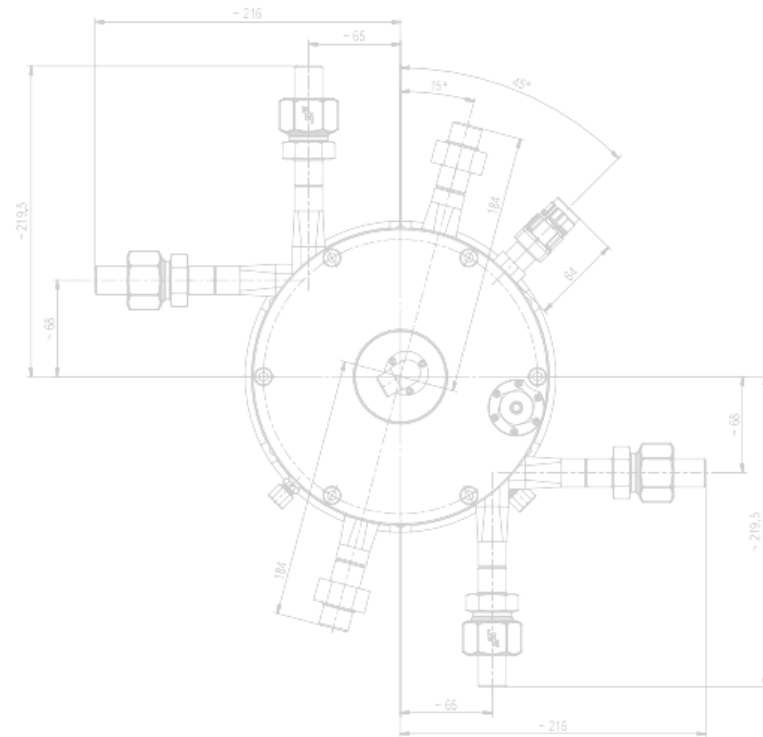
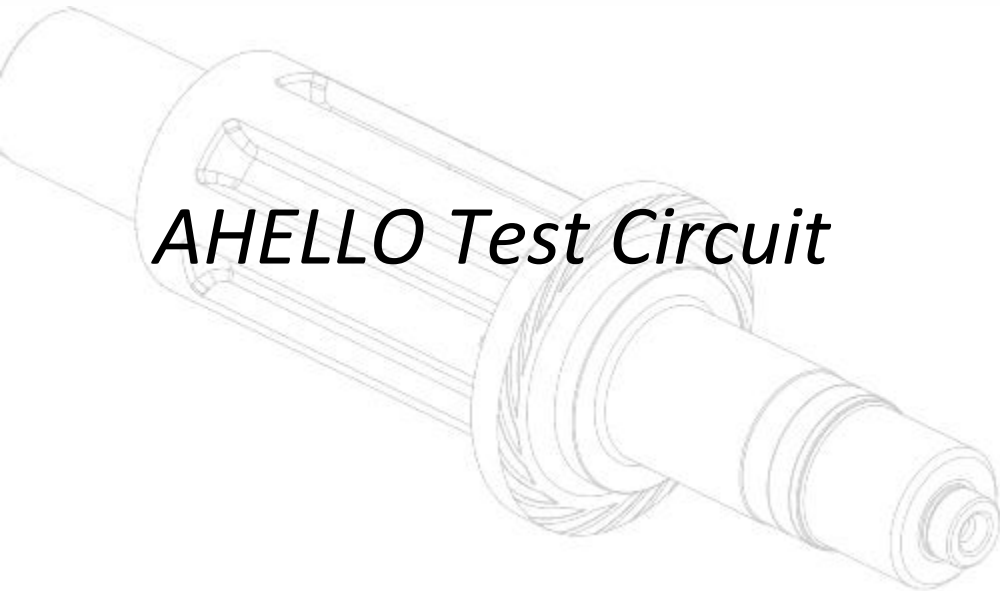


