

Niobium EP Setup

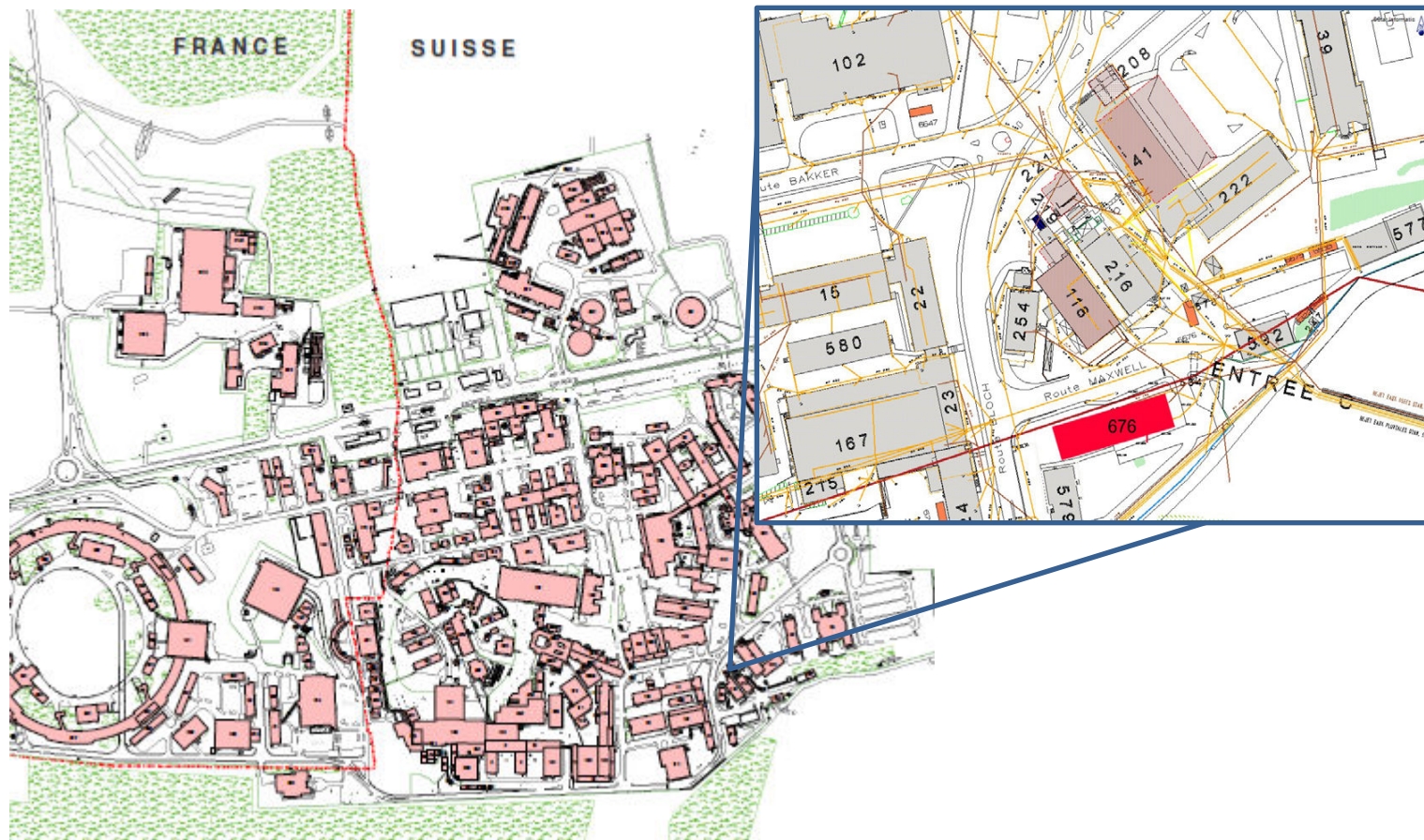
Niobium EP Setup

Content:

- **Site;**
- **Schematic of setup;**
- **Main equipment parameters;**
- **Details of the installation.**



Niobium EP Setup



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Previous site for Nb EP
(1.3 GHz TESLA)

