

Centrifugal Monoblock Pumps

CT SERIES



DESCRIPTION

C.R.I. Centrifugal Monoblock pump's volute chamber and impellers are carefully designed to give the best possible hydraulic efficiency 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 ensure vibration and noise free operations. Shaft is made of quality steel, precision ground of ample size for transmitting the rated Horse power

SPECIFICATIONS

Power Range	: 0.37kW-2.2kW, Single Phase & Three Phase
Speed	: 2900 rpm.
Degree of Protection	: IP 44 / IP 54
Class of Insulation	: 'B' / 'F'
Versions	: Single phase - 230V, 50Hz, A.C. Supply (Permanent split capacitor-PSC) Incorporated with Thermal Overload Protector. Three phase - 380-415V, 50Hz A.C. supply
Type of Duty	: S1 (Continuous).
Direction of Rotation	: Clockwise viewed from driving end.
Nominal Delivery Size	: 1" to 3"
Nominal Suction Size	: 1" to 3"
Connection	: Screw / Flange type (BSP)

MATERIALS OF CONSTRUCTION

Pump Casing	: Cast Iron
Motor Frame	: Aluminium
Impeller	: Brass / Cast Iron / S.S
Shaft	: S.S 410 / S.S 304 + Carbon Steel
Sealing	: Mechanical Seal (Carbon & Ceramic)

PUMP OPERATING LIMITS

Maximum Head	: 51m / 167 ft
Maximum Suction Lift	: Upto 7m
Maximum Liquid Temperature	: 40°C
Maximum Ambient Temperature	: 55°C

FEATURES

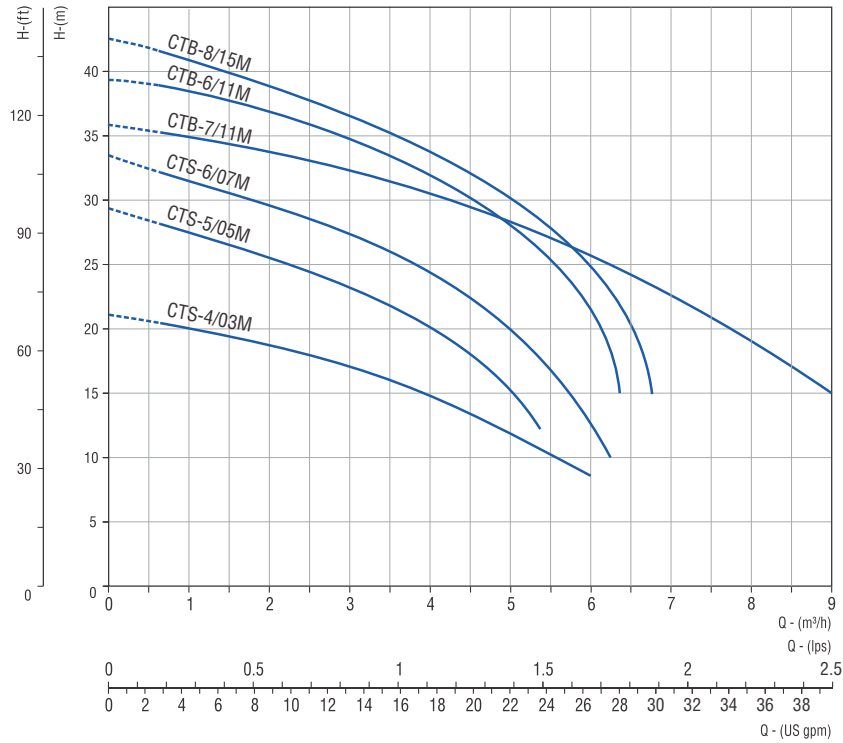
- High Operating efficiency resulting in lower power consumption.
- Good suction lift characteristics.
- Dynamically balanced rotating parts.
- Balanced and rigid construction.
- Inbuilt thermal overload protector in all single phase pumps.

