



CENTRIFUGAL PUMPS - 50Hz

CT SERIES - 3 PHASE



THE BEGINNING

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 1000 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C.R.I. IS ONE AMONG

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over one million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

THE INFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, all within its own covered area of 150,000 square metres. The production environment is accredited with ISO 9001 & 14001 certifications. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

NEEDLESS TO SAY,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. And, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: "Commitment, Reliability, Innovation".



Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

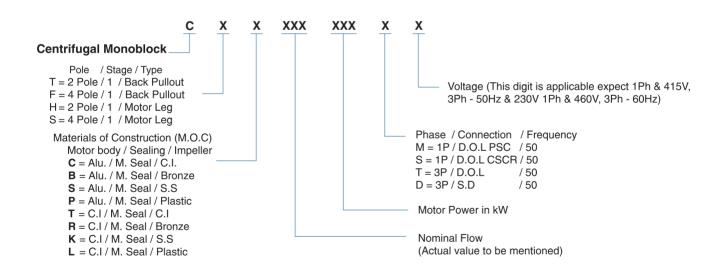
We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability** and **innovation.**

Centrifugal Monoblock Pumps

CT SERIES



MODEL IDENTIFICATION CODE



DESCRIPTION

C.R.I. Centrifugal pump's volute chamber and impellers are carefully designed to give the best possible hydraulic and suction lift characteristics. Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seals and ball bearings to ensure long life. Dynamically balanced rotor ensures vibration and noise free operation. Shaft is made of quality steel, precision ground of ample size for transmitting the rated Horse Power.

SPECIFICATIONS

Power Range (kW)	2.2 kW to 15 kW
Speed	2900 rpm
Degree of Protection	IP 54
Class of insulation	"F" / "B"
Versions	Three Phase, 380-415V, 50Hz A.C Supply
Type of Duty	S1 (Continuous)
Direction of Rotation	Clock wise viewed from driving end
Nominal Delivery & Suction Size	2" x 1½" 2½" x 2" 3" x 2½" 3" x 3" 4" x 3" 4" x 4"
Pole	2

MATERIAL OF CONSTRUCTION

Pump Casing	C.I.
Motor Frame	C.I.
Impeller	C.I. / S.S. / Bronze
Shaft	S.S. 410
Sealing	Mechanical Seal (Carbon & Ceramic)

PUMP OPERATING LIMITS

Maximum Head	75 m / 246 ft
Maximum Suction lift	7 m
Maximum liquid Temperature	50℃
Maximum Ambient Temperature	40°C

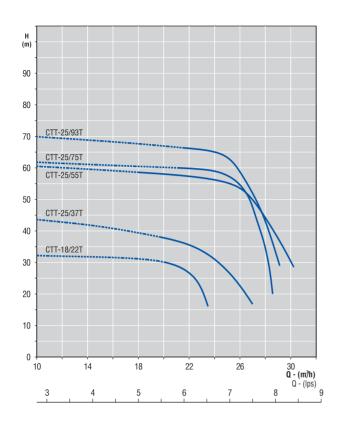
FEATURES

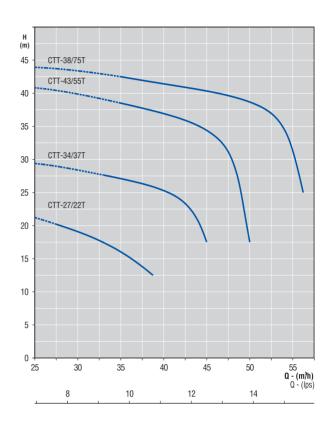
- High operating efficiency resulting in lower power consumption.
- Good suction lift characteristics.
- Dynamically balanced rotating parts including rotor and impeller.
- Balanced and rigid construction.

