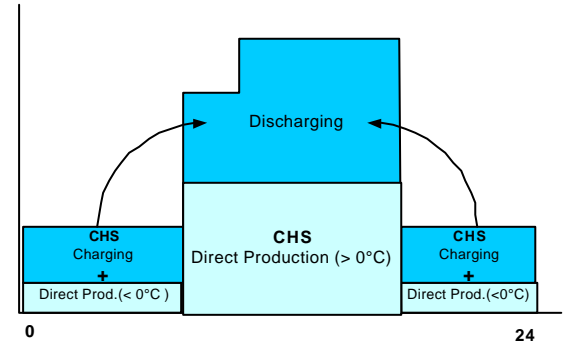
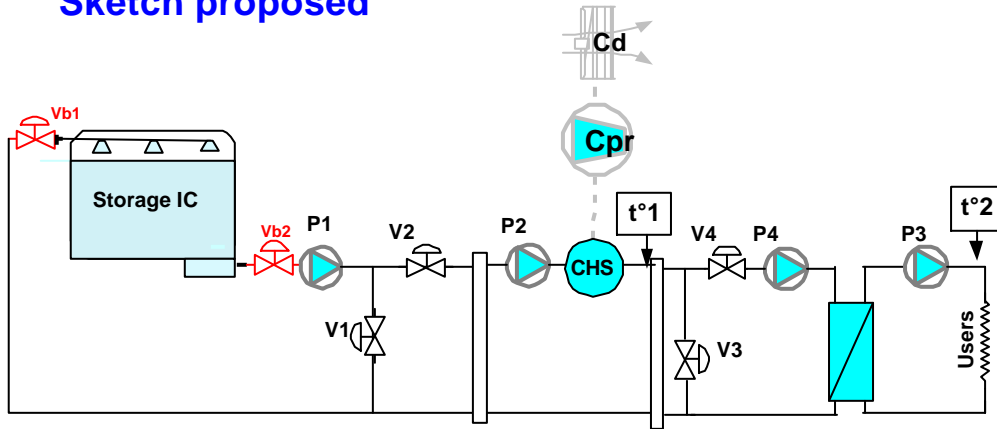


# Permanent Load Profile - Low base loading

## Partial Storage - Chiller downstream Sketch proposed



(NO) : Normally Open - (NC) : Normally Closed.

Vb1 (NC)- Vb2 (NC) - V1 (NO) - V2 (NC) - V3 (NO) - V4 (NC)

Valves V1 and V2 can be replaced by only one 3 ways valve NO on V1 branch. Valves V3 and V4 can be replaced by only one 3 ways valve NO on V3 branch

When P1 is On, Vb1 and Vb2 are opening with adjustable delay or by measuring the coolant pressure upstream the Vb1 valve

When P1 is Off, the valves Vb1 and Vb2 are closed immediately.

P1 is designed to circulate the coolant flow rate (see § 6.2) through: V1 or V2, the Storage IC (40 kPa), Vb1 and Vb2.

P2 is designed to circulate the coolant through CHS

P3 is designed to circulate the coolant through users

P4 is designed to circulate the coolant flow rate through V4 and the Heat Exchanger (HEX).

CHS is designed to charge the Storage IC (coolant temp. < 0°C, 32°F) and to provide Directly cooling energy (> 0°C, 32°F) under the t°1 control.

Several CHS chillers CHS', CHS''...can be installed in parallel with the first one. Every CHS chillers must be equipped with a pump P'2, P''2...and a check valve.

The users coolant temperature is under the t°2 control.