Willis Carrier, the engineer who coined the term “air-conditioning,” holds a thermometer inside a display that demonstrates air-conditioning, New York World's Fair, 1939.
Total AC Growth by Region CAGR (2017-2023) (units)

- Total World AC
- Total Southern Africa
- Total Western Africa
- Total Central Africa
- Total Eastern Africa
- Total Northern Africa
‘Tokunbo’: How African nations are battling with the sale of 'zombie' appliances
Fellow architects:

should we do something [proactive] about air-conditioning in Africa?

A provocation by Peta de Jager
Healthy environment through architecture

MS 16mm rods (4 per chimney cover) welded to m.s. 9mm rolled steel chimney cover with 1000 radius to detail

0.53mm Zincalume counter flashing over 0.53mm Zincalume flashing all to match roof

Victorian profile roof 0.53mm thick Zincalume sheeting, AZ150 Colourbond fixed to purlins with class3 self drilling screws. Sheets to be fixed with 3 fasteners per sheet on 75x50mm SA pine purlins @ min 1200c/c on trusses.

WALL PLATE LEV. + 851.440

450x390mm concrete ring beam plastered & painted

Steel hopper window; (inward opening)

Precast concrete sill pegged into rammed earth wall with Y12 rods

Rammed earth wall (plastered on inside)

FtL = 548.750

Plastered brick wall and concrete infill riser wall to Fin. detail

CONSULT 3

Suspended ‘Constellation’ ceiling panels

Vinyl on screed on concrete floor slab on 70mm polystyrene on rock store

Concrete slab

Cement bricks staggered to make openings for airflow

600 x 200mm footing

rock store
Reformulation
So: what - if anything - should we do?

https://www.cbr.com/marvel-black-panter-important-places-significance/
Sources and references

[2] The moral history of air conditioning
[3] Africa tops global air conditioning forecasts
[4] ‘Tokunbo’: How African nations are battling the sale of zombie appliances
[7] Building Information Modelling,
[8] Fictional African city, Birnin Zana, Black Panther, 2019
[9] Covid-19 homeless site has been criticised for being inadequate to shelter the most vulnerable

Air Conditioning. A Cultural History of Climate Control
Comfort, violence, care: decolonising tropical architecture at Blida, 1956
Contribution of air conditioning adoption to future energy use under global warming
Cool but dangerous
Cooling for sustainable development
Technology and culture