Overview of the project

Who, what, when...

	CERN	DESY	NIKHEF	LNF (INFN)	
LUCASZ version	LUCASZ lite	LUCASZ full	LUCASZ full	LUCASZ full	
LUCASZ components*	1 LUCASZ plant	1 LUCASZ plant 1 master local box	1 LUCASZ plant 1 master local box	1 LUCASZ plant 1 master local box	
Date for operational system	01.01.2019	01.01.2019	01.01.2019	First half of 2020	
Main contact	Dina Giakoumi	Frauke Poblotzki, Reimer Stever	Bob van Eijk, Marcel Vreeswijk	Giovanni Delle Monache	
Main contribution	Drawings, part lists, getting offers, support	Construction, getting offers	Welding of pipes for 3 or 4 systems to be confirmed, getting offers	Manufacturing of parts (e.g. brackets), man power*, welding if needed, getting offers	

- *LUCASZ components in total: 4 plants, 3 master local boxes
- *Man power: Sending people to DESY for 2-3 weeks on multiple occasions depending on needs

	Α	В	С	D	E	F	G	J	K	L	М
4		Supplier	▼	explanaiton	every- thing •	plant + maste ▼	L-plant	Care taker	Comment		
5		Alfa Laval		Plate heat exchanger in the local box	2	1	0	Cern	Offer: Dina Giakoumi		
6		Amphenol	(Through HydroAutom	Electrical - Ethernet socket	4	0	0	HydroAutomatyka			
7		Armacell		Insulation material, a lot more needed	3	3	3	DESY?			
8		Armafix	(Through Bitzer)	Insulation in the chiller	3	0	0	Bitzer			
9		Bitzer	(Through Bitzer)	Supplier for chiller in total	3	1	1	Cern	Offer: Bart Verlaat		
10		Bosch		Frame material	192	110	5	Cern	Offer: Dina Giakoumi		
11		Bosch Rexroth		Frame material	191	191	149	Cern	Offer: Dina Giakoumi		
12		BOSSARD		Screws	242	168	94	DESY?			
13		Carel		Valves in local box and their automatics	12	1	0	Cern	Offer: Dina Giakoumi		
14		Danfoss	(Through Bitzer)	Chiller components	6	0	0	Bitzer			
15		Festo		Pneumatic valve and unit in local box	2	1	0	Cern	Offer: Dina Giakoumi		
16		GE		Pressure transmitters	11	9	5	Cern	Offer: Dina Giakoumi		
17		Hoke		Safety valve in the plant	2	2	2	Cern	Offer: Dina Giakoumi		
18		Keller		Pressure transmitter in the plant	1	1	1	Cern	Offer: Dina Giakoumi		
19		LEWA		Pump and pump head in the plant	2	2	2	Cern	Offer: Bart Verlaat, ordered and delivered		
20		Lutze	(Through HydroAutom	Electrical - components	19	0	0	HydroAutomatyka			
21		Phoenix Contact	(Through HydroAutom	Electrical - components	20	0	0	HydroAutomatyka			
22		PR Electronics	(Through HydroAutom	Electrical - components	27	0	0	HydroAutomatyka			
23		RADIOSPARES		Silent blocks, support for vacuum system, help	3	3	0	DESY?	<3,55 € each, https://fr.rs-online.com/web	/p/plots/254	7494/
24		RHEONIK		Mass flow meter and automatics in local box	3	1	0	Cern	Offer: Dina Giakoumi		
25		Rittal		Electrical - fan & filter	2	0	0	HydroAutomatyka			
26		Rodax		Temperature probes and transmitters	14	6	4	Cern	Offer: Dina Giakoumi		
27		Rotarex		PTB - measurement cross	1	1	1	Cern	Offer: Dina Giakoumi		
28		RS Components	(Through HydroAutom	Electrical - components	2	0	0	HydroAutomatyka			
29		Schneider	(Through HydroAutom	Electrical - components	30	0	0	HydroAutomatyka			
30		Schneider Electric	(Through HydroAutom	Electrical - components	2	0	0	HydroAutomatyka			
31		Selfa		Pneumatic valves in local box	2	1	0	Cern	Offer: Dina Giakoumi		
32		Siemens	(Through HydroAutom	Electrical - components	48	0	0	HydroAutomatyka			
33		Swagelok	Swagelok - machined	Hydraulic components everywhere	496	343	175	NIKHEF?	Bart Verlaat ordered some already		
34		Swep	(Through Bitzer)	One heat exchanger in chiller and accumulate	2	0	0	Bitzer / Hoefnagel & Meijn			
35		Vacuubrand		Vaccum pump in local box master	1	1	0	Cern	Offer: Dina Giakoumi		
36		WAGO	(Through HydroAutom	Electrical - components	142	0	0	HydroAutomatyka			
37		Watlow		Supplier for heating elements	2	1	1	Cern	Offer: Dina Giakoumi		
38		Weidmuller	(Through HydroAutom	Electrical - components	48	0		HydroAutomatyka			
39		Standard piece		Everything declared as normalized	258	258	258	DESY?			
40		(Through HydroAutom	natyca)		135	1	1				
41	(Through Bitzer)				123	0	0				
42		(Through Hoefnagel &	k Meijn)		34	0	0				
43				Empty fields	34	0	0				
44					2124	1106	702	1808			
45											
46 *	Missing s	ome pieces because the	ree assemblies are used	twice or thrice, but it does not exactly make a	difference						
47											

