

**Relief Valves:**  
 REV101 9.0bar 3/4"  
 REV102 9.0bar 3/4"  
 REV104 2.5bar 1/2"  
 REV105 1.0bar 1/2"

**MODULARITY DETAILS:**

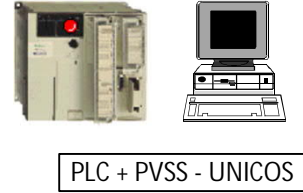
**SciFi FE:**  
 Power = 35 kW; dT = 3K; Flow = 10.0 m<sup>3</sup>/h  
 48 loops ID 8mm flow = 3.5 l/mn

**UT:**  
 Power = 4.6 kW; dT = 2K; Flow = 2.0 m<sup>3</sup>/h  
 8 loops ID 10mm flow = 4.2 l/mn  
 Details on drawing 221.03.03

**GENERAL SPECIFICATIONS:**  
 Power: 39.6 kW  
 Primary circuit: Chilled Water 6/12 °C – 5.7 m<sup>3</sup>/h  
 Secondary: Demineralized Water (alu) – 16/19 °C – 12.0 m<sup>3</sup>/h  
 14 intermediate loops; 1 temperature area

**Pressure drops distribution:**  
 -Supply line: mbar  
 -Height difference: 4m access to the detector  
 -Subpressure: mbar in detector  
 mbar return line  
 -Plant: 400 mbar in HPX  
 bar in filter and manifold  
 Existing centrifugal pump; 13 m<sup>3</sup>/h @ 55m

LHCb SciFi – PLANT UX85 – FCUL-00031	P.BONNEAU
<b>COOLING SYSTEM FOR SciFi FE &amp; UT (former OT) – P&amp;ID</b>	A3
	05/06/2019
CERN/EN/CV/DC – EDMS N°1915281	221.03



PLC + PVSS - UNICOS