A	- Measure the pressure distribution along both walls for 3 symmetric diffusers of 5°, 10° and 15° cone half-angles. - Create a figure depicting the pressure distribution along the wall! - Determine the diffuser efficiencies! Perform an error calculation for the efficiencies! - Check the inlet and outlet velocity profiles with Pitot static probe measurement! - Create a figure depicting the measured and averaged velocity profiles! Include the average velocities calculated from the volume flow rate measured at the inlet orifice! - Depict the streamlines for the different configurations!
B	- Measure the pressure distribution along both walls for 3 asymmetric diffusers of 5°, 10° and 15° cone half-angles. - Create a figure depicting the pressure distribution along the wall! - Determine the diffuser efficiencies! Perform an error calculation for the efficiencies! - Check the inlet and outlet velocity profiles with Pitot static probe measurement! - Create a figure depicting the measured and averaged velocity profiles! Include the average velocities calculated from the volume flow rate measured at the inlet orifice! - Depict the streamlines for the different configurations!
C	- Measure the pressure distribution along both walls for 2 symmetric and 2 asymmetric diffusers of 5° and 15° cone half-angles. - Create a figure depicting the pressure distribution along the wall! - Determine the diffuser efficiencies! Perform an error calculation for the efficiencies! - Check the inlet and outlet velocity profiles with Pitot static probe measurement! - Create a figure depicting the measured and averaged velocity profiles! Include the average velocities calculated from the volume flow rate measured at the inlet orifice! - Depict the streamlines for the different configurations!
D	- Measure the pressure distribution along both walls for 2 symmetric diffusers of 5° and 15° cone half-angles, and for a symmetric sudden expansion (Borda-Carnot transition) - Create a figure depicting the pressure distribution along the wall! - Determine the diffuser efficiencies! Perform an error calculation for the efficiencies! - For the Borda-Carnot transition compare the efficiency values with theoretical literature data! - Check the inlet and outlet velocity profiles with Pitot static probe measurement! - Create a figure depicting the measured and averaged velocity profiles! Include the average velocities calculated from the volume flow rate measured at the inlet orifice! - Depict the streamlines for the different configurations!

E	- Measure the pressure distribution along both walls for 2 asymmetric diffusers of 5° and 15° cone half-angles, and for an asymmetric sudden expansion (Borda-Carnot transition) - Create a figure depicting the pressure distribution along the wall! - Determine the diffuser efficiencies! Perform an error calculation for the efficiencies! - For the Borda-Carnot transition compare the efficiency values with theoretical literature data! - Check the inlet and outlet velocity profiles with Pitot static probe measurement! - Create a figure depicting the measured and averaged velocity profiles! Include the average velocities calculated from the volume flow rate measured at the inlet orifice! - Depict the streamlines for the different configurations!