MarinAire®

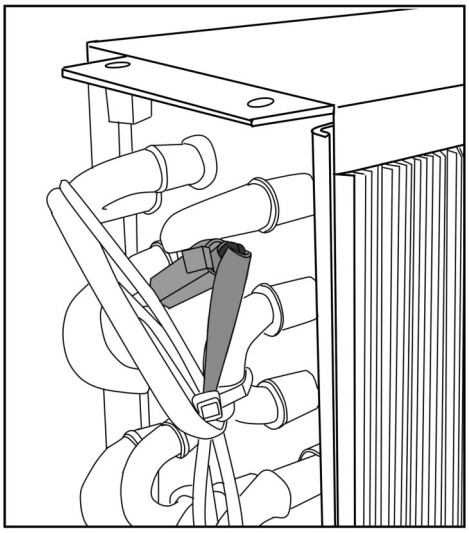
E1 / E9 Troubleshooting Manual

This manual is intended for professional use only by Certified Electricians.
Read this manual thoroughly.
Always practice electrical safety.
Always turn off power at the breaker before servicing.

If your device displays E1, it means that the evaporator coil is getting too cold. Once the evaporator coils temperature gets below 30°F (-1°C), then the compressor will be turned off to prevent the coil from freezing. The unit will then display E1. This may happen on air conditioning mode or on dehumidifying mode and if the air flow is insufficient .

If your device displays E9, it means that the evaporator coil is getting too hot. Once the coils temperature gets above 145°F (62°C), then, the compressor will be turned off to protect the unit. And, the unit will display E9. This may happen only on heating mode and once the air flow is insufficient.

MSBA units have a temperature sensor located on one of the evaporators copper tube. Please view the darker highlighted area on the illustration on the right to locate the temperature sensor. Note that the sound shield must be removed in order to view it.



Checkpoint: Minimum Ducting Requirements

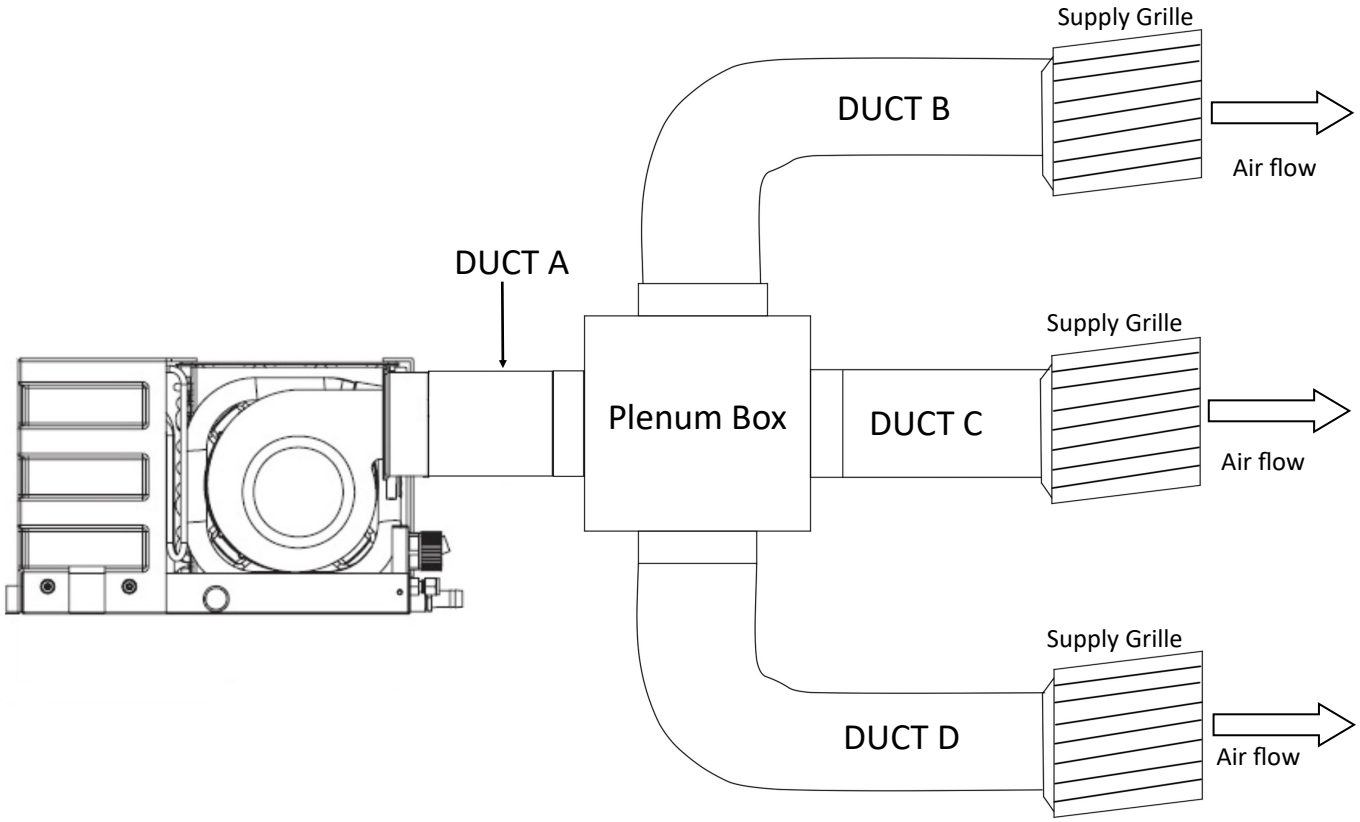
Please view the **Airflow Diagram** in the next page as a guideline for the chart provided below.

