Automatic Multi-Pactoring Conditioning of the Super Conducting Resonators in the ALPI Linac, G. BASSATO, L. BOSCAGLI, S. CANELLA, D. CARLUCCI, F. CHIURLOTTO, S. GUSTAFSSON, A.M. PORCELLATO, INFN-LNL - In the multi-pactoring conditioning process of super-conducting resonators the RF power is absorbed by resonant electrons which keep the accelerating field limited at very low levels. In the ALPI Linac 57 superconducting cavities are now installed and the problem of multi-pactoring conditioning is solved feeding the still normal-conducting resonators with RF power by the RF amplifiers used for normal operation (100 W) while the cryostat shields are kept "cold" (50-70 K). This procedure is efficient and lasts only some hours (2-6) if resonators are kept in each multi-pactoring level as long as the resonant electron loading has vanished. In order to reduce the manpower necessary to perform this time-consuming preliminary operation some computer-driven automatic procedures have been recently added to ALPI RF control system. The first results of this automation effort have been encouraging and the automatic conditioning system is here described.