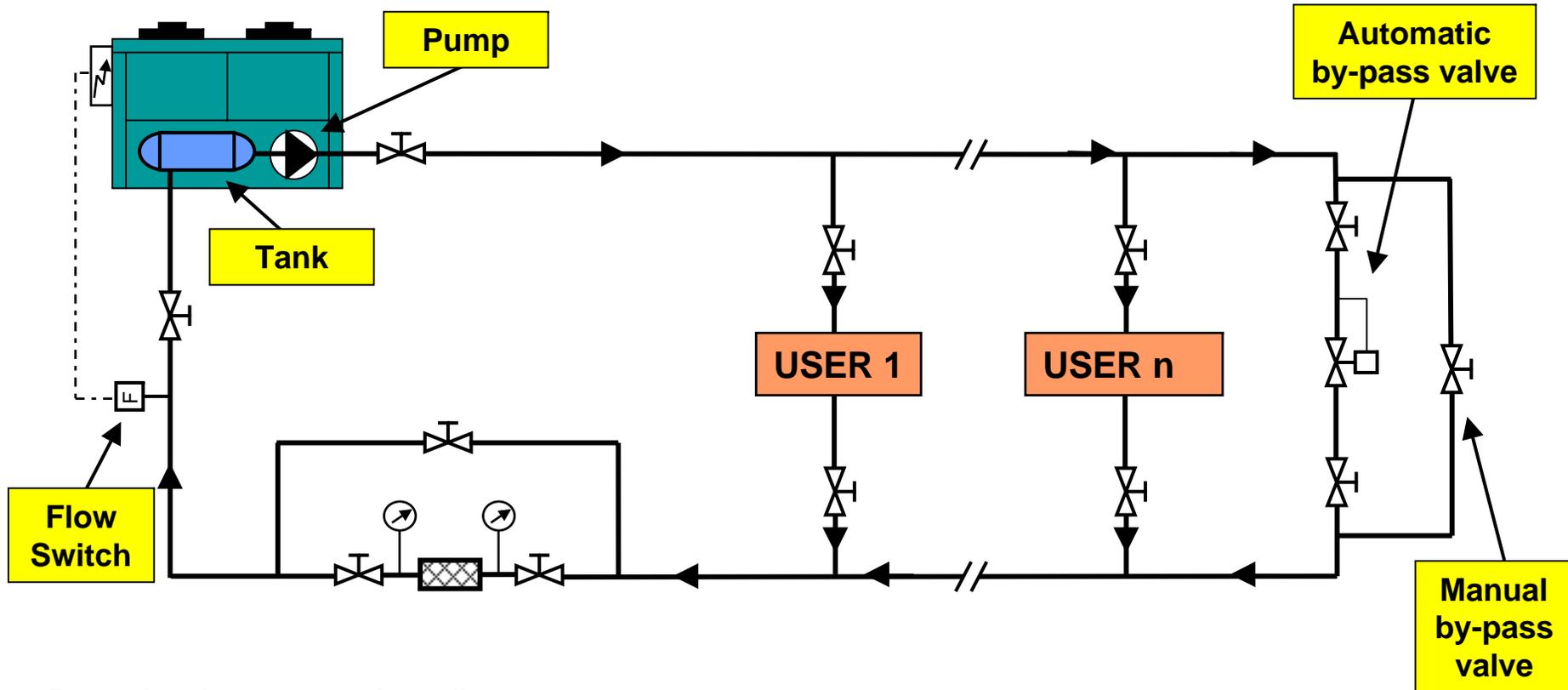




Cooling Systems - Schematics



▶ **Typical Installation.** Chiller with internal pump and tank directly to the user

