



concrete dreams

# CLC: Concrete Tanks

CLC Vasche, which stands for “**Cooperative Lavorazione Cementi**,” is a family-owned and run company located outside of Padova in North Eastern Italy. CLC is a leading manufacturer for standard and tailor made concrete tanks for wine production, whose tanks can be found throughout Italy, France, Spain, South Africa and other important winemaking countries throughout the world.



Two door diamonds in New York's Finger Lakes.

## MATERIAL

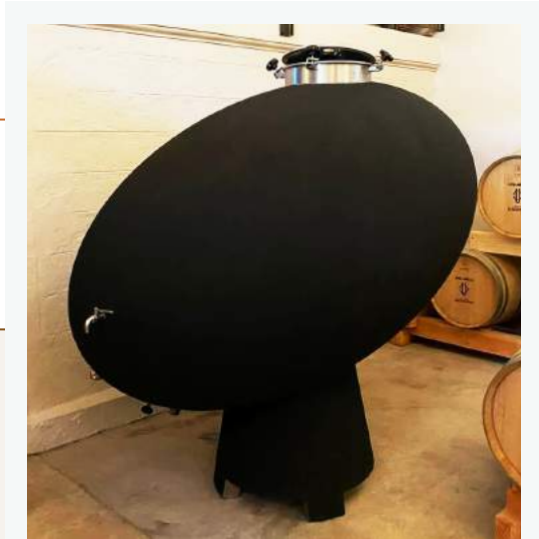
CLC concrete tanks are made of either **concrete, or reinforced concrete** depending on the shape and size of the tank. The production and mix of concrete is a consistent blended aggregate of **sand, marl, clay, stones and gravel sourced from the local Brenta river** which is fed from rivers that originate from melting glaciers high up in the neighboring Dolomite Mountains reaching into the Alps.

## HISTORY

CLC was **founded in 1955** by a group of Italian families that to this day run the company together. They specialize in the **production of standard, modular tanks but have also built their reputation by offering tailor made concrete tanks** that are customized to their customers' cellars and needs.

## PRODUCTION

**A state of the art, computerized machine** is used to accurately and consistently mix the right amounts of all necessary aggregates, cement, and water in order to **guarantee a consistent and optimal mix of concrete across all tanks**. For small standard tanks, the concrete is poured inside of molds and allowed to cure. For larger tanks, rebar and reinforced steel is used to provide structural support to the tank.



13.5 HL Castel Aromy in a Bordeaux cellar.

## POROSITY / WINEMAKING

If the interior of the concrete tanks are not lined with epoxy, application of **30% tartaric acid solution is needed to neutralize** the inside of the concrete tank before using for wine production therefore the porosity of the concrete varies over time, however concrete does allow wine to breathe. Due to it's extremely stable thermal inertia characteristics, **concrete tanks are excellent vessels for fermentation**; but many producers also opt to age their wine in the vessels too.

## REFERENCES

### France:

Domaine du Coulet - Matthieu Barret, Alain Graillet, Ermitage du Pic Saint Loup, Chateau Ferriere, Chateau Grand Corbin, Peyrassol, Clos Rougeard.

### Italy:

Gaja, Massolino, Foradori, Mastrojanni, Gagliole, El Sacramento, Castello di Radda, Occhipinti.

### Rest of the World:

Mac Forbes, A.A Badenhorst, Stony Hill, Taylors, Amos Rome.



Opale tanks.

# 2023 USA PRICES CLC

- All prices below are listed in Euros (€) and include delivery to our Napa Valley, Sonoma Valley, CA and Portland, OR warehouses.  
- Depending on the order, delivery of container with tanks can be organized DDP winery.  
- Products will be invoiced in US dollars (\$) based on exchange rate of date of invoice. Payments can be made locally in US dollars.  
- A 30% deposit is due at order confirmation and 70% balance due upon delivery to the winery.




concrete dreams

## DIAMANTE 20 HL

(CONCRETE TANKS MADE IN ITALY.)