# ATEKO a.s.

1949 – 2020

*AHELLO Test Circuit*





***Reason For A New Test Circuit Research  
and Development:***

**Helium Turbocirculators Testing**

**Developed 2013 - 2016**

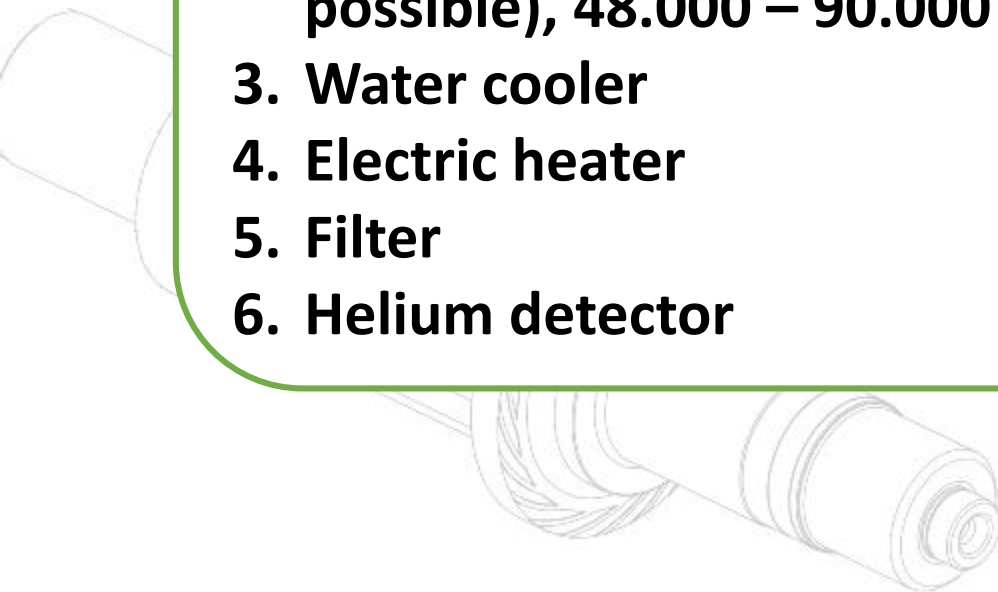
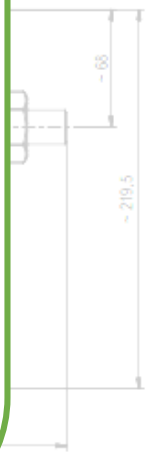
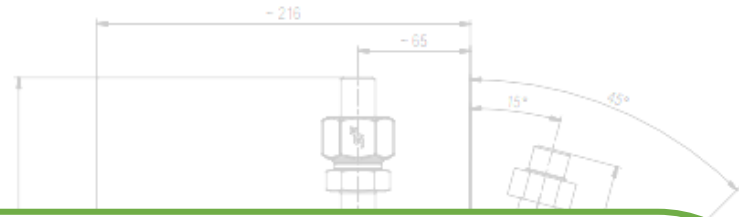
**Further development to be able to support other  
research tasks in ATEKO**



# ATEKO Helium Loop AHELLO 2

## *Composition:*

- 1. Helium (replaceable by another gas or vacuum)**
- 2. High revolution turbocirculator (two machines are possible), 48.000 – 90.000 rpm, 6 kW**
- 3. Water cooler**
- 4. Electric heater**
- 5. Filter**
- 6. Helium detector**