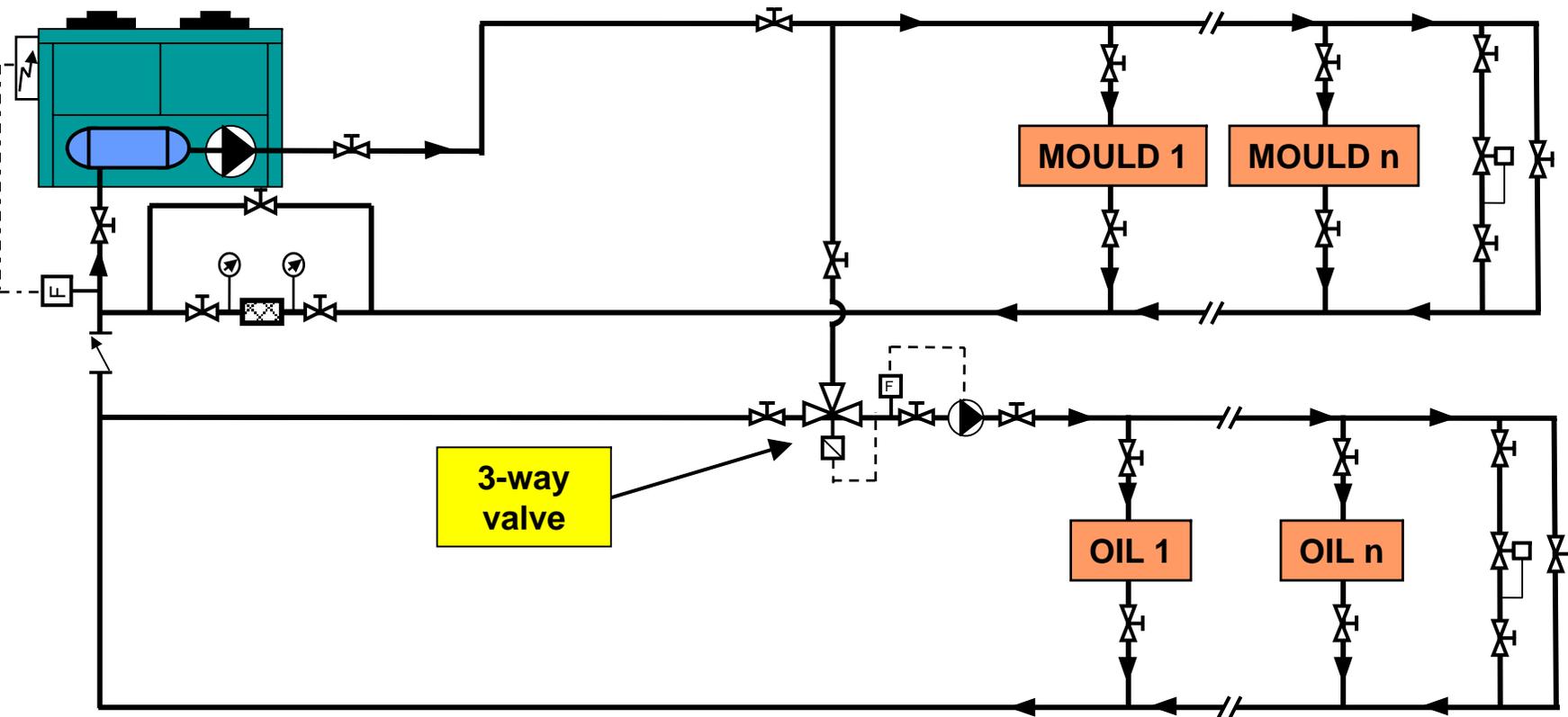


Pro: simple, easy to install

Con: critical if $\Delta t \leq 3^\circ\text{C}$ (if outlet water temp $+7^\circ\text{C}$)

$\Delta t \leq 4^\circ\text{C}$ (if outlet water temp $+15^\circ\text{C}$)

