

GEOTHERMAL-CLIMATE MASTER

Installed and Serviced yearly by Winkelman Heating & Air Conditioning Co.
out of Canyon, Texas. Wells installed by K-Ran

Four **HEAT/COOL** Zones

- Great room/den
- Master bedroom, bath and laundry room
- Bedrooms and hall bathroom
- Shop

(Separate schedules for each zone or put on “HOLD” to maintain a certain temperature)

Uses excess heat to provide hot water to tank in mechanical room which then travels to tank-less on-demand water heaters.

ELECTRONIC SHUTTERS

Made by Wheatbelt Inc. in Hillsboro, Kansas and installed by Metal Concepts of Dumas.

Nine (9) Shutters

- Great Room Triple Window
- Great Room Single Window
- Master Bedroom Triple Window
- Master Bath Double Window
- Shop Triple Window
- Den/Office Double Window
- Bedroom #2 Double Window
- Bedroom #3 North and East Single Window

Only one shutter can open/close at the same time! Switches near each shutter for manual operation. Can be opened/closed stopping at any point. Shutters automatic controls by PLC (Programmable Logic Controller) on Mechanical Room south wall. Shutters are programmed by touch screen in the Master Bedroom.

Touch Screen Shutter Control

- Shutters can be opened/closed from the touch screen using OPEN or CLOSE button
- AUTO/MANUAL button allows shutters to be opened according to preprogrammed schedule when in the auto position...MANUAL- shutters can only be opened/closed manually.
- SCHEDULE button-open to see current schedule; can be programmed with a specific time and position or use
- SUNRISE/SUNSET +/- 60 minutes can be used
- DAILY SCHEDULE- specific day, odd/even days, weekends/weekdays, Sun-Sat, all days
- To IGNORE a setting, change position to zero

Main Shutter Screen: OPEN ALL, CLOSE ALL, and HALF OPEN (approximately)
Will affect all shutters 1-9 in order, but all must be in AUTO.

LIGHTS

All lights controlled by PLC/Touch Screen labeled on switches as {Hall Light}

When these lights are switched on and then off, they stay on five minutes and then turn off automatically. This works from touch screen or wall switch. (Leaving the house but want lights on for departure)

- North Hall
- South Hall
- Green House (area east of the garage)
- Inside Garage (3 lights)
- Patio Lights
- Porch Lights
- Outside Garage
- Attic

If you change manual to auto and click on location (North Hall, etc.) it takes you to a screen where you put in a schedule like the shutters.

SPRINKLERS

Controlled by PLC/Touch Screen

- Zone 1 - Front yard east
- Zone 2 – Front yard west
- Zone 3 – North yard west
- Zone 4 – North yard middle
- Zone 5 – North yard east
- Zone 6 – Backyard
- Zone 7 – South yard west
- Zone 8 – South yard east

Touch **RUN** to turn a zone on immediately. Touch **SCHEDULE** to program a schedule like shutters. Be sure **SPRINKLERS/DRIP** on main screen is on.

DRIP ZONES

- Zone 9 - Front yard
- Zone 10 – Fruit/Nut North Side
- Zone 11 – North windbreak trees
- Zone 12 – South windbreak trees
- Zone 13 – South misc.
- Zone 14 – Garden #1
- Zone 15 – Garden #2
- Zone 16 – Backyard

Touch **RUN** to turn a zone on immediately. Touch **SCHEDULE** to program a schedule like shutters. Be sure **SPRINKLERS/DRIP** on main screen is on.