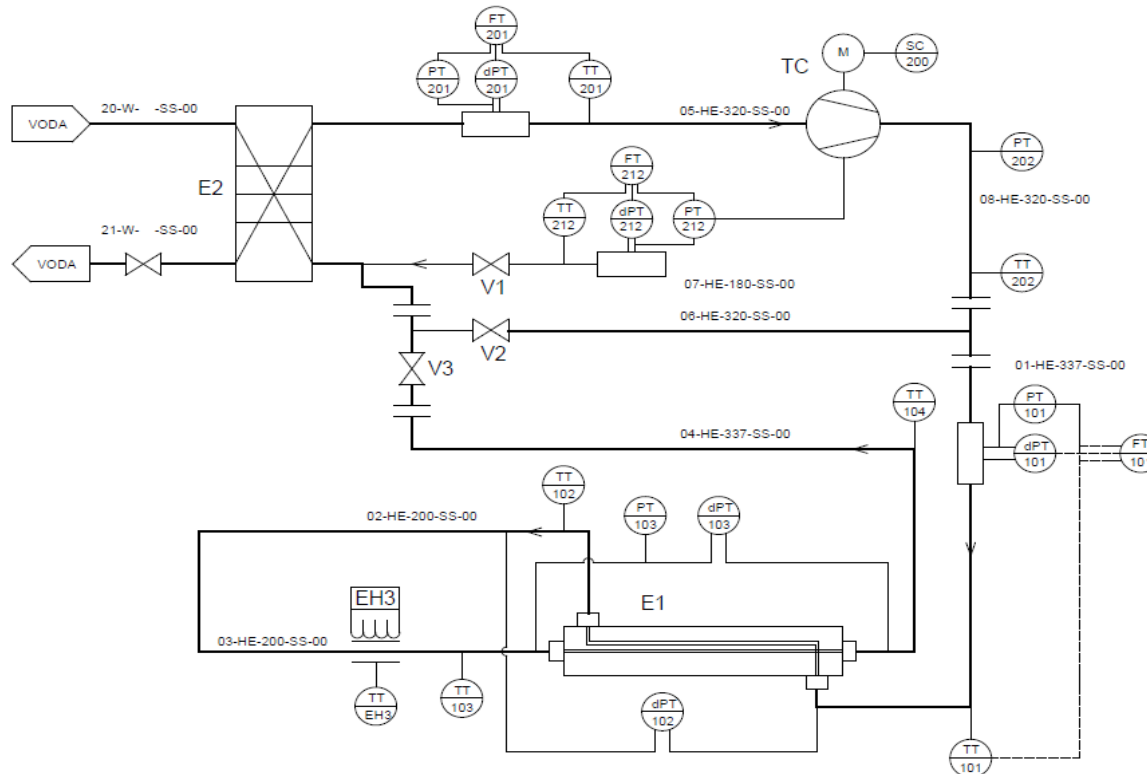


## ***Circuit Qualities and Instruments:***

- 1. Adjustable working gas temperature**
- 2. Flowmeters (2 pcs.)**
- 3. Temperature sensors (7 pcs.)**
- 4. Pressure sensors (5 pcs.)**
- 5. Differential pressure sensors (5 pcs.)**
- 6. Local monitoring system**
  - *Possible data export to PC***
  - *Possible system control***



## AHELLO Process and Instrumentation Diagram

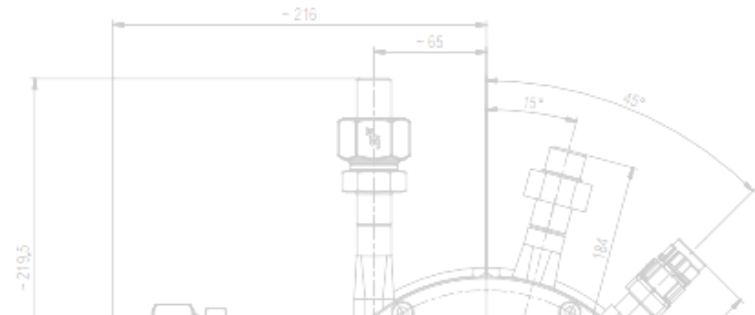


ZAPOJENÍ PRO TISŤENÝ VÝMĚNÍK

POZN.	70077 Vysokotepelný výměník		CELKOVÁ ČISTÁ VÁHA / kg				
MĚŘITKO	KRESLIL	Hušek		ZMĚNA	DATUM	POPS	INDEX
	PREZKOUSEL	Stoček					
	SCHVÁLIL	Víns					
	KOORDINÁTOR	Dostálová					
	DNE	11.05.2018					
			NAZEV	CÍSLO VÝKRESU			
			PID MĚŘÍCÍ TRATĚ AHELLO 2		3-PI-4053-2		
					LISTO		LIST 1

