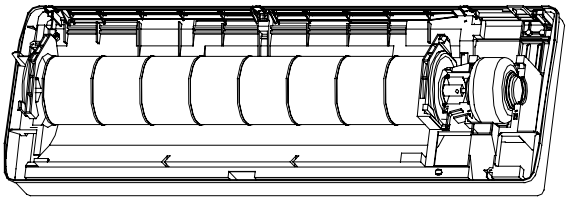
Procedure

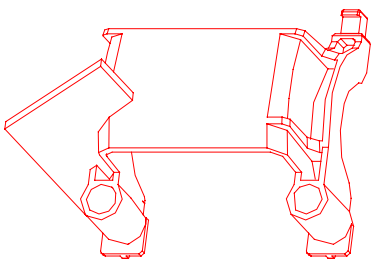
Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the right side plate.		
1	Loosen the 2 screws.	
2	Remove the fixing plate.	



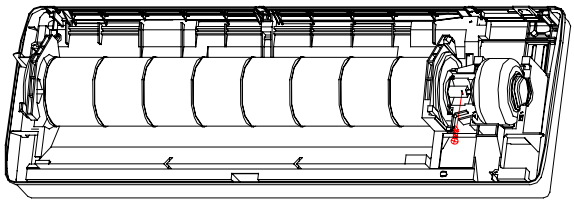


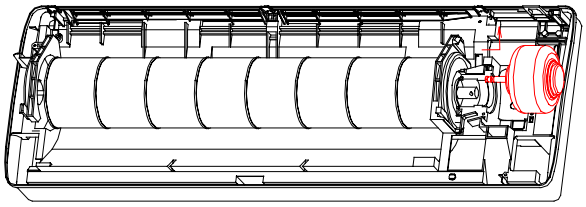


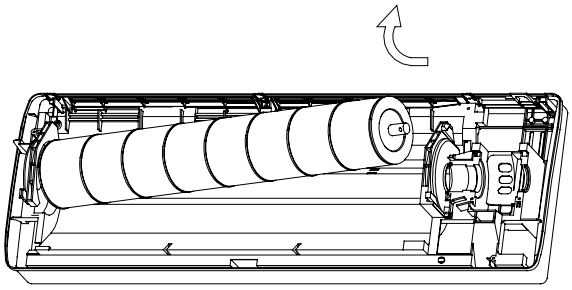


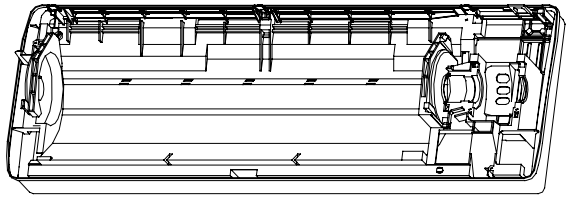
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

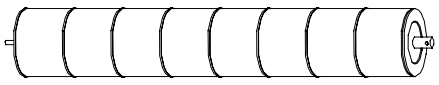
Step	Procedure	Points
3. Remove the fan.		
1	Loosen the marked screw.	
2	Lift up the right part of the fan motor and slide it to the rightward to remove.	
3	Lift up the right part of the fan and remove it	











Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

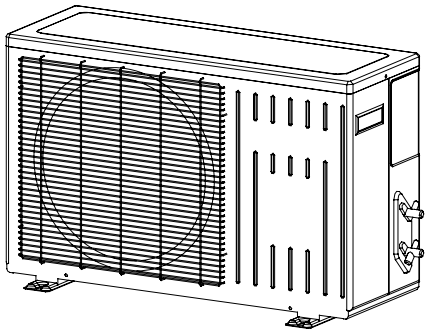
Outdoor unit

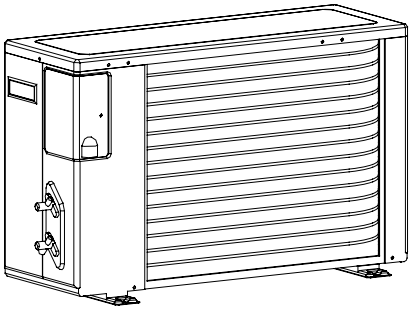
9.9Removal of Outdoor panel

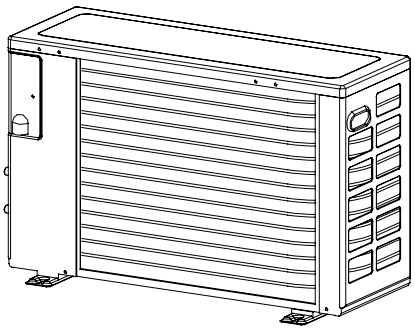
Procedure

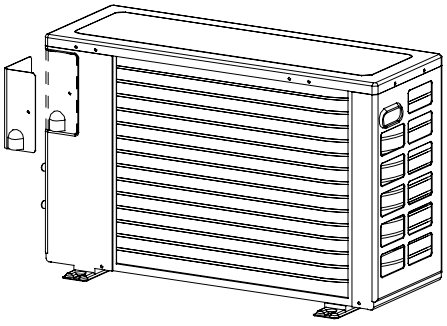
Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Features		
1	Loosen the service cover screw and remove the service cover.	■ Be careful not to cut your finger by the fins of the heat exchanger.



