

CTX HIGH PERFORMANCE CENTRIFUGAL PUMPS

2023 |

Featuring

NEW CTXS - self-priming pumps



>> All about your flow

www.tapflo.cn

CTX High Performance Centrifugal Pumps

the premium pump series from Tapflo with superior performance

Thanks to the robust construction and a compact and reliable design, CTX pumps assure long term failure-free operation thus short downtimes.

CTX pumps are available in hygienic and industrial execution.

CTX H - hygienic execution

- wetted parts electropolished to Ra<0.8 μm as standard (**Ra<0.5 µm** on request)
- external surfaces glass blasted to Ra<3.2 µm
- single and double mechanical seals and elastomers FDA and EC1935 approved
- hygienic connections with DIN 11851 as standard

CTX I - industrial execution

- wetted parts and external surfaces glass blasted to Ra<3.2 µm as standard
- industrial connections with EN1092-1 flange as standard











Certificates may vary depending on material execution of particular product.





High efficiency



Hygienic & Industrial execution



Single or double mechanical seal



Low noise, low vibration



Adjusted (trimmed) impeller



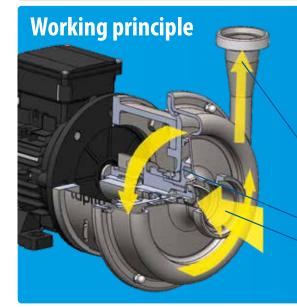
Robust construction, easy maintenance, less downtime



Modular design concept



Low NPSHr



The impeller is connected to a motor through a drive shaft and rotated at high speed.

The fluid enters the pump housing alongside the impeller rotation axis which provides centrifugal acceleration to the liquid.

The fluid flows radially outward through the pump casing, from where it exits into the discharge piping.

IMPELLER

SUCTION

Wide range of applications (CTX H & CTX I)

CTX H

Industries:

- dairy
- ice cream
- beverage
- food
- » pharma
- cosmetics
- brewery and winery

Applications:

diary,

fats,

juices,

alcohol,

semi products,

food additives,

ingredients for cosmetic and pharmaceutical,

products in explosive and safe zones,

mild and aggressive chemicals,

hot and cold liquids,

suspensions and emulsions,

cleaning and washing agents,

wastewater,

feeding and unloading of storage tanks,

containers, filters, sumps,

powering process equipment, dosing systems, dispensing units,











CTXI

Industries:

- >> chemical,
- » mining,
- » oil & gas,
- » packaging,
- printing,
- automotive,
- machinery,
- wastewater treatments plants,

Applications:

oils,

fuels,

solvents,

concentrated or diluted acids and alkalis in explosives and safe zones,

mild and aggressive chemicals,

hot and cold liquids,

suspensions and emulsions,

cleaning and washing agents,

wastewater,

cooling and heating media,

feeding and unloading of storage tanks,

containers, filters, sumps,

powering process equipment, dosing systems,

dispensing units, test rigs,







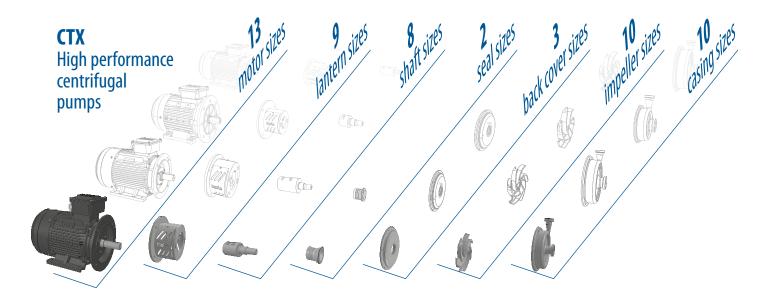




Modular product concept

for diverse application conditions

The modular product concept of the CTX pump series allows bigger flexibility in terms of the adaptation to different application conditions. This also means higher versatility of the pump with quick and easy upgrade options. The interchangeability of the parts between pump types and sizes makes the pump maintenance cheaper and easier to manage.



