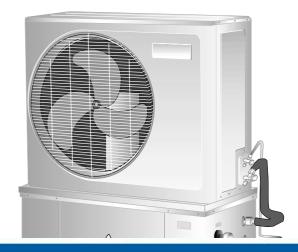


INSTALLATION MANUAL









Большая библиотека технической документации

https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

каталоги, инструкции, сервисные мануалы, схемы.

INSTALLATION MANUAL

This manual provides the procedures of installation to ensure a safe and good standard of operation for the air conditioner unit.

Special adjustment may be necessary to suit local requirements.

Before using your air conditioner, please read this instruction manual carefully and keep it for future reference.

AIR COOLED MINI CHILLER

Models

MODEL

Reference Model

	1120000
AC040A	AMAC040A / MAC040A
AC050A	AMAC050A / MAC050A
AC058A	AMAC058A / MAC058A
AC040AR	AMAC040AR / MAC040AR
AC050AR	AMAC050AR / MAC050AR
AC058AR	AMAC058AR / MAC058AR
AC075B	AMAC075B / MAC075B
AC100B	AMAC100B / MAC100B
	AMACIOUB / MACIOUB
AC125B	AMAC125B / MAC125B



AC075BR

AC100BR

AC125BR

Большая библиотека технической документации

AMAC075BR / MAC075BR

AMAC100BR / MAC100BR

AMAC125BR / MAC125BR

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каталоги, инструкции, сервисные мануалы, схемы.

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SAFETY PRECAUTIONS

Before installing the air conditioner unit, please read the following safety precautions carefully.

Marning

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazards due to insulation failure.
- All electrical wiring must not touch the refrigerant piping, compressor or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.

IMPORTANT

DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.

⚠ Caution

Please take note of the following important points when installing.

• Do not install the unit where leakage of flammable gas may occur.



If gas leaks and accumulates around the unit, it may cause fire ignition.

• Ensure that the drainage piping is connected properly.



If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.

• Do not overcharge the unit.



This unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.

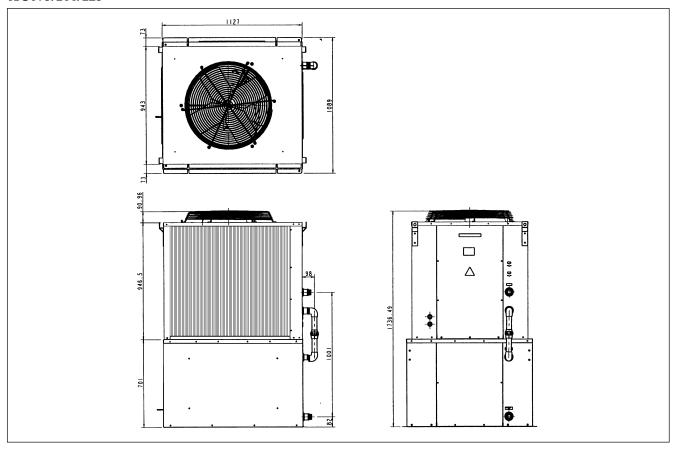
Ensure that the units panel is closed after service or installation.



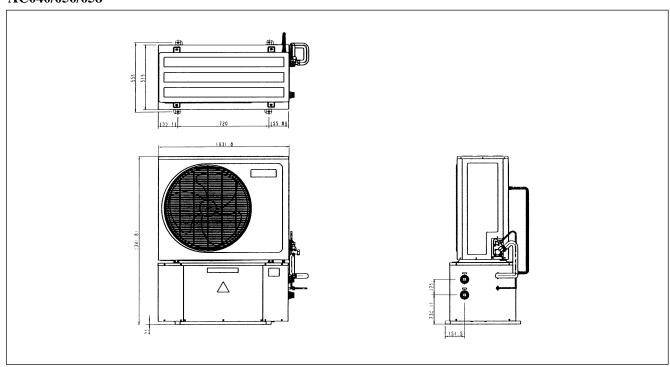
Unsecured panels will cause unit to operate noisily.