APPLICATIONS

Residential, Irrigation, Farms, Industrial Water Supply, General Water Supply, Drip & Sprinkler Systems and Water treatment plants.

PERFORMANCE CURVES

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PERFORMANCE CHARTS

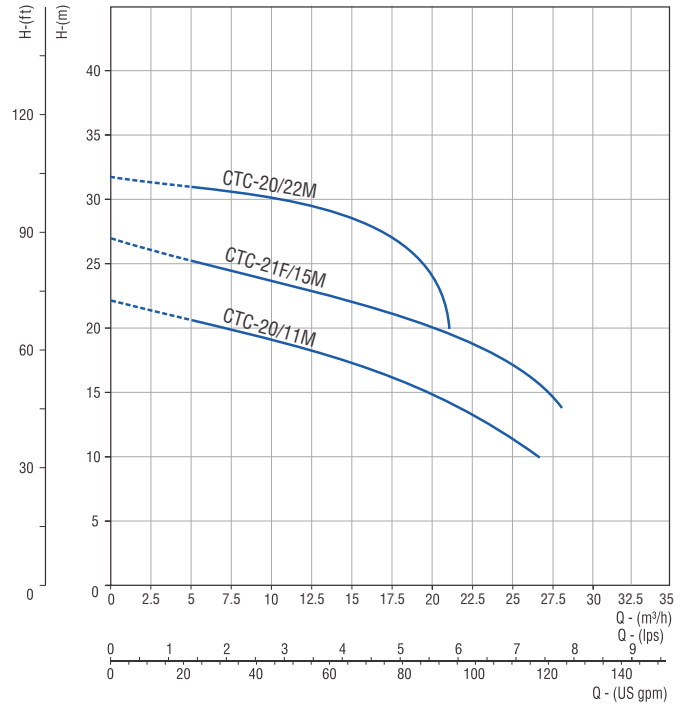
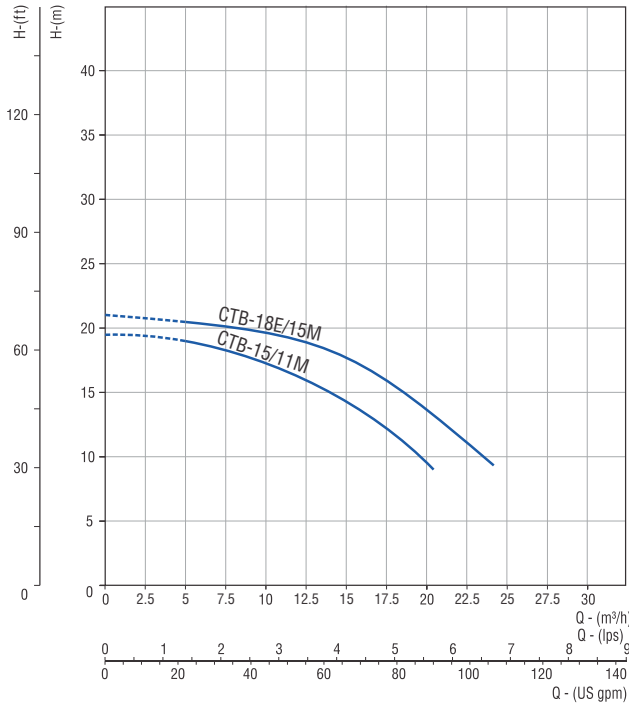
PUMP MODEL	MOTOR POWER		RATED CURRENT(A)		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h							
						0	0.3	0.6	0.8	1.1	1.4	1.7	1.9
						0	1	2	3	4	5	6	7
						TOTAL HEAD IN METRES							
CTS-4/03M	0.37	0.5	4.6	1.6	1 x 1	21	20	18.5	17	15	12	8.5	
CTS-5/05M	0.55	0.75	5.5	2	1 x 1	29	27.5	26	23	20	15	12 (5.4m³/h)	
CTS-6/07M	0.75	1.0	6.4	2.5	1 x 1	33	32	29.5	27.5	24	20	18	10 (6.2m³/h)
CTB-6/11M	1.1	1.5	8.85	2.65	1 x 1	39	38	37	34.5	32	28	22	15 (6.3m³/h)
CTB-8/15M	1.5	2.0	9.38	3.51	1 x 1	43	42	38.5	37	33	30	25	15 (6.7m³/h)