Open impeller

CTX series pumps have **robust**, **high efficiency** and **low NPSH design** open impellers.

The adjustment of CTX pumps performance to concrete duty points or ranges could be done by **impellers trimming** at constant speeds or by pump speed adjustment at constant impeller diameters.

CTX range open impellers are easily cleanable and suitable for pumping liquids also with **suspended solids**.

Pump size	Impeller diameter					
	Max.	Min.				
CTX 40-165	165	120				
CTX 50-145	145	115				
CTX 50-200	200	160				
CTX 65-175	175	130				
CTX 65-230	230	170				
CTX 65-240	240	190				
CTX 80-205	205	155				
CTX 80-212	212	160				
CTX 80-260	260	195				
CTX 100-230	230	170				



Designed for quality performance

Hygienic mechanical seal arrangement

Single mechanical seal

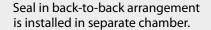
The seal spring is not in contact with the medium what makes seal wetted area fully cleanable.



Double mechanical seal

The seal is applied:

- when the fluid and its vapors are hazardous to the operator or environment, and must be contained
- when aggressive media are used at high pressures or temperatures
- for many polymerizing, crystalizing media.







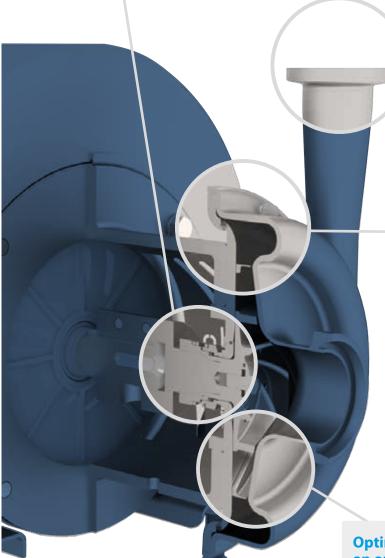
Variety of connections

CTX H Hygienic execution - DIN 11851, DIN 32676 and other (on request).

CTX I Industrial execution - flanged connections according to EN 1092-1 type11, ANSI 150 Lbs. Other connection types on request.







Casing available in Ra<0.5

>> Hygienic CTX H wetted parts electropolished to Ra<0.8 μm as standard (Ra<0.5 μm on request), external surfaces glass blasted to Ra<3.2 μm.



>> Industrial CTX I glass blasted Ra<3.2 µm of the wetted parts and the external surfaces.



Optimized casing and impeller design for an outstanding performance

The shapes of the chamber and the impeller are an outcome of an advanced multivariate analysis and numerous performance tests.

Both these elements were designed and optimized to deliver the most efficient working parameters.

CTX H- hygienic series

Materials, data and limits

Casing	AISI 316L stainless steel wetted parts: electropolished to Ra<0.8 μm
Impeller	Stainless steel AISI 316L electropolished to Ra<0.8 μm
Mechanical seal	Single, SiC/carbon (std) or SiC/SiC, FDA approved Double, SiC/carbon (std) or SiC/SiC, FDA approved
O-rings	EPDM, FKM, NBR (all FDA approved)
Motor*	IEC standard, 3-phase, 2-pole/4-pole, IP55
Pressure rating @ 20°C	PN10 – CTX 40-165, CTX 50-145, CTX 50-200, CTX 65-175 PN16 – CTX 65-230, CTX 65-240, CTX 80-205, CTX 80-212, CTX 80-260, CTX 100-230
Liquid temp.	-10 °C +120 °C (140 °C for short periods during SiP)
Ambient temp.	-20 °C +40 °C
Viscosity	max ~150 cSt

