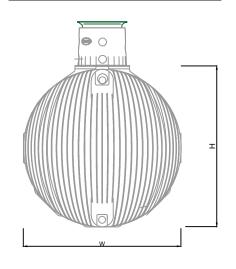
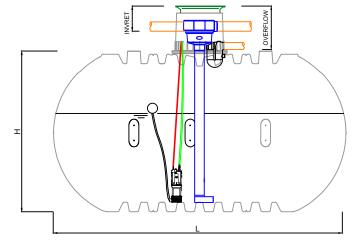
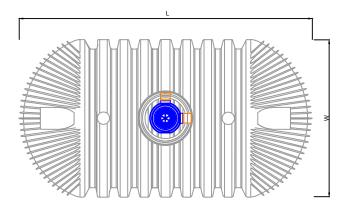
TANK SIZES & DIMENSIONS



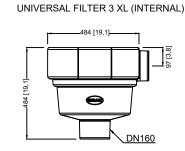


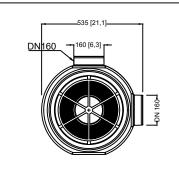


	16,000L	22,000L	26,000L	32,000L	36,000L	42,000L	44,000L	46,000L	52,000L
LENGTH	3,500mm	3,520mm	4,590mm						
WIDTH	2,040mm	2,240mm	2,500mm						
HEIGHT	2,090mm	2,290mm	2,550mm						
INVERT	465-745mm								
OVERFLOW	630-910mm								

FILTER DETAILS

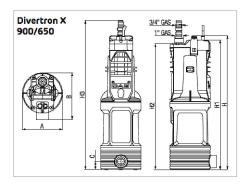


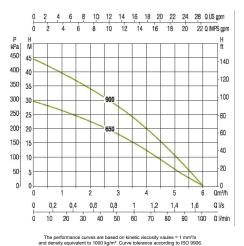




SUBMERSIBLE PUMP DETAILS

DAB DIVERTRON 900X





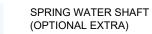
TANK ACCESSORIES

SYSTEM ACCESSORIES



HOSE CONNECTION BOX - EXTERNAL (STANDARD SUPPLY)





(OPTIONAL EXTRA) INTERNAL CLEANING UNIT

(OPTIONAL EXTRA)



DIGITAL FILL LEVEL SENSOR (OPTIONAL EXTRA)

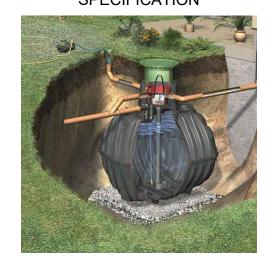
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GARDEN COMFORT CARAT XXL SPECIFICATION

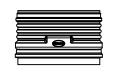


ltem	Diameter Ø	Min. Height (mm)	Max. He

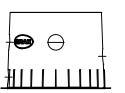
Pedestrian Loading Lid (Mini)	ø 600mm	60mm	360mm	150kg	
Pedestrian Loading Lid (Maxi)	ø 600mm	60mm	476mm	150kg	
Vehicle Loading Lid	ø 625mm	60mm	476mm	3,500kg	
Extension Sleeve (1m)	ø 670mm	500mm	1,000mm		
Extension Sleeve	ø 680mm	250mm		•	
Tank Dome (Maxi)	ø 650mm	610mm			

Loading up to 12,000kg achievable (suitable cover to be provided by others)

Tank Dome (Maxi)



Extension Sleeve



Pedestrian Loading Lid (Mini) Pedestrian Loading Lid (Maxi) Vehicle Loading Lid





Extension Sleeve (1m)

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

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PROJECT

P0 LATEST REVISION REV. DESCRIPTION

GRAF STANDARD DETAILS

GARDEN COMFORT RAINWATER HARVESTING SYSTEM CARAT XXL TANK

FC 15.04.24

DATE

BY

GARDEN COMFORT_STANDARD DETAIL_CARAT_XXL P0

Tank Dome (Maxi) available with DN100 or DN150 connections

SCOPE OF SUPPLY

SUPPLIED BY GRAF:

