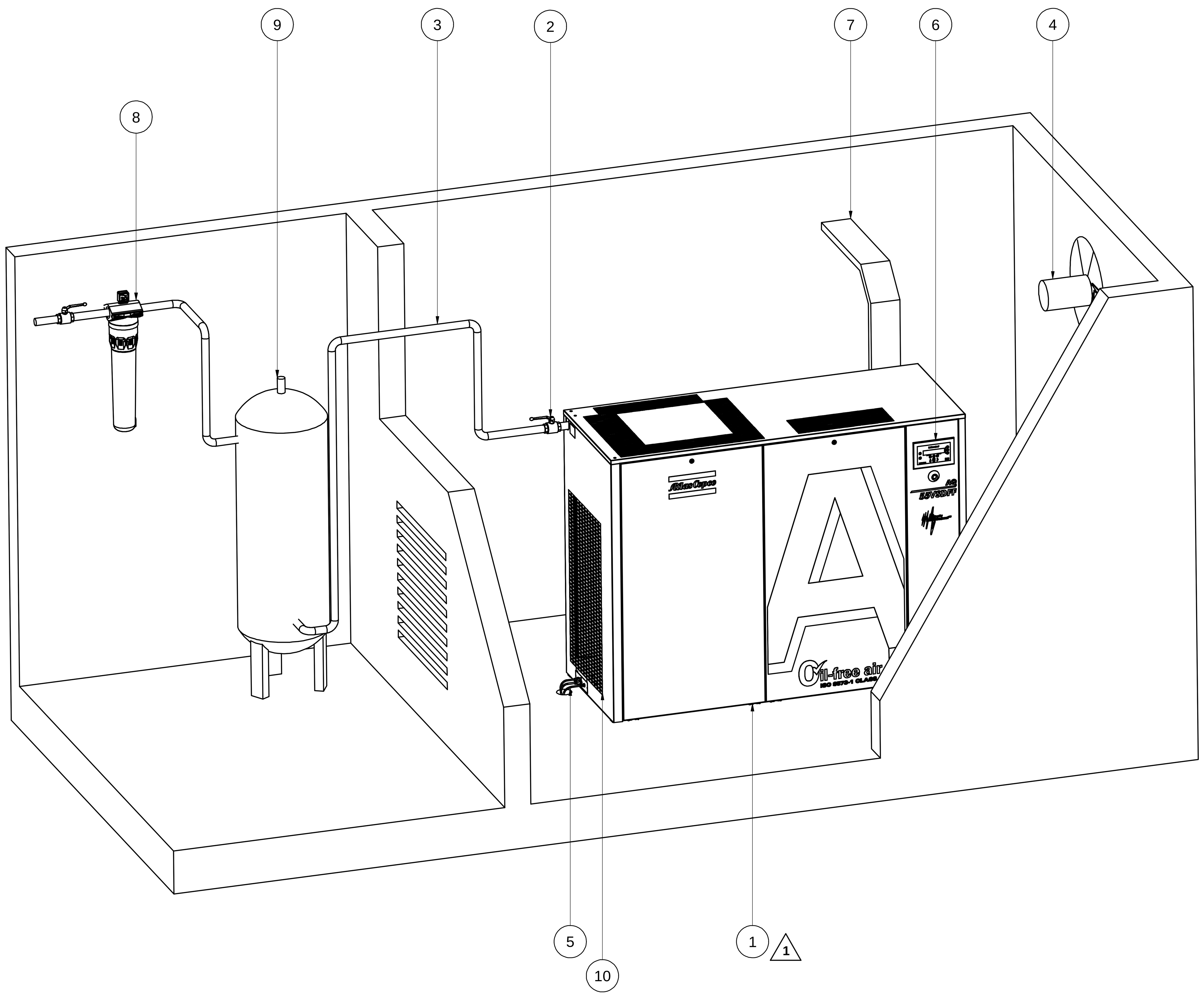
