Basic Cycle Balance

Low- and High-Side-Specified

GUESS:
High- and Low-Side Pressures

SPECIFY:
Inlet Air Temps
Condenser Subcooling (T_{SC}) or Flow Control Device
Evaporator Superheat (T_{SH})

Adjust High-Side Pressure

\( \dot{m}_{cm} \) Compressor

\( T_{SC, \text{calc}} \) Condenser

Flow Control

Fixed Subcooling

\( \dot{m}_{fl} \)

\( m \) or \( T_{SC} \) match?

Yes

No

\( T_{SH, \text{calc}} \)

Evaporator

\( T_{SH} \) match?

Yes

No

\( T_{air, \text{ev}} \)

\( T_{air, \text{ev}} \) match?

Yes

No

Print Results

Stop

SPECIFY:
Low- and High-Side-Specified

Basic Cycle Balance