APPLICATIONS

Residential |Irrigation | Farms |Industrial Water Supply | General Water Supply | Drip and Sprinkler Systems | Water Treatment Plants

CT SERIES





PERFORMANCE CHARTS

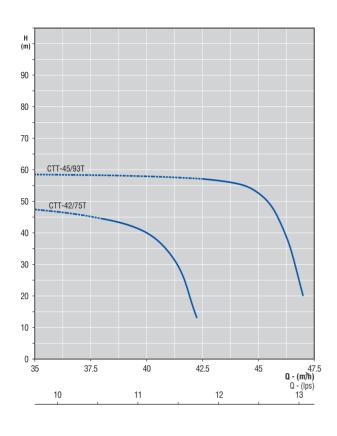
		TOR	NOMINAL				ΓΟΤΑL HEA	D IN METRE	ES (AT TEST	CONDITION	S)			
PUMP	PO1	VER	PUMP SIZE	20	25	30	35	40	45	50	55	60	65	Shut-off Head
MODEL	kW	HP	(Suc x Del)					DISCHAR	GE IN m³/h					rieau
CTT-18/22T	2.2	3.0	2" x 1½"	23.2	22.4	20.0								33 m
CTT-25/37T	3.7	5.0	2" x 1½"	26.6	25.6	24.4	22.4	17.2						45 m
CTT-25/55T	5.5	7.5	2" x 1½"			30.2	29.8	28.7	28.0	27.0	25.2	16.4		64 m
CTT-25/75T	7.5	10	2" x 1½"	28.5	28.4	28.2	28.0	27.6	27.2	26.8	26.0	22.0		65 m
CTT-25/93T	9.3	12.5	2" x 1½"			29	28.7	28.3	27.9	27.2	26.7	25.7	24.0	70 m

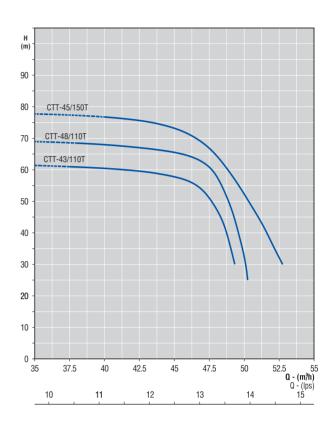
	MO ⁻		NOMINAL				TOTAL HEA	.D IN METRE	ES (AT TEST	CONDITION	S)			
PUMP	POV	VER	PUMP SIZE	10	15	20	25	30	35	40	45	50	55	Shut-off Head
MODEL	kW	HP	(Suc x Del)					DISCHAR	GE IN m³/h					пеац
CTT-27/22T	2.2	3.0	2½" x 2"	38.5 (12.5m)	36.0	28.0								24 m
CTT-34/37T	3.7	5.0	2½" x 2"			44.0	40.5	33 (27.5m)						42 m
CTT-43/55T	5.5	7.5	2½" x 2"			49.5	49.0	48.0	44.0	35.0 (38m)				43 m
CTT-38/75T	7.5	10	2½" x 2"				56.0	55.5	53.5	46.5	35.0 (48m)			50 m

Curve tolerance according to ISO 9906, Annex A.

The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end. In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

CT SERIES



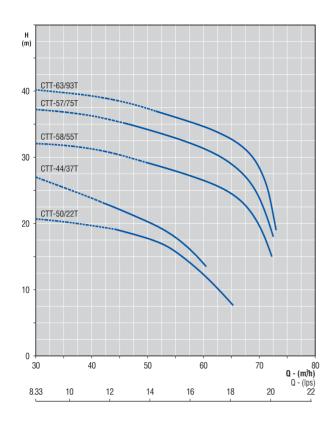


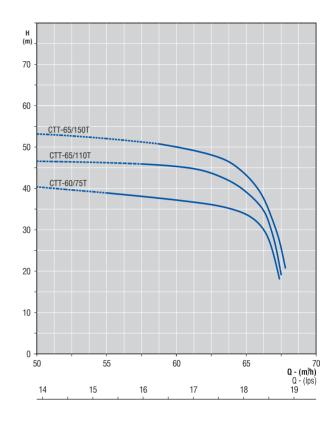
PERFORMANCE CHARTS

D1 11 4D		TOR	NOMINAL				TC	OTAL HE	AD IN ME	ETRES (AT TEST (CONDITIO	NS)				O
PUMP MODEL	PO	WER	PUMP SIZE	10	15	20	25	30	35	40	45	50	55	60	65	70	Shut-off Head
3322	kW	HP	(Suc x Del)						DISCH	HARGE II	N m³/h						ricad
CTT-42/75T	7.5	10	2½" x 2"		42.5	42.0	41.7	41.5	40.5	40.0	37.5						54 m
CTT-45/93T	9.3	12.5	2½" x 2"			47.0	46.7	46.5	46.3	46.2	45.7	45.5	44.0				58 m

