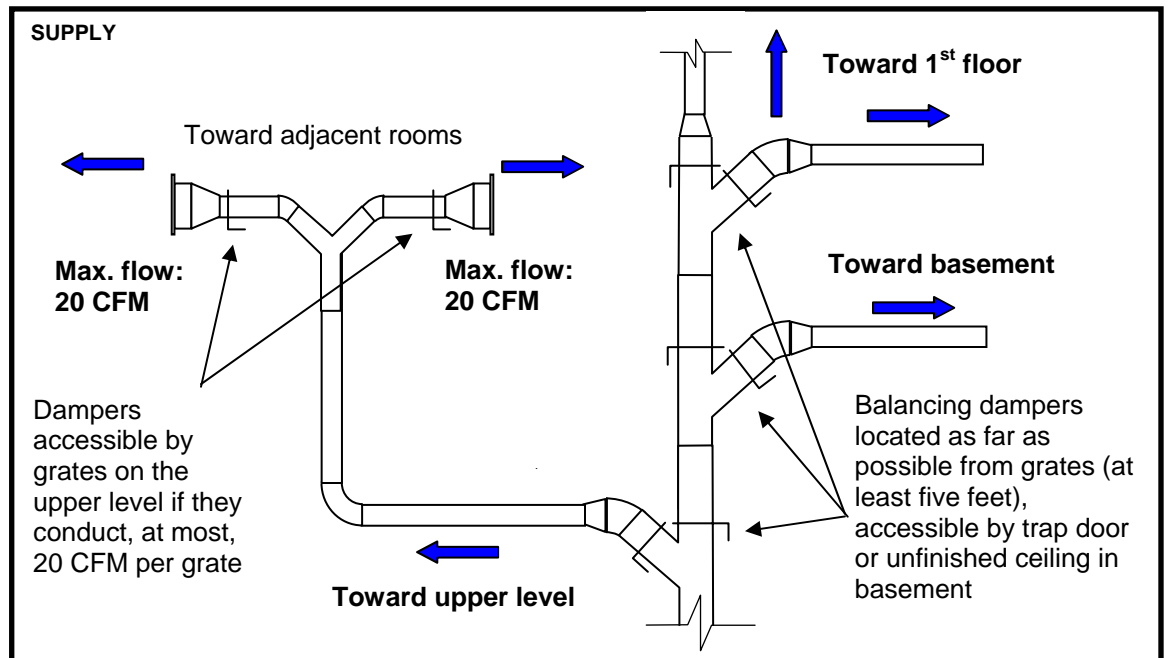


## Explanatory Notes for Ventilation-System Design in the Novoclimat Program

### Supply:

- 1) All ducts for the **basement** must have their balancing damper located as far as possible from the grate (at least **five feet**) and be accessible at all times through the unfinished ceiling or a trap door;
- 2) All ducts for the **ground floor** must have their balancing damper located as far as possible from the grate (at least **five feet**) and be accessible at all times through an unfinished ceiling in the basement or a trap door;
- 3) All ducts for the **upper floor** must have their balancing damper accessible by the grate if they conduct a maximum flow of 20 CFM for this grate. If not, their damper must be located as far as possible from the grate (at least **five feet**) and be accessible through an unfinished ceiling in the basement or a trap door.



### Exhaust:

The balancing damper for all exhaust ducts must be permanently accessible through a trap door or through an unfinished ceiling in the basement;

### Duct dimensions:

(Sup. and Exh.)

Round Duct	Rectangular Duct	Suggested Flow (CFM)	Maximum Flow (CFM)
4 in.	2¼ in. or 3¼ in. X 10 in.	11 to 35	40
5 in.	2¼ in. or 3¼ in. X 10 in.	36 to 55	65
6 in.	3¼ in. or 4 in. X 10 in.	56 to 100	110

### Objectives:

The objectives of the ventilation-system design are the following:

- a) Each balancing damper must be accessible at all times and locked;
- b) There must be no disruptive noises caused by the installation configuration;
- c) The system must be balanced and minimum airflows respected.

These explanatory notes are general guidelines only. In some cases, they may not be sufficient to reach the objectives. The technical requirements for ventilation in the Novoclimat program and best practices are the main references for determining whether an installation is in compliance.