The Copenhagen Opera House
Copenhagen, Denmark

Culture to the people
In August 2000, the A.P. Møller and Chastine Mc-Kinney Møller Foundation donated an opera house to the Danish people. On 16 October 2001, The Opera project by architect Henning Larsen was presented to the public and construction work began shortly after on the island of Holmen in Copenhagen Harbour. The Opera opened with a Royal Command Performance on 15 January 2005.

The Opera totals 41,000 m². The building has more than 1000 rooms including several rehearsal rooms for the opera and ballet and a large orchestral rehearsal room. The main stage of The Opera seats an audience of approx. 1500.

Control of indoor temperature
The indoor climate of the opera house is controlled by a HVAC system that uses sea water from the Öresund as cooling medium. To be able to realize this, the heat exchangers in the HVAC system need to be protected from getting clogged up by dirt or organic growth from the sea water.

Filtering of sea water
It was decided to use three BSG 150 BernoulliFilters for the intake of cooling water to the HVAC system of the opera house. Thereby, the cooling needs are fulfilled so that thousands of people are able to enjoy great cultural experiences in comfortable surroundings.

FACTS AND FIGURES
Customer: Copenhagen Opera House
Location: Copenhagen
Application: Cooling water for HVAC
Filter model: 3 x BSG 150
Filtration: 1,0 mm
Water type: Sea water
Operating flow: 3 x 160 m³/h
Operating pressure: 2 bar g
Δp: 7 kPa
Design pressure: 10 bar g
Serial No: 2075-2077