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The Vacuum System of ALBA

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ALBA is the Spanish 3GeV, 3rd generation light source to be built near Barcelona. The circumference of the storage ring is 268.8m with 400mA nominal beam current. The storage ring will be divided into 16 vacuum sections by gate valves. The vacuum chamber will be made of stainless steel with electron beam vertical aperture of 28mm and 72mm width with a slot of 10mm height to connect the vacuum chamber to the antechamber where crotch absorbers will absorb the unwanted synchrotron radiation. The pumping will be by lumped ion pumps with an overall pumping speed of 6.104 l/s, this will maintain an average dynamic pressure of $1.10 \cdot 10^{-9}$ mbar to achieve a beam lifetime of 10 hours at the designed current. No in-situ bakeout is foreseen for the vacuum vessels.

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