









Facts influencing the draught:	sitting person 1 olf Smoker 25 olf
- 1 temperature conditions - 2 wind conditions	Physical activities 4-20 olf materials in office 0.5 olf/m <sup>2</sup> floo
- <b>3</b> material of the vent stack - <b>4</b> cross section of the vent stack	Pollutions [olf]
- 5 temperature of the stack surface Solutions is correct if: - 1) the incoming air is clean, dust free and odourless	
(quality of air by DIN.: <b>new units</b> : - <b>olf</b> → 1olf – odour pollution emission from 1 person	In mountains 0,01 decipol Town 0,2-0,8 Smog 1 Quality of fresh air
- felt quality of the air is the decipol $\rightarrow$ 1 decipol is the pollution, caused by 1 olf (1 person) strong emission at a 36 $m^3/hour$ ventilation	
- 2) the fresh air must reach every part of the room	
- 3) stale air must leave the room on the shortest way	
<ul> <li>- 4) air stream must not cause harmful draught</li> </ul>	
Calculation of the air amount (artificial):	
V = 10 x G / ci - ce [l/s], <b>A= V</b> / <b>3600 x v</b> G - total pollution [ olf ]	
ci – required air quality [decipol]	Suggested air speed in a room
ce – fresh air quality [decipol]	<u>0,1-0,2 m/s</u>
A - vent cross section [m <sup>2</sup> ],	
v = air speed [m/sec]	



