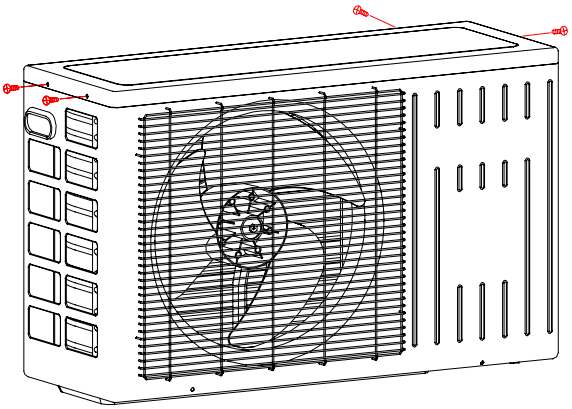


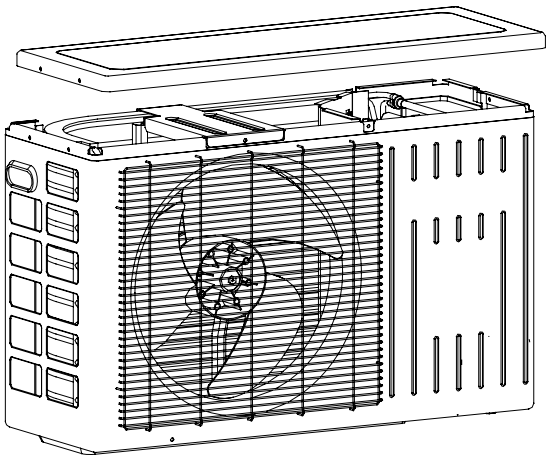




Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

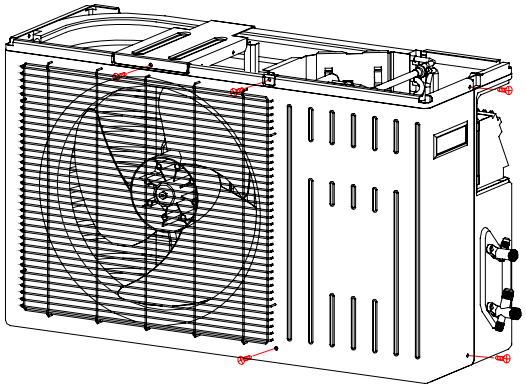
Step	Procedure	Points
2. Remove the panels.		
1	Loosen the 4 screws and lift the top panel	

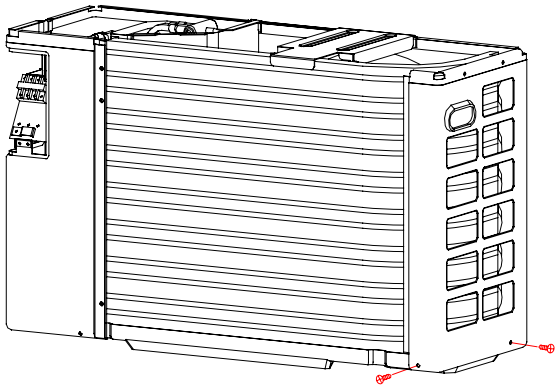


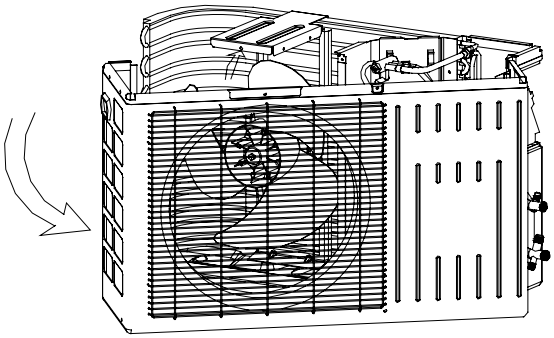


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

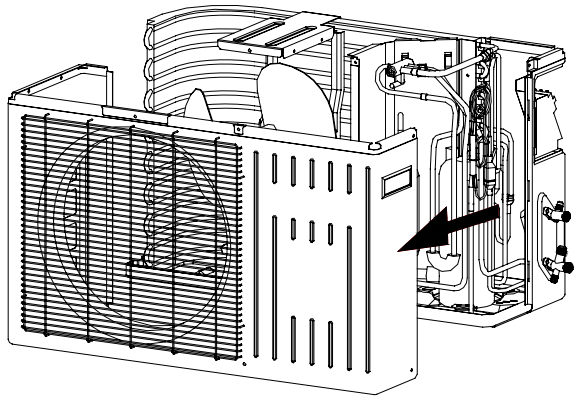
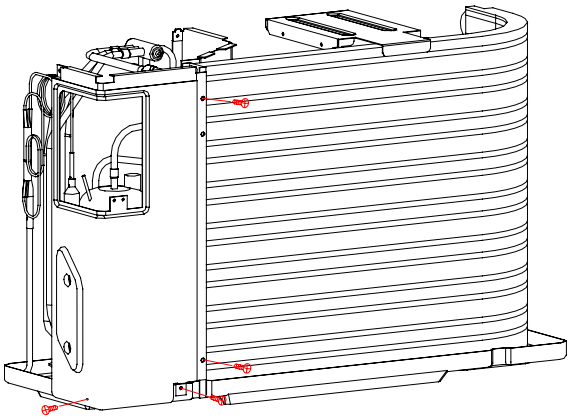
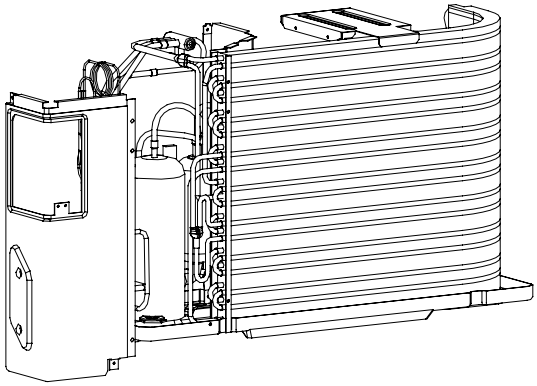
Step	Procedure	Points
2	Loosen the screws of the panel.	







Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Step	Procedure	Points
3	Pull and remove the front panel.   	

