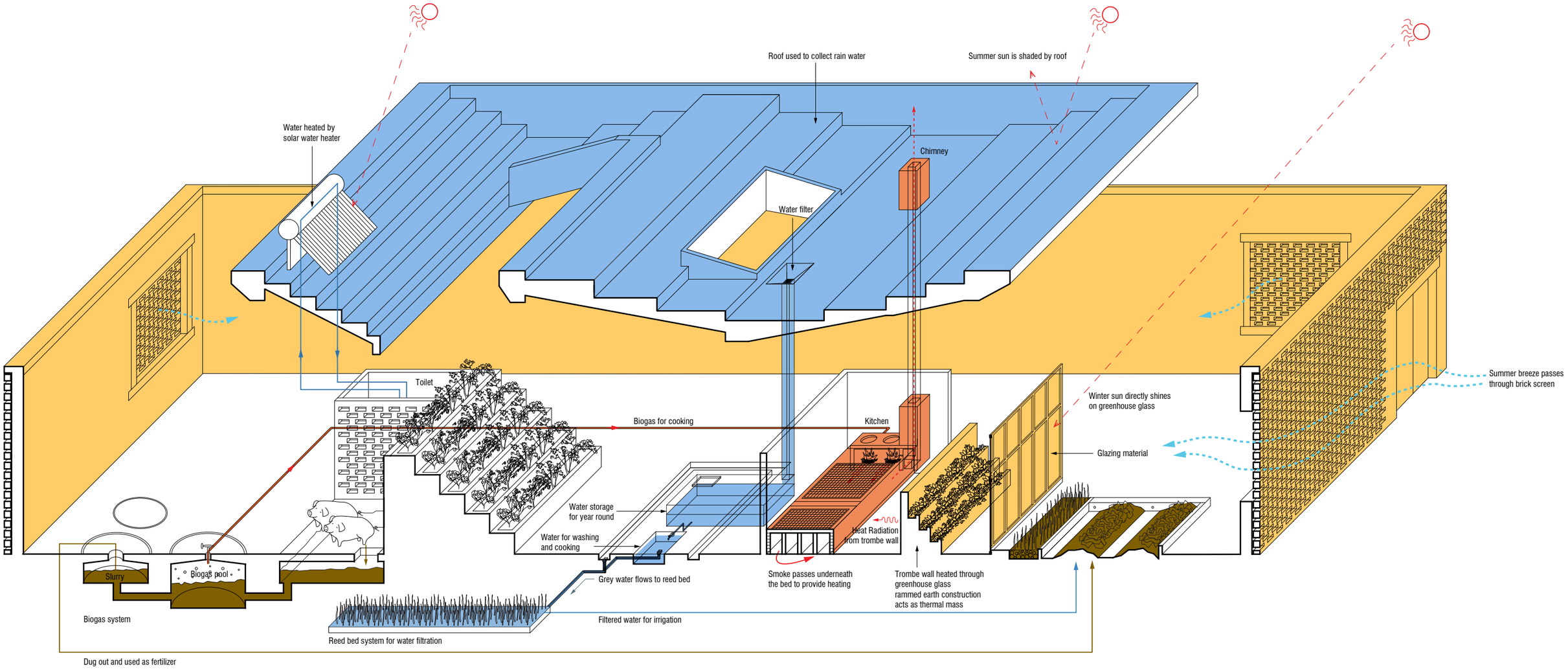
Roof used to collect rain water
Summer sun is shaded by roof
Water heated by
solar water heater
Chimney
Water filter
Toilet
Biogas for cooking
Kitchen
Winter sun directly shines
on greenhouse glass
Summer breeze passes
through brick screen
Glazing material
Water storage
for year round
Water for washing
and cooking
Heat Radiation
from trombe wall
Slurry
Biogas pool
Grey water flows to reed bed
Smoke passes underneath
the bed to provide heating
Trombe wall heated through
greenhouse glass
rammed earth construction
acts as thermal mass
Biogas system
Filtered water for irrigation
Reed bed system for water filtration
Dug out and used as fertilizer