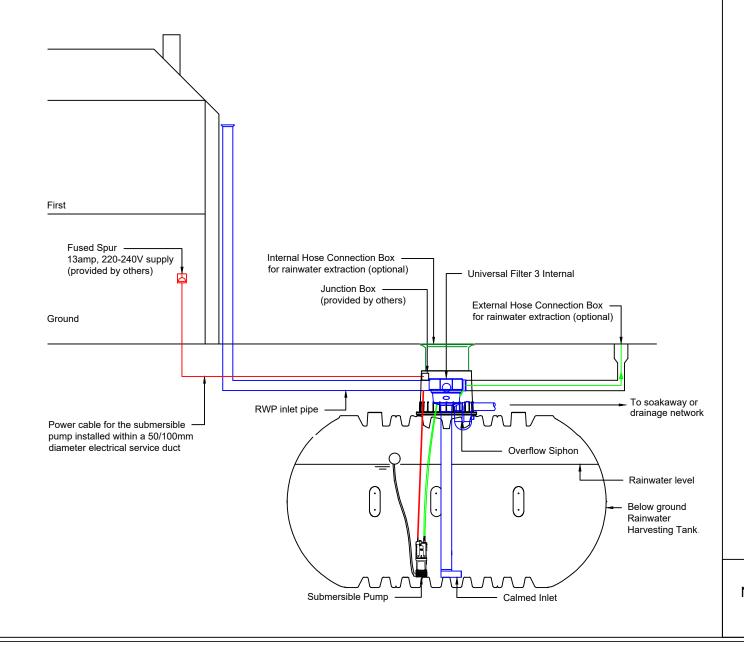
- Underground tank
- Telescopic lid
- 3. Filter
- Submersible pump
- Internal hose connection box 5.
- External hose connection box

SUPPLIED BY OTHERS:

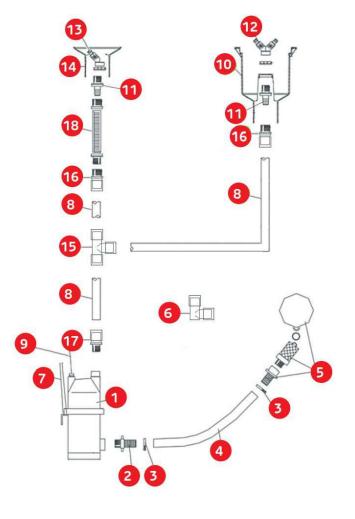
- 100mm duct for pump cable
- 100mm drainage pipe to connect downpipes to inlet (all downpipes to be brought into one single inlet)
- 100mm pipe for overflow from



GARDEN COMFORT CARAT XXL SCHEMATIC



INTERNAL/EXTERNAL HOSE CONNECTION BOXES



- Submersible pump
- Brass hose screwing
- Hose clip
- Suction hose
- Floating suction set
- 25mm compression elbow (optional fitting used for external tap connection)
- Fixing set for submersible pump
- Pressure hose, black & green colour, length 25m Electricity supply, length 10m, 3-core cable
- External hose connection box 10.
- 3 / 4 " tank connector 11.
- 2-way regulating plug
- Hose-lock connector
- 14. Internal hose connection box, located on manhole cover of rainwater tank
- 25mm compression T-fitting 25mm compression x 3 / 4 " female threaded fitting
- 25mm compression x 1 " male threaded fitting
- 1m length of braided hose, 3 / 4 " male x 3 / 4 " female connections

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

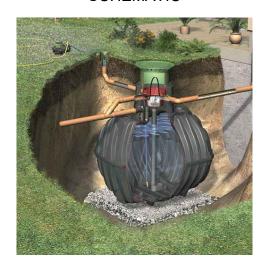
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GARDEN COMFORT CARAT XXL SCHEMATIC



P0 LATEST REVISION FC 16.04.24 REV. DESCRIPTION BY DATE



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PROJECT

GRAF STANDARD DETAILS

GARDEN COMFORT RAINWATER HARVESTING SYSTEM CARAT XXL TANK

GARDEN COMFORT_STANDARD DETAIL_CARAT_XXL 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**

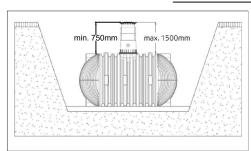
THE CONSTRUCTION SITE MUST BE HORIZONTAL AND PLANE AND MUST GUARANTEE SUFFICIENT LOAD-BEARING CAPACITY.