PUMP MODEL	MOTOR POWER		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h									
				0	0.6	0.8	1.1	1.4	1.7	1.9	2.2	2.5	
				0	2	3	4	5	6	7	8	9	
				TOTAL HEAD IN METRES									
CTB-7/11M	1.1	1.5	1¼ x 1	36	33	32	30.5	28	26	22.5	19	15	

Note : The given performance data are common for both single phase & three phase. The last digit of the pump models "M" denotes Single Phase and it will be replaced with "T" in case of Three Phase. In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

PERFORMANCE CURVES

CT SERIES



PERFORMANCE CHARTS

PUMP MODEL	MOTOR POWER		RATED CURRENT(A)		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h							
						0	1.4	2.1	2.8	3.5	4.2	5.6	6.7
	kW	HP	1Ph 230V	3Ph 380V		0	5	7.5	10	12.5	15	20	24
CTB-15/11M	1.1	1.5	7.5	2.8	2 x 2	19.5	18.5	18	17.5	16	14	9.5	
CTB-18E/15M	1.5	2.0	11	4	2 x 2	21	20.5	20	19.5	18.5	17.5	13.5	9

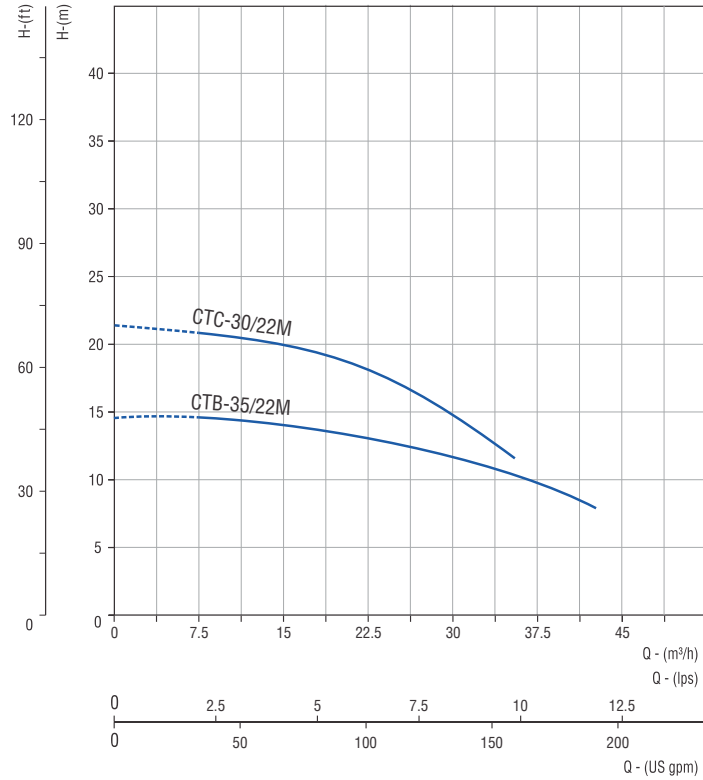
PUMP MODEL	MOTOR POWER		RATED CURRENT(A)		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h										
						0	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7	7.2	7.8
	kW	HP	1Ph 230V	3Ph 380V		0	10	12	14	16	18	20	22	24	26	28
CTC-20/11M*	1.1	1.5	9.5	3	2 x 1½	22	19.2	18	17.7	17	16	15	13.6	12.5	10.4	-
CTC-21F/15M*	1.5	2.0	12.5	4	2 x 2	27	23.8	23	22.5	22	21	20	19	17.5	16	14
CTC-20/22M*	2.2	3.0	18	5.2	2 x 2	32	30	29.5	28.5	27.5	26	24	20 (21m³/h)			

