

CULTEC Recharger® 180HD Residential Drainage Chamber

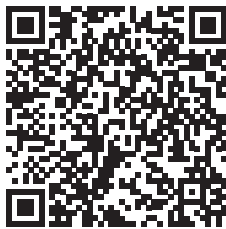
The Recharger® 180HD is a 20" (508 mm) tall, mid-size chamber and is typically used for installations with depth restrictions or when a larger infiltrative area is required. The Recharger® 180HD has the side portal internal manifold feature. HVLV® FC-24 Feed Connectors are inserted into the side portals to create the internal manifold.

Size (L x W x H)	7.33' x 36" x 20" 2.23 m x 914 mm x 508 mm
Installed Length	
R-model as Stand Alone Unit	88"
R-model as Row Starter Unit	82"
E-model as Row Middle Unit	76"
E-model as Row End Unit	82"
Chamber Storage	3.45 ft³/ft 0.32 m³/m 21.81 ft³/unit 0.62 m³/unit
Chamber Weight	45.0 lbs 20.41 kg
Shipping	40 chambers/skid 1,905 lbs/skid 16 skids/48' flatbed
Max. Allowable Cover	12' 3.66 m
Max. Inlet Opening in End Wall	15" HDPE, PVC 375 mm HDPE, PVC
Max. Allowable O.D. in Side Portal	10" HDPE, 12" PVC 250 mm HDPE, 300 mm PVC
Compatible Feed Connector	HVLV FC-24 Feed Connector

Calculations are based on installed chamber length.
All above values are nominal.