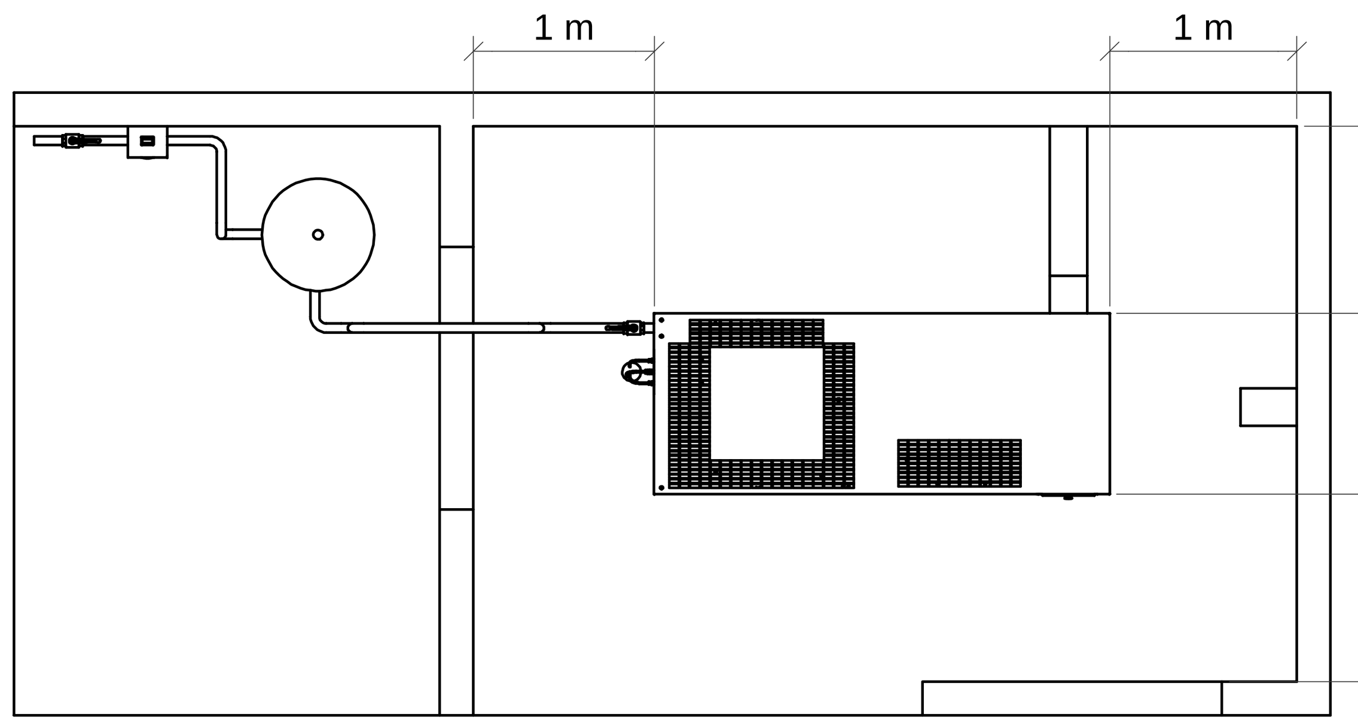