* Flange type Connection

Note : The given performance data are common for both single phase & three phase. The last digit of the pump models "M" denotes Single phase and it will be replaced with "T" in case of three phase. In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

PERFORMANCE CURVES

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PERFORMANCE CHARTS

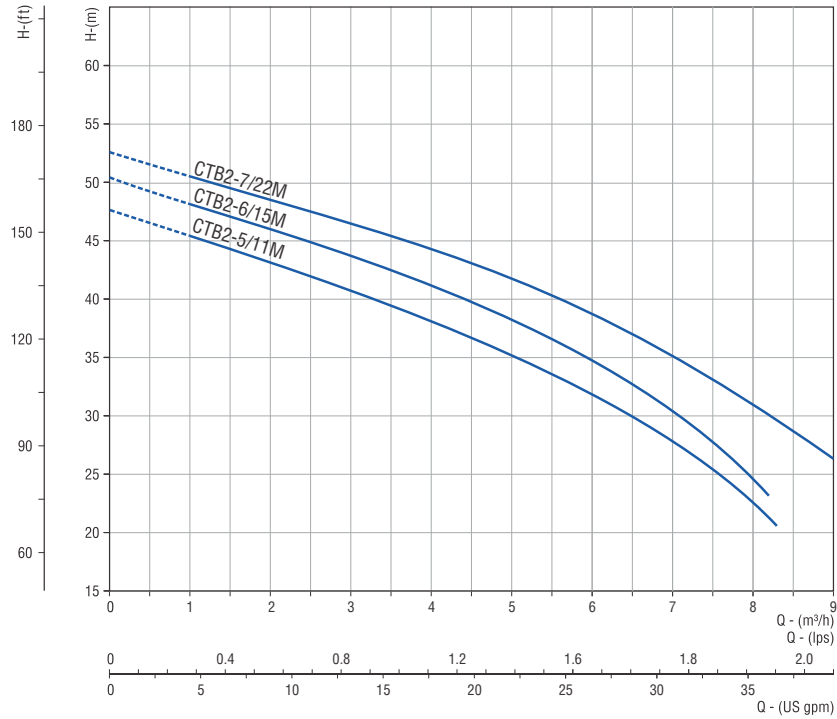
PUMP MODEL	MOTOR POWER		RATED CURRENT(A)		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h									
						0	2.8	4.17	5.56	6.94	8.33	9.72	11.11	12.5	
	kW	HP	1Ph 230V	3Ph 380V		0	10	15	20	25	30	35	40	45	
						TOTAL HEAD IN METRES									
CTC-30/22M*	2.2	3.0	18	5.2	2½ x 2	22	21	20	18.5	17.5	15	13	12 (36m³/h)		
CTB-35/22M	2.2	3.0	14	5.5	3 x 3	14.5	14	13.5	13	12.5	12	10.5	9	8 (42m³/h)	