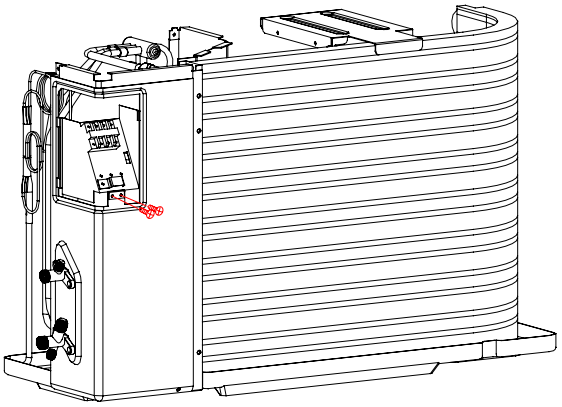
Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

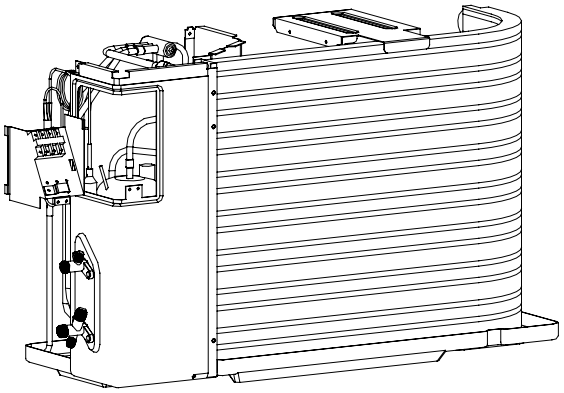
9.10 Removal of Electrical Box

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the fixing screws Then lift the electrical box	



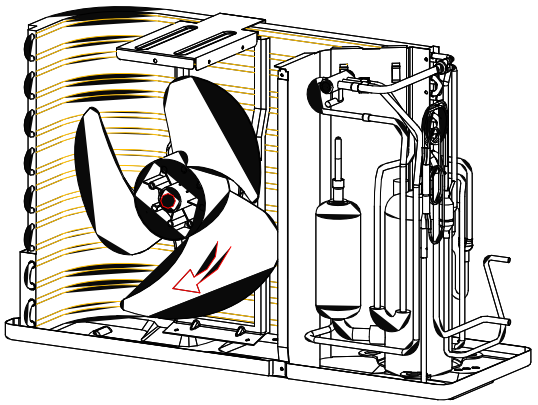
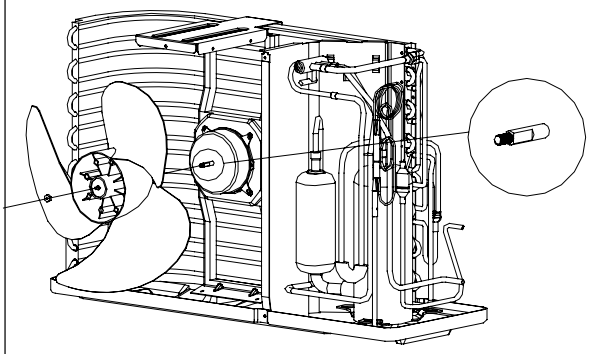
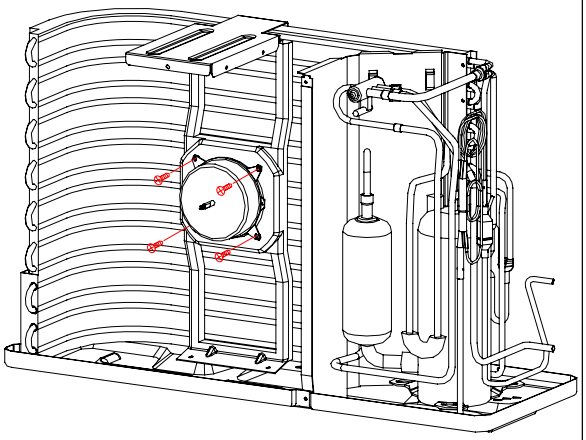
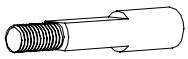


Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

9.11 Removal of Fan and Fan Motor

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

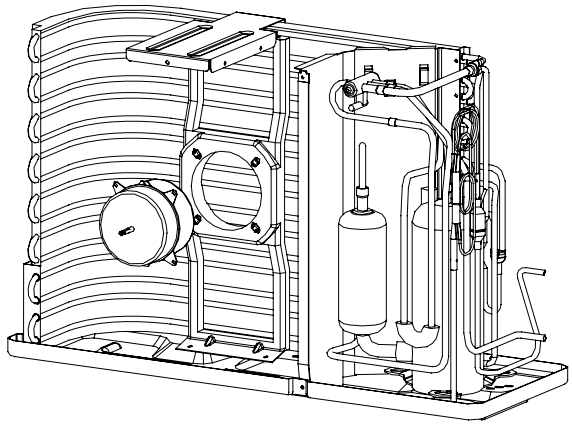
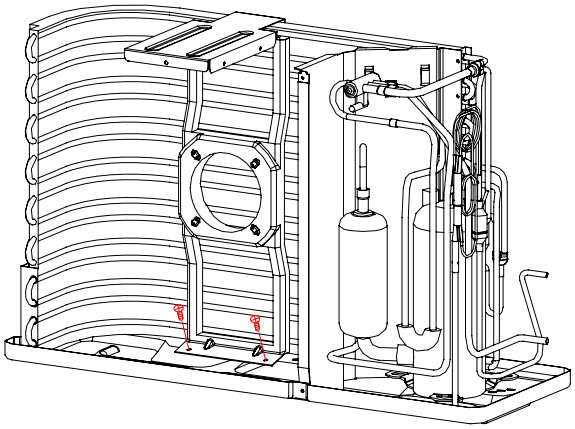
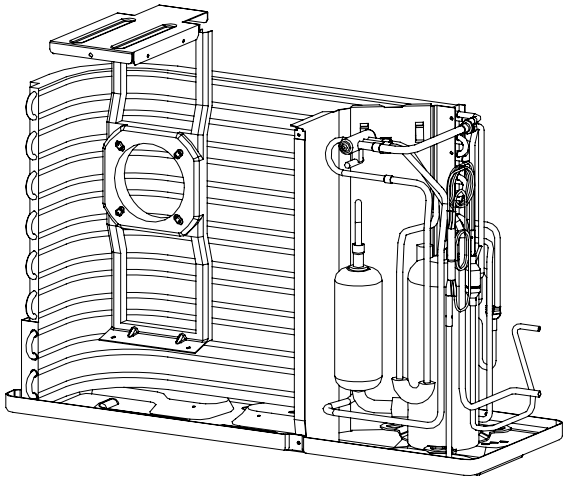
Step	Procedure		Points
1	Loosen the fixing screw and remove the fan	  	 ■ Put the lead wire through the back of the motor when assembling. (so as not to be entangled with the propeller fan)

