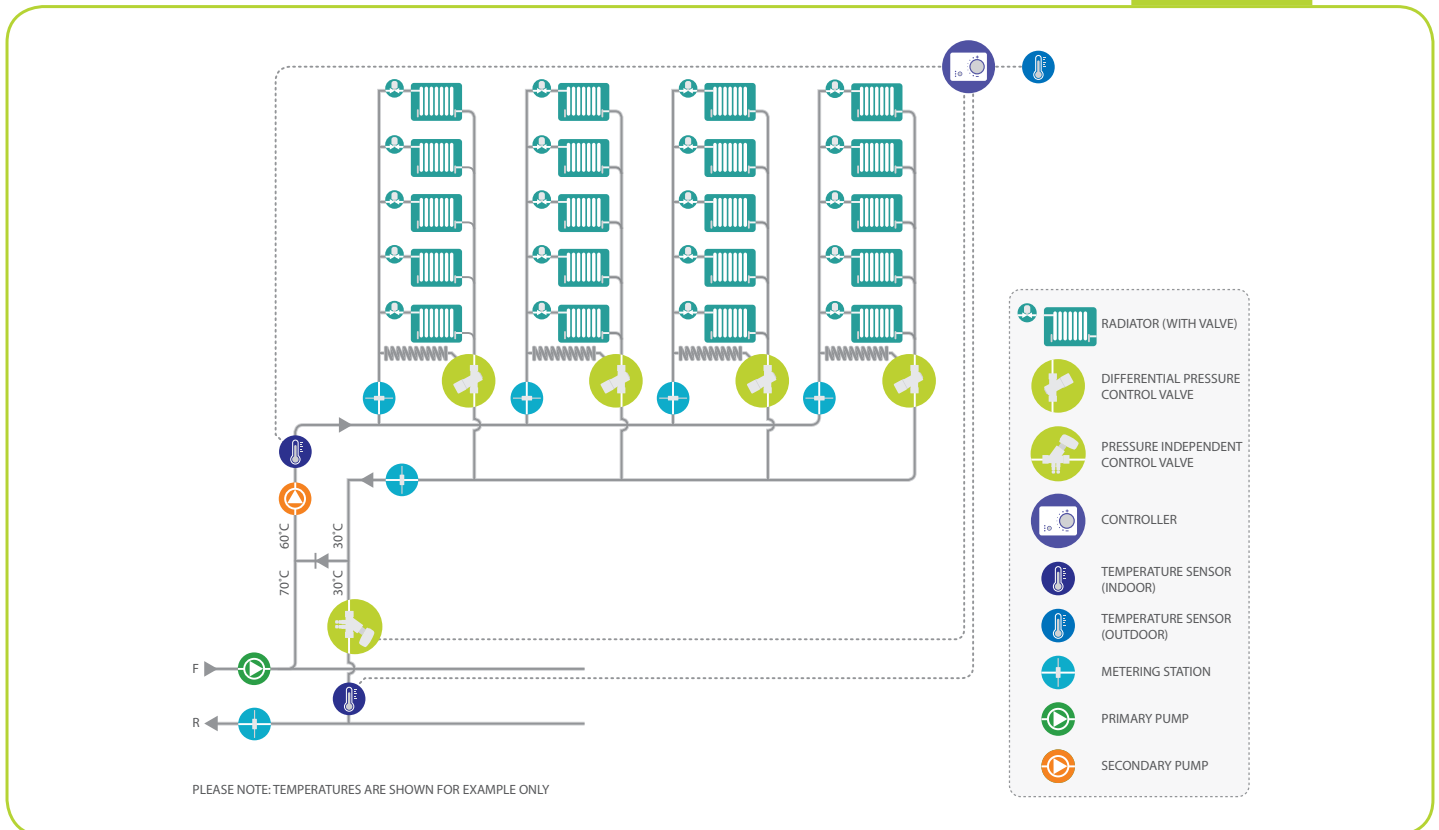


Radiator System with differential pressure control



Function

The room temperature is controlled by the radiator valve on each radiator.

The balance of the system is handled by the pre-setting of the radiator valves in conjunction with the pre-set differential pressure, controlled by the DPCV.

A DPCV controlling the differential pressure at every riser prevents from noise in the system and allow the radiator valves to regulate and close when required.

The temperature from the primary circuit is lowered to an optimal inlet temperature at the secondary side, with a heat PICV injection circuit connected to a controller.

The flow at the individual risers can be adjusted by the DPCV and verified on the metering station on each riser.

Benefits

- Prevents noise in the system.
- Provides good modulation for the radiator valves.
- All sections will have a defined DP available.
- With the correct radiator valve pre-setting, the flow will be controlled in every part of the system.
- Low cost solution.

Considerations

- If the radiator valves are without pre-setting or they are not set correctly, the flow in the system will not be in balance.

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Frese PV Compact
Differential Pressure Control Valve



Frese OPTIMA Compact
Pressure Independent Control Valve