OUTLINE AND DIMENSIONS

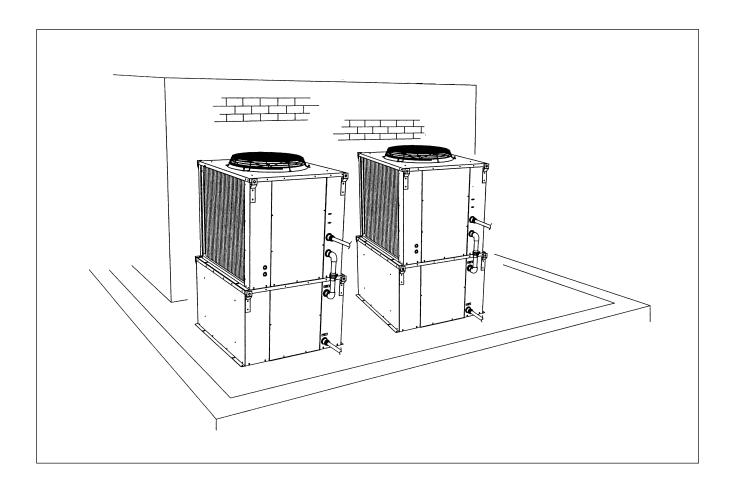
AC075/100/125

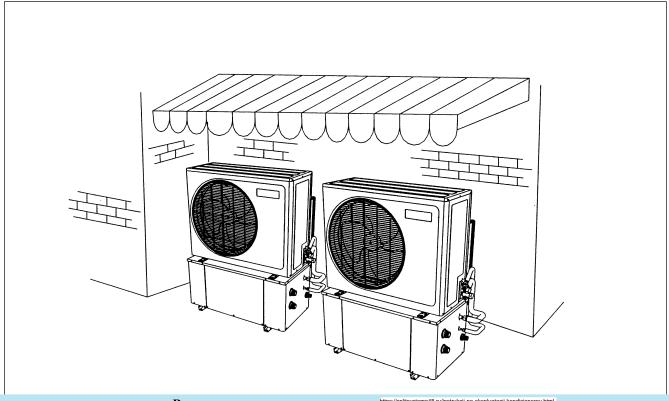


AC040/050/058

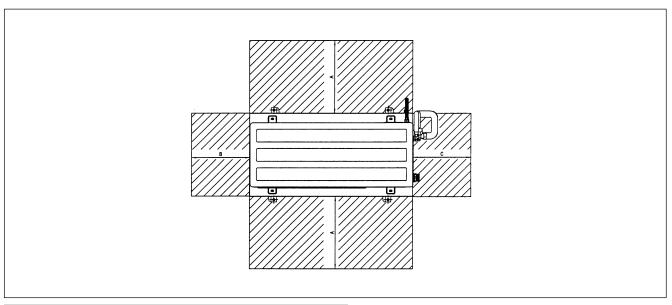


UNIT INSTALLATION

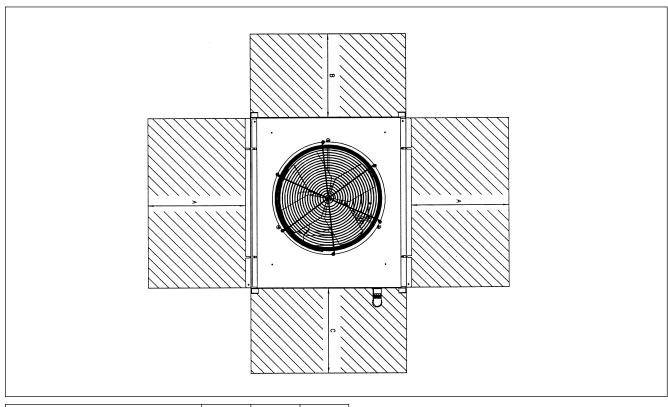




Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html



MODEL	A	В	С
AC040 – 058A AC040AR – 058AR	950mm	900mm	900mm



MODEL	A	В	C
AC075 – 125B	950mm	900mm	900mm

REFRIGERANT CIRCUIT

All mini chiller series is precharged with refrigerant R22, the only pipe work that needs to be done is to connect the water piping between the mini chiller (outdoor unit) and the fan coil (indoor unit).

Purging of the refrigerant R22 in AC040A/AR \sim 058A/AR series is only required if the unit is installed separately with hydraulic kit.

WATER FILLING

In this close water system, the pump can cater for longer piping compared to normal direct expansion units.

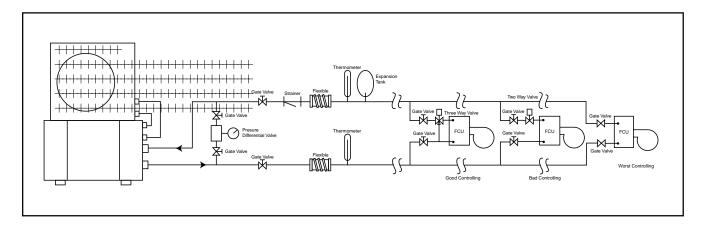
After connecting all the pipes and equipments, filling water in the circuit, perform leak check for all the connections and joints. Do not start the unit when the system is leaking.

