

Bumble Bee® High-Efficiency Variable Speed Circulator

The Bumble Bee (model HEC-2) represents the very latest in variable speed wet rotor circulator technology. Its high efficiency ECM motor uses up to 85% less electricity than a standard circulator, and its out-of-the-box settings and 360° swivel flange makes it a breeze to install. Most importantly, the Bumble Bee's Delta-T variable speed technology maximizes the overall efficiency of your heating system. The Bumble Bee is engineered for energy savings, ease of installation, versatility in the field and ultimate comfort.



Features & Operation

- High efficiency ECM Motor
- Reduces power consumption by up to 85%
- Fully Programmable
- Plug-in remote temperature sensors included
- LED displays real-time mode, watt usage and GPM flow
- 360° swivel flange
- Nut capture feature on flanges
- Integral Flow Check (IFC®) included



360° Swivel Flange for universal fit-up



Operates in Three Modes



- **CP - Constant Power (Fixed Speed)**

Allows for 4 fixed circulator speeds.



- **SP - Setpoint (Variable Speed)**

Allows for a fixed supply temperature from 65°F to 220°F.



- **dE - Delta-T, Differential Temperature (Variable Speed)**

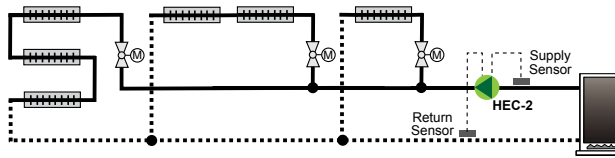
Allows for a fixed system temperature differential (ΔT) from 5°F to 50°F.

Factory Pre-Set for Delta-T mode @ 20°F ΔT

Applications & Performance

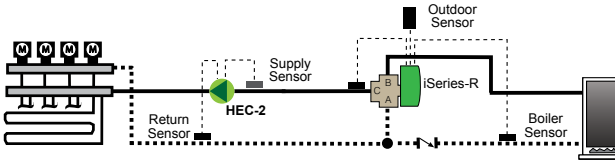
Delta-T

Across a series loop system using zone valves



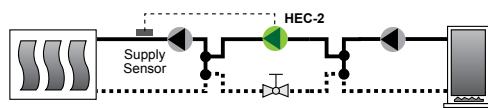
Delta-T

Across multi-zone radiant manifolds with loop actuators



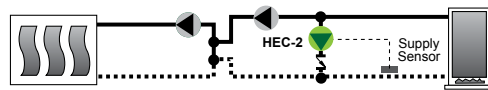
Setpoint

Radiant injection mixing



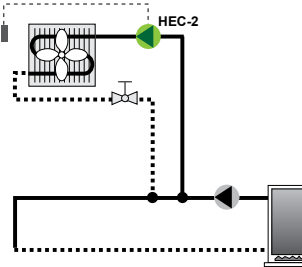
Setpoint

Boiler protection by-pass



Setpoint

Fan coil fixed temperature



Constant Power (Fixed Speed) Performance Curves