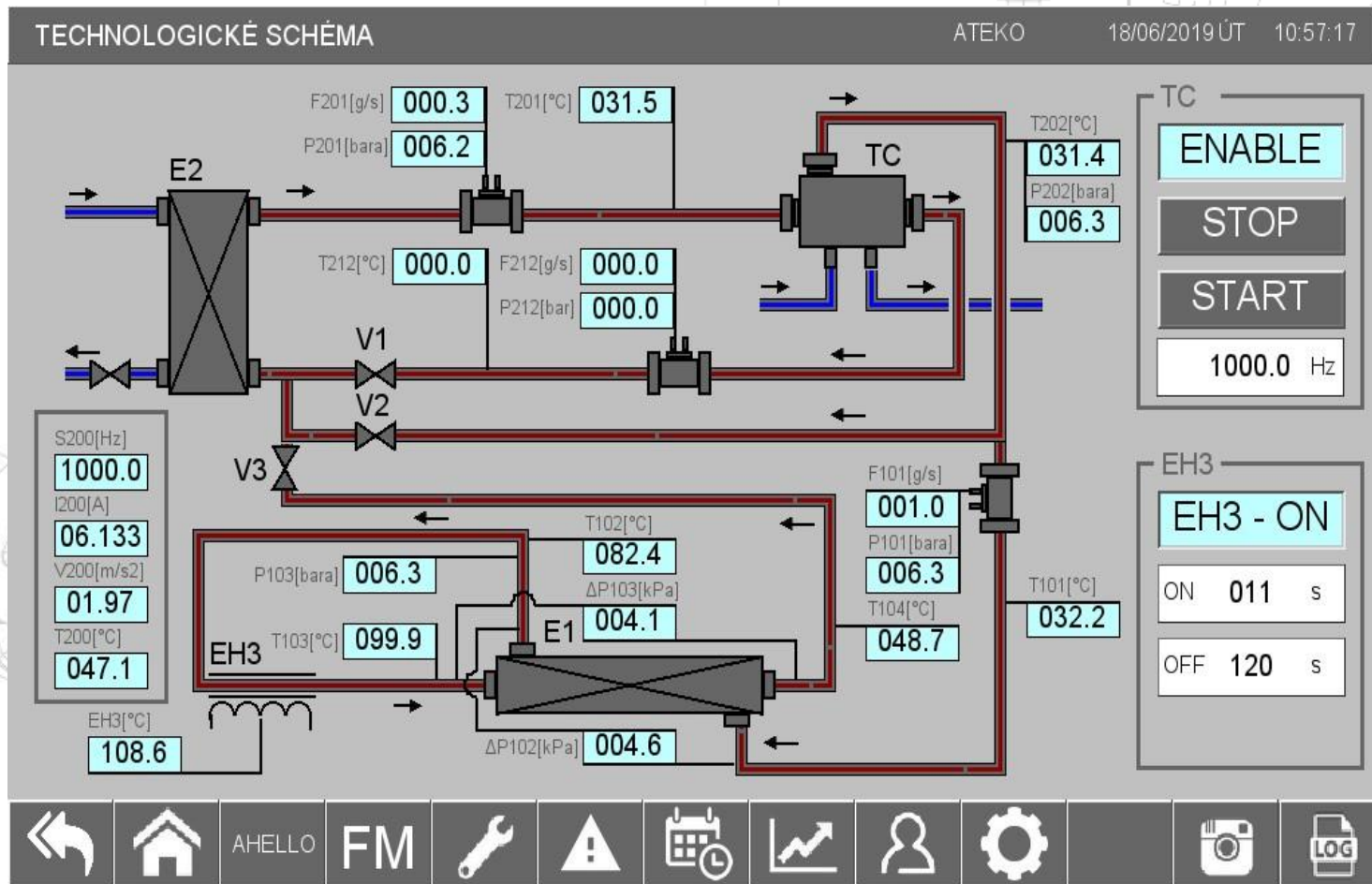
# ATEKO Helium Loop AHELLO 5

## *AHELLO Assembly*



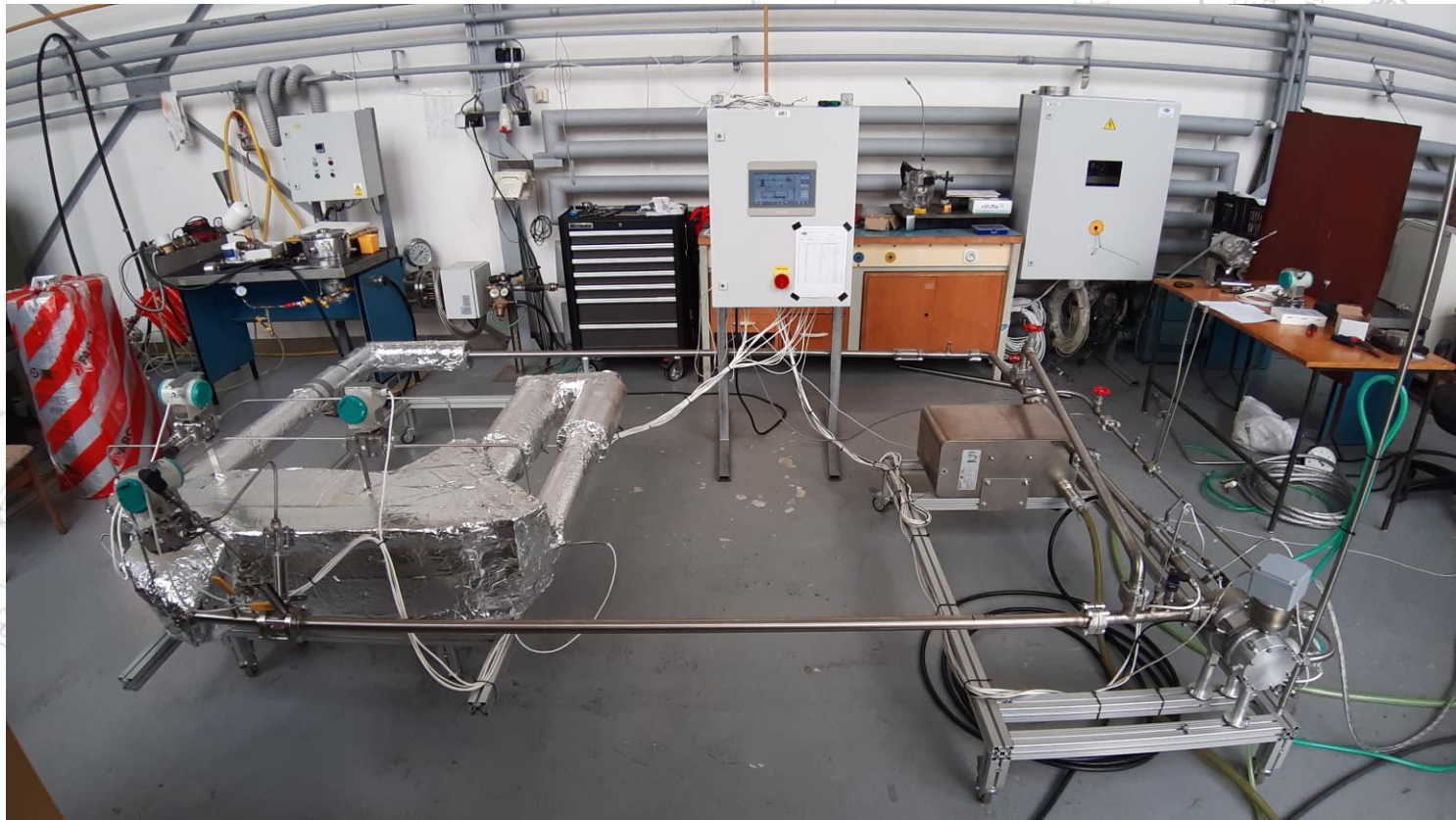
# ATEKO Helium Loop AHELLO 6

## AHELLO Control unit screen



# ATEKO Helium Loop AHELLO 7

## *AHELLO Testing Circuit with Bonded Heat Exchanger*





*Thank you for your attention*

<http://www.ateko.cz>

[ateko@ateko.cz](mailto:ateko@ateko.cz)

