

FIGURES TO SUPPLEMENTARY GUIDELINES ON GOOD MANUFACTURING PRACTICES FOR HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEMS FOR NON-STERILE DOSAGE FORMS

APPENDIX TO MAIN GUIDELINES

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Please send any request for permission to:

Dr Sabine Kopp, Quality Assurance & Safety: Medicines (QSM), Department of Medicines Policy and Standards (PSM), World Health Organization, CH-1211 Geneva 27, Switzerland.

Fax: (41-22) 791 4730; e-mails: kopps@who.int; bonnyw@who.int

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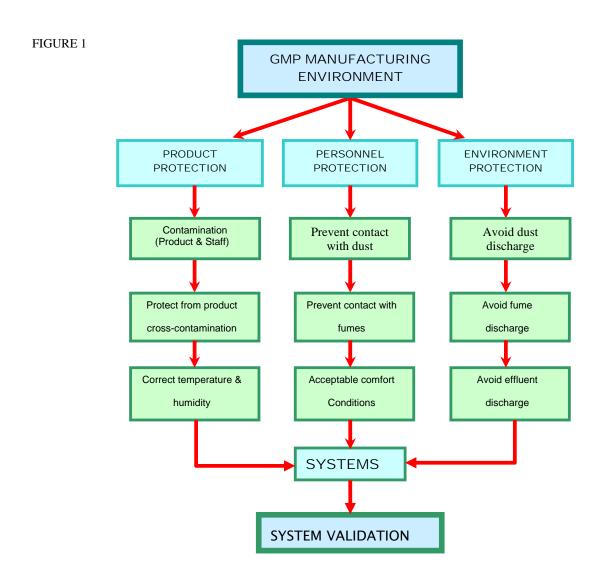
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APPENDIX

Figures referred to in the main body of the document, with the reference "See Appendix", are reproduced in chronological order below



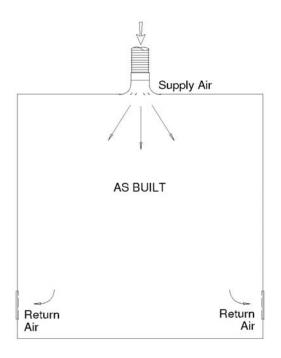


Figure 2

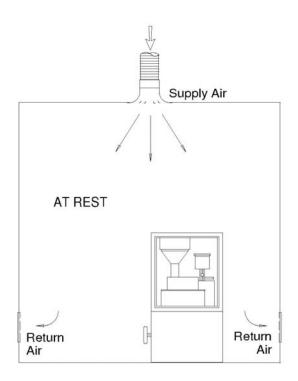


FIGURE 3

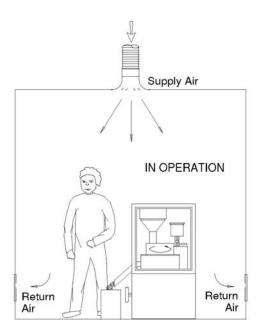


FIGURE 4

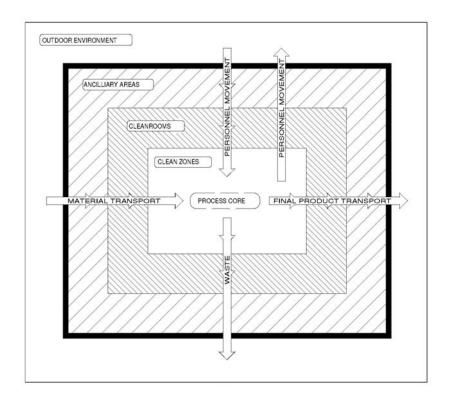


FIGURE 5

[Note from WHO Secretariat: in figure "clean rooms" will be changed "to "clean areas" in editing process]

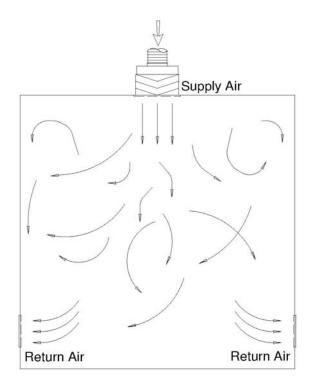


FIGURE 6

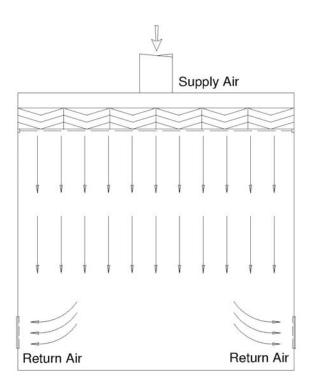


FIGURE 7

Eurovent 4/4 (10-14)

Figure 8 below gives a rough comparison between the different filter standards. [Filter classes should always be connected to the standard test method.]