Typical Installation. Chiller with internal pump and tank and two temperatures

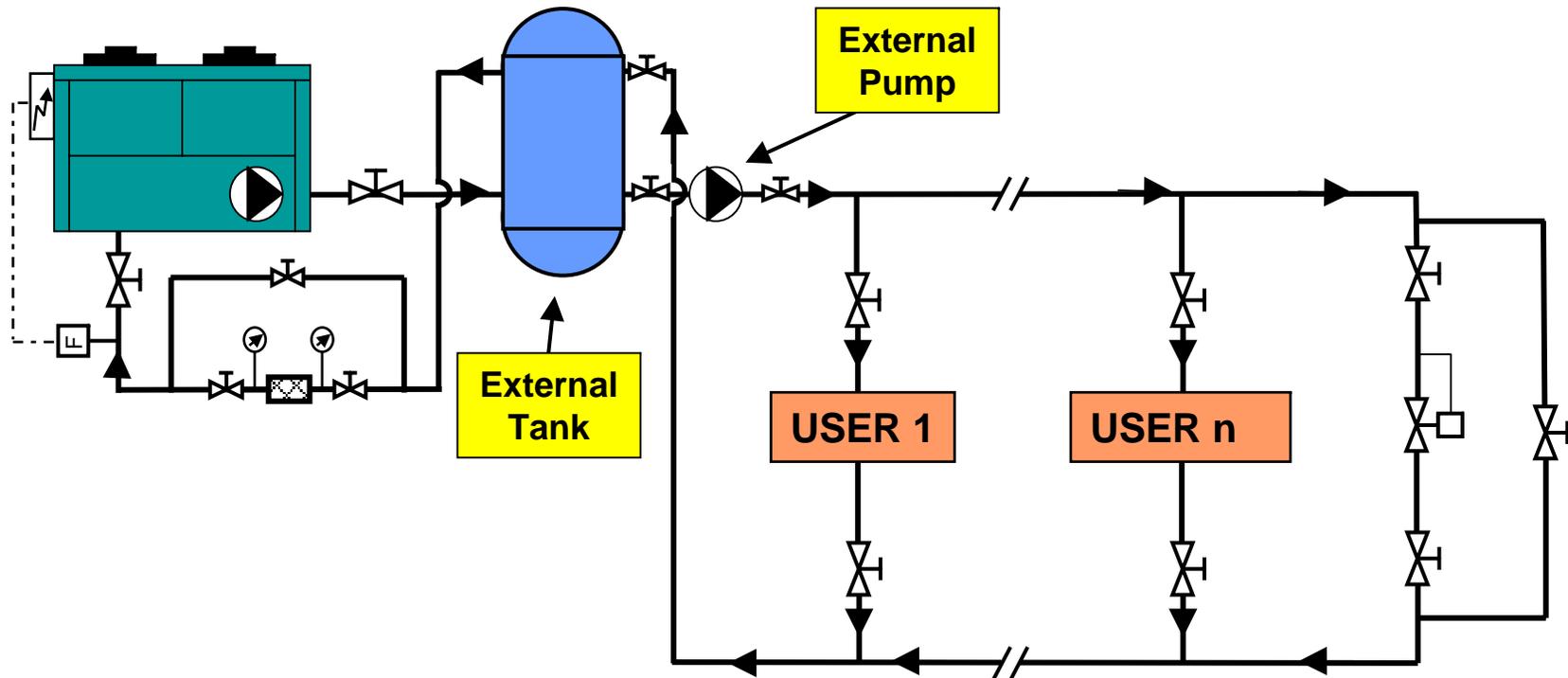


Pro: simple, easy to install

Con: critical if Δt chiller $\leq 3^\circ\text{C}$ (if chiller outlet water temp $+7^\circ\text{C}$)

Δt chiller $\leq 4^\circ\text{C}$ (if chiller outlet water temp $+15^\circ\text{C}$.)

