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Sydney Luke I'm new here, please be nice

As part of our plan to reduce our energy usage we've been looking into our air conditioning. We have a 5.4kw Fujitsu reverse cycle unit (model AOT54LJBYL) that's located outside and then ducted through the house.

O.P.

The controller and thermostat are located in our living area. However, last night we set it to 16 degrees heating as a test but it heated the room up to 21 degrees before we switched it off.

Is it worth getting it looked at by an air-con engineer? Seems that the thermostat isn't really working properly. Otherwise, is there a recommended retrofit controller that will allow us to control the temperature more accurately? Would that need an electrician or air-con person to install?

ref:

posted 2015-Jul-20, 12:01 pm AEST (edited 2015-Jul-20, 3:23 pm AEST)

Emmett T Whirlpool Forums Addict

Most ducted systems measure either the return air or the temperature at the controller.

Many systems measure return air temperature by default meaning that if the return air grille is in a cooler part of the home you end up over heating rooms.

It can be as easy as a few codes to change it over to measure the controller temperature if its capable of being used in this way.

ref:

posted 2015-Jul-20, 12:54 pm AEST

Sydney Luke I'm new here, please be nice

Reading the manual in more detail, it looks like mine may be measuring the temperature at the unit (located outside!) instead of at the remote control (which I assume is the controller mounted on the wall).

O.P.

However, the manual also says...

This function is locked at the factory. In order to detect the room temperature correctly, consult authorized service personnel when using this function. If this function is locked, the location where the room temperature is detected cannot be changed and the mark flashes when the THERMO SENSOR button is pushed.

Grrrr.....

ref:

posted 2015-Jul-20, 1:56 pm AEST

Sydney Luke I'm new here, please be nice

For completeness of this thread if anybody else reads it in the future. I've found the following instructions to unlock the controller and change the location of where it measures the temperature....

O.P.

1. Turn the unit off at the controller
2. hold down both set temp buttons and the fan speed button for a few seconds.
3. Use the set time buttons to select program 42,
4. You will probably see 00 next to it on the display now use the set temp buttons to select 01.
5. Then hold (or just press once) the set button until the 01 stops flashing and you should hear the unit beep.
6. Hold down the two set temp buttons and the fan again to exit function setting mode.
7. Reset power for a minute after changing functions, otherwise the change will not take effect.
8. When power is restored, hold the "thermo" button for a second to toggle the sensing point. Icon = wall controller, no icon = return air.

ref:

posted 2015-Jul-20, 2:06 pm AEST

dc9999 Forum Regular

How could that even work?!?

If it's 10C outside, and you are trying to heat the inside temp to 20C, the AC will be going full speed – effectively forever, or until the day warms up outside to greater than 20C? Or you boil to death in your house... :-)

ref:

posted 2015-Jul-20, 2:07 pm AEST

Sydney Luke I'm new here, please be nice

Yep that's basically what seems to be happening!

O.P.

I think the unit is designed to be used inside or outside. When used inside it reads from

the unit, when outside it should be set to read from the controller.

Looks like ours has been setup incorrectly. Currently we just use it on a timer for 1 hour in morning and 2 hours in the evening. For 100% of that time it's working full at it's max, never really cuts out due to reaching the set temperature.

ref:

posted 2015-Jul-20, 3:22 pm AEST

Emmett T Whirlpool Forums Addict

Obviously (perhaps not) Ducted systems don't read outdoor temperature.

ref:

posted 2015-Jul-20, 3:26 pm AEST

jack.d Whirlpool Forums Addict

Emmett T writes...

Obviously (perhaps not) Ducted systems don't read outdoor temperature.

+20 As you advised in an earlier post it measures at either the controller or return air inlet to the indoor unit. The indoor unit is usually located in the roof space and the return air ducted via a grille located in the ceiling of a common area. It definitely does not measure the temperature at the outdoor unit.

ref:

posted 2015-Jul-21, 7:14 am AEST

Sydney Luke I'm new here, please be nice

Well either way, I've now changed it so that it's measuring at the controller and it's become much more accurate :-)

O.P.

ref:

posted 2015-Jul-21, 11:33 am AEST

Simon-at-China Whirlpool Enthusiast

dc9999 writes...

the AC will be going full speed – effectively forever, or until the day warms up outside to greater than 20C? Or you boil to death in your house... :-)

Classic one!

OP: I wonder if that unit has a dreaded sump heater?, if so it might be a wiser to install a new small ac unit for just one room. One would think this would pay itself off sooner.

Thanks for sharing that vital info on the fix!

ref:

posted 2015-Jul-21, 2:45 pm AEST

scubadiver Whirlpool Forums Addict

Also check the ducted return air filter is clean &/or wash it (the filter medium, that is).

ref:

posted 2015-Jul-21, 11:08 pm AEST

dustybuzzard Forum Regular

For that model, the steps you described to enter function settings to change the sensing point wont work.

The good news; to change it on that model is way easier.

Turn system off at wall controller. Hold "thermo sensor" down for approx 5 or so seconds until the key appears, then press thermo sensor again. A little icon, which looks like a wall controller, should appear below the temperature box letting you know the sensing point has changed.

ref:

posted 2015-Jul-23, 9:20 am AEST