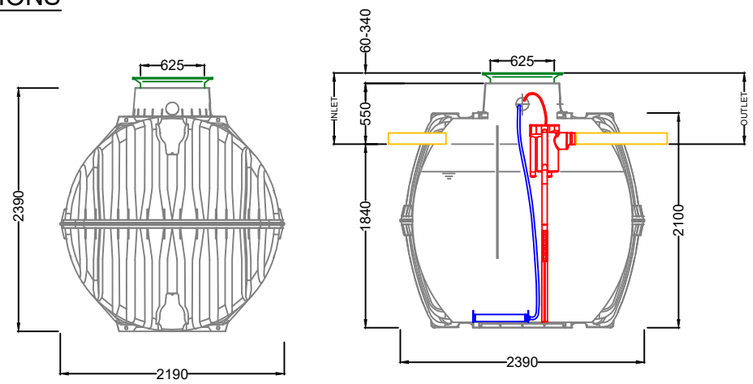
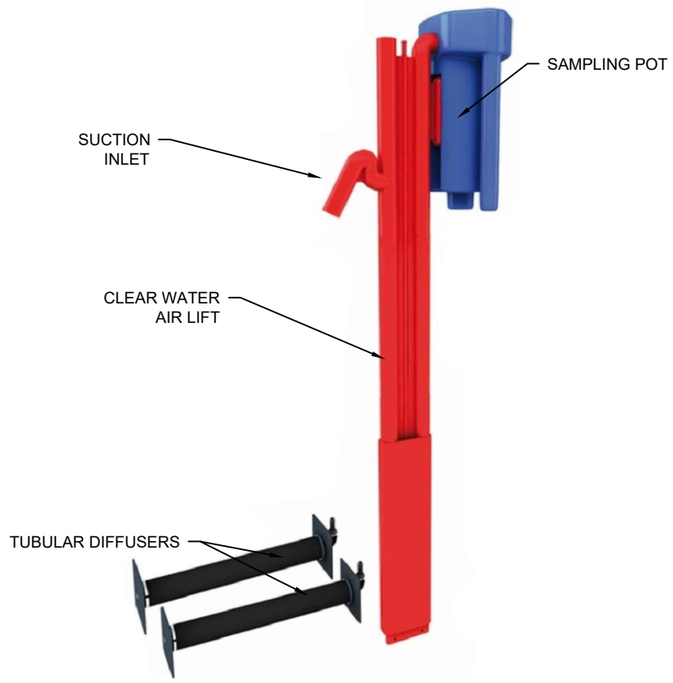
## TANK DIMENSIONS




| TANK DIMENSIONS | |
|---|---|
| LENGTH | 2390mm |
| WIDTH | 2190mm |
| HEIGHT* | 2100mm |
| LID | 60-340mm |
| INLET | 550mm + Lid |
| OUTLET | 550mm + Lid |

*WITHOUT DOME OR LID

## PIPE SCHEMATIC




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## GRAF 9PE ONE2CLEANXTRA SPECIFICATION



Supply Information:

- *Pedestrian Loading lid (Mini) is part of the standard supply, all other lids are supplied upon request or unless otherwise specified.*
- *Tank Dome (Mini) is part of the standard supply,all other domes are supplied upon request or unless otherwise specified.*
- *If opting for an Internal Pump System (IPS), the system must be supplied with a Tank Dome (Maxi) and a Raised Outlet (RO).*
- *Raised Outlet (RO) upgrade available upon request, please contact GRAF UK for more information.*
- *If opting for an Extension sleeve (1m), the sleeve can be cut into smaller sizes of 750mm or 500mm of working height.*

## ONE2CLEANXTRA PACKAGE ADD ONS

(SEE PAGE 2 FOR CONTROL PANEL INFORMATION)