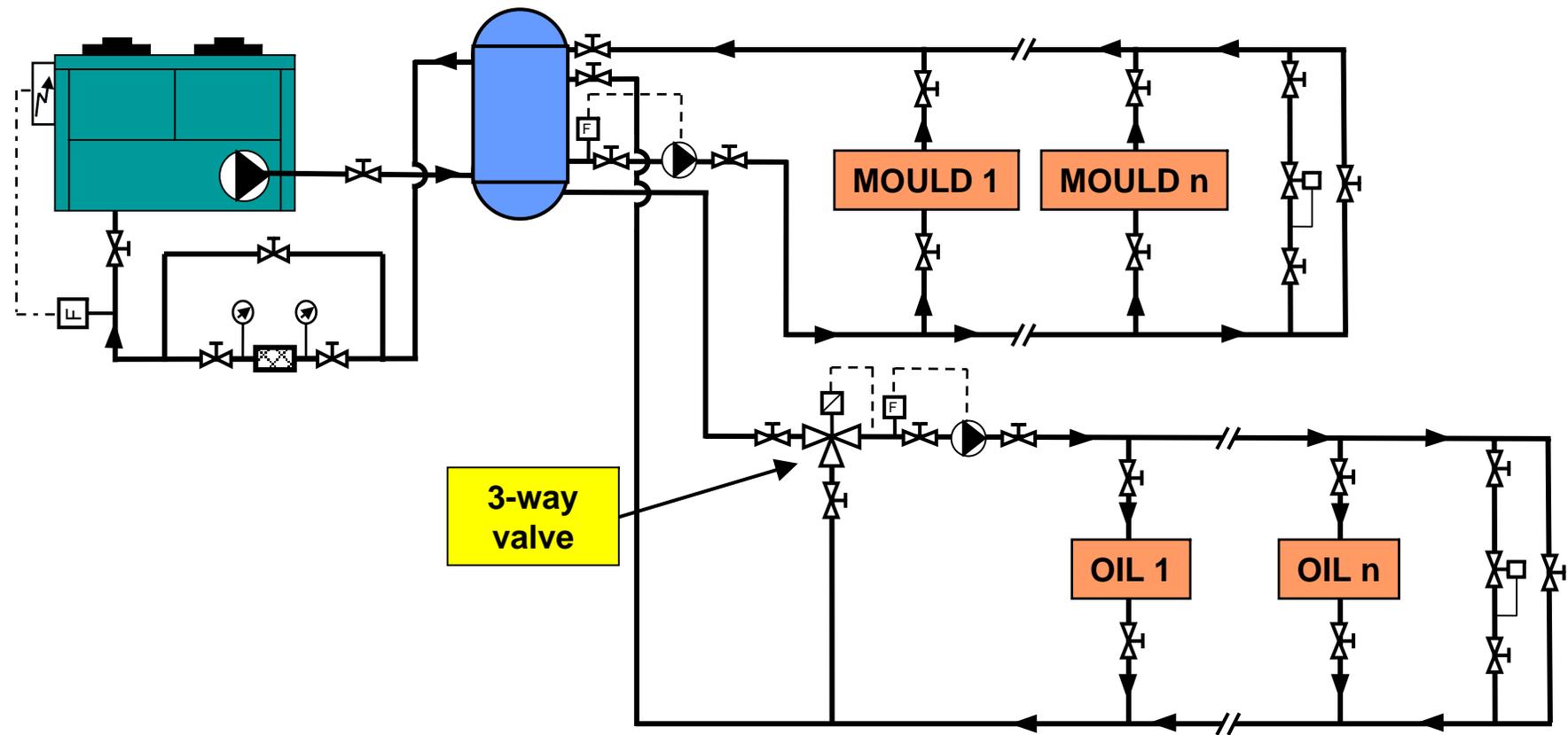
Typical Installation. Chiller with intermediate tank



Pro: can work with lower Δt , easy to set

Con: the chiller must be set to an outlet temp. lower than the working temp.