MAIN COMPONENTS

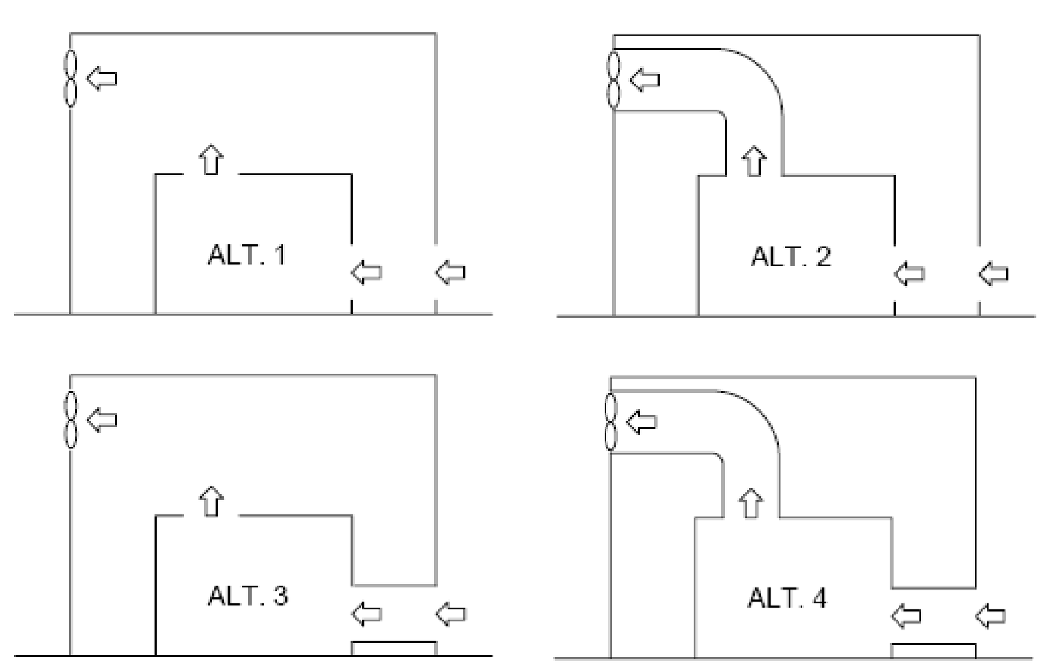
1. Install the compressor in a frost-free room on a level floor capable of taking the weight of the compressor.
2. Compressed air outlet valve.
3. Delivery pipe :
   The max . total pipe length can be calculated from $L = \dfrac{\Delta P \times d^{5} \times P}{450 \times Qc^{1.85}}$
   - L is the length of the pipe (m)
   - ΔP is the max. allowable pressure drop (recommended 0.1 bar)
   - d is the inner diameter of the pipe (mm)
   - P is the absolute pressure at compressor outlet (bar)
   - Qc is the compressor FAD (l/s)
4. Ventillation : The inlet grid(s) and ventillation fan should be inastalled in such a way that any recirculation of cooling air to the compressor is avoided.the air velocity to the grid(s) has to be limited to 5m/s. The maximum air temperature at compressor intake opening is 40˚ C, min 0˚ C. The required cooling air flow to limit compressor room temperature can be calculated from : $Qv = 0.13\ N / \Delta T$
   - Qv is the required cooling air flow (m^3/s)
   - N is nominal motor power of the compressor (kW)
   - ΔT is the compressor room temperature over the outdoor room temperature. (˚ C)

   When the comprtessor is provided with dryer (Full Feature), the required cooling air flow is ;
   $$Qv = \frac{(0.13N + 8)}{\Delta T}$$
5. Drain pipes to condensate collector. The drain pipes may not enter the collector.
6. Control cubicle with monitoring panel.
7. Power supply cable to be sized and installed by a qualified electrician. In case of IT network, consult Atlas Copco.
8. Filter type DD for general purpose filtration (particle removal down to 1 micron with a maximum oil carry over of 0.5 ppm). As an option this filter can be integrated in the compressor.
   A high efficiency PD filter may be may be installed downstream the DD filter (particle removal down to 0.01 micron and max. oil carry over of 0.01ppm)
   Should oil vapours and odeurs be undesirable, a QD active carbon filter should be installed after the PD filter.
   It is recommended to install by-pass pipes over each filter together with ball valves in order to isolate the filters during service operations, without interrupting the compressed air delivery.
9. Safety valve.
10. Cooling air grating aircooler.

Minimum free area to be reserved
for the compressor installation.



Ventilation proposals



Notes :
- All pipes should be installed stress free to the compressor unit.
- For more information concerning air nets, cooling systems, etc refer to the compressor installation manual.
- For dimensions and air flow directions refer to the AHB dimension drawings.

Ed	Posi-tion	Gewijzigd van / Modified from	Datum / Date	Ingev./Goedg. / Intr./Appd.
01		9820 4943 00 modified	2008-03-27	

9820497200	01.03
Parent 3D model	Ed . Version 3D

Toleranties, indien niet aangegeven, zijn volgens:
Tolerances, if not indicated, according to:
ATLAS COPCO STANDARD /Klasse/CLASS

Benaming / Name	INSTR. ASSEMBLY	AQ-AIRCOOLED	Geheimh.klasse / Secrecy Class: 1102 K / 3
Materiaal / Material	SEE DRAWING		
Behandeling / Treatment			INV
Schaal / Scale	Familie / Family	A1	Vergelijk / Compare
Getekend / Drawn by: AIR19389	Ruw nr. / Blank nr.		Vervangt / Replaces
Version Drwg: 01.03	Ruw gew. / Blank wt.: 0 Kg	Afg gew. / Fini wt.: 14975.990 Kg	Identificatie/Designation; Blad/Sheet 01 / 01
Des gez./chd.	Prod gez/chd.	Goedg./Appd.; Datum/Date: 2006-10-05	9820497200

Atlas Copco
STATUS: Approved
Eigenaar / Drawing owner: All