APPROXIMATION OF EQUIVALENT FILTER STANDARDS **EU Class** % EN 779 & (Integral EN 1822 Value) 99,99995 U16 EN 1822 99,9995 U15 14 99,995 U14 13 99,95 H13 12 99,5 H12 11 % (Average) 95 10 H11 9 85 F9/H10 8 90 75 F8 85 F7 7 80 75 70 6 F6 65 60 55 5 50 F5 45 40 (Average) 35 4 95 30 G4 90 25 3 85 20 G3 80 75 2 70 G2 65 G1 MPPS, DEHS CEN/TC/195 WG1-G1-F9 Eurovent Class -**Dust Spot** Arrestance Eurovent 4/5 (2-9) Eurovent 4/9 (2-9) Efficiency ASHRAE 52/76 Aerosol EN1822 % WG2-H10-16

Fig. 8 Comparison of filter test standards

BS6540 Part 1 (1985)

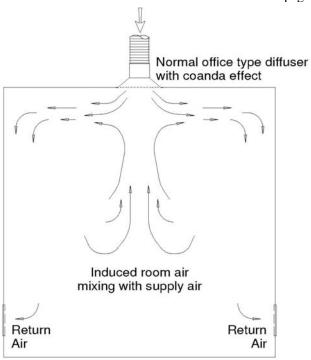


FIGURE 9

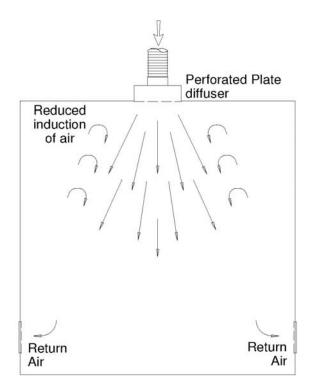


FIGURE 10

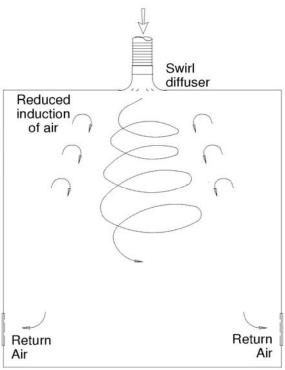


FIGURE 11

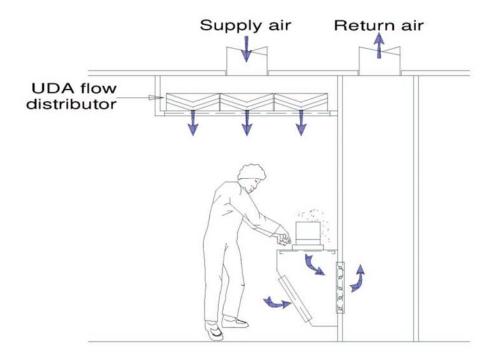
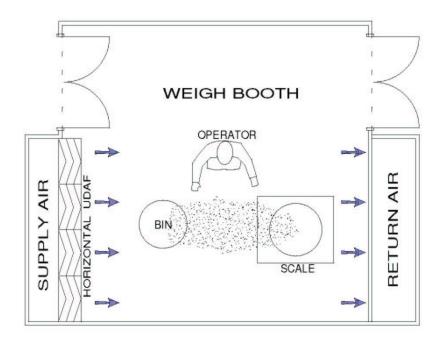


