

SPLIT AIR CONDITIONERS

Service Manual

ComfortStar®

CSA-S SERIES

IMPORTANT NOTE:



Read this manual carefully before operating your new air conditioning unit. Make sure to save this manual for future reference.

Please check the applicable models, technical data, F-GAS(if any) and manufacturer information from the "Owner's Manual" in the packaging of the outdoor unit.

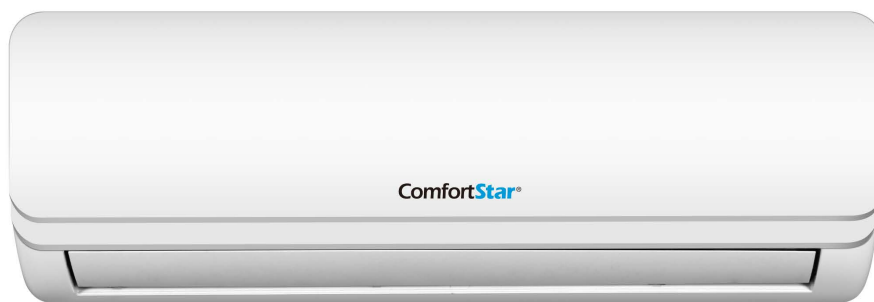
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Chapter 1 Product Specification

1. 1 Photo of Product (for reference only)

Indoor unit



Outdoor unit



1.2 Outline Dimensions

Indoor Unit

MODEL		12000BTU	18000BTU	24000BTU
W	mm	800	970	970
D	mm	292	310	310
H	mm	190	230	230

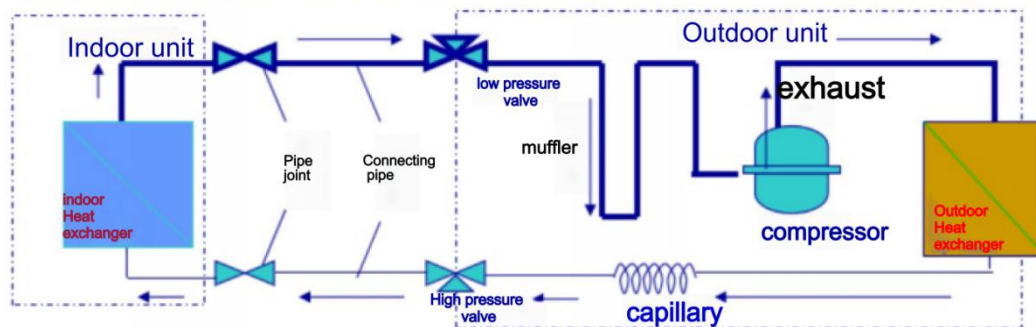
Outdoor Unit

MODEL		12000BTU	18000BTU	24000BTU
W	mm	740	800	860
D	mm	302	302	378
H	mm	550	550	597

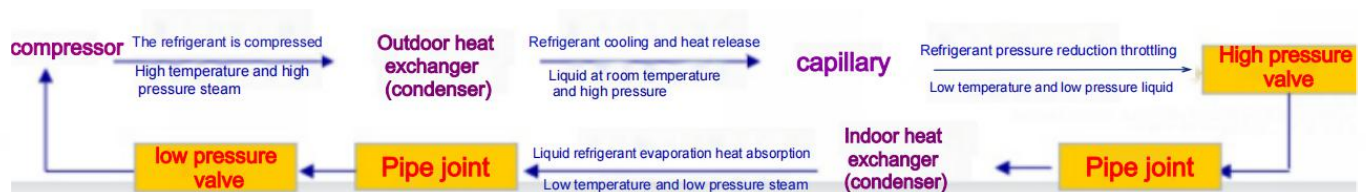
Chapter 2 Refrigeration Diagrams

Cooling Mode

- 1、System composition: compressor, outdoor heat exchanger (condenser), capillary, indoor heat exchanger (evaporator), high-pressure valve, low-pressure valve