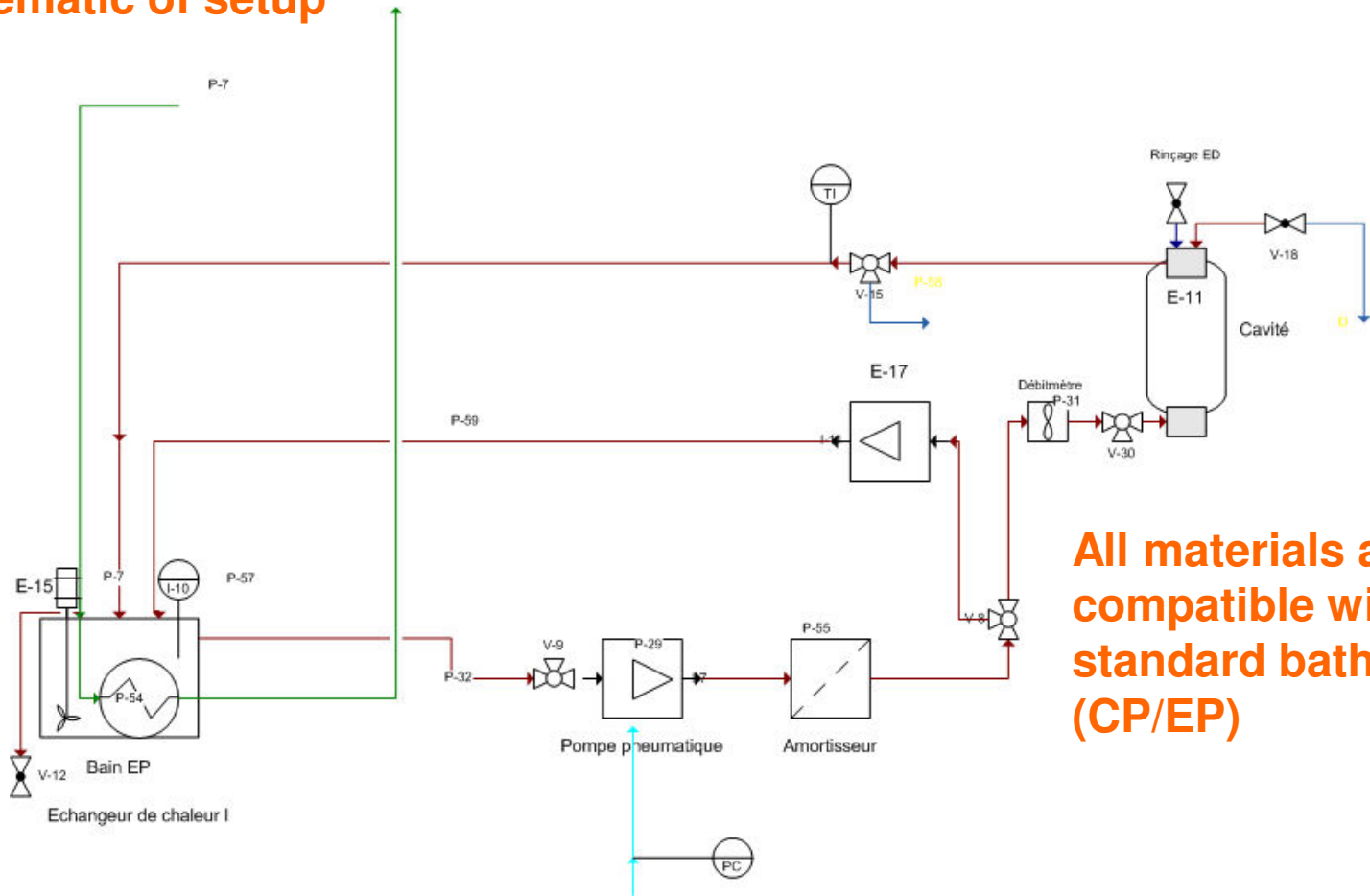


“New” site for Nb EP



Niobium EP Setup

Schematic of setup



All materials are compatible with standard baths (CP/EP)

Niobium EP Setup

Main equipment parameters

Pump
Max. 50 lpm

Specific Volume	1.77 g.cm ⁻³
Viscosity	0.23 g.cm ⁻¹ .s ⁻¹
D_H	4.00 cm
Flow	50.00 dm³/min
Speed	66.31 cm.s ⁻¹
Re	2050 < 2100