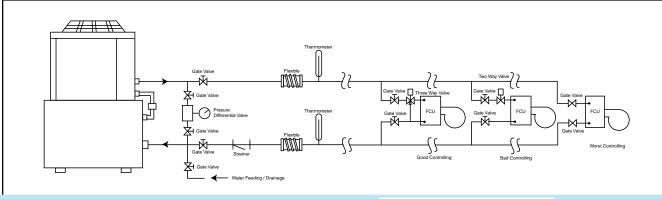
To optimize the capacity of the system, ensure that the system is free of air bubbles or air-traps. Air traps in the system seriously unbalance the whole system. It is very important to check the whole water system especially ensuring that the water tank is not full of water. This protection step is not only to prevent tank & piping corrosion but also to ensure optimum performance of the unit. This can be done by releasing the air trap from the auto-air-vent (water tank) and manual air vent (installed in the highest place of the water system).

ELECTRICAL WIRING CONNECTION

MODEL	AC040A/AR ~ AC058A/AR	AC075B/BR	AC100B/BR	AC125BR
Voltage Range	380 – 420V/3ph / 50Hz +			
Power Supply Cable Size Number of conductor	4	6	10	16
Interconnection Cable Size (mm²)	2.5	2.5	2.5	2.5

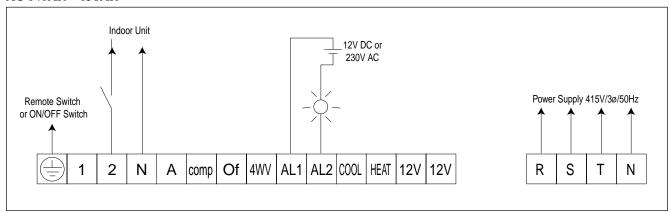
IMPORTANT: These values are for information only. They should be checked and selected to comply with local and/or national codes of regulations. Which is also subject to the type of installation and size of conductors used.



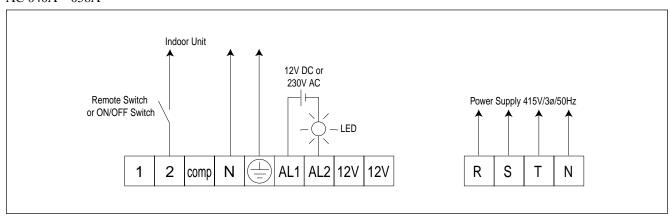


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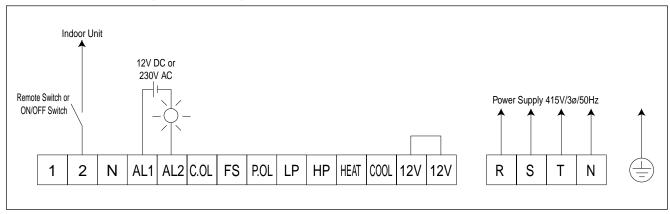
AC 040AR ~ 058AR



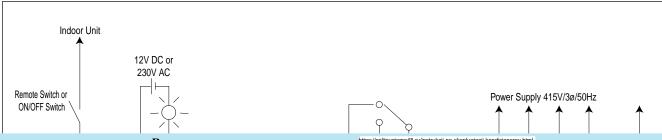
AC 040A ~ 058A AC 040A ~ 058A



AC 075B ~ 125B AC 075B ~ 125B (EXPORT SPEC)



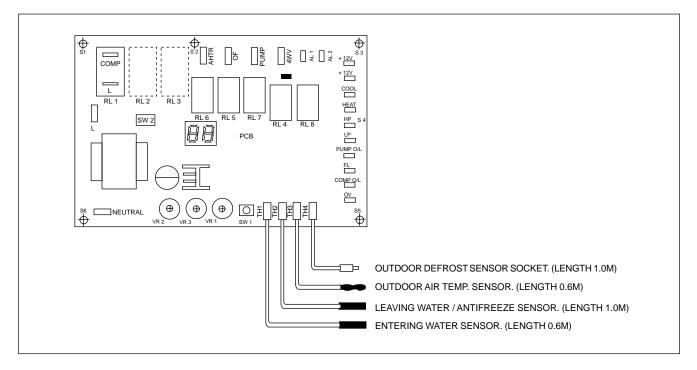
AC 075BR ~ 125BR AC 075BR ~ 125BR (EXPORT SPEC)