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

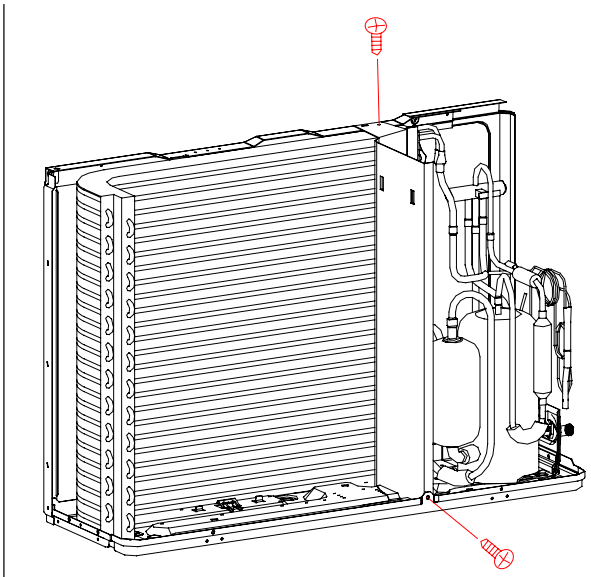
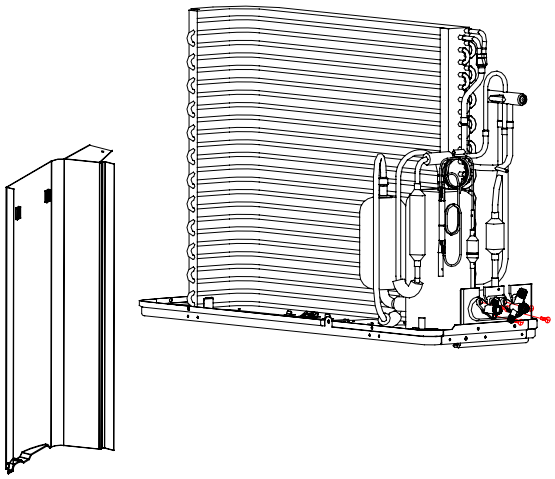
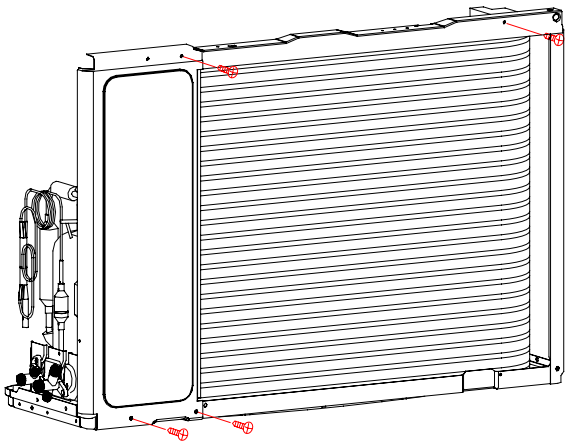
9.12 Removal of fan motor bracket and partition

Procedure

Warning Be sure to wait 10 minutes or mo before disassembling work.

Step	Procedure	Points
1	Loosen the fixing screws and lift the fan motor bracket .   	

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

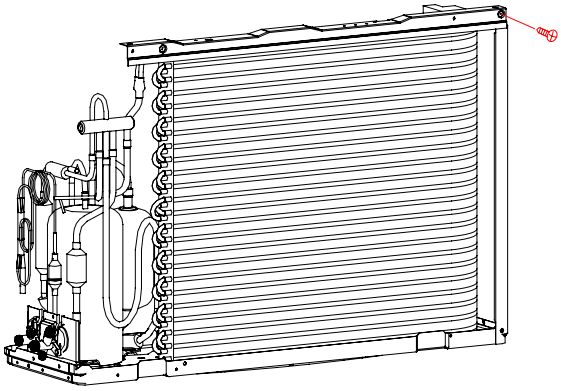
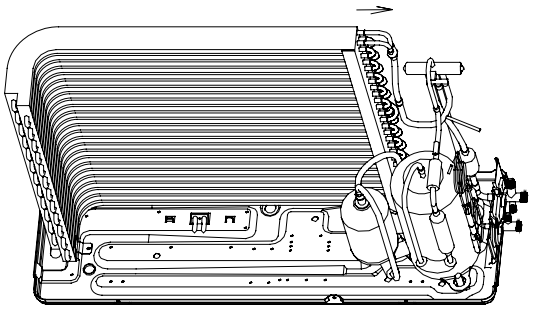
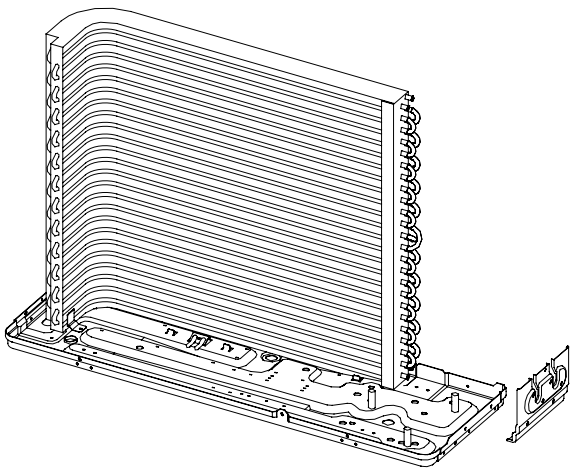
Step	Procedure	Points
3	Loosen the 2 screws 	
4	The partition plate has a hook on the lower side.Lift and pull the partition plate to remove. 	■ When assembling ,fit the lower hook into the bottom frame .
5	Loosen the marked fixing screws 	