+B BUFFER
+C CARBON DOSING
+O PUMPED OUTLET
+H HYGIENE
+R REMOTE MONITORING
+D DENITRIFICATION
+P PHOSPHATE REMOVAL



INTERNAL PUMP SYSTEM (IPS)
*ONLY SUPPLIED WITH MAXI DOME AND RO*



COOLING FAN



WARNING LAMP



DOSING PUMP

## Tank Accessories

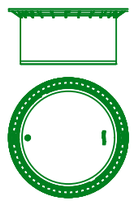
| Item | Diameter ø | Min. Height (mm) | Max. Height (mm) | Max. Loading (kg)* |
|---|---|---|---|---|
| Pedestrian Loading Lid (Mini) | ø 600mm | 60mm | 340mm | 150kg |
| Pedestrian Loading Lid (Maxi) | ø 600mm | 60mm | 440mm | 150kg |
| Vehicle Loading Lid | ø 625mm | 60mm | 440mm | 3,500kg |
| Extension Sleeve (1m) | ø 670mm | 500mm | 1,000mm | |
| Extension Sleeve | ø 680mm | 250mm | | |
| Tank Dome (Maxi) | ø 650mm | 610mm | | |
| Tank Dome (Mini) | ø 650mm | 285mm | | |
| Tank Dome (Micro) | ø 650mm | 90mm | | |

* Loading up to 12,000kg achievable (suitable cover to be provided by others)
** Tank Dome (Maxi) available with DN100 or DN150 connections

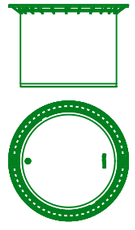
Desludging Pipe



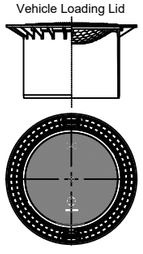
Pedestrian Loading Lid (Mini)
*Supplied as standard*



Pedestrian Loading Lid (Maxi)



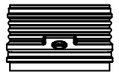
Vehicle Loading Lid



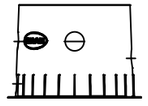
Extension Sleeve (1m)



Extension Sleeve



Tank Dome (Maxi)



Tank Dome (Mini)
*Supplied as standard*



NOTE:- Tank accessory suitability may vary depending on project. Please contact Graf UK for sizing and support.

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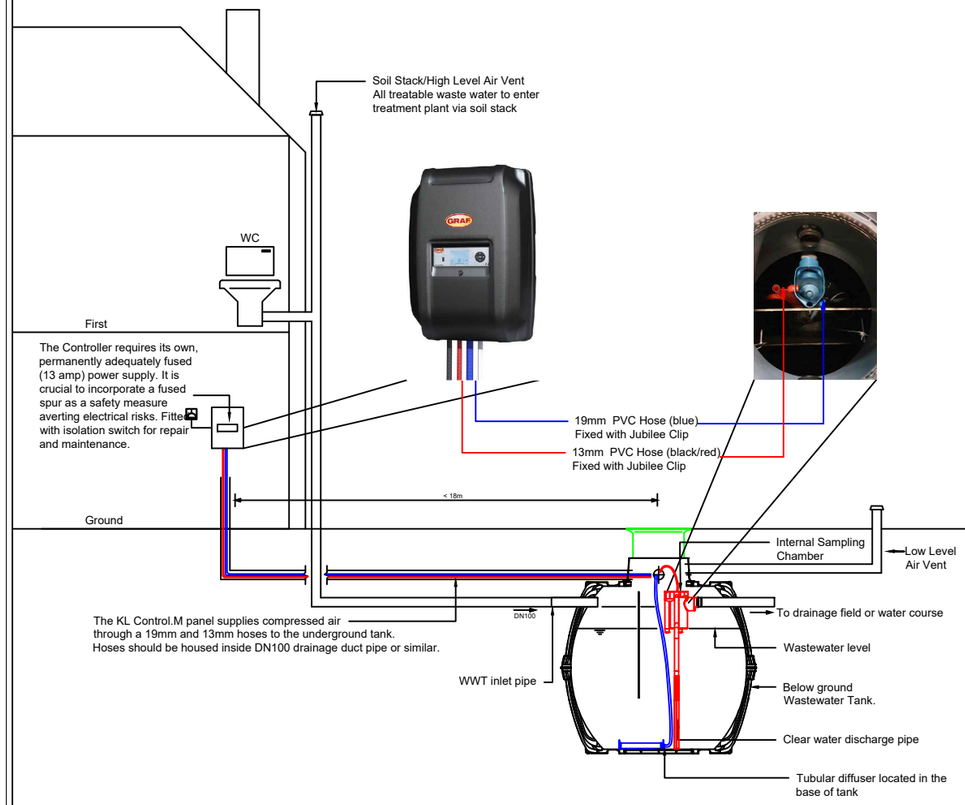
PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
GRAF 9PE ONE2CLEANXTRA 6,500L CARAT S

