

PROCESS AND DEVICE FOR THE PRODUCTION OF ULTRA-
PURE INERT GAS

A B S T R A C T

The invention relates to a device and to a process for preparing a high-purity inert gas from air, comprising the successive steps of:

- a) cryogenically distilling compressed air,
- b) recovering an impure inert fluid containing hydrogen impurities (H_2) and residual impurities,
- c) adsorbing at least some of the residual impurities contained in the said impure inert fluid by means of at least one bed of at least one adsorbent,
- d) recovering an intermediate inert fluid containing hydrogen impurities,
- e) removing the hydrogen impurities contained in the said intermediate inert fluid by permeation,
- f) recovering a high-purity inert fluid in the gas state.

Figure 2.