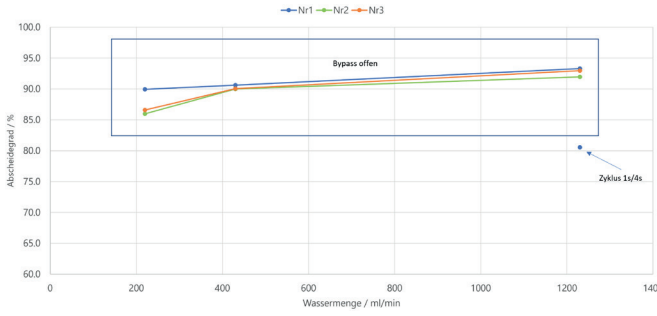




WATER SEPARATOR

SPECIALLY AND UNIQUELY

In order to further increase the efficiency of the fuel cell system, it is possible to obtain additional energy from the exhaust air flow of the fuel cell. This is usually realised with a turbine on the turbo air compressor. In this way, the efficiency of the turbo compressor can be increased by up to 30%. To ensure that the water from the fuel cell exhausted air does not damage the turbine, proper water management is essential. FISCHER Fuel Cell Compressor has developed a specially adapted and uniquely efficient water separator for fuel cell applications. The size is matched to fuel cell systems from 80-150kW with the EMTCT-120k Air compressor. With the unique and patented principle, the service life of the entire compressor system can be significantly increased.



<p>Approximate range of water separation efficiency at different water volumes and air volumes</p>	
<p>Fuel cell power and Compressor</p>	<p>80 to 150kW; Suitable for the EMTCT-120k Air</p>
<p>Dimensions</p>	<p>Length 300mm, pipe diameter 70mm; separator volute diameter 140mm plus collector</p>
<p>Pressure losses</p>	<p>Depending on the operating point up to a maximum of 35-65mbar</p>
<p>Example measurement with part load operation of air and 400ml/min of water volume. Inspection glass with water before and after the water separator.</p>	
<p>Example measurement with partial load operation of air and 50ml/min of water volume. Inspection glass with water before and after the water separator.</p>	

FISCHER reserves the right to change specifications and design without notice. The data change depending on the configuration.