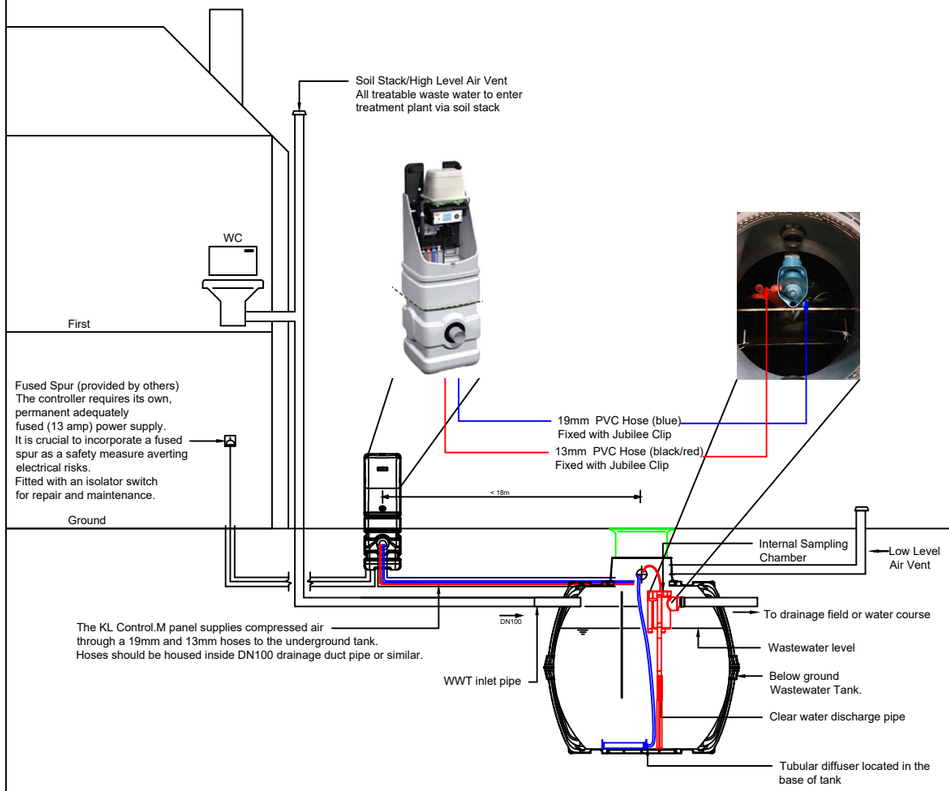
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# 9PE ONE2CLEANXTRA WITH INTERNAL CABINET




# 9PE ONE2CLEANXTRA WITH EXTERNAL CABINET




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## GRAF 9PE ONE2CLEANXTRA SPECIFICATION



## CABINETS

INTERNAL PP CABINET FOR KL CONTROL.M PANEL



EXTERNAL PLASTIC CABINET M



## COMPRESSOR

HIBLOW HP 120 COMPRESSOR




## CONTROL PANEL

KL CONTROL M




## SYSTEM HOSES

**PLEASE NOTE THAT HOSE COLOURS MAY VARY*



13MM DISCHARGING AIR LIFT

19MM AERATION

NOTE:- Tank accessory suitability may vary depending on project. Please contact Graf UK for sizing and support.

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PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

GRAF 9PE ONE2CLEANXTRA 6,500L CARAT S

DRAWING No. 9PE ONE2CLEANXTRA STANDARD DETAIL

REV. P0

# TRENCH DETAILS

FOR SUFFICIENT WORKING ROOM, THE BASE AREA OF THE TRENCH MUST EXCEED THE DIMENSIONS OF THE TANK BY 500mm ON ALL SIDES.

MINIMUM DISTANCE FROM SOLID STRUCTURES TO BE 1000mm.

THE TRENCH EMBANKMENT MUST BE DESIGNED SO SLIPPAGE OR COLLAPSE OF THE EMBANKMENT WALL IS NOT TO BE ANTICIPATED.

