Output Details and Examples

EnergyPlus Outputs, Example Inputs and Data Set Files

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### DX Coil Outputs

### DX Cooling Coil Outputs

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### DX Cooling Coil Outputs for ASHRAE 127 Standard Ratings

#### Field: Component Type

This is the component type, currently Coil:Cooling:DX:SingleSpeed is the only valid type.

#### Field: Component Name

The name of the DX cooling coil from the input data file (IDF).

#### Field: Class

The application classification classes of the DX cooling coil. There are four application classification classes per ASHRAE standard 127: Class I, Class II, Class III, and Class IV. The standard ratings are reported for each the four classification classes and test conditions.

#### Field: Rated Net Cooling Capacity at Test A {W}

#### Rated net cooling capacity for this DX cooling coil at Test condition A per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The net cooling capacity is reported for class I, II, II and IV test conditions.

#### Field: Rated Total Electric Power Test A {W}

Rated total electric power input of the unit at Test condition A per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The total electric power includes the supply fan power as well. The total electric power input is reported for class I, II, III and IV test conditions.

#### Field: Rated Net Cooling Capacity at Test B {W}

Rated net cooling capacity of this unit at Test condition B per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The net cooling capacity is reported for class I, II, II and IV test conditions.

#### Field: Rated Total Electric Power Test B {W}

Rated total electric power input of the unit at Test condition B per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The total electric power includes the supply fan power as well. The total electric power input is reported for class I, II, III and IV test conditions.

#### Field: Rated Net Cooling Capacity at Test C {W}

Rated net cooling capacity of this unit at Test condition C per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The net cooling capacity is reported for class I, II, II and IV test conditions.

#### Field: Rated Total Electric Power Test C {W}

Rated total electric power input of the unit at Test condition C per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The total electric power includes the supply fan power as well. The total electric power input is reported for class I, II, III and IV test conditions.

#### Field: Rated Net Cooling Capacity at Test D {W}

Rated net cooling capacity of unit at Test condition D per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The net cooling capacity is reported for class I, II, II and IV test conditions.

#### Field: Rated Total Electric Power Test D {W}

Rated total electric power input of the unit at Test condition D per Standard ASHRAE 127. Units are Watts. See the EnergyPlus Engineering Reference (ANSI/ASHRAE 127 - Standard Ratings of Single-Speed DX Cooling Coils) for details on how this value is calculated. The total electric power includes the supply fan power as well. The total electric power input is reported for class I, II, III and IV test conditions.

! <DX Cooling Coil ASHRAE 127 Standard Ratings Information>, Component Type, Component Name, Standard 127 Classification, Rated Net Cooling Capacity Test A {W}, Rated Total Electric Power Test A {W}, Rated Net Cooling Capacity Test B {W}, Rated Total Electric Power Test B {W}, Rated Net Cooling Capacity Test C {W}, Rated Total Electric Power Test C {W}, Rated Net Cooling Capacity Test D {W}, Rated Total Electric Power Test D {W}

DX Cooling Coil ASHRAE 127 Standard Ratings Information, Coil:Cooling:DX:SingleSpeed, MAIN COOLING COIL 1, Class 1, 126953.8, 35918.5, 135678.7, 30852.7, 141523.1, 24400.1, 141727.0, 13951.0

DX Cooling Coil ASHRAE 127 Standard Ratings Information, Coil:Cooling:DX:SingleSpeed, MAIN COOLING COIL 1, Class 2, 133377.6, 37330.3, 140336.0, 31647.7, 141727.0, 24424.7, 141727.0, 13951.0

DX Cooling Coil ASHRAE 127 Standard Ratings Information, Coil:Cooling:DX:SingleSpeed, MAIN COOLING COIL 1, Class 3, 139488.4, 38673.3, 141354.0, 31821.4, 141727.0, 24424.7, 141727.0, 13951.0

DX Cooling Coil ASHRAE 127 Standard Ratings Information, Coil:Cooling:DX:SingleSpeed, MAIN COOLING COIL 1, Class 4, 145024.0, 39889.8, 141727.0, 31885.1, 141727.0, 24424.7, 141727.0, 13951.0

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### DX Heating Coil Outputs