PACKAGE A/C CONTROLLER SZ-7575 :

No. of switches:

1. OFF   - To switch off blower
2. FAN   - To start the system in fan mode where only blower will be on.
3. COOL - To start the system in cool mode where actually controller will work depending on set point setting.
4. ALARM ACK- To mute the buzzer.
5. Up/Dn – These allows to adjust the set point to desired value.

At power on, the controller will start in the last mode it was set in before being powered off. There are 3 states in which the controller can be at power on.

State 1

Controller is in the OFF mode. In this state, all devices are OFF and the system is in Stand By mode and controller will display the temperature.

State 2

Controller is in FAN mode. In this state, only Blower will activate and controller will display the temperature.

State 3

Controller is in COOL mode. In this state, system will start activating all devices as required.

To start the system, press the COOL key. Controller starts the BLOWER and COND FAN 1 & 2 enter time delay mode. COND FAN1 activates after 60 seconds and COND FAN2 after 90 seconds.

After COND FAN 1 activates, COMP 1 energises ten seconds later to avoid a surge.

After COND FAN 2 activates, COMP 2 energises fifteen seconds later to avoid a surge.

Once setpoint has been achieved, all devices except blower go off.

For example SP is 23, once this is achieved, all devices will go off. Then at 23(SP) + 1 = 24C, the time delay starts and cycle continues in a similar manner

To change the Set Point, press the up / dn key. The 7-segment LED will display the current set point and flash. Whilst the display is flashing, use the Up/Dn key to achieve the desired Set Point. Once the required Set Point is achieved, the display will confirm that the new Set Point has been saved into memory by displaying "--" and will return to normal mode.

If setpoint is not changed, controller will return to normal condition after 15 seconds.

At power on, if in cool mode , always cond fan 1 & comp1 will come on thereafter both units will cycle amongst themselves .

Both the cooling unit (comp. + cond . fan) are switched off at Set Point.

As temperature + differential are achieved, both units will come on after a set time delay.

At power on, the controller will check for Blower O/L error. If the status is OK,. the controller will activate the Blower.

After activating the blower, if the temperature is equal to or above Set Point + Differential, both fan time delays will activate together.

System always checks for COND FAN and COMP O/L and HP/LP faults.

On power off , system saves the last mode, so that on power on it will come on in the same mode .

Incase of any fault, corresponding cooling unit (compr+ cond fan) will switch off. While other unit continues to work normally.

HP/LP fault has a manual reset . To reset the fault press cool button . It will restart that unit with

time delay.

Display will indicate corresponding fault.

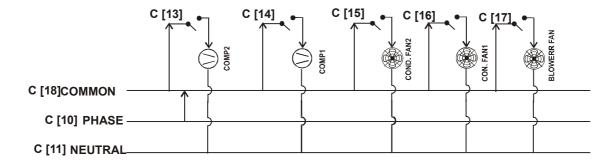For eg incase of COND FAN O/L error, display will show "OL" and COND FAN 1 red led will blink .

Green led indicates active status (blinks while in time delay and lights up for on condition)
Red led indicates inactive status (blinks for errors and light up for off condition)
LED Indication :

Red led on- off status
Red led blink- fault condition
Green led on- on status
Green led blink- delay status
Yellow led on- CCH on status
Fan led on –Fan mode active
Cool led on – Cool mode active
Off led on- System in Standby mode (Blower + cond fan+ comp =off)

During Fault condition display will also show fault msg.

For overload – "OL"
For hp/lp- "HP " "LP"
For probe fail- "PP"

Also , fault led will blink.

All Relay : cos Φ = 1
8 A / 250Vac

NEUTRAL	CCH1	CCH2	COND1 ON	COND2 ON	HP\LP1 OK	HP\LP2 OK	HP\LP1 TRIP	HP\LP2 TRIP
⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
1	2	3	4	5	6	7	8	9

PHASE	230V ~	NEUTRAL	BLR ON	COMP2 NO	COMP1 NO	COND2 NO	COND1 NO	BLOWER NO	C
10	11	12	13	14	15	16	17	18	
⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	