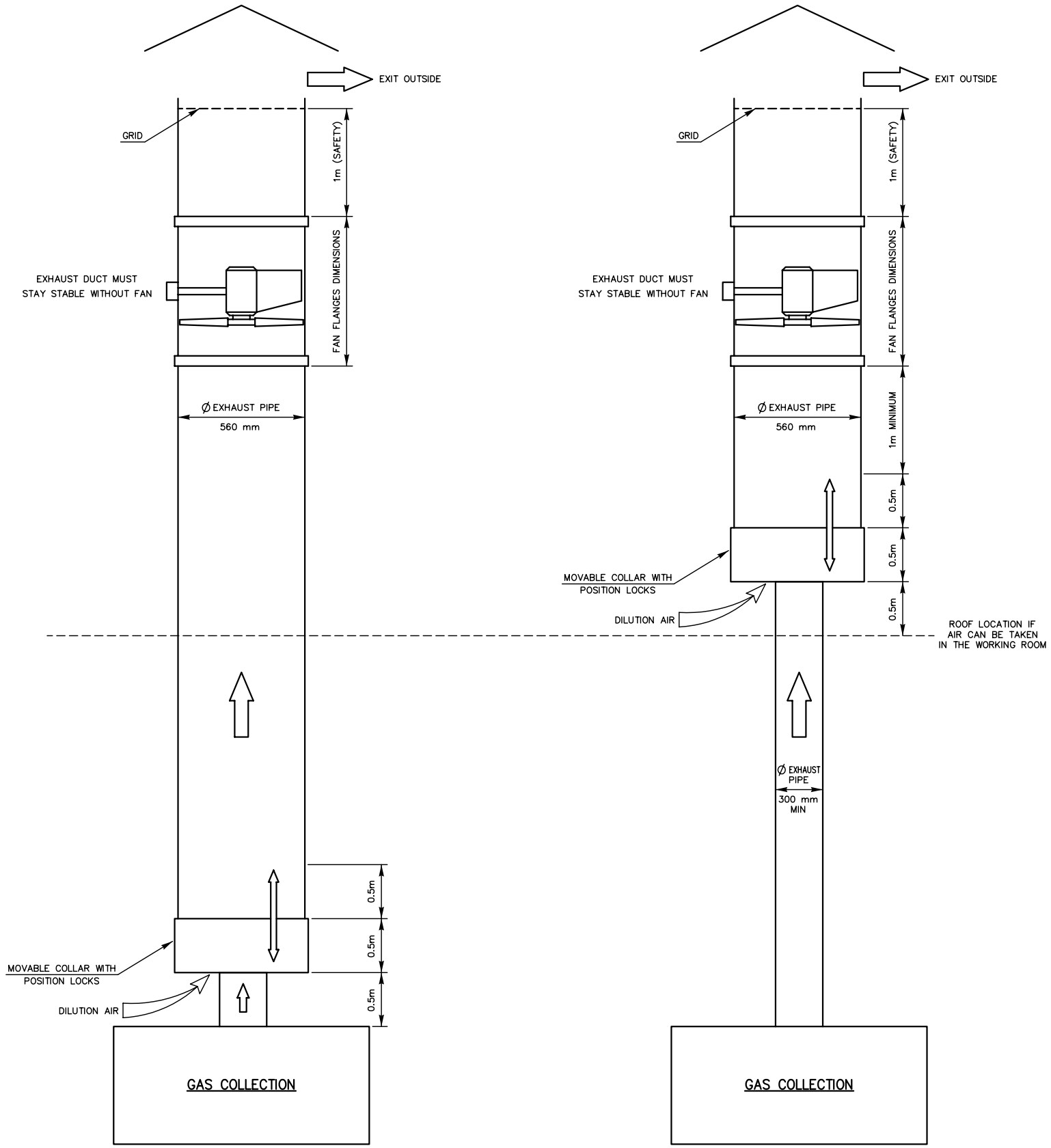


AXIAL IF DILUTION
POSSIBLE IN THE WORKING ROOM




AXIAL IF DILUTION
IMPOSSIBLE IN THE WORKING ROOM

| General recommandations: |
|---|
| 1 exhaust system per material of application.<br>The standard equipment shall not have been modified<br>Air renewal must be sufficient in order that the exhaust is good working<br>The exhaust must end in an open area outside, and far away from other possible entrance of fresh air.<br>Collect the gas properly at the equipment outlet. Avoid draughts to avoid diffusion of gas in the working room.<br>Dilute as close as possible from the equipment<br>Dilute with the warmest air possible.<br>A grid with a mesh diameter of 50mm minimum shall be installed to avoid animals and dirt entering the exhaust |
| Pipe axes and fan axe must be aligned<br>Gas speed must not exceed 15m/s : diameter should be larger than 300mm.<br>Do not use piece of flexible-pipes as exhaust pipes<br>Do not install any devices in the cold ductwork<br>Do not use thin flexible sheaths to connect the fan and the exhaust pipe<br>Do always use smooth material of pipe instead of spiraled one<br>Galvanised steel or PVC or Stainless steel shall be used<br>Stainless steel ductwork is to be used if there is a specific customer request |
| Plan holes made in pipes at each low point in the ductwork for internal condensate collection<br>Fixed flange around hoods must be forecast<br>Drain off properly the condensate with a waste water pipe<br>Trap doors shall be installed along the exhaust pipe with an easy access.<br>Trap doors installed on the fan casing must remain closed while exhaust fan is working.<br>Hygiene procedures shall be carried out while the fan is not working and LIN or LCO2 supply is closed. |
| A Oxygen / CO2 detection in accordance with the documentation **'RTS F02-01'** and local regulations<br>must be installed in the operator working zone.<br>The exhaust system is maintenance free |
| **Design :** |
| Calculate the flow to be extracted from the equipment with the help of the document '**E-CRYO-04-EN-DS-503 Design tool**'<br>Draw the pipe characteristics with the help of the document '**E-CRYO-04-EN-DS-503 Design tool**' |

A Oxygen / CO2 detection in accordance with the documentation **'RTS F02-01'** and local regulations must be installed in the operator working zone.
The exhaust system is maintenance free

| REV *REV* | DATE *DATE* | DESSINE PAR *DRAWN BY* | MODIFICATIONS *REVISIONS* | VERIFIE PAR *CHECKED BY* | APPROUVE PAR *APPROVED BY* |
|---|---|---|---|---|---|
| 0 | 07/11/04 | TVA/ALH | FIRST ISSUE | – | – |

AFFAIRE / *JOB*
STANDARD CRYOGENIC INSTALLATION

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ENSEMBLE / *PART*
EXHAUST SYSTEM

TITRE / *TITLE*
AXIAL CONFIGURATION PROPOSITION

AIR LIQUIDE
**ALTEC EUROPE**
**Equipment & Engineering**

| ECHELLE *SCALE* | N° D'AFFAIRE *JOB NUMBER* | FMT TYP GROUPE N° *FMT TYP GROUP NBR* | |
|---|---|---|---|
| – | – | E_CRYO-04-EN-DRW-502 | 0 |

CAD SOURCE : E_CRYO-04-EN-DRW-502.DWG