	MO		NOMINAL				TC	TAL HE	AD IN ME	ETRES (AT TEST (CONDITIO	NS)				
PUMP MODEL	POV	VER	PUMP SIZE	15	20	25	30	35	40	45	50	55	60	65	70	75	Shut-off Head
MODEL	kW	HP	(Suc x Del)						DISCH	HARGE II	N m³/h						rieau
CTT-43/110T	11	15	2½" x 2"				49.2	49.0	48.7	48.2	47.7	46.5	41.2				64 m
CTT-48/110T	11	15	2½" x 2"			50.2	50.0	49.7	49.5	49.2	49.0	48.2	47.7	45.5			68 m
CTT-45/150T	15	20	2½" x 2"				52.7	52.2	51.5	51.0	50.2	49.5	48.7	48.0	46.5	43.7	78 m

CT SERIES



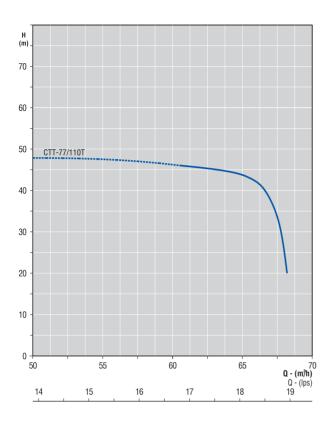


PERFORMANCE CHARTS

		TOR	NOMINAL					ТО	TAL H	EAD IN	METR	ES (AT	TEST C	ONDITIC	NS)					0) , "
PUMP MODEL	PO1	VER	PUMP SIZE	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45	Shut-off Head
WODLL	kW	HP	(Suc x Del)							DIS	CHAR	GE IN n	n³/h							Head
CTT-50/22T	2.2	3.0	3" x 2½"	65.5	62.5	59.5	56.0	51.0												20 m
CTT-44/37T	3.7	5.0	3" x 2½"				59.0	55.5	51.0	44.0										29 m
CTT-58/55T	5.5	7.5	3" x 2½"				72.0	71.0	70.0	67.5	64.0	56.5	46.5							34 m
CTT-57/75T	7.5	10.0	3" x 2½"					72.5	71.5	70.5	69.0	67.0	63.0	56.5	47.0					39 m
CTT-63/93T	9.3	12.5	3" x 2½"						73.0	72.0	71.5	70.5	69.0	65.5	59.0	49.5				44 m

	MO ⁻	TOR	NOMINAL					ТО	TAL HE	EAD IN	METRE	ES (AT	TEST C	ONDITIC	NS)					a
PUMP MODEL	POV	VER	PUMP SIZE	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	Shut-off Head
MODEL	kW	HP	(Suc x Del)							DIS	CHAR	GE IN n	n³/h							ricad
CTT-60/75T	7.5	10.0	3" x 2½"			67.5	67.0	66.8	66.5	66.2	66.0	65.5	64.0	59.5						42 m
CTT-65/110T	11.0	15.0	3" x 2½"				67.5	67.4	67.2	67.0	66.7	66.5	66.0	65.5	64.5	63.5	61.0			50 m
CTT-65/150T	15.0	20.0	3" x 2½"					67.7	67.5	67.3	67.1	66.7	66.5	66.2	66.0	65.0	64.5	63.0	60.0	61 m

