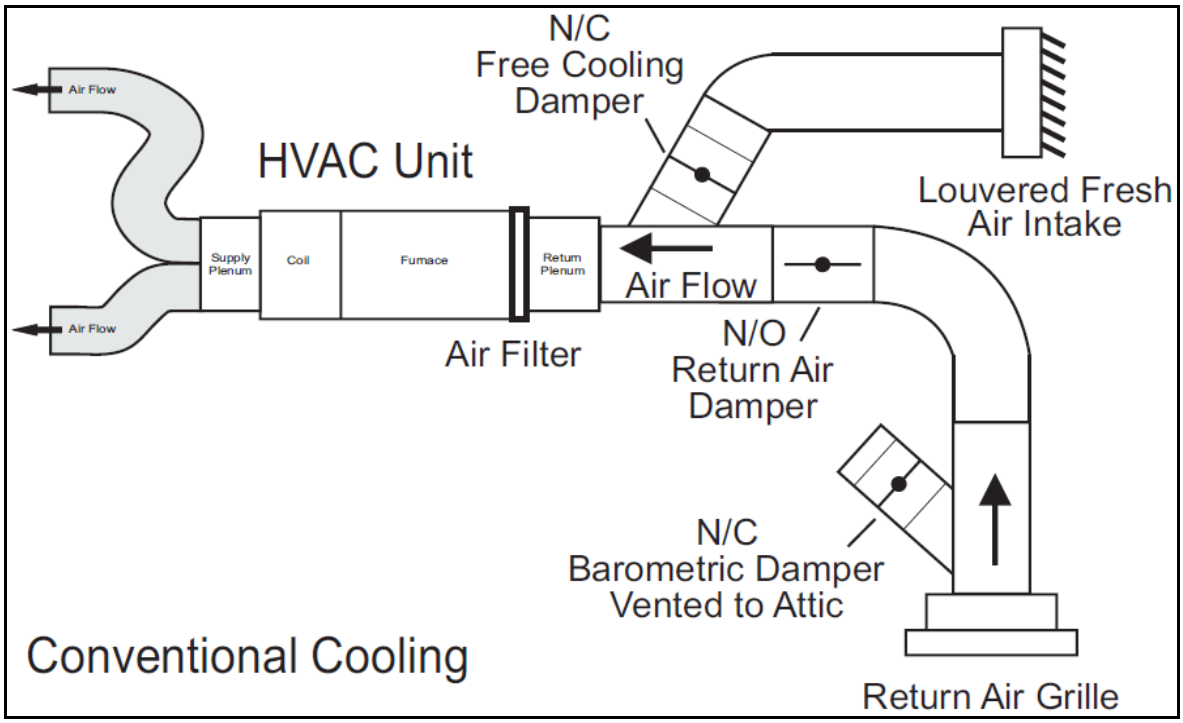
T5800 Free Cooling Option



Free Cooling with Round Dampers

TYPICAL UNIT	PART NUMBERS/DESCRIPTIONS
2-TON	**Free Cooling parts needed:** T5800 thermostat, ACCTSEN sensor, 50314 transformer, 90340 two pole relay, a RDS12" N.O. damper for return air, a RDS12" N.C. damper for free cooling (converted to N.C. in the field) and one SPRD12" barometric damper for 800 CFM of relief into attic
3-TON	**Free Cooling parts needed:** T5800 thermostat, ACCTSEN sensor, 50314 transformer, 90340 two pole relay, a RDS14" N.O. damper for return air, a RDS14" N.C. damper for free cooling (converted to N.C. in the field) and one SPRD14" barometric damper for 1200 CFM of relief into attic
4-TON	**Free Cooling parts needed:** T5800 thermostat, ACCTSEN sensor, 50314 transformer, 90340 two pole relay, a RDS16" N.O. damper for return air, a RDS16" N.C. damper for free cooling (converted to N.C. in the field) and one SPRD16" barometric damper for 1600 CFM of relief into attic
5-TON	**Free Cooling parts needed:** T5800 thermostat, ACCTSEN sensor, 50314 transformer, 90340 two pole relay, a RDS18" N.O. damper for return air, a RDS18" N.C. damper for free cooling (converted to N.C. in the field) and one SPRD18" barometric damper for 2000 CFM of relief into attic

Not included: any filters, plenums, ducting, grills, louvers, wires, tee-wyes or any parts not mentioned above.

T5800 ColorTouch Thermostat - Free Cooling

Free Cooling Setup

Press the MENU button and scroll down to the SETTINGS icon. Press the SETTING icon and scroll down to INSTALLATION SETTINGS. Press the INSTALLATION SETTINGS tab:

• Free Cooling ▸

Free Cooling is an energy saving way to boost the efficiency of your air conditioning system by bringing in cool air from the outside. The installation of a Free Cooling damper(s) and outdoor temperature sensor is required.

• Free Cooling - DISABLED

• Free Cooling - ENABLED ✓

Turns on Free Cooling.

• Usable Outdoor Temp (65°) ▸

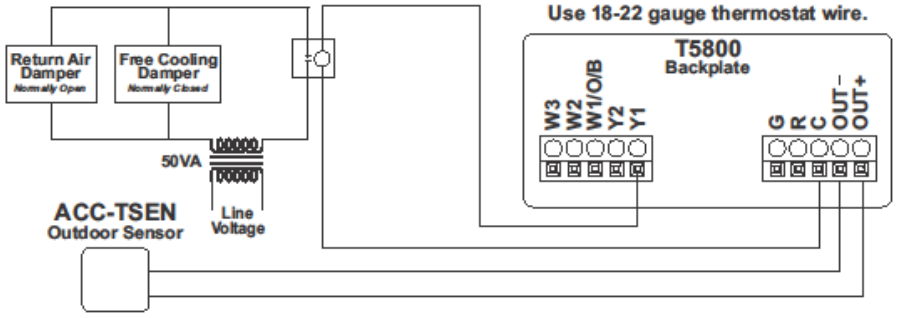
Free Cooling shuts off above this outdoor temperature. (40 - 80 degrees F)

• Mechanical Cooling? - NO

• Mechanical Cooling? - YES ✓

If you don't have a compressor, set Mechanical Cooling to "NO", Y1 will then be used to control the Free Cooling Damper(s) and Y2 will be disabled. If set to "YES", mechanical (compressor) cooling will be controlled by the Y2 terminal. (See page 49 for wiring diagram)

Mechanical air conditioning is turned on with a 2nd stage demand for cooling and the Free Cooling, outdoor air damper is closed.



Free Cooling utilizes the Y1 terminal for the operation of 1st stage cooling. If mechanical (compressor) cooling is also present, the mechanical cooling is connected to the Y2 terminal in this instance.

Free Cooling may be used with a Gas/Electric or Heat Pump system.

Outdoor Sensor: 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.