FIGURE 12



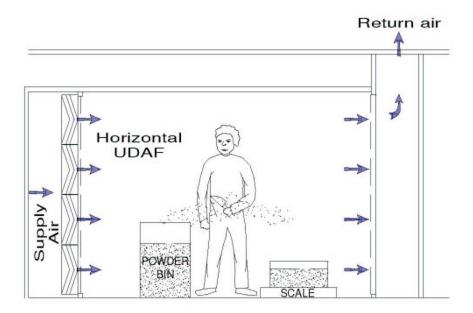


FIGURE 13

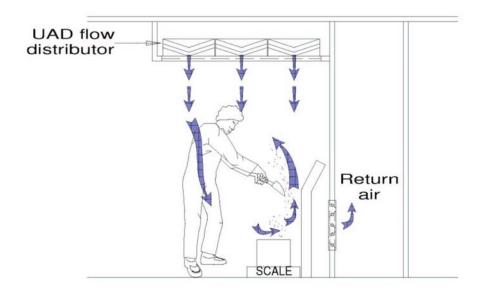
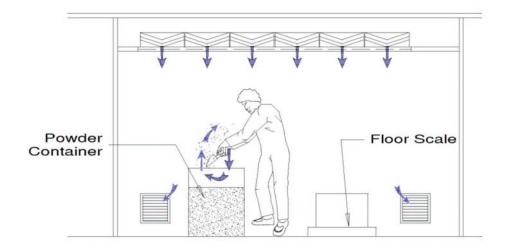


FIGURE 14



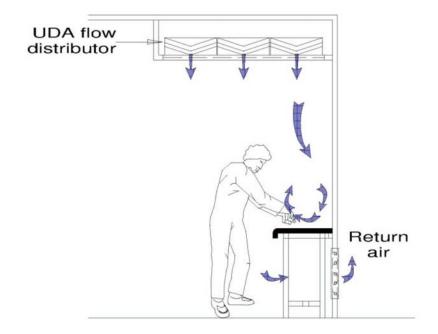


FIGURE 16

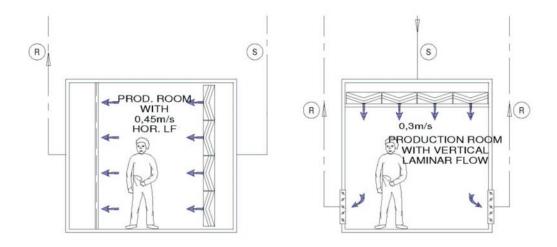
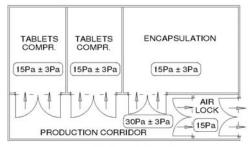
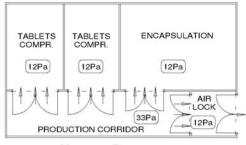
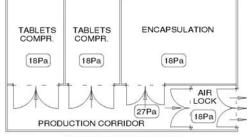


FIGURE 17



DESIGN CONDITION





MAXIMUM DIFFERENTIAL

MINIMUM DIFFERENTIAL

FIGURE 18

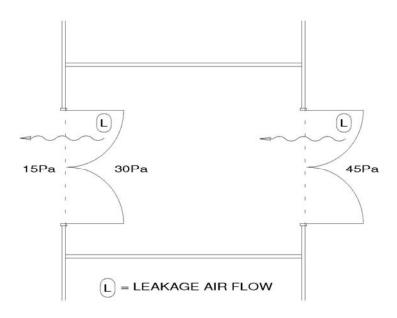


FIGURE 19

[Note from WHO Secretariat: will change figures to> 5 Pa, 15 Pa and 30 Pa to replace by 15, 30 and 45 Pa in editing process]