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System Calculator



CAD / PDF Drawings



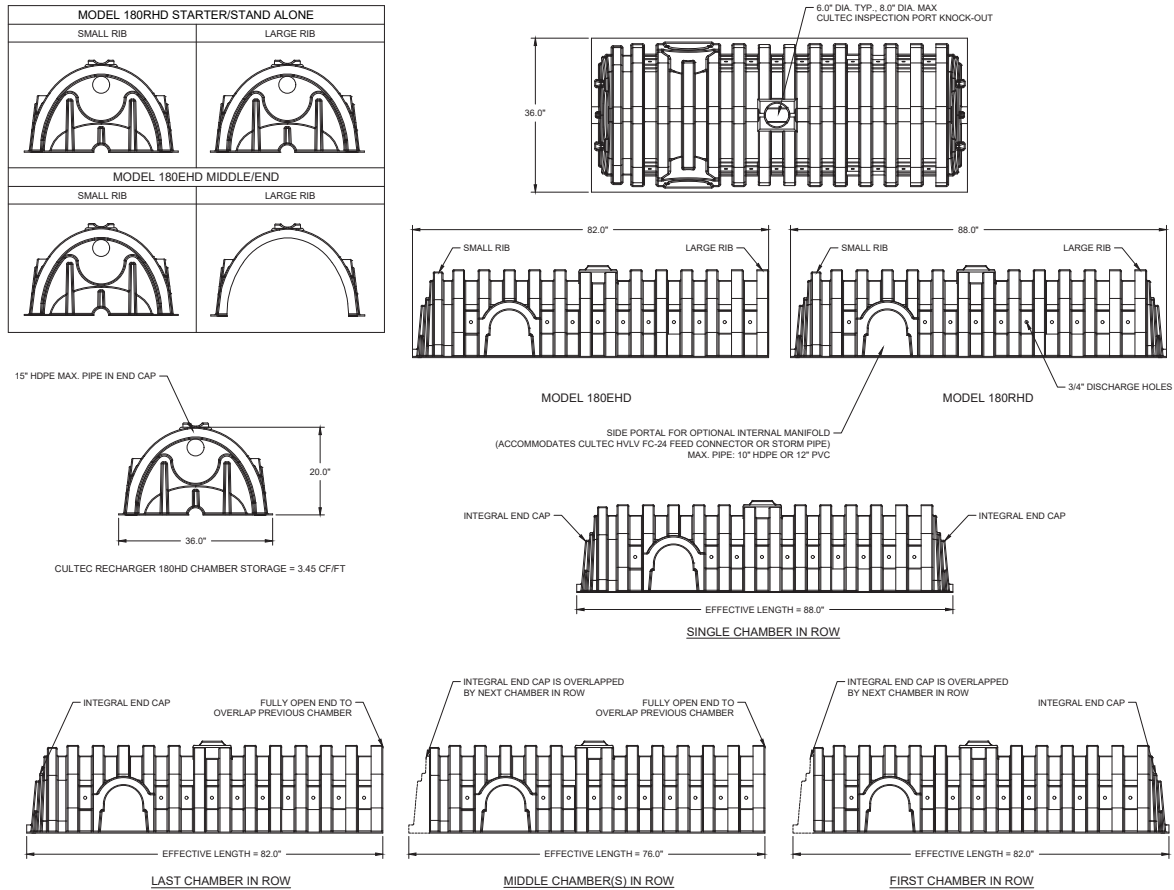
Installation Instructions



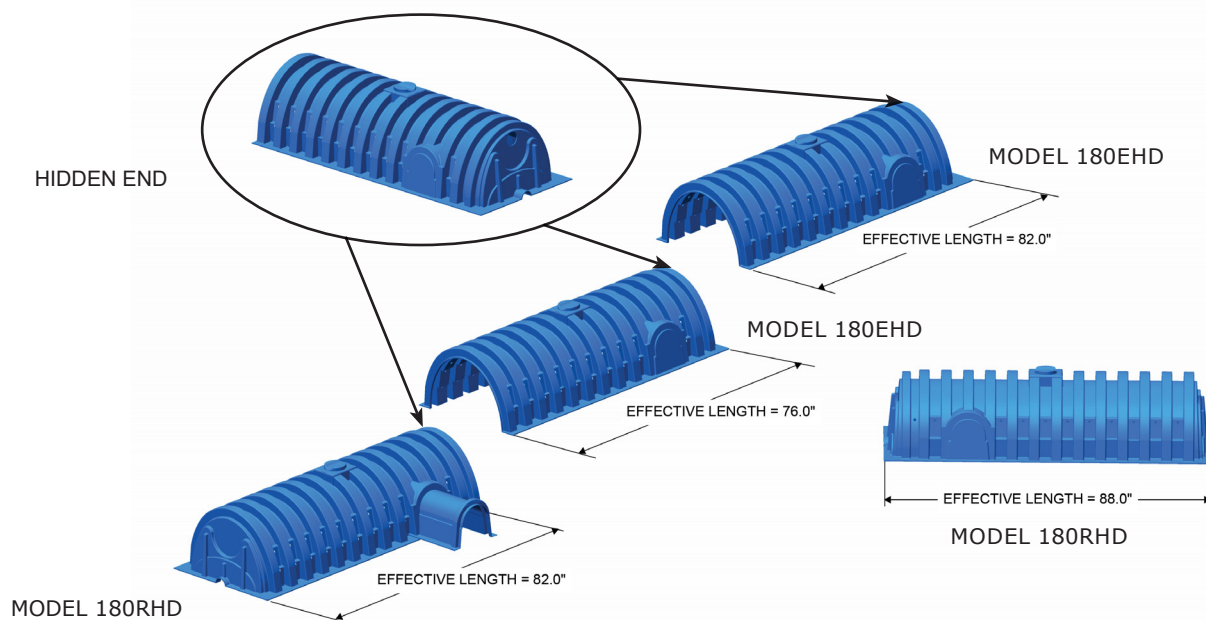
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Three View Drawing



