Fig. 4.3a,b. Water potential of vacuolated cells in a hypertonic medium (**a**) and of vacuolated cells drying in air (**b**). As water loss proceeds the osmotic potential Ψ_π becomes more negative and the pressure potential Ψ_P drops from positive values to zero; the water potential of a cell equals the summation of Ψ_π and Ψ_P. (Schematic representation, after Höfler 1920; Barrs 1968; Kyriakopoulous and Larcher 1975; Pospišilová 1975). For specific parameters of mosses and lichens, see Proctor et al. (1998), for desiccation-tolerant bryophytes, see Proctor (2000)