NEW

## AROMY 14.5 HL

ATTENTION: Seed screen on racking and full discharge valves recommended. [1,2]	DIAMANTE 20 HL			AROMY 14.5 HL		
	1 ONE-DOOR (HORIZONTAL)	2 TWO-DOOR (HORIZONTAL)	3 ONE-DOOR (VERTICAL)	4 CASTEL	5 CLASSIQUE	6 DYNAMIQUE
						
Inside of the Diamond is a spherical ovoid that promotes stirring and suspension of lees pre and post-fermentation.						
ATTENTION: Ships horizontally. Installed vertically in cellar. [3]						
<b>VOLUME (GAL)</b>	528	528	528	<b>VOLUME (GAL)</b>	357	357
<b>DIAMOND HEIGHT (IN)</b>	59	59	83	<b>HEIGHT (IN)</b>	85	76
<b>BASE HEIGHT (IN)</b>	10	20	10	<b>WIDTH (IN)</b>	52	52
<b>TOTAL HEIGHT (IN)</b>	69	79	93	<b>LENGTH (IN)</b>	76	80
<b>WIDTH (IN)</b>	57	57	57	<b>WEIGHT (LBS)</b>	3,307	3,307
<b>LENGTH (IN)</b>	79	79	57	<b>PRICE (EUROS)</b>	10,705 €	10,705 €
<b>DIAMOND WEIGHT (LBS)</b>	4,620	4,620	4,620			
<b>BASE WEIGHT (LBS)</b>	342	903	903			
<b>TOTAL WEIGHT (LBS)</b>	4,961	5,523	5,523			
<b>PRICE (EUROS)</b>	13,305 €	14,390 €	14,390 €			

### DIAMANTE AND AROMY STANDARD ACCESSORIES

\*Numbers corresponds to type of Diamante and Aromy\*

- Top manhole DN 500 mm and double action relief PVC valve [1,2,3]
- Top manhole DN 400 mm and double action relief PVC valve [4,5,6]
- Rectangular manway 315x420 mm with drip lip (horizontal opening) [2,3]
- 1/2" Sampling ball valve fixed on the horizontal frontal manway [1,2,3]
- 1/2" Sampling ball valve fixed on concrete [4,5,6]
- Oval manway 300 x 400 at tank bottom [2]
- Oval manway 300 x 400 at tank bottom and total discharge ball valve 2" Tri Clover ball valve, gasket, bolts and drain hole [4,5,6]
- Partial discharge racking 2" Tri Clover ball valve, gasket, bolts and drain hole [2,3,4,5,6]
- 49" x 60" x 11" stand [3]
- Total discharge ball valve 2" Tri Clover ball valve, bolts [2,3,4,5,6]
- 2x 10" tall concrete supports [1]
- 2x 20" tall concrete supports [2]
- Standard Grey Ral smooth wash concrete exterior [1,2,3,4,5,6]
- More accessories on pg. 11

## OPALE



## CRU



PRODUCT	VOLUME (GAL)	HEIGHT (IN)	DIAMETER (IN)	WEIGHT (LBS)	PRICE (EUROS)	PRODUCT	VOLUME (GAL)	HEIGHT (IN)	LENGTH (IN)	WIDTH (IN)	WEIGHT (LBS)	PRICE (EUROS)
44	1,162	80	89	12,125	18,360 €	15	396	79	57	57	6,614	13,730 €
51	1,347	89	89	12,787	19,430 €	20	528	79	63	63	7,716	15,295 €
BELOW SIZES LOADED IN CONTAINER HORIZONATLLY AND REQUIRE ADDITIONAL INSTALLMENT COSTS AT WINERY.						30	793	79	73	73	9,039	16,690 €
57	1,501	99	89	13,228.72	20,030 €	40	1057	98	68	68	10,361	19,427 €
62	1,638	109	89	13,668	20,940 €	BELOW SIZES LOADED IN CONTAINER HORIZONATLLY AND REQUIRE ADDITIONAL INSTALLMENT COSTS AT WINERY.						
67	1,770	119	89	14,110	22,800 €	20	528	98	58	58	7,716	15,295 €
70	1,849	129	89	14,330	23,985 €	30	793	98	66	66	9,039	16,690 €
72	1,902	139	89	14,500	24,140 €	40	1057	98	68	68	10,361	19,427 €