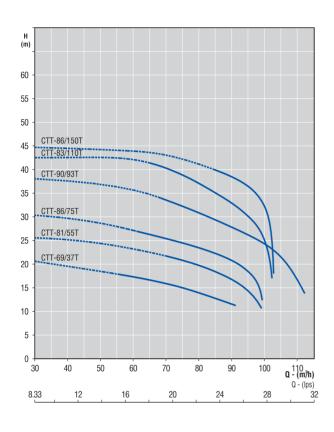
CT SERIES

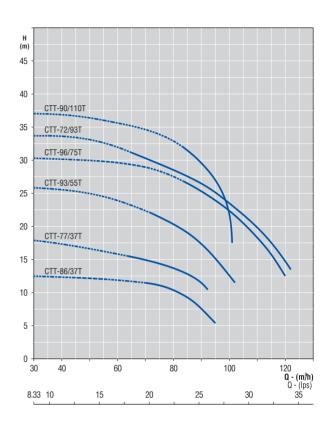


PERFORMANCE CHARTS

		TOR	NOMINAL			TOTA	L HEAD IN I	METRES (AT	TEST CONDI	TIONS)					
PUMP MODEL	PO\	WER	PUMP SIZE	20	25	30	35	40	45	50	55	60	Shut-off Head		
MODEL	kW	HP	(Suc x Del)	DISCHARGE IN m³/h											
CTT-77/110T	11	15.0	3" x 3"	68.2	68.0	67.7	67.3	66.7	63.0				50 m		

CT SERIES





PERFORMANCE CHARTS

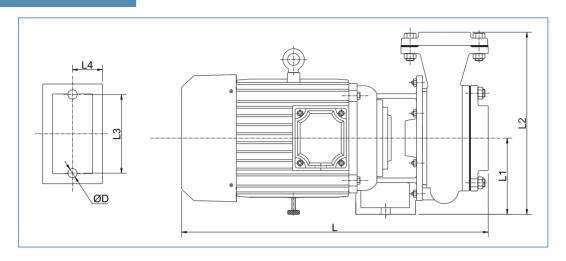
	MO ⁻	TOR	NOMINAL					TOTA	AL HEAI	D IN ME	TRES	(AT TES	T CONDI	TIONS)					
PUMP	POV	WER	PUMP SIZE (Suc x Del)	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45	Shut-off Head
MODEL	kW	HP	(Suc x Dei)							DISCH	IARGE	IN m³/h							ricad
CTT-69/37T	3.7	5.0	4" x 3"	92.0 (11m)	86.0	75.0	58.0	50.0 (18.5m)											21 m
CTT-81/55T	5.5	7.5	4" x 3"	99.5	97.5	94.0	88.0	79.0	65.0	60.0 (23m)									24 m
CTT-86/75T	7.5	10	4" x 3"		99.5	98.5	96.5	92.0	84.0	72.0	60.0								31 m
CTT-90/93T	9.3	12.5	4" x 3"			111.5	109.5	107.0	103.5	98.0	91.0	83.0	74.0	64.0					38 m
CTT-83/110T	11	15.0	4" x 3"				102.5	102.0	101.0	100.0	98.5	95.0	91.0	85.0	79.0	71.0			43 m
CTT-86/150T	15	20.0	4" x 3"					103.0	102.5	102.0	101.5	101.0	100.0	97.0	93.0	85.0	74.0		45 m

		TOR	NOMINAL					TOTA	AL HEAD	O IN ME	TRES (AT TES	T CONDI	TIONS)					
PUMP	PO1	NER -	PUMP SIZE	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	Shut-off Head
MODEL	kW	HP	(Suc x Del)							DISCH	IARGE I	N m³/h							Heau
CTT-86/37T	3.7	5.0	4" x 4"	95.0	90.0	82.0	70.0 (11.5m)												17 m
CTT-77/37T	3.7	5.0	4" x 4"			93.0	86.0	70.0	58.0 (16m)										19 m
CTT-93/55T	5.5	7.5	4" x 4"				100.0	95.0	90.0	82.0	69.0								26 m
CTT-96/75T	7.5	10	4" x 4"				120.0	116.0	112.0	106	100.0	91.0	80.0						30 m
CTT-72/93T	9.3	12.5	4" x 4"					120.0	115.0	110.0	103.0	95.5	85.0	72.0					35 m
CTT-90/110T	11	15	4" x 4"						101.0	100.5	99.5	97.5	94.0	89.0	81.0				39 m

Curve tolerance according to ISO 9906, Annex A.

