

EN-CV: LHCb Common Chiller

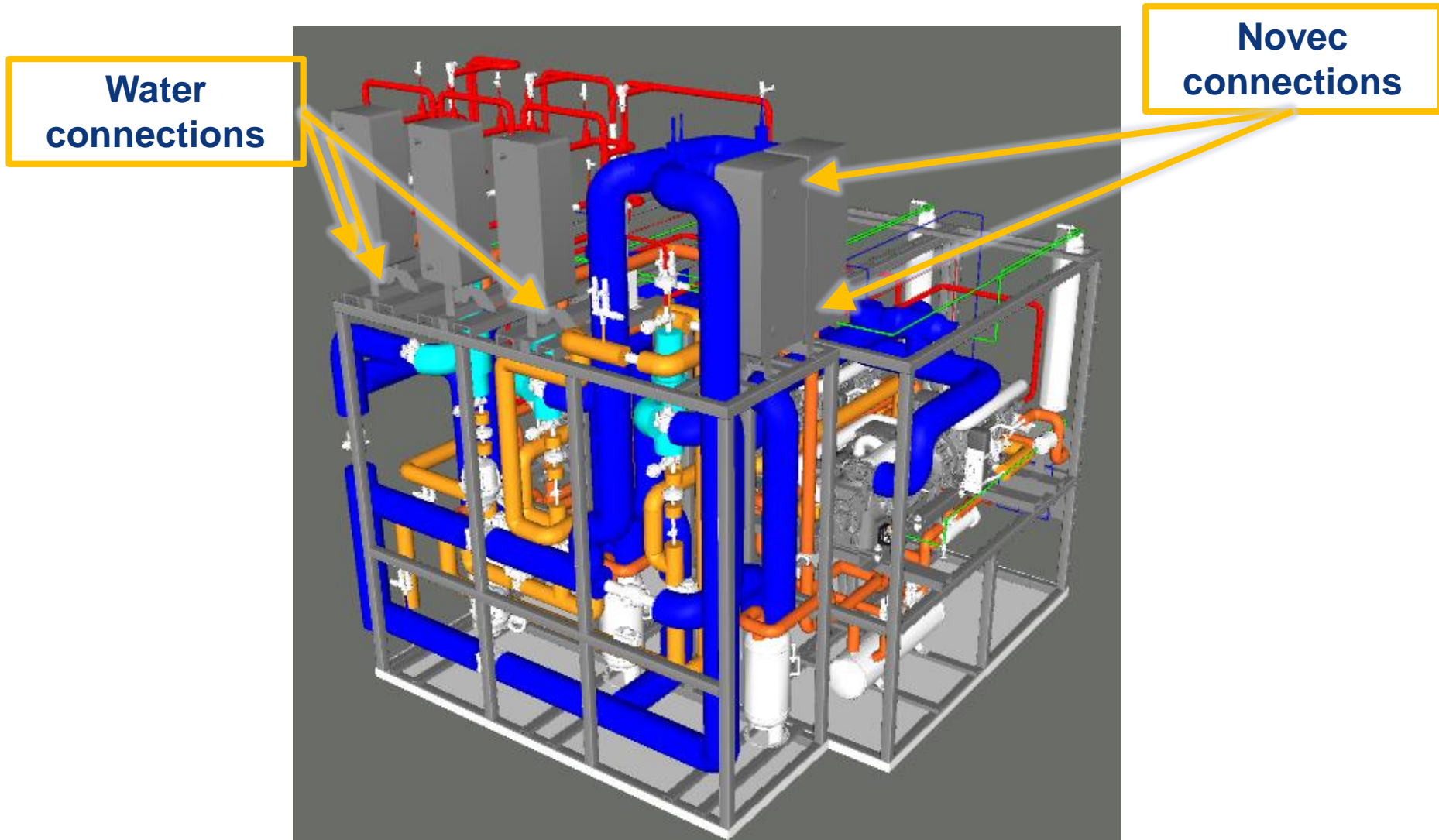
Martin Doubek

March 22, 2019

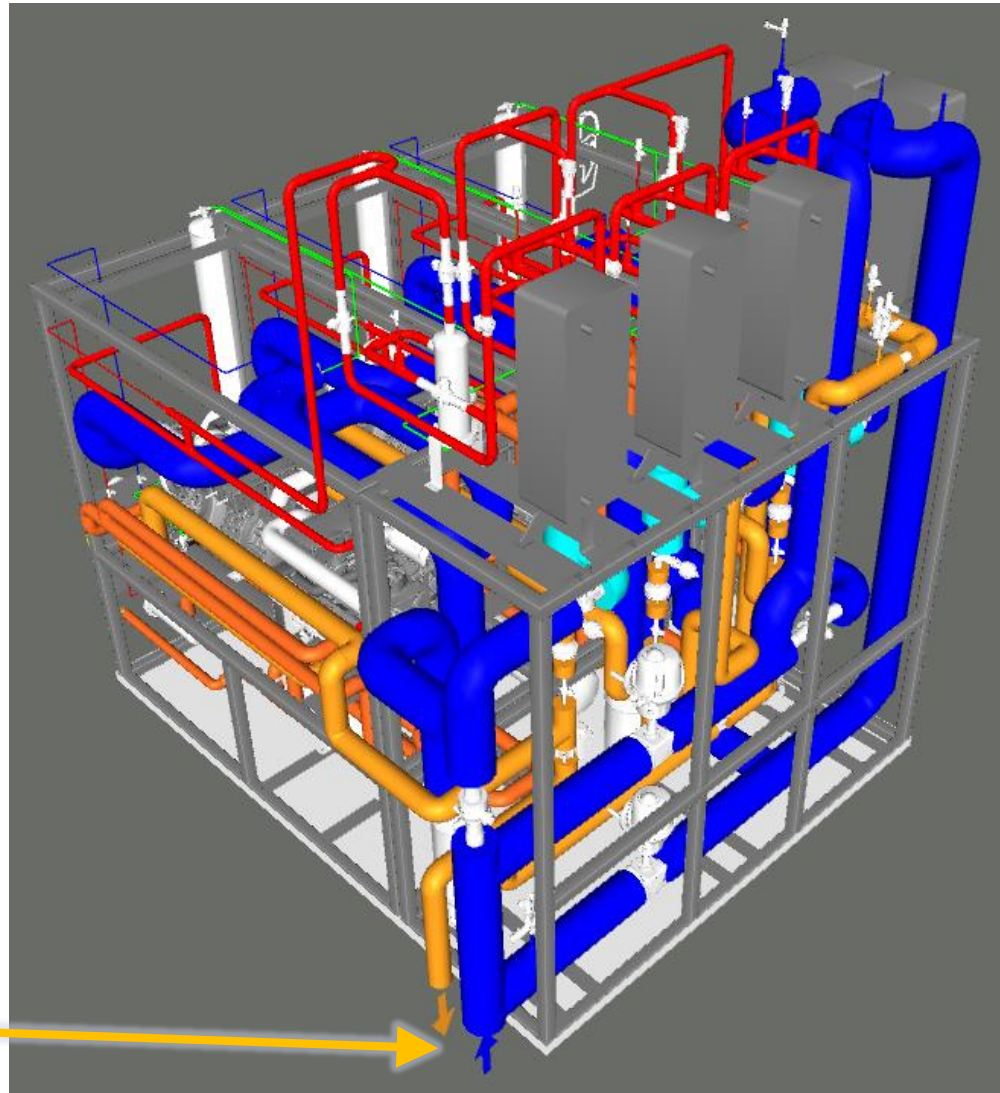


ENGINEERING
DEPARTMENT

LHCb Common chiller (tandem compressors)



LHCb Common chiller (tandem compressors)

