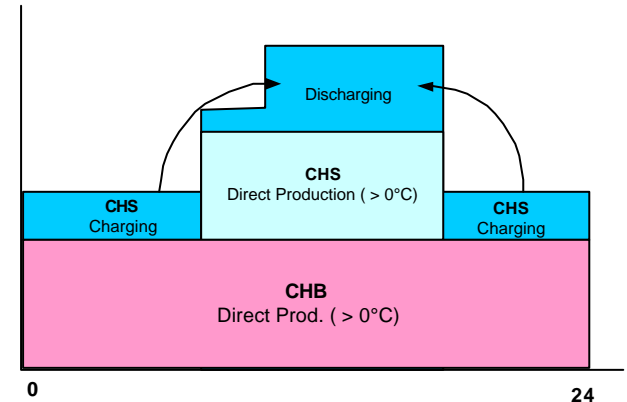
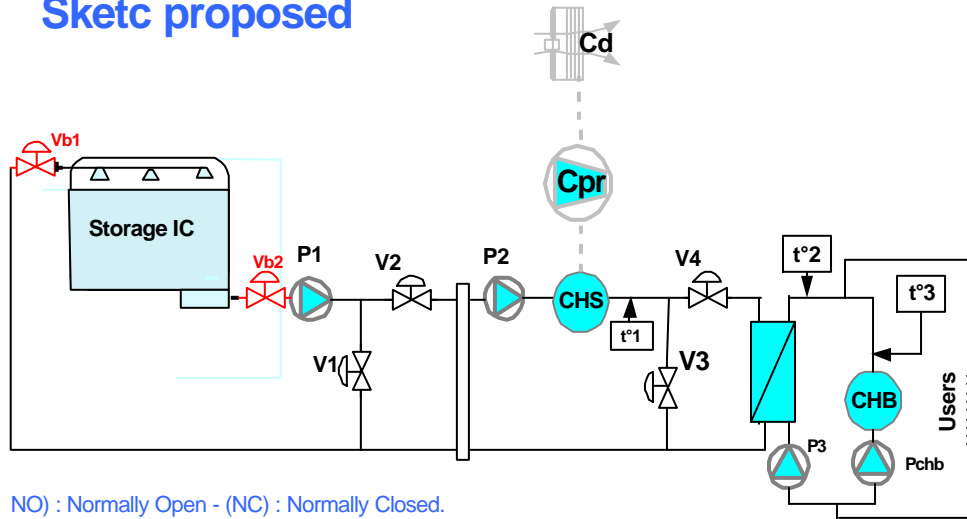


Permanent Load Profile - High base Loading.

Partial Storage - Chiller downstream Sketc 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. Valves Vch1, Vch2 and the CHS by-pass piping can be cancelled. So, when P2 is running the coolant flows through the CHS evaporator.

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: Vch2, CHS, V4 and the Heat Exchanger (HEX).

P3 is designed to circulate the coolant through users.

Pchb is designed to circulate the coolant through users.

CHS is designed to charge the Storage IC (coolant temp. < 0°C) and to provide Directly cooling energy (> 0°C) under the t1 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 from the Heat Exchanger is under the t2 control

CHB is designed to cover the high base loading capacity 24 hours a day under the t3 control.

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