Heat exchanger
Min. 6 kW

Extrapolation from TTC* data for SPL beta 1

* TESLA Technology
collaboration

Applied potentiel	17 V
Applied courant	777 A
Power	13 kW

Removed heat

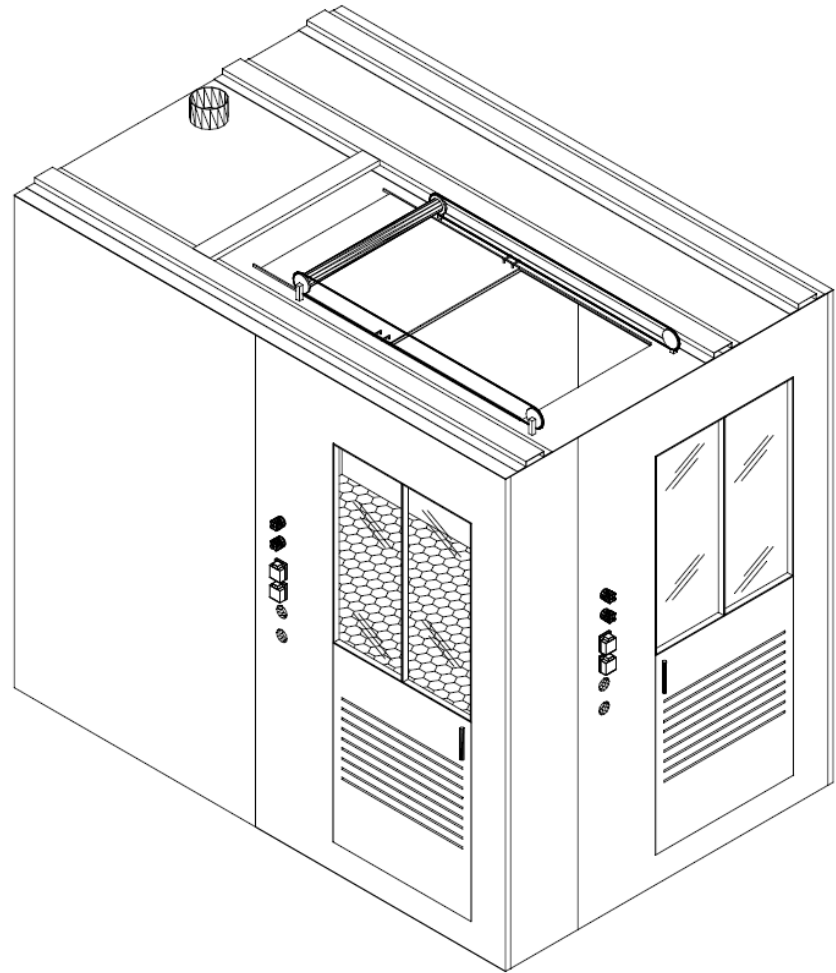
T _{in} =	15 °C	
T _{out} =	25 °C	
Q _v =	29 dm ³ /min	1740 lph
H =	11215 kcal/h	13kW

Niobium EP Setup

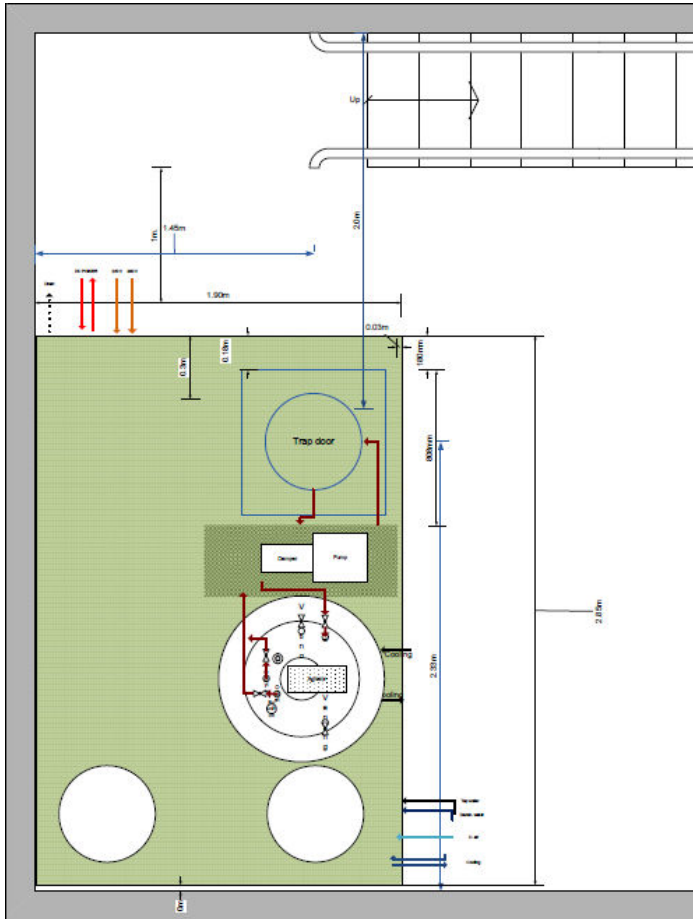
Details of the installation

Walk-in booth:

- ~500 m³/h
- ~40 volumes/hour



Details of the installation

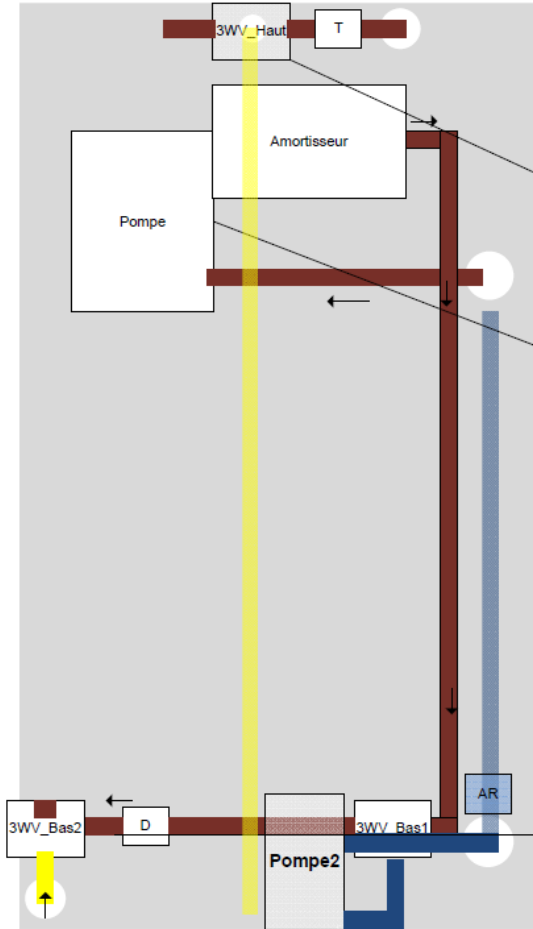


Main lay-out

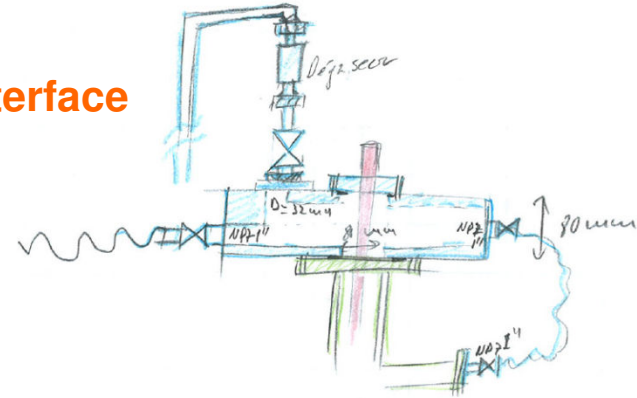
Niobium EP Setup

Details of the installation

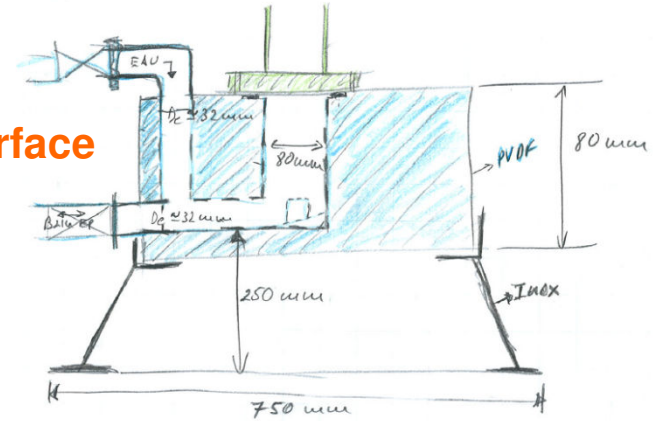
Schematic of circuit



Top interface



Bottom interface



Interface point b2s

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Planning

	Activity	Période
Phase I	Réception of « Sorbonne »	End of December
	Assembling of different components	End of January
	Test hydraulique	February