### OPAL STANDARD ACCESSORIES

- Rectangular manway 405 x 530 mm with drip lip, flush to the inner bottom (vertical opening)
- Top Manhole, 800 mm, double action relief pvc valve [Opale 44HL - 67HL]
- Top Manhole, 500 mm, double action relief pvc valve [Opale 70HL - 72HL]
- Partial discharge racking 2" Tri Clover Ball Valve
- Full discharge draining 2" Tri Clover Ball Valve
- 1/2" Sampling ball valve
- Standard Grey Ral smooth wash concrete exterior
- More accessories on pg. 9

### CRU STANDARD ACCESSORIES

- Rectangular manway 405 x 530 mm with drip lip, flush to the inner bottom (horizontal opening)
- Top Manhole, 500 mm, double action relief pvc valve
- Full discharge draining 2" Tri Clover Ball Valve
- Partial discharge draining 2" Tri Clover Ball Valve
- 1/2" Sampling ball valve
- Standard Grey Ral smooth wash concrete exterior
- More accessories on pg. 9



concrete dreams

- All prices below are listed in Euros (€) and include delivery to our Napa Valley or Sonoma Valley, CA and Portland, OR warehouses.
- Depending on the order, delivery of container with tanks can be organized DDP winery.
- Products will be invoiced in US dollars (\$) based on exchange rate of date of invoice. Payments can be made locally in US dollars.
- A 30% deposit is due at order confirmation and 70% balance due upon delivery to the winery.

## 2023 USA PRICES CLC Standard Tanks

*IMPORTANT: CLC takes great pride in making tailor made concrete wine tanks that can be customized depending on your winery. But for any tank taller than 89 inches, they will need to be loaded inside of the container horizontally which requires additional container unloading and tank installation services.*

### STANDARD

PRODUCT	VOLUME (GAL)	HEIGHT (IN)	LENGTH (IN)	WIDTH (IN)	WEIGHT (LBS)	PRICE (EUROS)
15	396	79	45	45	5,952	11,630 €
20	528	79	57	45	7,055	12,350 €
25	660	79	57	54	7,937	12,860 €
30	793	79	57	63	8,818	14,475 €
40	1,057	79	57	81	10,367	16,130 €
50	1,321	79	69	81	11,684	17,620 €
60	1,585	79	69	96	13,228	22,045 €
75	1,981	79	85	87	15,432	23,340 €
100	2,642	79	85	112	18,960	24,625 €
125	3,302	79	85	141	24,251	31,610 €



### TRONCO

PRODUCT	VOLUME (GAL)	HEIGHT (IN)	LENGTH (IN)	WIDTH (IN)	WEIGHT (LBS)	PRICE (EUROS)
20	528	79	55	57	7,055	13,610 €
25	660	79	61	61	7,937	14,430 €
30	793	79	65	65	8,598	14,900 €
40	1,057	79	73	72	10,141	15,210 €
50	1,322	79	81	81	11,905	15,900 €



### VENUS

PRODUCT	VOLUME (GAL)	HEIGHT (IN)	LENGTH (IN)	WIDTH (IN)	WEIGHT (LBS)	PRICE (EUROS)
20	528	79	57	47	7,275	12,130 €
30	793	79	80	47	9,259	14,390 €
40	1,057	79	80	60	10,582	17,465 €
50	1,321	79	80	74	11,905	21,490 €
60	1,585	79	80	86	13,448	21,920 €
75	1,981	79	80	105	15,653	22,500 €



#### STANDARD ACCESSORIES: STANDARD / TRONCO / VENUS

- Rectangular manway 405 x 530 mm with drip lip, flush to the inner bottom (horizontal opening)
- Top Manhole 500 mm, double action relief pvc valve
- Partial discharge racking 2" Tri Clover ball valve
- Full discharge draining 2" Tri Clover ball valve
- 1/2" Sampling ball valve
- Standard Grey Ral 7030 concrete exterior
- 4x 80 cm tall feet per Standard and Tronco tank and 4x 40 cm tall feet per Venus tank
- More accessories on pg. 11

# ACCESSORIES

## CLC Concrete Tanks



concrete dreams

Depending on the tank and accessory, the below accessories can be included either on the Diamante, Opale, Cru, Standard, Tronco and Venus tanks.