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

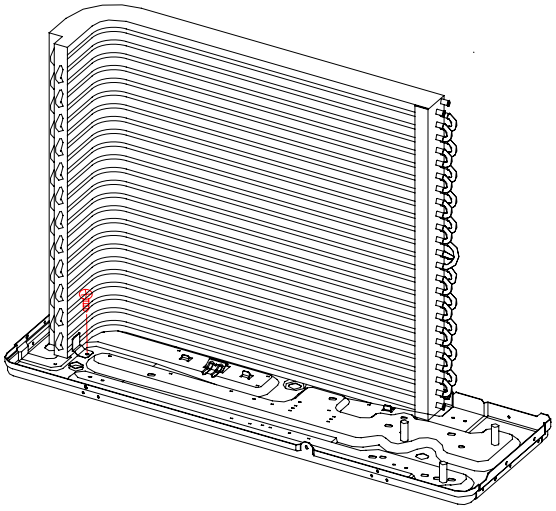
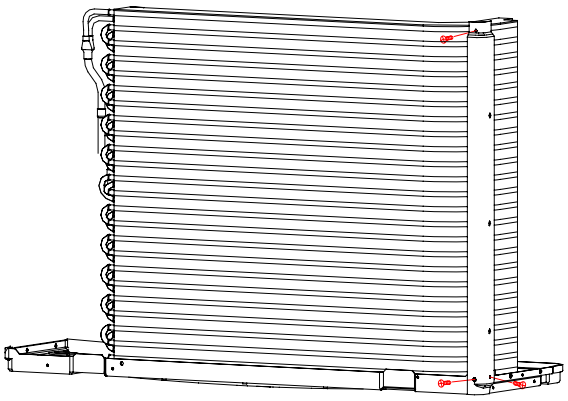
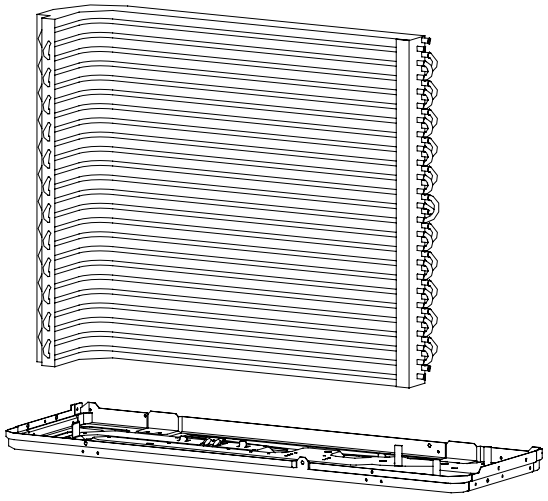
9.13 Removal of compressor and heat exchanger

Procedure

Warning Be sure to wait 10 minutes or more after tu before disassembling work.

Step	Procedure	Points
1	Loosen the marked screw . 	
2	Cut down the conecting pipe and pull out the compressor and remove the valve bracket .  	

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

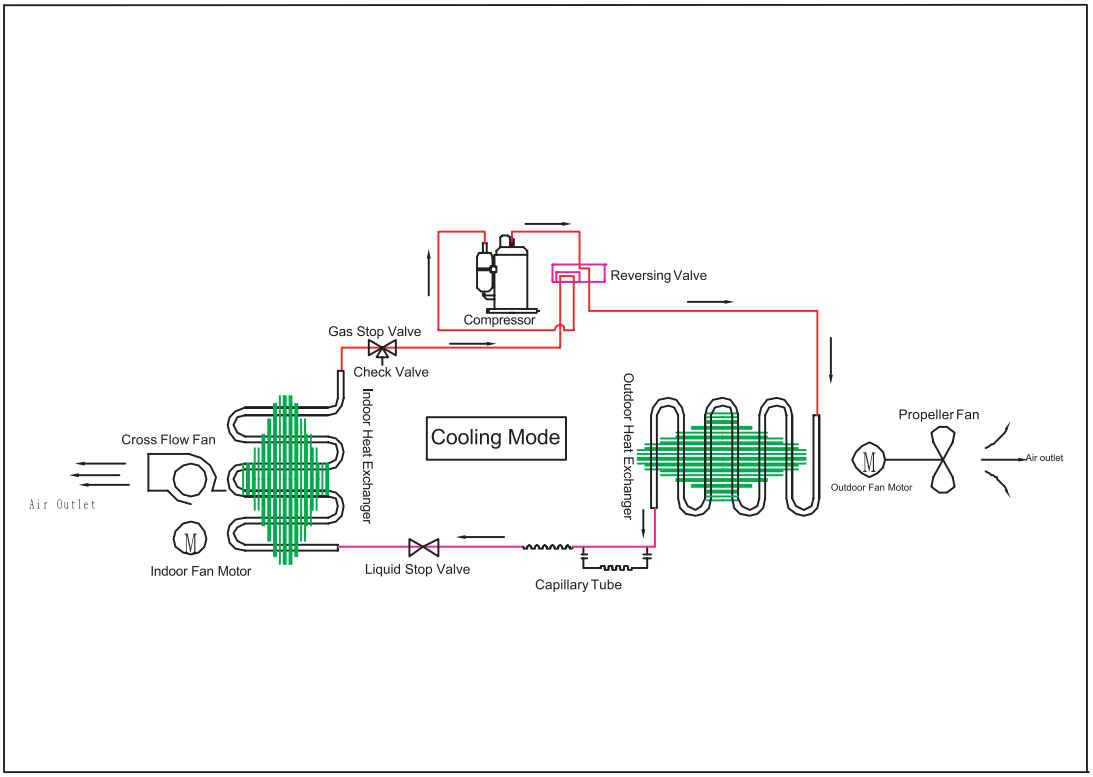
Step	Procedure	Points
3	Loosen the marked fixing screw . 	
4	Loosen the fixing hook and remove the heat exchanger .  	