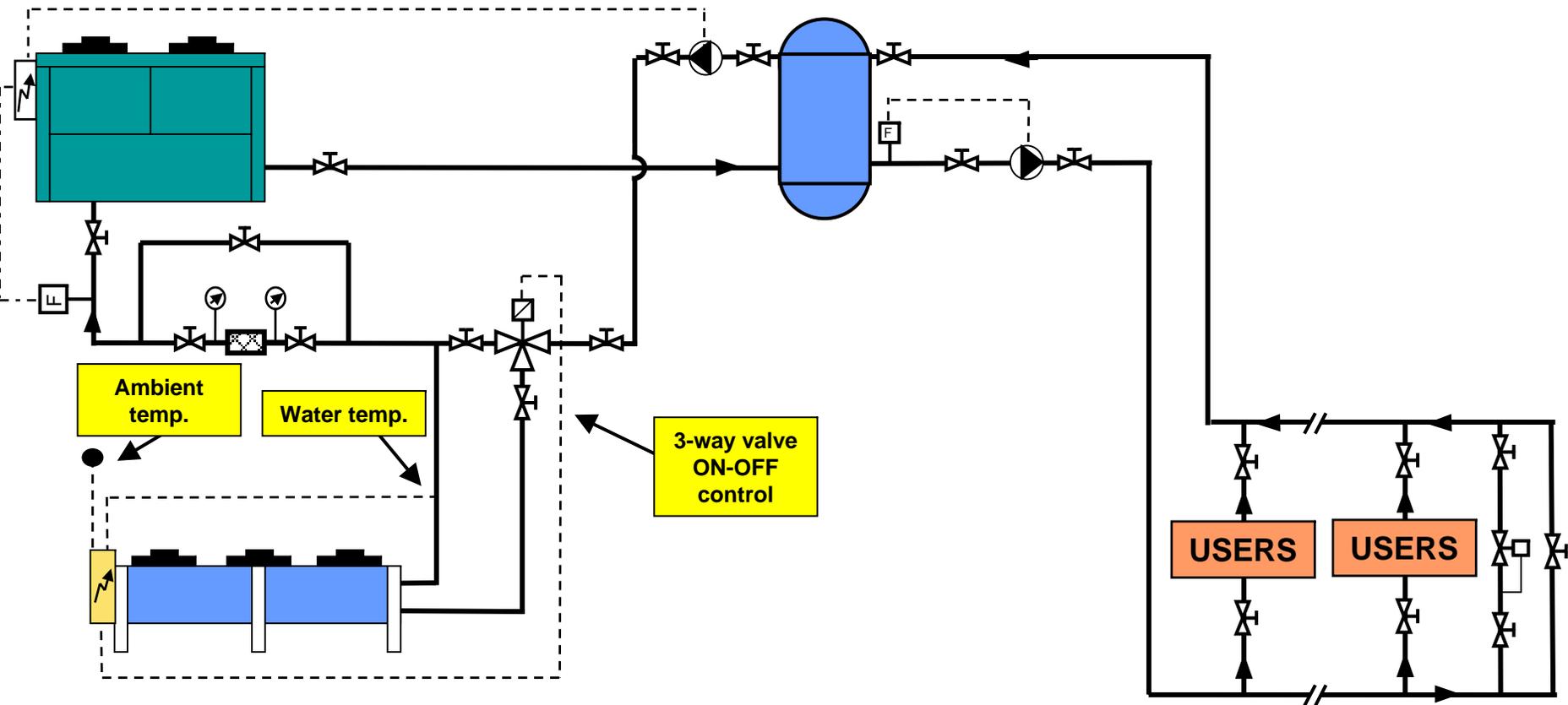
Typical Installation. Two temperatures with 3-way valve