The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end. In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

DIMENSIONAL DRAWING



DIMENSIONAL DATA

PUMP MODEL	MOTOR POWER	DNs	DNd	L	L1	L2	L3	L4	ØD	NETT WEIGHT
	kW	Inc	hes	mm						kg
CTT-18/22T	2.2	2	1½	575.0	140.0	347.50	130.0	56	18.50	62.0
CTT-25/37T	3.7	2	1½	575.0	140.0	347.50	130.0	56	18.50	77.0
CTT-25/55T	5.5	2	1½	600.0	151.0	360.00	158.0	60	18.50	93.0
CTT-25/75T	7.5	2	1½	650.0	151.0	361.00	158.0	60	18.50	103.0
CTT-25/93T	9.3	2	1½	650.0	191.0	420.00	158.0	60	18.50	108.0
CTT-27/22T	2.2	21/2	2	575.0	140.0	347.50	130.0	56	18.50	62.0
CTT-34/37T	3.7	21/2	2	575.0	140.0	312.50	130.0	56	18.50	77.0
CTT-43/55T	5.5	21/2	2	600.0	151.0	359.00	158.0	60	18.50	93.0
CTT-38/75T	7.5	21/2	2	650.0	151.0	359.00	158.0	60	18.50	103.0
CTT-42/75T	7.5	21/2	2	650.0	151.0	359.00	158.0	60	18.0	103.0
CTT-45/93T	9.3	21/2	2	650.0	195.0	420.50	158.0	60	18.50	108.0
CTT-43/110T	11.0	21/2	2	710.0	195.0	440.00	185.0	62	18.50	113.0
CTT-48/110T	11.0	21/2	2	710.0	195.0	440.00	185.0	62	18.50	113.0
CTT-45/150T	15.0	21/2	2	710.0	195.0	440.00	185.0	62	18.50	162.0
CTT-50/22T	2.2	3	21/2	575.0	140.0	347.50	130.0	56	18.50	62.0
CTT-44/37T	3.7	3	21/2	575.0	140.0	347.50	130.0	56	18.50	77.0
CTT-58/55T	5.5	3	21/2	600.0	151.0	377.00	158.0	60	18.50	93.0
CTT-57/75T	7.5	3	21/2	650.0	151.0	377.00	158.0	60	18.50	103.0
CTT-60/75T	7.5	3	21/2	650.0	151.0	377.00	158.0	60	18.50	103.0
CTT-63/93T	9.3	3	21/2	650.0	195.0	420.00	158.0	60	18.50	108.0
CTT-65/110T	11.0	3	21/2	710.0	195.0	427.50	185.0	62	18.50	113.0
CTT-65/150T	15.0	3	21/2	710.0	195.0	427.50	185.0	62	18.50	162.0
CTT-77/110T	11.0	3	3	710.0	195.0	427.50	185.0	62	18.50	113.0
CTT-69/37T	3.7	4	3	575.0	140.0	312.50	130.0	56	18.50	77.0
CTT-81/55T	5.5	4	3	600.0	151.0	365.50	158.0	60	18.50	93.0
CTT-86/75T	7.5	4	3	650.0	151.0	365.50	158.0	60	18.50	130.0
CTT-90/93T	9.3	4	3	650.0	195.0	409.50	158.0	60	18.50	108.0
CTT-83/110T	11.0	4	3	710.0	195.0	427.50	185.0	62	18.50	113.0
CTT-86/150T	15.0	4	3	710.0	195.0	440.00	185.0	62	18.50	162.0
CTT-86/37T	3.7	4	4	575.0	140.0	312.50	130.0	56	18.50	77.0
CTT-77/37T	3.7	4	4	575.0	140.0	312.50	130.0	56	18.50	77.0
CTT-93/55T	5.5	4	4	600.0	151.0	361.00	158.0	60	18.50	93.0
CTT-96/75T	7.5	4	4	650.0	151.0	361.00	158.0	60	18.50	103.0
CTT-72/93T	9.3	4	4	710.0	195.0	436.00	185.0	60	18.50	108.0
CTT-90/110T	11.0	4	4	710.0	195.0	427.50	185.0	62	18.50	113.0

WINNING WAYS

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.





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