Typical Interlock Installation

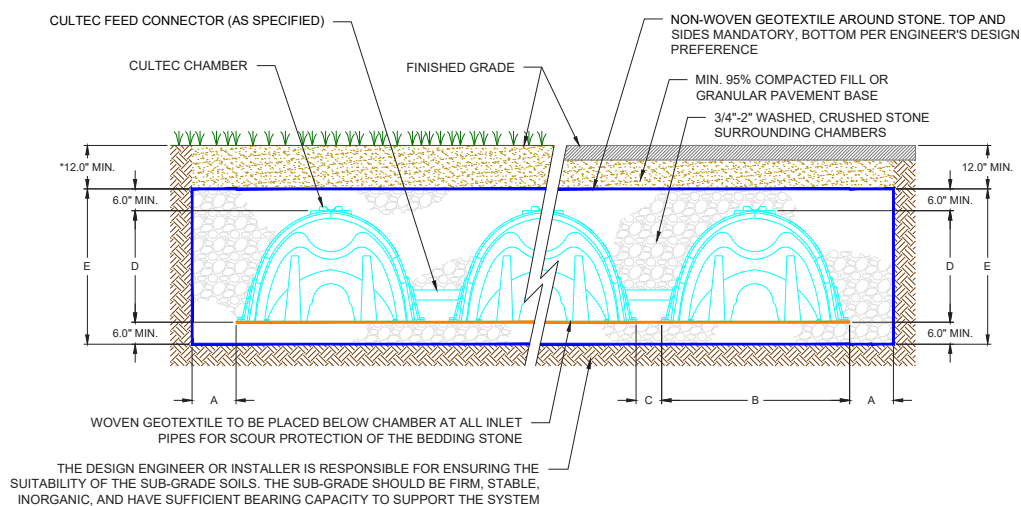


SHOWN WITH SIDE PORTAL TRIMMED AND OPTIONAL CULTREC HVLV FC-24 FEED CONNECTOR INSERTED.

Typical Residential Drainage Details

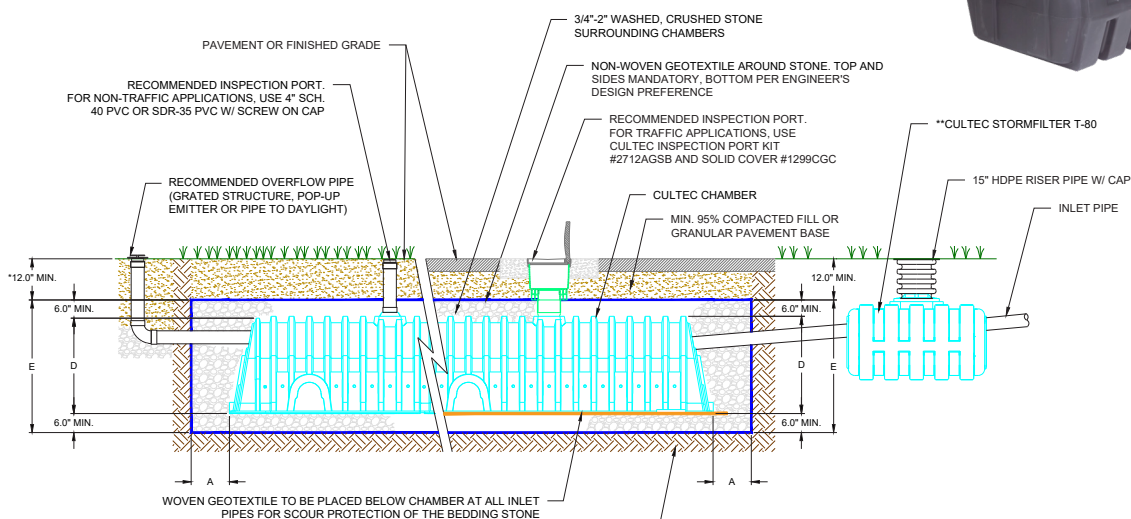
		Recharger 180HD
Ref.	Bare Chamber Volume	3.45 ft ³ /ft 21.81 ft ³ /unit 163 gal
A	Stone Border	12"
B	Chamber Width	36"
C	Row Spacing	6"
D	Chamber Height	20"
E	Effective Depth	32"
	Chamber Length*	7.33'

*Chamber length includes integral end walls.



PRODUCT IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY.