Cooling Cycle

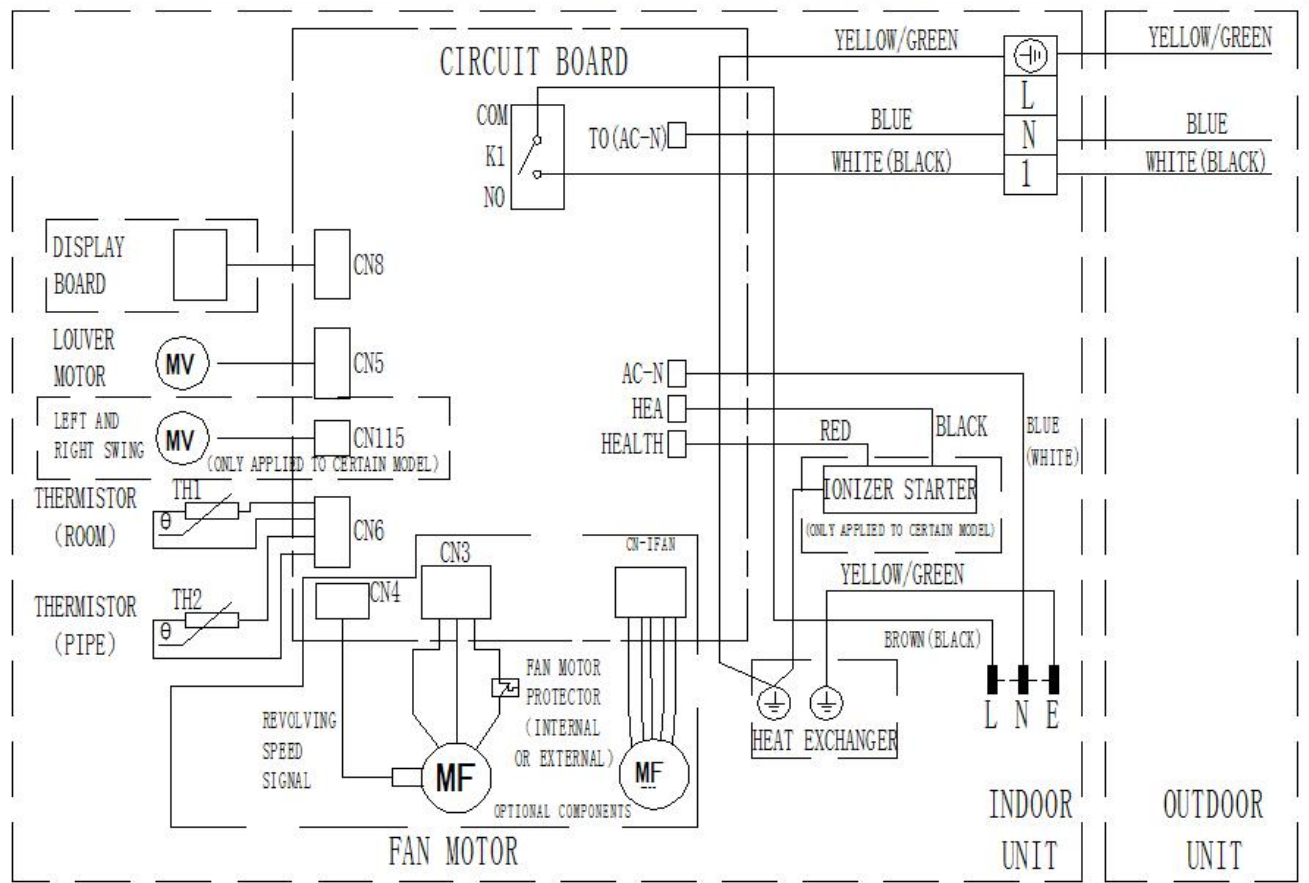


Indoor unit

Electric chart for 18 K

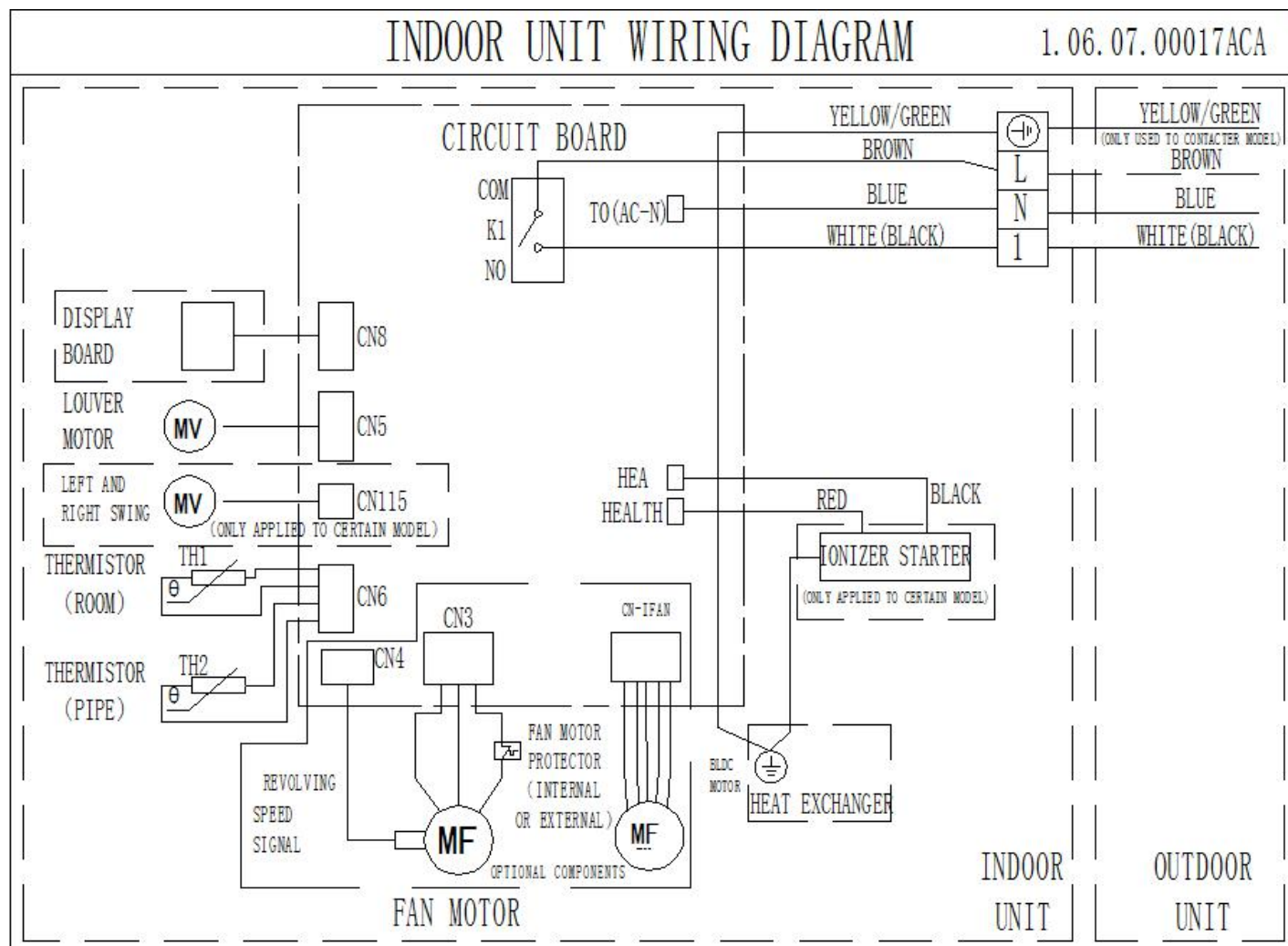
INDOOR UNIT WIRING DIAGRAM

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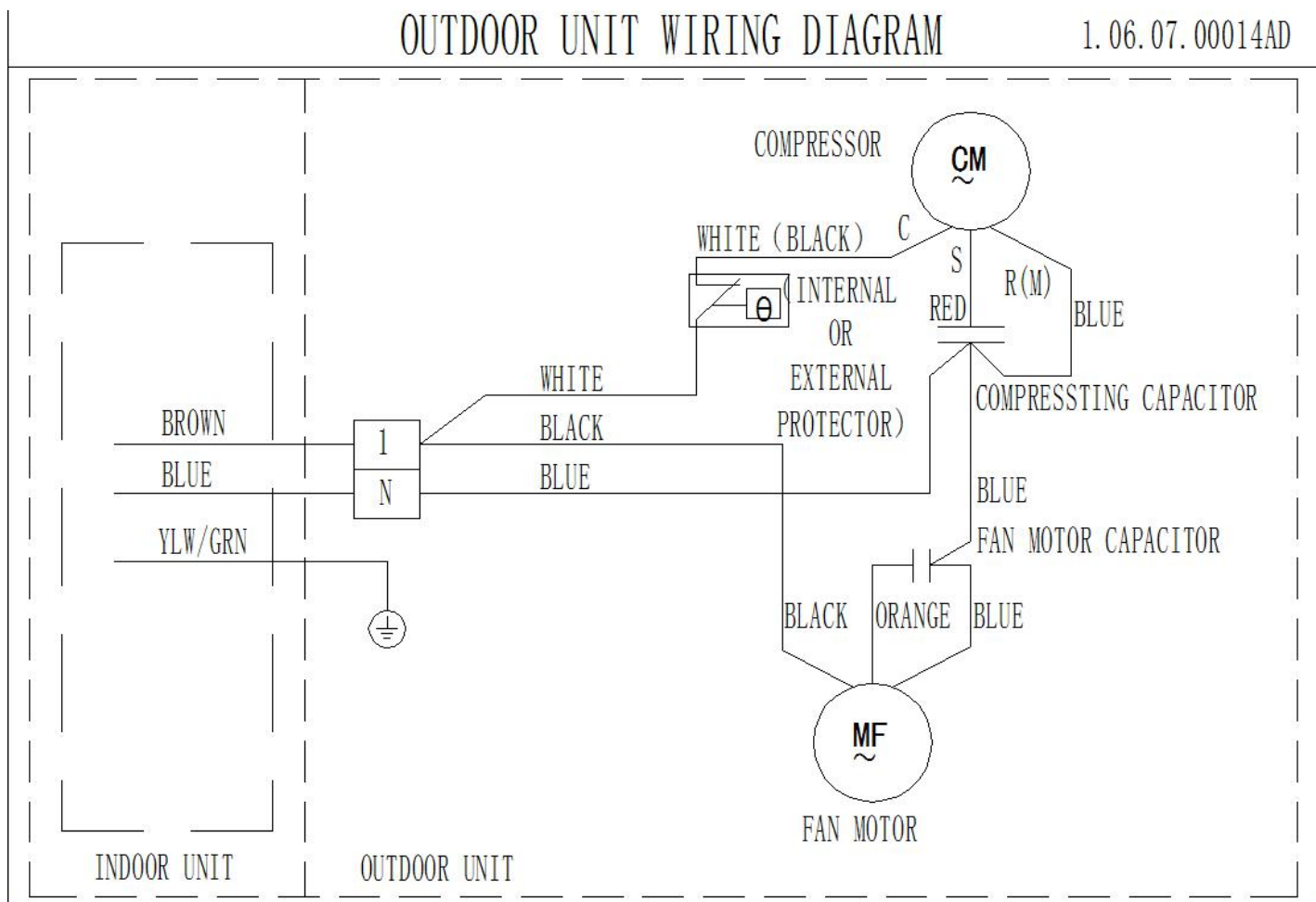
Indoor unit

Electric chart for 24 K



Outdoor unit

Electric chart for 12K/18K



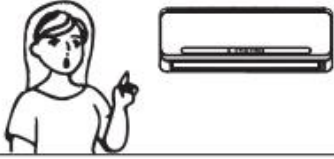
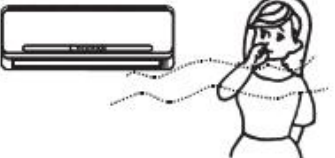
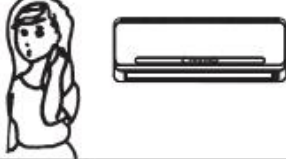
Chapter 4 Troubleshooting Guide

4.1 Error Code

No.	Error Code	Problem
1	E1	RT sensor error
2	E2	IPT sensor error
3	E5	Outdoor protection
4	E6	Indoor fan motor error

4.2 Troubleshooting Guide

The following cases may not always be a malfunction, please check it before asking for service.

Trouble	Analysis
Does not run 	• If the plug is not properly plugged. • If batteries in the remote controller exhausted. • If the protective device works to protect the appliance. • If the protector trip or fuse is blown.
No cooling or heating air 	• Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly? • Is the air filter dirty?
Ineffective control 	• If strong interference (from excessive static electricity discharge, power supply voltage abnormality) presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.
Does not operate immediately 	• Changing mode during operation, 3 minutes will delay.
Peculiar odor 	• This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water 	• Caused by the flow of refrigerant in the air conditioner, not a trouble. • Defrosting sound in heating mode.
Cracking sound is heard 	• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet 	• Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode.
The compressor indicator (red) lights on constantly, and indoor fan stops.	• The unit is shifting from heating mode to defrost. The indicator will light off within ten minutes and returns to heating mode.

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