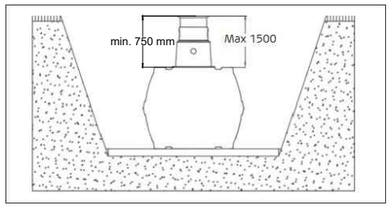
THE CONSTRUCTION SITE MUST BE HORIZONTAL AND PLANE AND MUST GUARANTEE SUFFICIENT LOAD-BEARING CAPACITY.

THE DEPTH OF THE TRENCH MUST BE DIMENSIONED SO THAT THE MAXIMUM COVER ABOVE THE TANK IS NOT EXCEEDED (SEE BELOW DETAILS).

THE TANK AND ANY OTHER COMPONENTS THAT CARRY WATER MUST BE INSTALLED IN A FROST-FREE AREA. THE FROST-FREE DEPTH IS USUALLY APPROX. 600mm-800mm. EXACT DEPTHS CAN BE OBTAINED FROM THE RESPONSIBLY AUTHORITY.

A 150mm-200mm COMPACTED LAYER OF 10-20mm ROUND GRAIN GRAVEL IS INSTALLED AT THE BASE OF THE EXCAVATION.

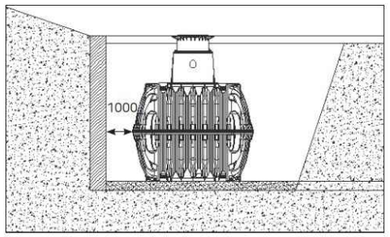
# MINIMUM & MAXIMUM COVER




MINIMUM COVER IN A LANDSCAPED AREA TO BE 750mm
FROM SHOULDER OF TANK.

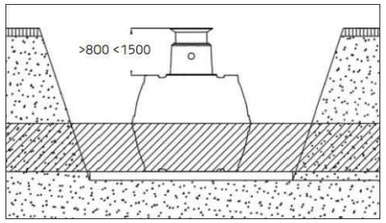
MAXIMUM COVER IN A LANDSCAPED AREA TO BE 1500mm
FROM SHOULDER OF TANK.

# SLOPE/EMBANKMENT INSTALLATIONS




IF THE TANK IS TO BE INSTALLED IN THE IMMEDIATE VICINITY (<5m)
OF A SLOPE OR EMBANKMENT, A STATICALLY CALCULATED RETAINING WALL
MUST BE ERECTED TO ABSORB ANY ADDITIONAL LOADING FROM THE SOIL.
THE WALL MUST EXCEED THE DIMENSIONS OF THE TANK BY AT LEAST 500mm
IN ALL DIRECTIONS AND MUST BE LOCATED AT LEAST 1000mm AWAY FROM THE TANK.

# GROUNDWATER INSTALLATIONS



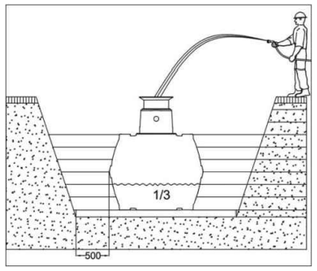

IF IT IS ANTICIPATED THAT THE TANK WILL BE IMMERSED IN GROUNDWATER DEEPER
THAN SHOWN IN THE BELOW TABLE, SUFFICIENT DISSIPATION MUST BE ENSURED.
DISSIPATION OF THE DRAINAGE WATER (E.G. VIA AN ANNULAR DRAINAGE SYSTEM)
IS RECOMMENDED IN CASES OF COHESIVE, WATER-IMPERMEABLE SOIL.

| TANK SIZE | 2,700L | 3,750L | 4,800L | 6,500L |
|---|---|---|---|---|
| IMMERSION DEPTH | 700mm | 795mm | 910mm | 1050mm |

MINIMUM COVER TO BE 800mm FROM SHOULDER OF TANK
IN AREAS WITH GROUNDWATER.

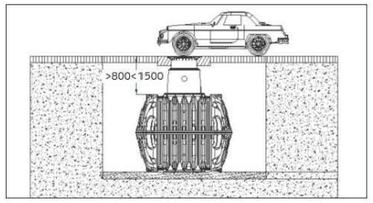
MAXIMUM COVER TO BE 1500mm FROM SHOULDER OF TANK
IN AREAS WITH GROUNDWATER.