*FOR NON-TRAFFIC APPLICATIONS, THE DEPTH OF COVER ABOVE THE EMBEDMENT STONE LAYER MAY BE REDUCED TO 6.0"



THE DESIGN ENGINEER OR INSTALLER IS RESPONSIBLE FOR ENSURING THE SUITABILITY OF THE SUB-GRADE SOILS. THE SUB-GRADE SHOULD BE FIRM, STABLE, INORGANIC, AND HAVE SUFFICIENT BEARING CAPACITY TO SUPPORT THE SYSTEM

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**CULTEC RECOMMENDS THE USE OF THE STORMFILTER T-80 UPSTREAM OF ALL SYSTEM INLETS. THE STORMFILTER T-80 MUST BE LOCATED IN A NON-TRAFFIC AREA.

For more information, contact CULTEC at (203) 775-4416 or visit www.cultec.com.

CULTEC Recharger® 180HD Specifications

GENERAL

CULTEC Recharger® 180HD chambers are designed for underground residential drainage. The chambers may be used for retention, recharging, detention, or controlling the flow of on-site stormwater runoff or greywater.

CHAMBER PARAMETERS

1. The chambers will be manufactured in the U.S.A. by CULTEC of Brookfield, CT (cultec.com, 203-775-4416).
2. The chamber shall be vacuum thermoformed of polyethylene with a black interior and blue exterior.
3. The chamber will be arched in shape.
4. The chamber will be open-bottomed.
5. The chamber will be joined using an interlocking overlapping rib method. Connections must be fully shouldered overlapping ribs, having no separate couplings or separate end walls.
6. The nominal chamber dimensions of the CULTEC Recharger® 180HD shall be 20 inches (508 mm) tall, 36 inches (914 mm) wide and 7.33 feet (2.23 m) long. The installed length of a joined Recharger® 180HD shall be 6.33 feet (1.93 m).
7. Maximum inlet opening on the chamber endwall is 15 inches (375 mm) HDPE.
8. The chamber will have two side portals to accept CULTEC HVLV® FC-24 Feed Connectors to create an internal manifold. Maximum allowable O.D. in the side portal is 10 inches (250 mm) HDPE and 12 inches (300 mm) PVC.
9. The nominal chamber dimensions of the CULTEC HVLV® FC-24 Feed Connector shall be 12 inches (305 mm) tall, 16 inches (406 mm) wide and 24.2 inches (614 mm) long.
10. The nominal storage volume of the Recharger® 180HD chamber will be 3.445 ft³ / ft (0.32 m³ / m) - without stone.
11. The Recharger® 180HD chamber will have twenty-two discharge holes bored into the sidewalls of the unit's core to promote lateral conveyance of water.
12. The Recharger® 180HD chamber shall have 14 corrugations.
13. The endwall of the chamber, when present, will be an integral part of the continuously formed unit. Separate end plates cannot be used with this unit.
14. The Recharger® 180RHD Stand Alone/Starter unit must be formed as a whole chamber having two fully formed integral endwalls and having no separate end plates or separate end walls.
15. The Recharger® 180EHD Middle/End unit must be formed as a whole chamber having one fully formed integral endwall and one fully open end wall and having no separate end plates or end walls.
16. The HVLV® FC-24 Feed Connector must be formed as a whole chamber having two open end walls and having no separate end plates or separate end walls. The unit will fit into the side portals of the Recharger® 180HD and act as cross feed connections.
17. Chambers must have horizontal stiffening flex reduction steps between the ribs.
18. The chamber will have a raised integral cap at the top of the arch in the center of each unit to be used as an optional inspection port or clean-out.
19. The units may be trimmed to custom lengths by cutting back to any corrugation on the large rib end.
20. The chamber shall be manufactured in an ISO 9001:2015 certified facility.
21. Maximum allowable cover over the top of the chamber shall be 12' (3.66 m).
22. The chamber will be designed to withstand traffic loads when installed according to CULTEC's recommended installation instructions.



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