THE DEPTH OF THE TRENCH MUST BE DIMENSIONED SO THAT THE MAXIMUM COVER ABOVE THE TANK IS NOT EXCEEDED

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 n-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

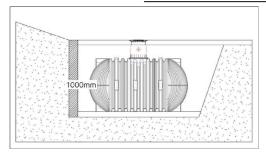
MINIMUM & MAXIMUM COVER



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

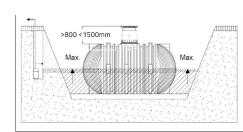
MAXIMUM COVER IN A LANDSCAPED AREA TO BE 1500mm FROM SHOULDER OF TANK

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



TO MAINTAIN THE DESIRED TANK DEPTH, ENSURE PROPER DRAINAGE IS APPLIED IN AREAS WITH GROUND WATER AND IMPERMEABLE SOIL. USING A DRAINAGE LINE ENDING IN WITH A CHAMBER AND AN IMMERSION PUMP TO PUMP EXCESS WATER AWAY FROM THE SITE.

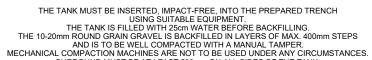
REGULARLY INSPECT THE PUMP FOR OPTIMAL FUNCTIONALITY. IF IT IS EXPECTED THAT

THE TANK MAY SINK LOWER, ADEQUATE DRAINAGE MUST BE ENSURED.

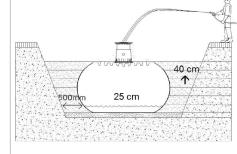
TANK SIZE	16,000L - 56,000L
IMMERSION DEPTH	1250mm

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.

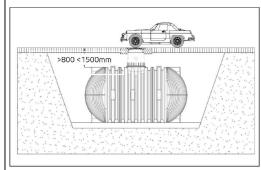
INSERTION & FILLING



SURROUND MUST BE AT LEAST 500mm ON ALL SIDES OF THE TANK.

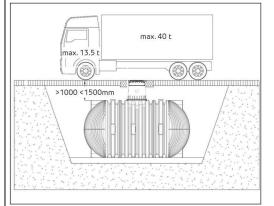


VEHICLE LOADING CONDITIONS



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 40,000KG IN AREAS OF NO GROUNDWATER. THERE MUST BE:

MINIMUM COVER OF 1000mm 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 12,000KG, THE TANK MUST BE INSTALLED AT A DISTANCE FROM THE ROAD SURFACE THAT IT AT LEAST THE DEPTH OF THE TRENCH.

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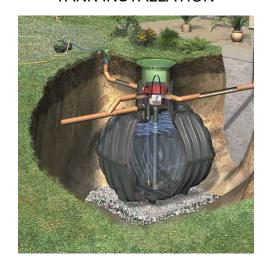
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GARDEN COMFORT CARAT XXL TANK INSTALLATION



PIPE CONNECTIONS

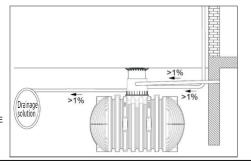
ALL PIPE CONNECTIONS MUST BE INSTALLED WITH A FALL OF AT LEAST 1% IN THE DIRECTION OF FLOW (POSSIBLE, SUBSEQUENT SETTLING MUST BE TAKEN INTO ACCOUNT). IF THE TANK OVERFLOW IS CONNECTED TO A PUBLIC SEWER, THIS MUST BE PROTECTED AGAINST REFLUX BY MEANS OF A LIFTING STATION OR REFLUX SEAL IN ACCORDANCE 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.



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ROJECT

P0 LATEST REVISION

REV. DESCRIPTION

GRAF STANDARD DETAILS

GARDEN COMFORT RAINWATER HARVESTING SYSTEM CARAT XXL TANK

GARDEN_COMFORT_STANDARD DETAIL_CARAT_XXL P0

KS 31.05.2024

DATE

BY

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