Все каталоги и инструкции здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html

CHILLER CONTROL OPERATION GUIDE

- 1. ON/OFF Toggle switch
 - Push up to start the chiller.
 - Push down to switch off the chiller for servicing and maintenance.
- 2. Water Entering Temperature °C (Factory Setting)
 - Cooling Mode, setting: 12°C
 - Heating Mode, setting: 40°C
- 3. Antifreeze Protection for Cooling Mode
 - Setting: 2°C
- 4. Temperature Setting
 - For cooling mode, press the SW1 button switch once. The green LED will blink for a few seconds. Adjust the small variable resitor (VR3) to the required water entering temperature of between (10°C 15°C) by using a suitable tool.
 - For extremely low water temperature (obtained by adding glycol), set the water entering temperature to between 3°C to 9°C by adjusting the DIP switch (SW2).



If the DIP switch is set to (0,0,0), the setting temperature will be determined by the VR3 setting. Otherwise,

- For heating mode, press the SW1 button switch twice and then the red LED will blink for a few seconds. Adjust the variable resistor (VR1) by setting it to the required water entering temperature which (35°C ~ 50°C) for heating mode.
- To prevent water from freezing in the system, adjust the variable resistor VR2. The setting range is between +3°C to -4°C.

Set	SW2			
Temperature °C	SW 2-3	SW2-2	SW2-1	
Set by VR3	0	0	0	
3	0	0	1	
4	0	1	0	
5	0	1	1	
6	1	0	0	
7	1	0	1	
8	1	1	0	
9	1	1	1	

TROUBLE SHOOTING

If any malfunction occurrs, immediately switch off the power supply to the unit, and contact a local dealer if necessary. Some simple trouble shooting tips are given below.

SYMTOMS	POSSIBLE CAUSES	REMEDIAL ACTION
Compressor does not start.	 No power supply. Fuses blown or automatic circuit break- down open. 	* Check power supply. * Look for short circuit or grounded wires in motor windings. Replace fuses and reset circuit breakers when the fault has been corrected. Check tightness and soundness of all
	 * Thermal relay tripped. * Defective contactor or coil. * Unit is stopped because safety device has 	electrical connections. * Reset the thermal relay and carefully monitor units operation when it is restarted. * Repair or replace. * Determine the type of safety shut down and
	tripped. * Loose wires.	* Check wire connections and tighten terminal screws.
	* Compressor faulty.	* Contact local dealer.
2. Fan does not work.	No power supply.Fan motor faulty.	* Check power supply. * Contact local dealer.
3. Air cooled mini chiller does work, but cools unsuffuciently.	 * Thermostat setting too high. * Condenser coil dirty. * Obstacle blocking air inlet or outlet of the unit. 	 * Reset thermostat. * Contact local dealer. * Remove the obstacle.
unsurructenary.	* Insufficient refrigerant in the system. * Improper water flow rate. * Water source contains contamination.	* Contact local dealer. * Contact local dealer. * Contact local dealer.
4. PCB display 'CO'.	* Compressor thermal relay tripped.* Terminal loose.	 Reset the thermal relay and carefully monitor units operation when it is restarted. Tighten terminal screws.
5. PCB display 'PO'.	* Pump thermal relay tripped.* Terminal loose.	Reset the thermal relay and carefully monitor units operation when it is restarted. Tighten terminal screws.
6. PCB display 'FL'.	 * Flow switch connection loose. * Wrong terminal in flow switch. * Water volume not enough. * Flow switch blade too short or too long. 	* Tighten terminal screws. * Change the terminal. * Add water into the system. * Replace flow switch.
7. PCB, display 'HP'.	 Discharged pressure too high Overcharge. Coil dirty. Condenser Fan does not work 	Reset the pressure switch and observe the units operation when it is restarted. Contact local dealer. Clean the coil with chemical detergent. Contact local dealer.
	* Expansion valve stuck in open position	* Replace it.
8. PCB display 'LP'.	* Suction pressure too low	ни здесь: https://splitsystema48.ru/instrukcii-po-ekspluatacii-kondicionerov.html * Reset the pressure switch and observe the units
	* Undercharge* Gas Leak* Water flow rate too low	operation when it is restarted. * Contact local dealer. * Contact local dealer. * Adjust the flow rate.
9. PCB display 'E3'.	* Antifreeze protection activated. * Water flow rate too low	* Check the temperature setting. * Adjust the flow rate.

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