^{*}other motor options available on request

Connection dimensions

Model	DIN 11851 thread (std.)		DIN 32676 clamp		SMS3017 clamp		SMS 1145 thread		RJT thread	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
CTX 40-165	DN40	DN32	DN40	DN32	38	33.7	38	32	1 ½"	1 1/4"
CTX 50-145	DN50	DN40	DN50	DN40	51	38	51	38	2"	1 ½"
CTX 50-200	DN50	DN40	DN50	DN40	51	38	51	38	2"	1 ½"
CTX 65-175	DN65	DN50	DN65	DN50	63.5	51	63.5	51	2 1/2"	2"
CTX 65-230	DN65	DN50	DN65	DN50	63.5	51	63.5	51	2 ½"	2"
CTX 65-240	DN65	DN40	DN65	DN40	63.5	38	63.5	38	2 1/2"	1 ½"
CTX 80-205	DN80	DN50	DN80	DN50	76.1	51	76	51	3"	2"
CTX 80-212	DN80	DN65	DN80	DN65	76.1	63.5	76	63.5	3"	2 1/2"
CTX 80-260	DN80	DN65	DN80	DN65	76.1	63.5	76	63.5	3"	2 1/2"
CTX 100-230	DN100	DN80	DN100	DN80	101.6	76.1	101.6	76	4"	3″

Options and special executions



Built-on inverter

This is easiest and most flexible way of changing pump working parameters. In addition, the pump and motor are protected from overloading and a soft-start function is included.



Adjustable feet

The solution allows easy cleaning of the surface underneath the pump. It can also prove useful when there is a need to move the pump to a different location.



Inducer

The inducer increases inlet pressure thus lowering the NPSHr of the pump. This option is very easy to accommodate even in existing pumps as only the inducer has to be screwed onto the impeller.



Hygienic connections

The hygienic CTX H pumps are equipped with a wide range of connections such as: DIN 11851, DIN 32676, SMS3017, SMS 1145, RJT and other.



Hygienic shroud

The hygienic motor shroud in AISI 304L protects the motor against flooding, deposition of dirt, from spraying water during pump cleaning procedure.

CTX I- industrial series

Materials, data and limits

Casing	AISI 316L stainless steel glass blasted to Ra<3.2 μm
Impeller	AISI 316L stainless steel glass blasted to Ra<3.2 μm
Mechanical seal	Single, SiC/carbon (std) or SiC/SiC, FDA approved Double, SiC/carbon (std) or SiC/SiC, FDA approved
O-rings	EPDM, FKM, NBR (all FDA approved)
Motor*	IEC standard, 3-phase, 2-pole/4-pole, IP55
Pressure rating @ 20°C	PN10 – CTX 40-165, CTX 50-145, CTX 50-200, CTX 65-175 PN16 – CTX 65-230, CTX 65-240, CTX 80-205, CTX 80-212, CTX 80-260, CTX 100-230
Liquid temp.	-10 °C +120 °C (140 °C for short periods during SiP)
Ambient temp.	-20 °C +40 °C
Viscosity	max ~150 cSt

^{*}other motor options available on request



Connection dimensions

Model	BSPT ma	le thread	EN1092-1 f	lange (std.)	ANSI 150 Lbs flange		
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
CTX 40-165	1 ½"	1 1⁄4″	DN40	DN32	1 ½"	1 1/4"	
CTX 50-145	2"	1 ½"	DN50	DN40	2"	1 ½"	
CTX 50-200	2"	1 ½"	DN50	DN40	2"	1 ½"	
CTX 65-175	2 1/2"	2"	DN65	DN50	2 1/2"	2"	
CTX 65-230	2 1/2"	2"	DN65	DN50	2 1/2"	2"	
CTX 65-240	2 1/2"	1 ½"	DN65	DN40	2 1/2"	1 ½"	
CTX 80-205	3"	2"	DN80	DN50	3"	2"	
CTX 80-212	3"	2 1/2"	DN80	DN65	3"	2 1/2"	
CTX 80-260	3"	2 1/2"	DN80	DN65	3"	2 1/2"	
CTX 100-230	4"	3″	DN100	DN80	4"	3″	

Options and special executions



Built-on inverter

This is easiest and most flexible way of changing pump working parameters. In addition, the pump and motor are protected from overloading and a soft-start function is included.