# INSERTION & FILLING




THE TANK MUST BE INSERTED, IMPACT-FREE, INTO THE PREPARED TRENCH
USING SUITABLE EQUIPMENT.
THE TANK IS FILLED WITH $\frac{1}{3}$ WATER BEFORE BACKFILLING.
THE 10-20mm ROUND GRAIN GRAVEL IS BACKFILLED IN LAYERS OF MAX. 300mm STEPS
AND IS TO BE WELL COMPACTED WITH A MANUAL TAMPER.
MECHANICAL COMPACTION MACHINES ARE NOT TO BE USED UNDER ANY CIRCUMSTANCES.
SURROUND MUST BE AT LEAST 500mm ON ALL SIDES OF THE TANK.

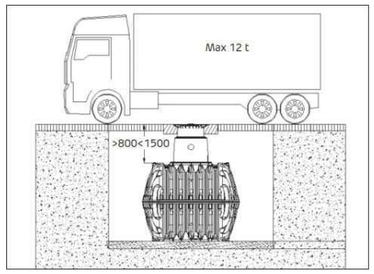
# VEHICLE LOADING CONDITIONS




FOR LOADINGS OF UP TO 3,500KG IN TRAFFICKED AREAS WITH NO GROUNDWATER, THERE MUST BE;

MINIMUM COVER OF 800mm FROM THE SHOULDER OF THE TANK, AND

MAXIMUM COVER OF 1500mm FROM THE SHOULDER OF THE TANK.

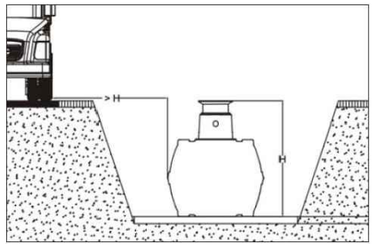



FOR LOADINGS OF MORE THAN 3,500KG AND UP TO 12,000KG IN AREAS OF NO GROUNDWATER, THERE MUST BE;

MINIMUM COVER OF 800mm FROM THE SHOULDER OF THE TANK,

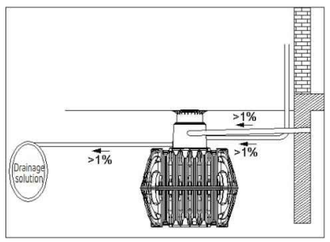
MAXIMUM COVER OF 1500mm FROM THE SHOULDER OF THE TANK, AND

SUITABLE MANHOLE COVER & FRAME (PROVIDED BY OTHERS).




FOR INSTALLATIONS ADJACENT TO SURFACES USED BY VEHICLES OF OVER 3,500KG, THE TANK MUST BE INSTALLED AT A DISTANCE FROM THE ROAD SURFACE THAT IT AT LEAST THE DEPTH OF THE TRENCH.

# PIPE CONNECTIONS




ALL PIPE CONNECTIONS MUST BE INSTALLED WITH A FALL OF AT LEAST 1%
IN THE DIRECTION OF FLOW (POSSIBLE, SUBSEQUENT SETTLING MUST BE
TAKEN INTO ACCOUNT).
IF THE TANK OVERFLOW IS CONNECTED TO A PUBLIC SEWER, THIS MUST BE
PROTECTED AGAINST REFLUX BY MEANS OF A LIFTING STATION OR REFLUX
SEAL IN ACCORDANCE WITH DIN 1986.
ALL SUCTION, PRESSURE & CONTROL LINES MUST BE INSTALLED IN AN
EMPTY PIPE / DUCT AND AS STRAIGHT AS POSSIBLE.
ANY NECESSARY BENDS MUST BE FORMED IN 30 DEGREE MOULDED
SECTIONS.
**IMPORTANT:** THE EMPTY PIPE / DUCT MUST BE CONNECTED TO AN APERTURE
**ABOVE** THE MAX. WATER LEVEL.

**PLEASE REFER TO TANK INSTALLATION GUIDE FOR DETAILS ON; SAFETY, PRODUCT FEATURES, IDENTIFICATION OBLIGATIONS, TECHNICAL DATA, TANK STRUCTURE, TANK ASSEMBLY & SERVICING AND INSPECTION.**

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PROJECT
GRAF STANDARD DETAILS

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GRAF 9PE ONE2CLEANXTRA
6,500L CARAT S

DRAWING No.
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