



INDUSTRY

VENTILATION AND AIR-CONDITIONING TECHNOLOGY





LANDMARK ELBPILHARMONIE



We are involved

In the constantly growing Hafen-City quarter of Hamburg, a prestige symbol of the Hanseatic city is under construction that combines tradition with modernity: The Elbphilharmonie. On the banks of the river Elbe, on the walls of an historic warehouse building, the impressive glass structure rises conspicuously into the sky. Apart from three concert halls, a hotel and exclusive apartments, the plaza will be the centrepiece of the building. At a height of 37 metres, concert goers, hotel guests, local residents and visitors to Hamburg will enjoy a unique panorama.

KNAACK & JAHN GmbH was instructed to equip the building complex with air-conditioning systems in the hotel, residential and large concert hall areas. A particular challenge: The systems must operate silently, so as not to affect the concert going experience or the cosy atmosphere. We will cope with this task by utilizing the expertise gained from 45 years of successful plant engineering.

Hotel services

- Air-conditioning equipment (air flow rate 325,000 m³/h)
- Combustion gas fans (air flow rate 65,000 m³/h)
- Re-heaters and after coolers (total 24 off)
- Fire/smoke extraction dampers, volumetric flow controllers, cold smoke dampers, duct silencers (total 3,470 off)
- Straight ducts, smoke extraction ducts and fittings (total 17,700 m²)

Large concert hall services

- Air-conditioning units for large north and south halls (air flow rate 65,000 m³/h each)

- Combustion gas axial flow fans (air flow rate 1,084,000 m³/h)
- 2,150 floor swirl diffusers 60 m³/h, 20 volumetric flow controllers, 35 duct silencers
- 12,000 m² special duct system as well as 62 special sound silencing curves

Residential services

- System of air-conditioner units (45 off each) plus small air-conditioners
- Combustion gas axial flow fans (2 off)
- Fire/smoke extraction dampers, volumetric flow controllers, cold smoke dampers, duct silencers (total 1,495 off)
- Straight ducts, smoke extraction ducts and fittings (total 1,950 m²)

FIRST STEPS ARE ALWAYS WELCOME

KNAACK & JAHN GmbH
Usedomstraße 16
22047 Hamburg / Germany

Phone +49 (0)40 / 66 98 02-0
Fax +49 (0)40 / 66 98 02-20

www.k-j.de
info@k-j.de

SAID. DONE!