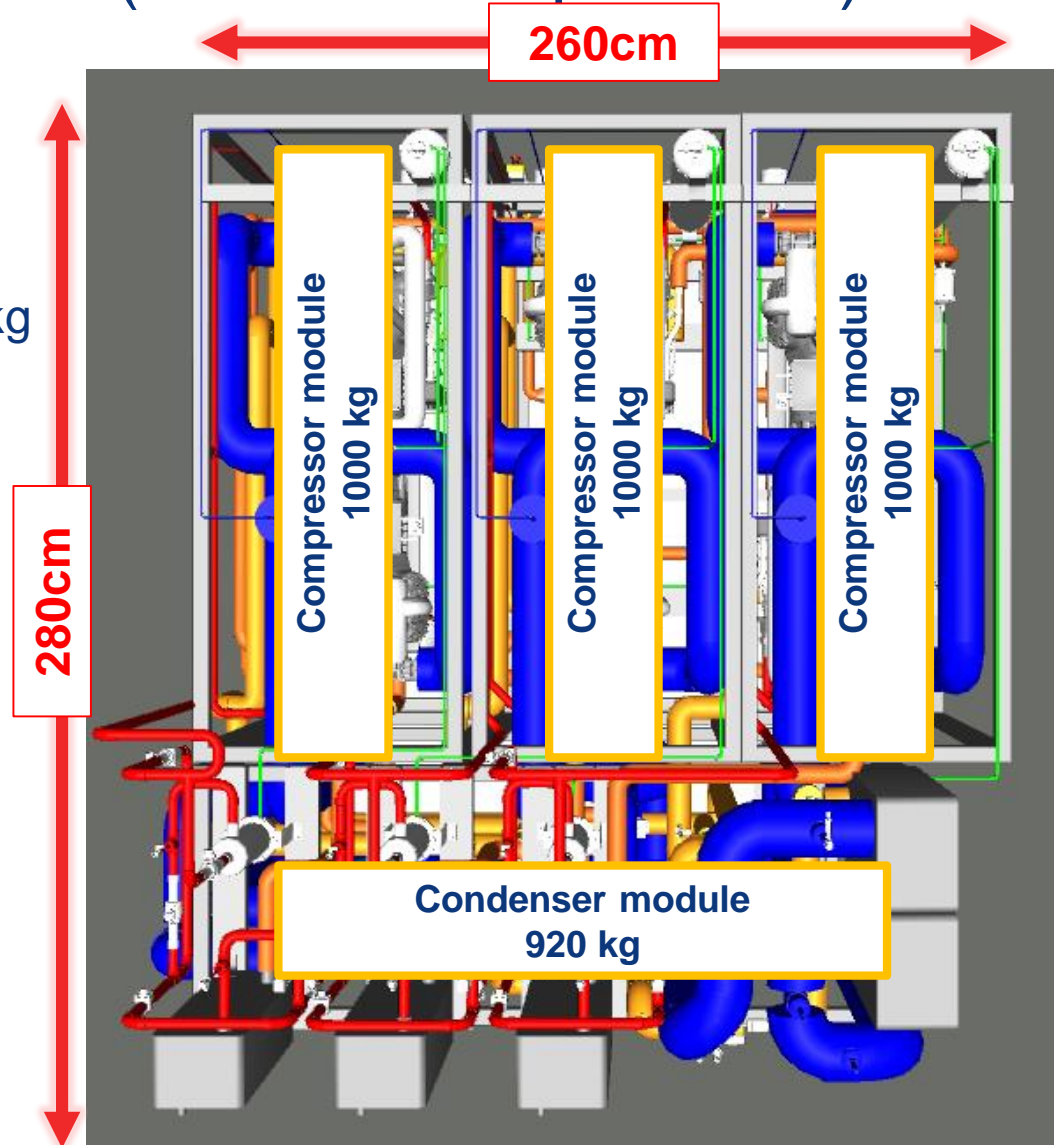


**Mauve
Connections**

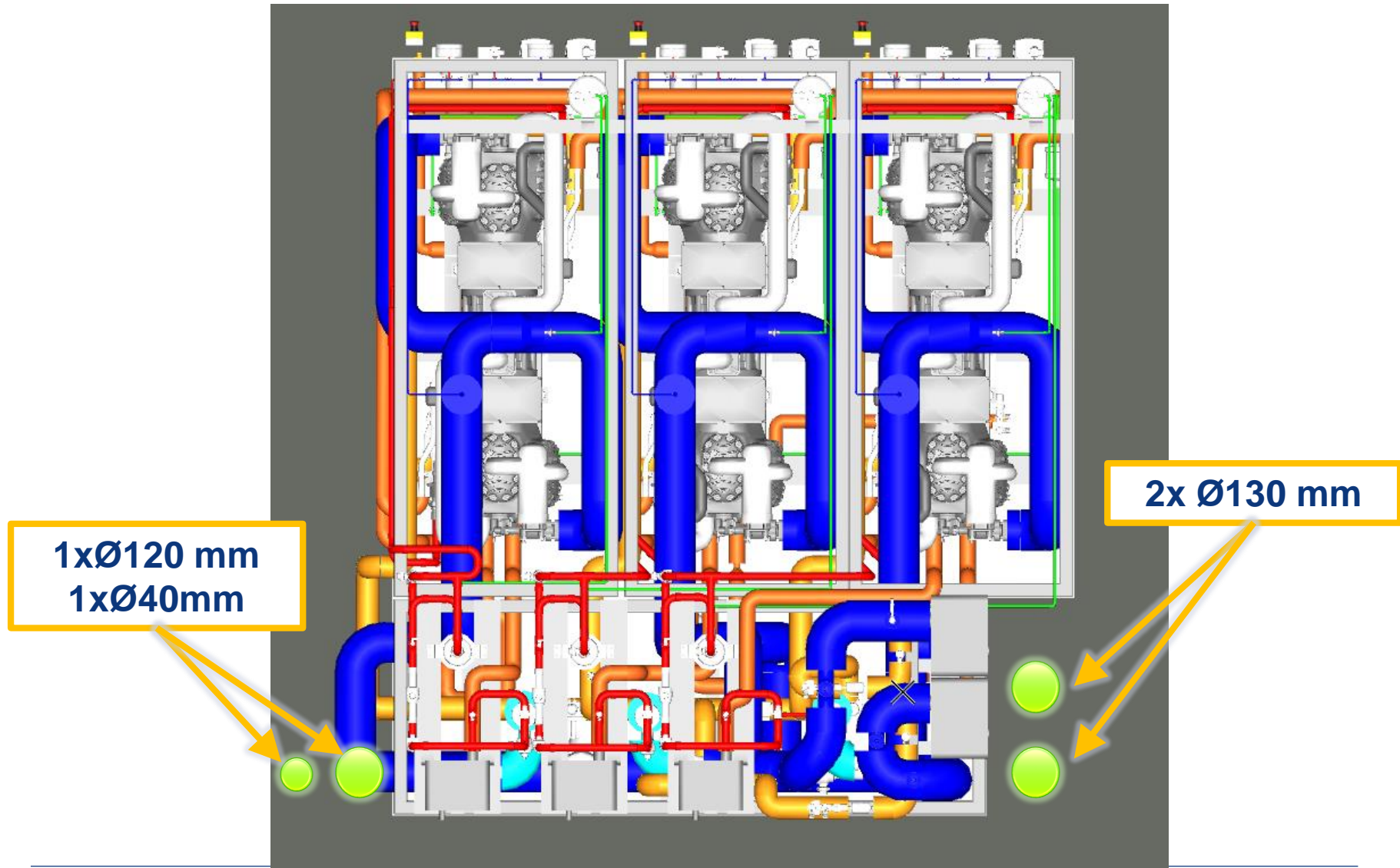
LHCb Common chiller (tandem compressors)

Estimated Weights:


3x Compressor module 3x1100kg
1x Condenser module 910kg



Pipes interfaces through the floor



Weights estimation

RECAP OF WEIGHT LHCB CHILLER			
Project :	LHCB CHILLER	 <small>FROID INDUSTRIEL - CLIMATISATION - TRAITEMENT D'AIR</small>	
C.A	J.VENTURINI		
DATE :	20/03/2019		
REV :	1		
	QTE	Weight uni. (KG)	Weight total (KG)
Compressor module			
Frame	3	550	1650
Liquide bottle	3	30	90
Compressor module	3	470	1410
Oil bottle	3	14	42
DRYER FILTER	3	1	3
DRYER FILTER OIL	3	1	3
INSTRUMENTATION	3	10	30
LIQUID LINE (A vide sans calo)	3	6	18
OIL LINE (A vide sans calo)	3	1	3
SUCTION LINE (A vide sans calo)	3	9	18
TOTAL		1092	3267
	QTE	Weight uni. (KG)	Weight total (KG)
Condensing module			
CHÂSSIS	1	270	270
BOUTEILLE ANTI-COUPS LIQUIDE	3	25	75
EVAPORATEUR P250 ASH	2	60	120
CONDENSEUR B250 ASH	3	105	315
SEPARATEUR D'HUILE	3	18	54
INSTRUMENTATION		35	35
LIQUID LINE (A vide sans calo)		6	6
OIL LINE (A vide sans calo)		1	1
SUCTION LINE (A vide sans calo)		34	34
TOTAL			910
TOTAL FOR THE CHILLER		4177	