Pro: constant temperature on both the circuits

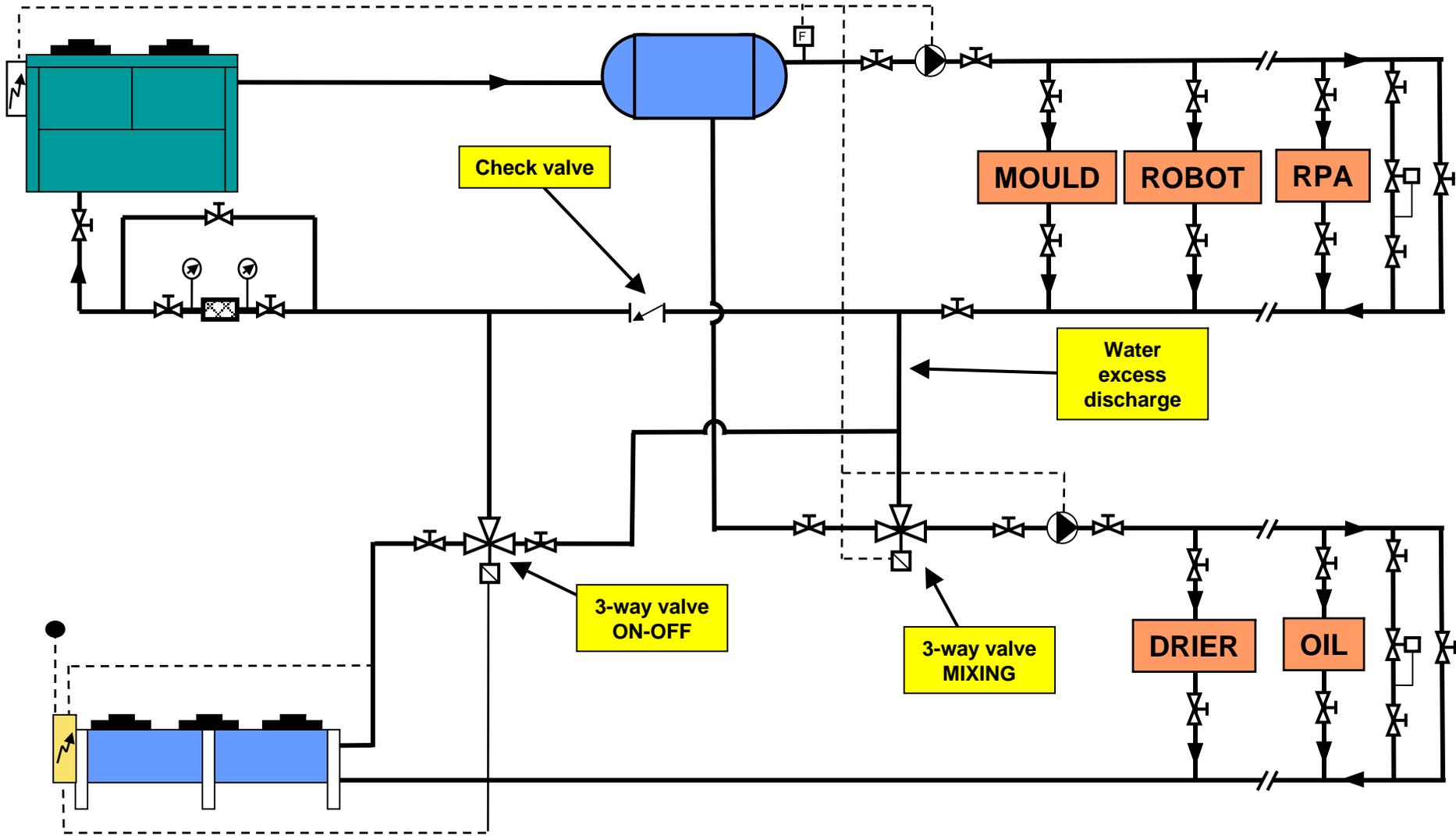
Con: the chiller must be set to an outlet temp. lower than the minimum working temp.

Typical Installation. Free-cooling



Pro: energy saving

Typical Installation. Free-cooling with two temperatures



Typical Installation. Free-cooling with two temperatures