Industrial flanged connections

The industrial CTX I pumps are equipped with connections according to EN 1092-1 type11, ANSI 150 Lbs. Other connection types on request



Adjustable feet

The solution allows easy cleaning of the surface underneath the pump. It can also prove useful when there is a need to move the pump to a different location.



Mounting brackets

Complete pump unit may be assembled on a baseplate which can be firmly, permanently fixed to the foundation

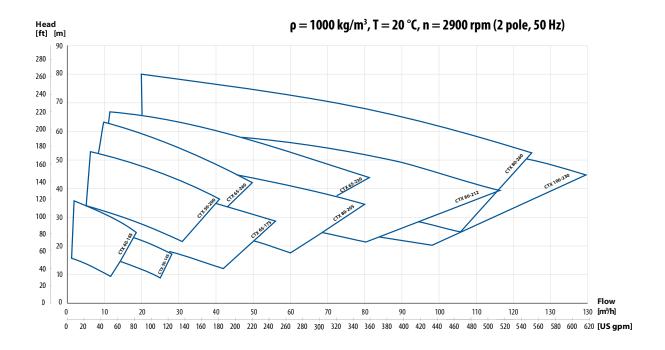


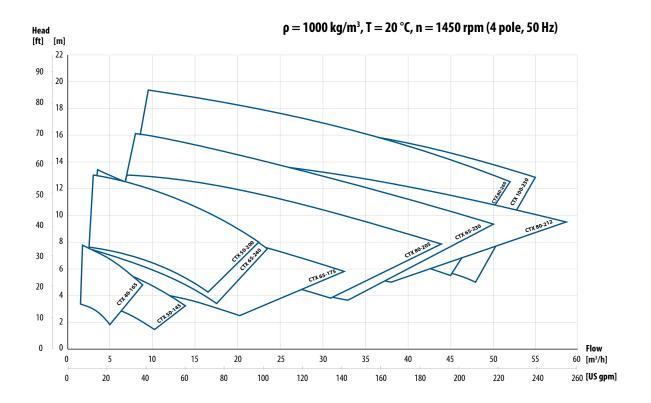
Inducer

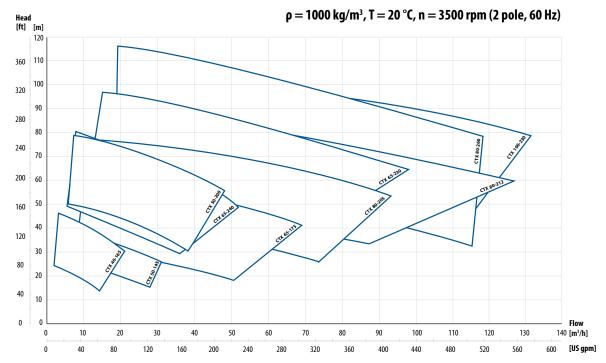
The inducer increases inlet pressure thus lowering the NPSHr of the pump. This option is very easy to accommodate even in existing pumps as only the inducer has to be screwed onto the impeller.

Performance curves

The performance curves are based on water.







Available motor powers

2-pole motor	40-165	50-145	50-200	65-175	65-230	65-240	80-208	80-212	80-260	100-230
Motor power [kW]	1.5; 2.2; 3;	4; 5.5; 7.5	3; 4; 5.5; 7.5;	11; 15; 18.5	5.5; 7.5; 11; 15; 18.5; 22; 30; 37; 45					
4-pole motor	40-165	50-145	50-200	65-175	65-230	65-240	80-208	80-212	80-260	100-230
Motor power [kW]	1.5		2.2		5.5					

CTXS - self-priming series

hygienic and industrial

Thanks to its self-priming capability, the pump can be used in situations where a dry suction lift is necessary. As the standard CTX pump is not capable of generating negative pressure, by a simple modification, we can allow the pump to lift the liquid from up to 5 m. To maintain a liquid ring inside the pump after the initial filling, the return pipe will re-circulate the liquid from the discharge side of the pump.



Certificates may vary depending on material execution of particular product.