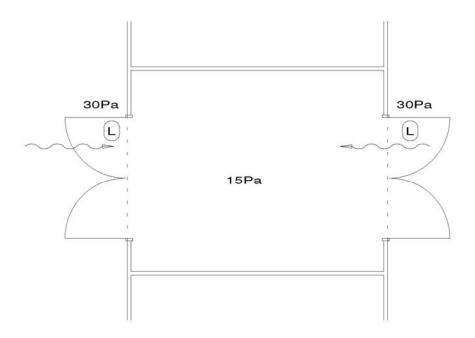


FIGURE 20

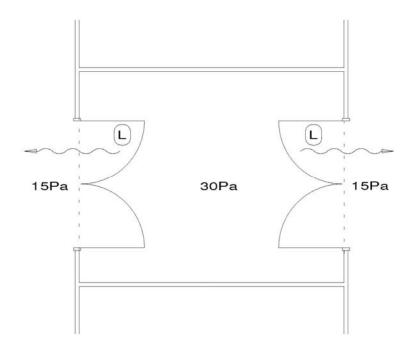


FIGURE 21

FIGURE 22



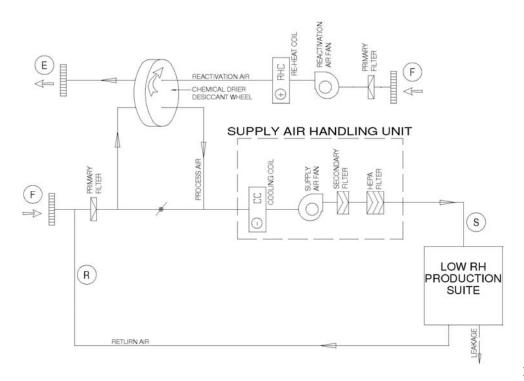


FIGURE 23

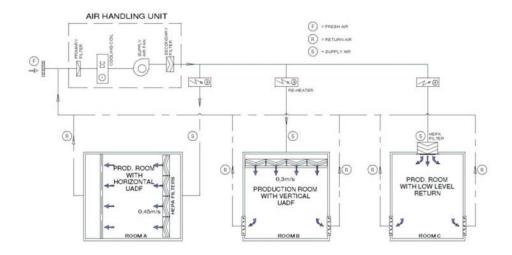


FIGURE 24

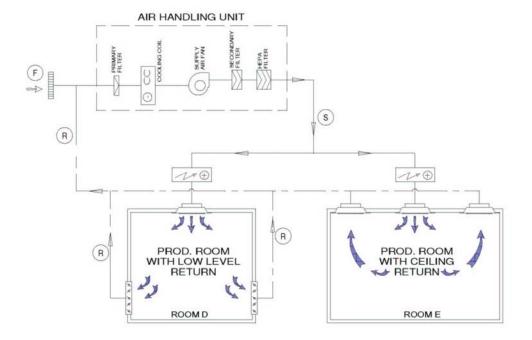
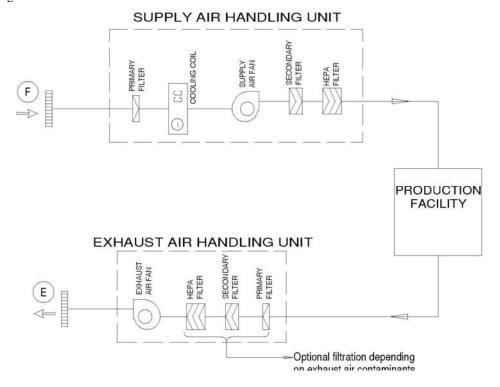


FIGURE 25





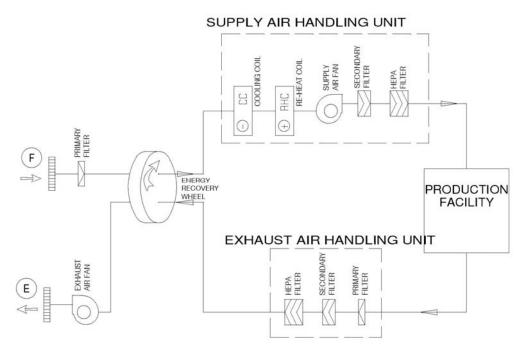
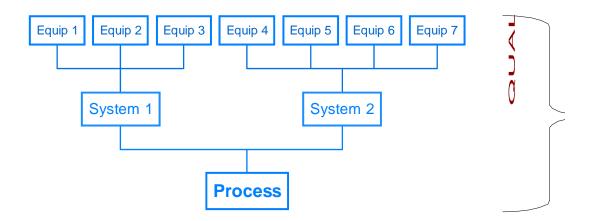


FIGURE 27

FIGURE 28



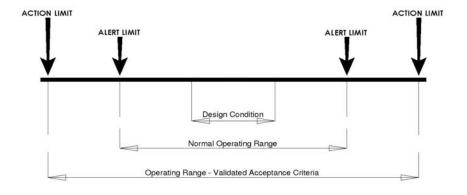


FIGURE 29