

## **Abstract**

- Name: :** The difference of consumption of a medium being inhaled between a man and a woman at the same level of endurance in scuba diving.
- Goals:** The primary goal of this work, is to determine if and how is the amount of the inhaled medium depending on the gender of the divers. Compare the consumption between men and women while being faced with the same amount of stress, meaning during a united profile of a dive, try to maximize the decrease of the influence of stress factors. Confirm or deny the hypothesis that men show higher values of the inhaled medium.
- Methods:** The theoretical part of this paper, was created based on the research of the appropriate literature. To obtain all the data, there was used the method of experiments, the results were then analyzed, compared and than statistically evaluated using the Students T- test. Probandi (n=10+10) took part in a 30 minute long and 20 meters deep dive in Bořená hora, during which their consumption of the inhaled medium was recorded every 5 seconds using a special underwater computer with a probe.
- Results:** It was found out that men, during the same dive, consume more air than women because of their higher body weight.
- Key words:** scuba diving, air, sex, respirator, minute ventilation