

Where culture meets sustainability: **optimising energy** efficiency in the Palazzo Grassi



palazzo
grassi
FRANÇOIS PINAULT
FOUNDATION

Palazzo Grassi, Venice

The Palazzo Grassi is located in the San Marco district of Venice, bordering the Canal Grande. It is one of Venice's stand-out buildings, created by architect Giorgio Massari in the transitional style between Late Baroque and Classicism.

Efficient and environmentally friendly: with state-of-the art pump technology by KSB

Some of Italy's top museums have become more efficient and environmentally friendly, thanks to KSB. Renovating the Palazzo Grassi in 2016 was a major project. The palace is known as one of Venice's most remarkable buildings. It is characterised by its two large facades, one overlooking the Canal Grande and the other the Campo San Samuele. The palace presents temporary exhibitions of the contemporary art collection of François Pinault, a French entrepreneur and collector who bought the building in 2006.

Analysing the previous energy consumption indicated that the energy efficiency of the museum needed to be optimised. As the building was already fitted with some KRT pumps, the customer was familiar with KSB, so he commissioned the pump and valve specialist with the task of optimising energy efficiency. The project took eight months from its start in July 2015, the products being delivered in November 2015, to its final completion in February 2016.

To meet the specific requirements of the museum, KSB supplied a complete range of pumps and valves for heating, air-conditioning, water and sanitation systems. This comprised 131 shut-off and control valves, 24 swing check valves, 29 strainers, 45 expansion joints and 5 of KSB's Etabloc pumps.

The main criterion was the high efficiency of the pumps driven by KSB Supreme® IE5* motors. All pumps were also fitted with a PumpDrive variable speed system and PumpMeter pump monitoring unit. In addition to installing these new pumps, KSB carried out maintenance of some of the older pumps.

This solution allowed a reduction of energy consumption, obtaining savings of 30 % compared to the old pumping plant.



Highest efficiency ensured: All pumps are fitted with a KSB Supreme® IE5* motor, PumpDrive and PumpMeter.

Further information

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Scope of supply	Technical data
131 BOA Compact NG	DN 32 to 200
24 BOA RVK	DN 32 to 200
45 ECOLINE GE3	DN 40 to 200
29 BOA S	DN 65 to 150
3 KSB Etabloc	Q: 90.00 m ³ /h H: 30.00 m
2 KSB Etabloc	Q: 140.00 m ³ /h H: 30.00 m

* IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (only for 1500 rpm types rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW: IE5 in preparation)



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