

# initial-contract-settings)

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## CarbonVortex Dynamics

### Initial Contract Settings

The contract requires the deployer to predefine parameters which are used for the different function and functionalities of the contract and dutch auction.

#### Non adjustable values:

- Auction initial price - set at uint128, it enables every auction to start at a price point of  $34 \times 10^{37}$
- targetToken - token address to consolidate all fees into
- finalTargetToken - [optional] token address to auction targetToken to

#### Adjustable values:

- priceDecayHalfLife - on existing deployments it is set at 6h. This determine the speed in which the "AnyToken to targetToken
- " auction price moves once initiated (followingexecute())
- ).
- targetTokenPriceDecayHalfLife - on existing deployments it is set at 6h. This determine the speed in which the "targetToken to finalTargetToken
- " auction price moves once initiated (followingexecute())
- ).
- targetTokenPriceDecayHalfLifeOnReset - on existing deployments it is set at 10days. This determine the speed in which the "targetToken to finalTargetToken
- " auction price slows down to following a trade.
- targetTokenSaleAmount - unlike other auctions that auction the entire available balance of the token, targetToken auctions use buckets. This value indicates the maximum amount of tokens the bucket can auction at once.

### Initiating and Restarting Auctions

#### Any Token totargetToken auction

- Contract balance of the token is the amount available in the auction

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