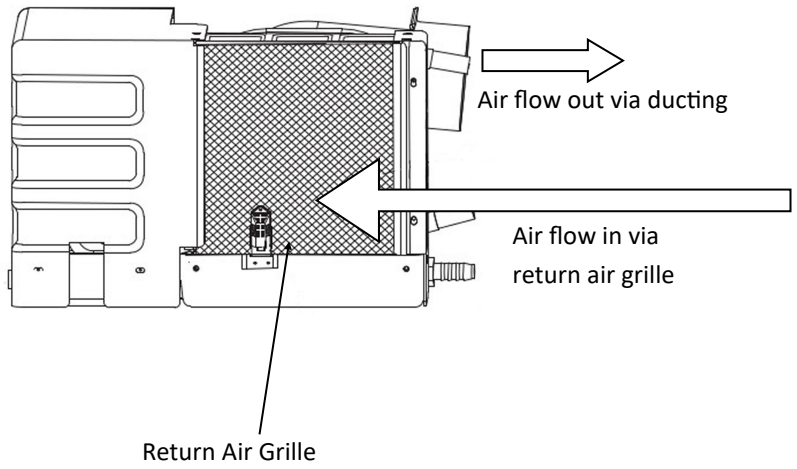
	Return Grille	DUCT A Max Length 2 ft	DUCT B Max Length 20 ft	DUCT C Max Length 20 ft	DUCT D Max Length 20 ft	DUCT E Max Length 20 ft
MSBA6	10X10	4”	4”	3” to 4”	OPTIONAL	OPTIONAL
MSBA9	12X12	6”	4”	4”	OPTIONAL	OPTIONAL
MSBA11	12X14	6”	6”	4”	OPTIONAL	OPTIONAL
MSBA14	14X14	6”	6”	6”	3” to 4”	OPTIONAL
MSBA16	14X14	6”	6”	6”	3” to 4”	OPTIONAL
MSBA20	16X16	7”	8”	6” to 8”	3” to 6”	OPTIONAL
MSBA24	16X16	7”	8”	6” to 8”	3” to 6”	OPTIONAL

Please make sure that all vents are open and that air is flowing freely in to the cabin. Check for leaks of air within the ducting and make sure that everything is secure. All vents and diffusers should be open and there should be no blockages to the return air grille. Also make sure that all air filters are clean including the one that comes with the unit. The return air grille should be positioned adjacent to that of the unit, not far above or below.

If you are skeptical of your ducting, an easy way to test it would be to remove the ducting from the blower and let the unit run freely and directly in to the cabin. Note that there should be no walls/covers/filters blocking the unit in from any side, as that could also result in poor air flow and would not be a good way to test your problem.

Airflow Diagram





Note: Airflow restrictions is the only cause for E1 or E9 errors. Often times, users might initially suspect that their temperature sensor is faulty. This is not possible with E1 or E9.
If the temperature sensor has malfunctioned, then the thermostat would display an E3 error.

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