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

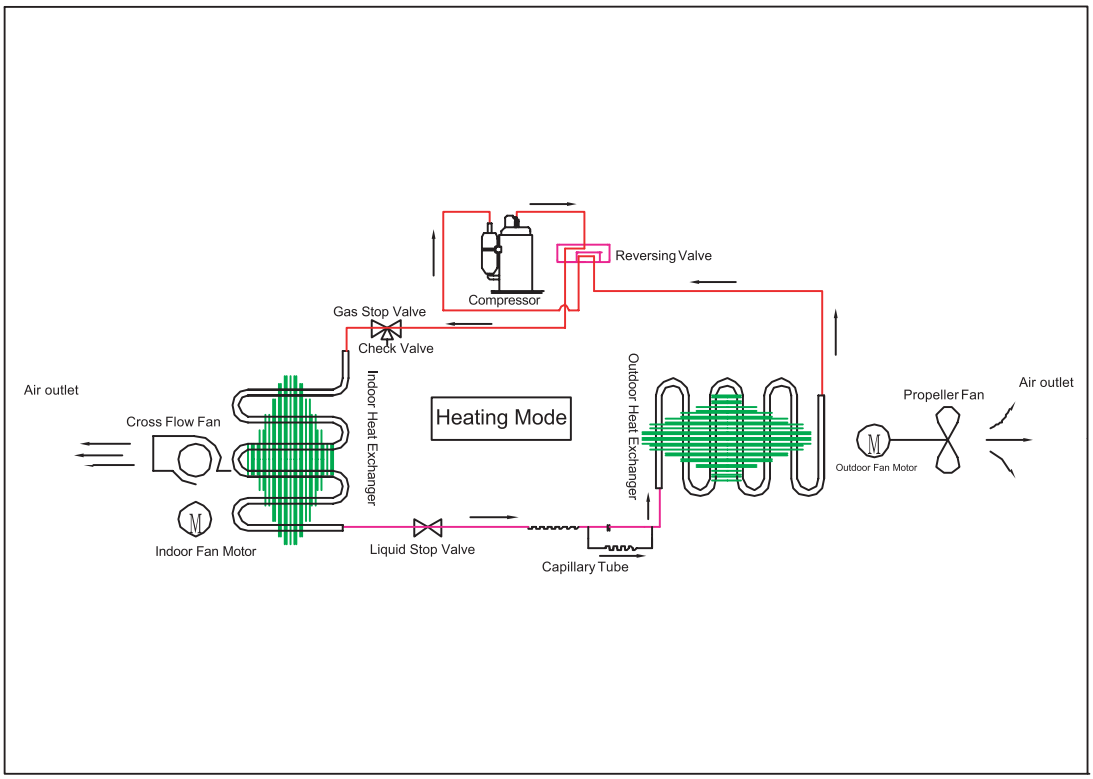
10. Appendix

10.1 Piping Diagrams

Cooling mode



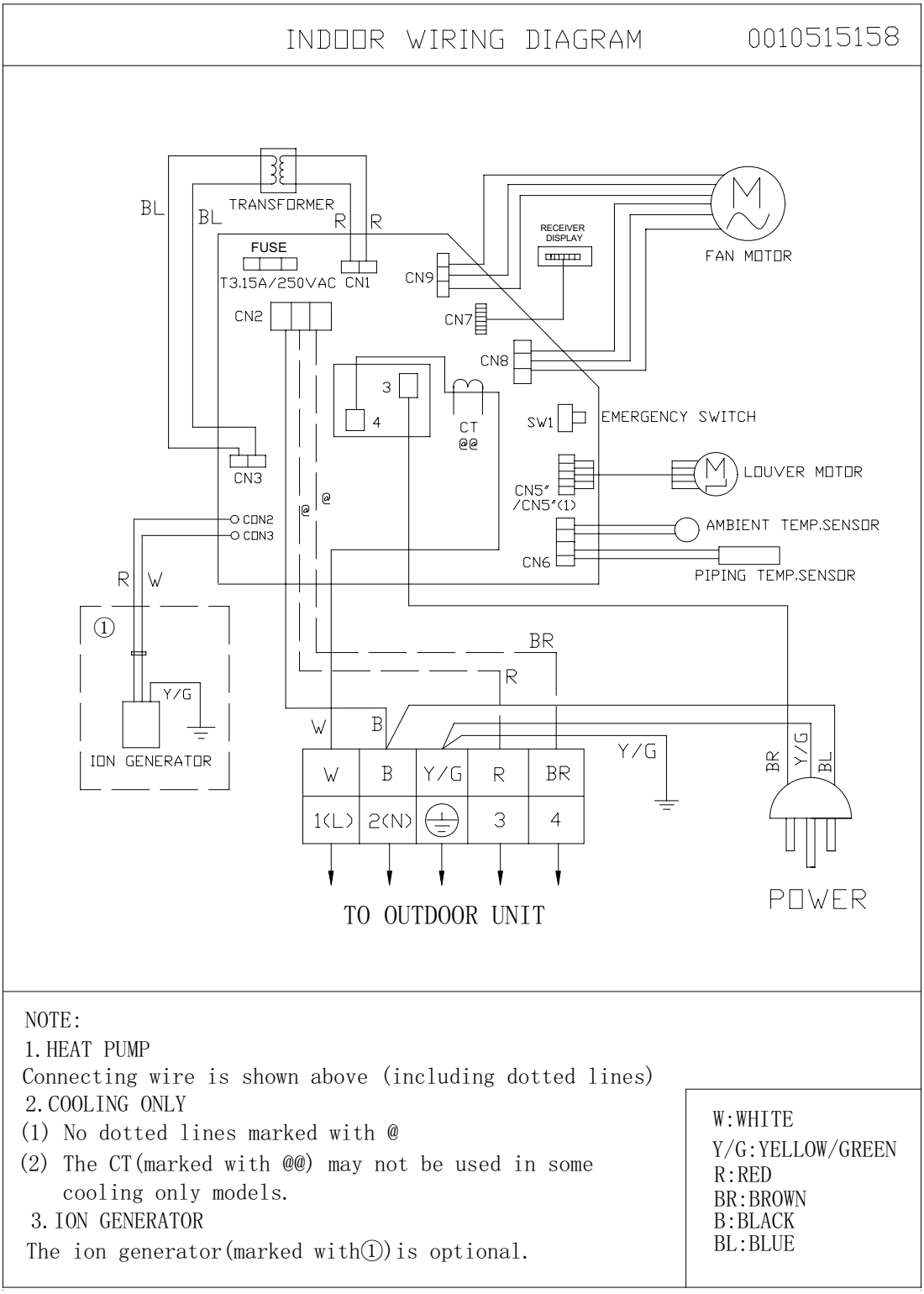
Heating mode



Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

10.2 Wiring Diagrams

Indoor



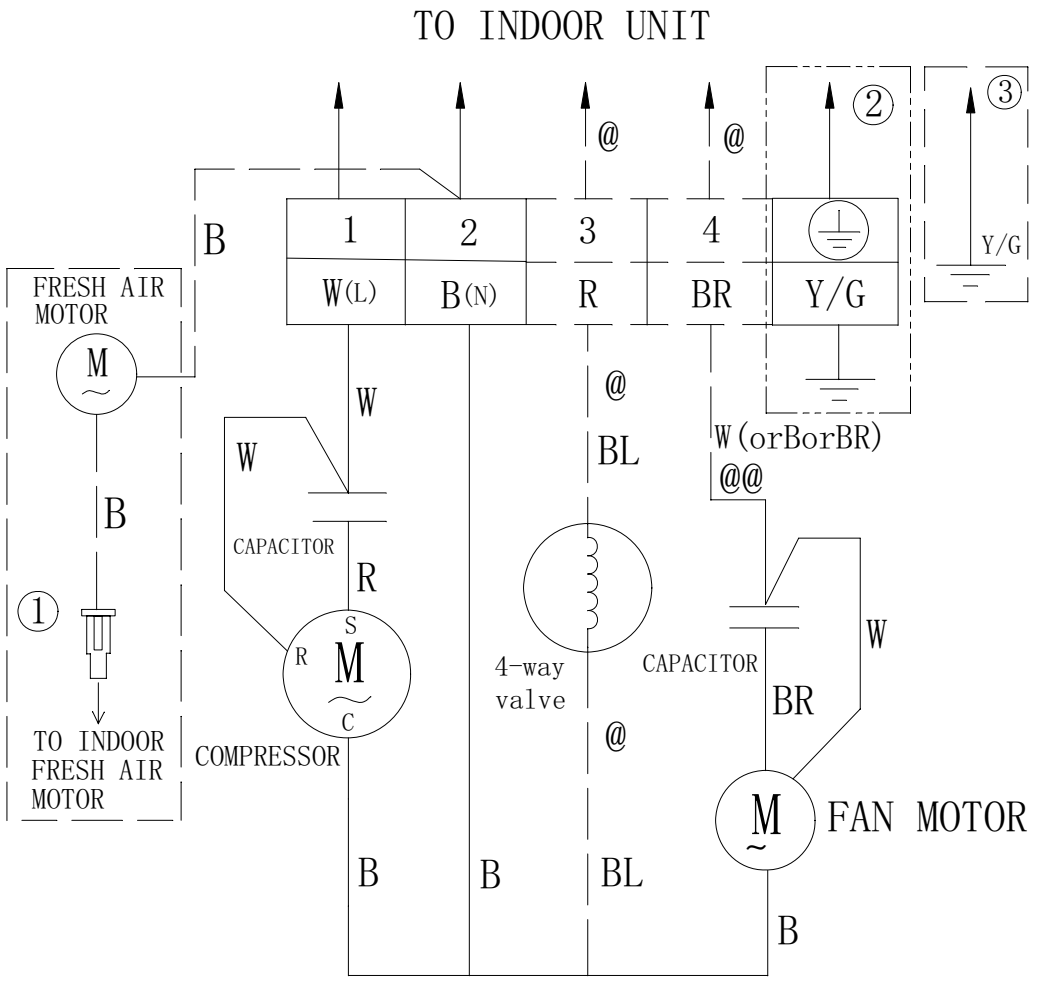
NOTE:
1. HEAT PUMP
Connecting wire is shown above (including dotted lines)
2. COOLING ONLY
(1) No dotted lines marked with @
(2) The CT(marked with @@) may not be used in some cooling only models.
3. ION GENERATOR
The ion generator(marked with①)is optional.

W:WHITE
Y/G:YELLOW/GREEN
R:RED
BR:BROWN
B:BLACK
BL:BLUE

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

Outdoor

OUTDOOR DIAGRAM 0010560078



NOTE:

1.See above for wiring of heat p ump type.

2.There are no dotted lines on c ool only type.(marked with @),Wire is connected fro m 4 (marked with @@)on terminal block to 1.

