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Acceptance specification and performance tests for liquid ring vacuum pumps

PNEUROP correction factors

K1 = Ng / Nt

K2 = [(Pin - PVPeff) / (Pin - PVPtest)] / [(T ring test + 273) / [(T ring eff + 273)]

K3 = (T air eff +273) / (T air test + 273)

K1: the suction capacity is proportional to the rotating speed,
Ng = contractual rpm ; Nt = rpm in the test

K2: reflects the effect of the temperature (Tring) of the liquid ring. PVP is the partial vapour pressure of the ring liquid.

K3: reflects the effect of the temperature of dry air at the inlet