* Flange type Connection

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PERFORMANCE CURVES

CT SERIES TWIN IMPELLER



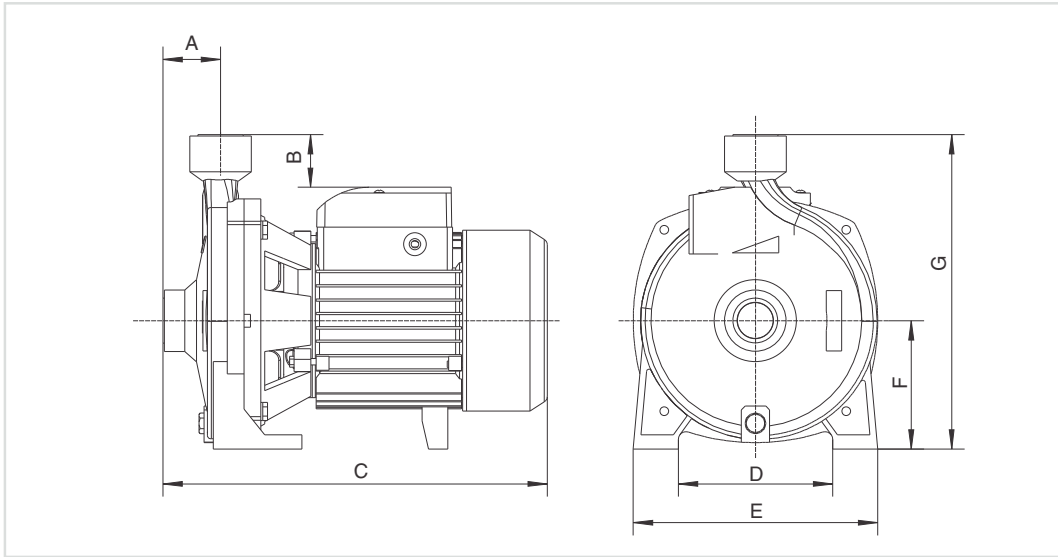
PERFORMANCE CHARTS

PUMP MODEL	MOTOR POWER		RATED CURRENT(A)		NOMINAL PUMP SIZE IN INCHES (Suc x Del)	DISCHARGE IN lps / m³/h									
						0	0.6	0.8	1.1	1.4	1.7	1.9	2.2	2.5	
	kW	HP	1Ph 230V	3Ph 380V		0	2	3	4	5	6	7	8	9	
						TOTAL HEAD IN METRES									
CTB2-5/11M	1.1	1.5	8.32	2.65	1¼ x 1	47.5	43	41	38	35.5	32	27.5	22		
CTB2-6/15M	1.5	2	10.13	4.2	1¼ x 1	50.5	47	43	41	38	35	30	25		
CTB2-7/22M	2.2	3	13.43	5.2	1¼ x 1	52.5	48.5	46	44	42	38.5	35	31	26	

Note : The given performance data are common for both single phase & three phase. The last digit of the pump models "M" denotes Single phase and it will be replaced with "T" in case of three phase. In view of continuous developments the information / performance / descriptions / specifications / Illustrations are subject to change without notice.

DIMENSIONAL DRAWINGS

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DIMENSIONAL DATA

PUMP MODEL	MOTOR POWER		A	B	C	D	E	F	G	APPROX. NETT WT IN Kg
	kW	HP								
CTS-4/03M	0.37	0.5	43	40	300	105	173	95	226	12.00
CTS-5/05M	0.55	0.75	57	45	315	120	192	98	242	13.00
CTS-6/07M	0.75	1.0	57	40	327	120	192	98	242	13.50
CTB-6/11M	1.1	1.5	44	53	360	140	220	115	285	23.00
CTB-7/11M	1.1	1.5	53	50	354	150	234	117	286	33.50
CTB-8/15M	1.5	2.0	44	53	371	140	220	115	283	24.50
CTB-15/11M	1.1	1.5	60	61	378	94	196	110	278	21.20
CTB-18E/15M	1.5	2.0	60	61	378	94	196	110	278	23.50
CTB-35/22M	2.2	3.0	74	78	465	142	240	115	315	39.60
CTC-20/11M*	1.1	1.5	65	-	405	110	200	108	265	26.00
CTC-20/22M*	2.2	3.0	67	-	464	176	232	121	299	38.40
CTC-21F/15M*	1.5	2.0	70	-	430	104	200	108	270	28.60
CTC-30/22M*	2.2	3.0	75	-	440	104	200	108	280	28.75
CTB2-5/11M	1.1	1.5	81	40	392	123	210	111	267	23.50
CTB2-6/15M	1.5	2.0	81	40	392	123	210	111	267	25.00
CTB2-7/22M	2.2	3.0	90	5	450	142	240	140	315	31.00

* Flange type Connection

* All Dimensions are in mm.