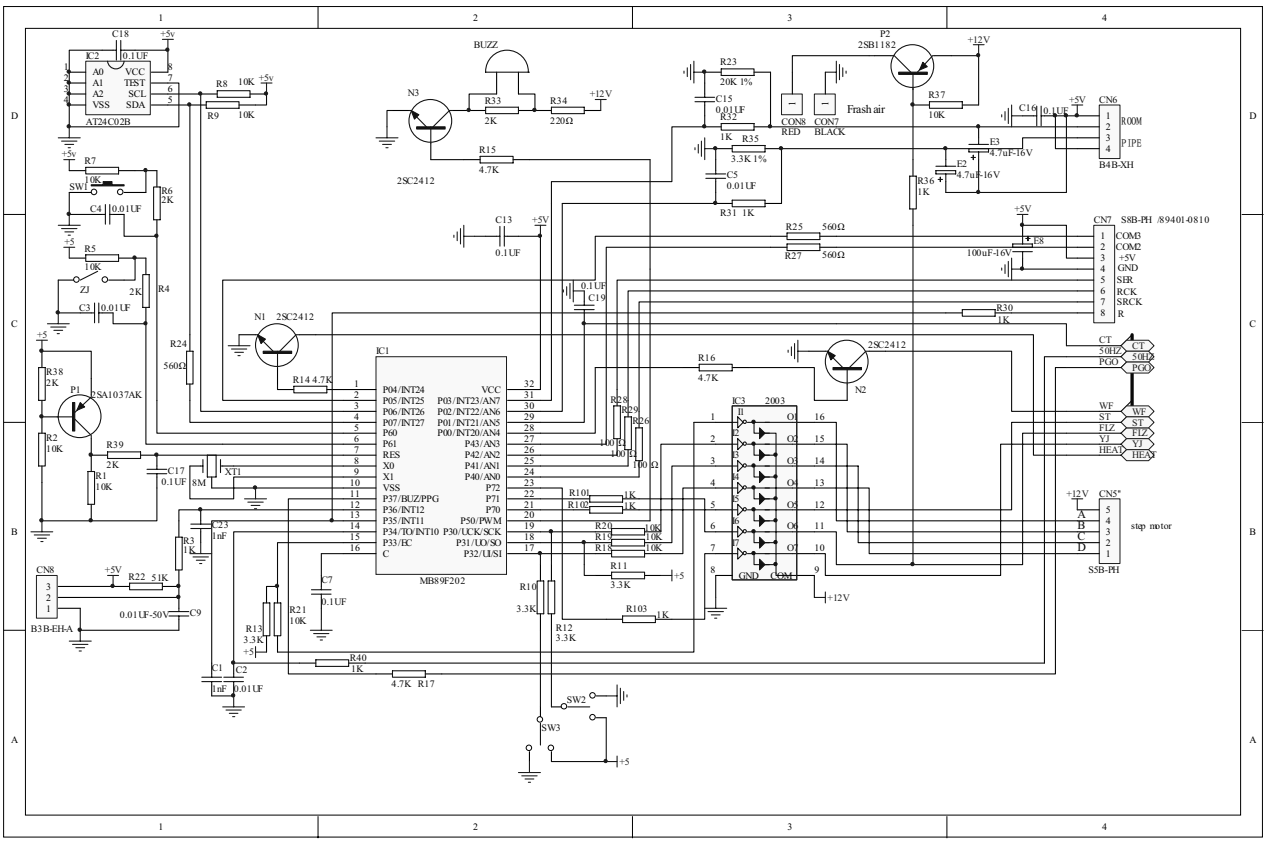
3.Some of cool only type termina l block only have 1、2 and ③ but no the parts ②.

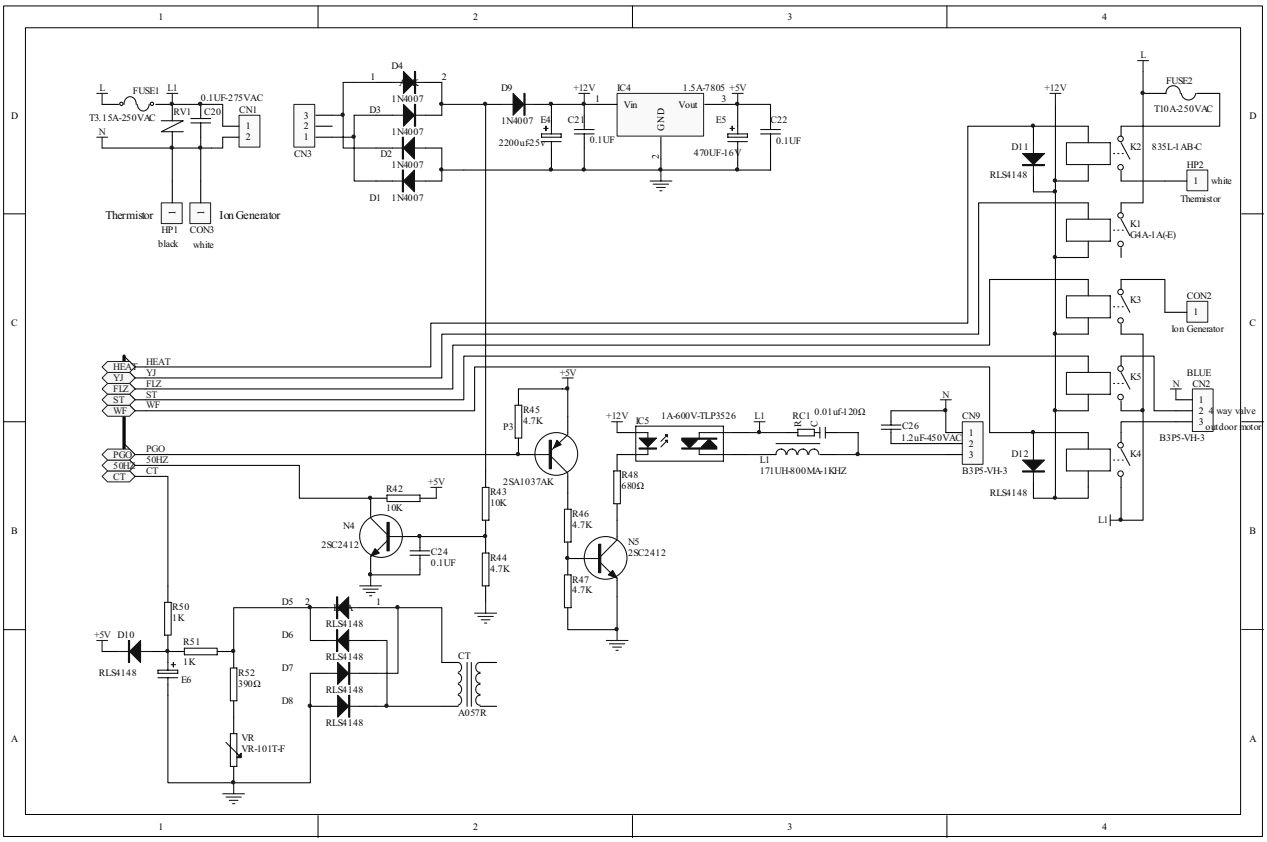
4.The parts ① are optional.

BL:BLUE
B : BLACK
R RED
W: WHITE
B BROWN
R
Y: YELLOW/GREEN
/
G
:

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html

10.3 Circuit Diagram





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Sincere Forever

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