LOGOS / COLOR / CONSTRUCTION		PRICES (EURO)	MANWAY ON FACADE		PRICES (EURO)										
	SMALL: max 190 x 190 mm Logo on façade	600 €		Rectangular Manway (405 x 530 mm) with drip, flush to the inner bottom AISI 304 SS - Horizontal Opening	1,110 €										
	LARGE: max 380 x 380 mm Logo on façade	840 €		Rectangular Manway (405 x 530 mm) with drip, flush to the inner bottom AISI 304 SS - Vertical Opening	1,490 €										
	Standard Grey Ral 7030. Other colors to be defined on Ral standard color.	INCLUDED		Round Manway (DN 400 mm) with drip, flush to the inner bottom AISI 304 SS - Outwards Opening	1,045 €										
	Concrete Kickflat on the top 100 x 150 mm - cost for each single side	355 €	<b>TOP MANHOLE, DOUBLE ACTION RELIEF PVC VALE (AVAILABLE FOR DISCOUNT)</b>		<b>PRICES (EURO)</b>										
ACCESSORIES		PRICES (EURO)		DN 400 (mm)	INCLUDED										
	1.5" Tri Clover Valve	490 €		DN 500 (mm)	INCLUDED										
	2" Tri Clover Valve	540 €		DN 600 (mm)	1,080 €										
	2" Tri Clover Racking Valve	540 €		DN 800 (mm)	2,210 €										
	Bottom Drain Plug DN 80 (no valve, only cap with chain) - AISI 304	590 €		DN 1000 (mm)	2,440 €										
	1/2" Sampling Ball Valve	180 €		DN 1200 (mm)	2,810 €										
	Analog Thermometer -20 +60 °C with 1/2" well (30 cm length) additional thermowells available upon request	315 €	<b>ANTI FALL GRID FOR TOP MANHOLE</b>		<b>PRICES (EURO)</b>										
	1/2" Probe Well	220 €		DN 800 (mm)	555 €										
<b>LEVEL GAUGE WITH DN 24 POLYCARBONATE SIGHT TUBE AND STAINLESS STEEL FRAME</b>		<b>PRICES (EURO)</b>		DN 1000 (mm)	590 €										
	Open circuit with bottom drain port	345 €		DN 1200 (mm)	735 €										
	Closed circuit with bottom drain port and top valve	590 €	<b>SEED SCREEN ON THE RACKING OUTLET</b>		<b>PRICES (EURO)</b>										
	Curved version for Venus façade - Surcharge	975 €		200 mm Cylindrical Screen h.400 mm (Recommended for racking valve on Diamond)	375 €										
<b>COOLING PLATE (FIXED VERTICALLY FROM THE TOP)</b>				200 mm Cylindrical Screen h.500 mm	375 €										
				200 mm Cylindrical Screen h.1000 mm	615 €										
				210 mm Shutter Screen h. 500 mm (Recommended for draining valve on Diamond)	340 €										
				350 mm Shutter Screen h. 500 mm	450 €										
				350 mm Shutter Screen h. 1000 mm	880 €										
			<b>COOLING PIPES DN 34 (FIXED VERTICALLY FROM THE TOP)</b>												
															
				<b>PRICE STANDARD</b>	<b>PRICE TRUNCATED</b>										
			SMALL (40HL - 80HL)	2,130 €	2,410 €										
			LARGE (90HL - 120HL+)	2,410 €	2,595 €										
			<b>FEET OPTIONS (4X FEET PER PACK)</b>												
<b>WIDTH (mm)</b>	<b>LENGTH (mm)</b>	600	800	1000	1200	1400	1600	1800	2000	<b>CONCRETE</b>	<b>WIDTH / LENGTH (in)</b>	<b>HEIGHT (in)</b>	<b>WEIGHT (lbs for 4x feet)</b>	<b>PRICE (4x feet)</b>	
		270	740 €	740 €	890 €	990 €	1,040 €	1,100 €	1,160 €		1,225 €	12 x 12	24	1,190	375 €
		370	-	-	1,005 €	1,110 €	1,210 €	1,345 €	1,410 €		1,495 €	12 x 12	28	1,389	625 €
		470	-	-	1,050 €	1,210 €	1,315 €	1,400 €	-		-	16 x 16	31	2,822	925 €