

AC SAFETY IN EXTREME HEAT

A Consumer Guide on How to Run Your AC Safely | Protect Your Family. Protect Your Machine.



WHY ACs FAIL IN EXTREME HEAT

Compressor Overpressure

Dirty outdoor coil traps heat → pressure builds → rupture

Refrigerant Leak + Spark

R-32 is mildly flammable; leak near bad wiring = flash fire

Electrical Fault / Short Circuit

Voltage drops @ motor draws excess current @ arcing / fire

Condenser Fan Failure

Fan stops → outdoor unit can't breathe @ cascading overheating

Continuous Operation

No rest cycle @ compressor overheats @ internal parts buckle

Body Analogy: *The compressor is the AC's heart. A clogged coil = blocked artery. Running non-stop in 47°C = forcing a dehydrated person to run a marathon in the sun.*



WARNING SIGNS — DON'T IGNORE

Runs but doesn't cool — Leak or choked condenser

» Sweating but temp still rising — heat exhaustion

Clicking / buzzing / rattling — Failing capacitor, stress

» Irregular heartbeat — motor is struggling

Burning smell — Wiring or oil overheating

» Chest pain — STOP immediately

Breaker trips repeatedly — Overload (safety working!)

» Fainting — don't force it back on

Outdoor fan not spinning— Fan motor failure

» Unable to sweat — heat has no exit

Body Analogy: *Your AC shows symptoms before a crisis — just like your body before... Dizziness, nausea, confusion in humans = strange sounds, smells, poor cooling in ACs.*



DO's — YOUR AC PRESCRIPTION

Service AC BEFORE peak summer season
Summer (March–April) every year

Give AC rest
Cycle off 15–20 min every few hours

Use a voltage stabilizer
Essential in Delhi NCR

Keep fire extinguisher accessible
Escape routes clear

Set temperature at 24–26°C
BEE recommendation

Keep outdoor unit clear:
1–2 ft space on all sides

Use ceiling fan alongside
Comfort at higher setpoint

Buy only ISI-marked
BEE 5-star rated ACs

Body Analogy: *Heatwave advice for humans: hydrate, rest, stay in shade, don't over. Same for your AC: clean it, rest it, don't set it to 18°C, and let it breathe.*



DON'Ts — AVOID THESE MISTAKES

✗ **Don't use unqualified technicians** — wrong gas kills compressors

✗ **Don't keep resetting a tripping breaker** — it's a SAFETY device

✗ **Don't ignore annual 'gas top-up'** — it means you have a LEAK

✗ **Don't set 18°C thinking it cools faster** — it doesn't

✗ **Don't block indoor unit return air with curtains/furniture**

✗ **Don't box in or cover the outdoor unit** — it needs to breathe

✗ **Don't run AC 24/7 without breaks during heatwaves**

✗ **Don't install iron grills without emergency-openable exits**

Body Analogy: *Ignoring a tripping breaker = ignoring chest pain and going for a jog. Skipping AC service = skipping your annual health check-up in your 50s.*

THE TAKEAWAY

We have national heatwave action plans to protect human bodies. Apply the same mindset to your cooling machine. Don't overwork it. Maintain it. Watch for warning signs. When it tells you something is wrong — listen.