Features



Self-priming - up to 5 m



Easy maintenance and cleaning

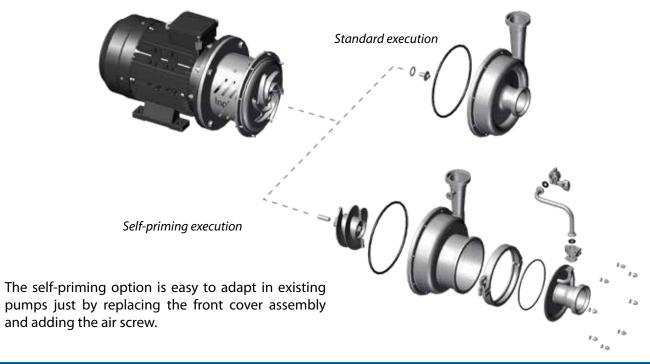


Hygienic and Industrial solution



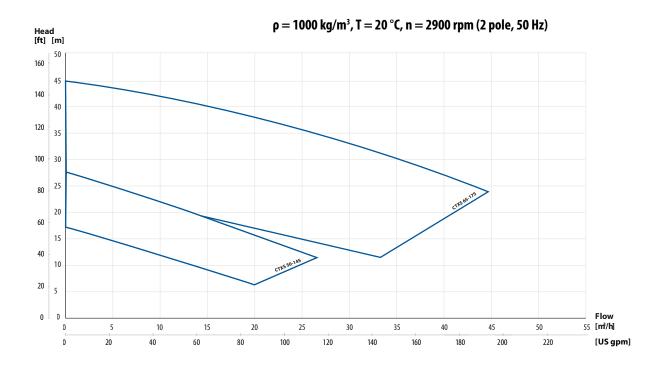
Simple and compact design

Comparison of standard and self-priming execution.



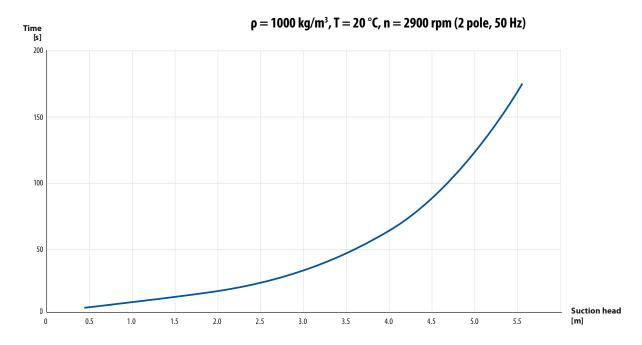
Performance curves

The performance curves are based on water.



Suction curves

The suction curve is based on water.





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We began our journey in 1980 in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.

Since the foundation, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.

Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

One thing did not change - we are still a family company.

Tapflo products and services are available worldwide.

Tapflo is represented by own Tapflo Group Companies and carefully selected distributors assuring highest Tapflo service quality for our customers' convenience.

australia | austria | azerbaijan | bahrain | belgium | bosnia | brazil | bulgaria | canada | chile | china | colombia | croatia | CZECH REPUBLIC | DENMARK | ECUADOR | EGYPT | ESTONIA | FINLAND | FRANCE | GREECE | GEORGIA | GERMANY | HONG-KONG | HUNGARY | iceland | India | Indonesia | Ireland | Israel | Italy | Japan | Jordan | Kazakhstan | Kuwait | Latvia | Libya | Lithuania | Macedonia | MALAYSIA | MEXICO | MONTENEGRO | MOROCCO | NETHERLANDS | NEW ZEALAND | NORWAY | POLAND | PORTUGAL | PHILIPPINES | QATAR | ROMANIA | SAUDI ARABIA | SERBIA | SINGAPORE | SLOVAKIA | SLOVENIA | SOUTH AFRICA | SOUTH KOREA | SPAIN | SWEDEN SWITZERLAND | TAIWAN | THAILAND | TURKEY | UKRAINE | UNITED ARAB EMIRATES | UNITED KINGDOM | USA | UZBEKISTAN | VIETNAM

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