



Document Number	Issue Date	Rev. Date
F-2115	06/86	10/29/14

## CX Series Centrifugal Fire Pump Performance Sheet (Speed and Power Data)

Impeller Diameter - 10.00 in.

Pump Model	Pump Test				Impeller Part No.						Performance Curves	
	Capacity		Net Pump Pressure		71830 or 71831 5.87 in. Diameter Eye			71888 or 71896 6.20 in. Diameter Eye				
	GPM	L/min	PSI	bar	Speed (RPM)	Power		Speed (RPM)	Power		Curve	Impeller Part No.
						HP	kw		HP	kw		
CXN, CXR, CXS, CXV	750	2839	150	10	3610	97.5	73	3400	97	72	781007	71830 or 71831
			165	11	3670	107	80	3535	108	81	810304	71888 or 71896
	525	1987	200	14	3928	109	81	3820	119	89		
	375	1420	250	17	4320	127	95	4280	152	113		
	1000	3785	150	10	3758	122	90	3510	117	87		
			165	11	3893	135	100	3650	130	96		
	700	2650	200	14	4028	126	93	3880	131	97		
	500	1893	250	17	4420	143	106	4290	160	119		
	1250	4732	150	10	-	-	-	3690	146	108		
			165	11	-	-	-	3835	161	120		
	875	3312	200	14	-	-	-	3928	148	110		
	625	2366	250	17	-	-	-	4315	170	126		
CXS Only	1500	5678	150	10	-	-	-	4000	185	138		
			165	11	-	-	-	4100	200	149		
	1050	3974	200	14	-	-	-	4000	165	123		
	750	2839	250	17	-	-	-	4350	180	134		

## Series Centrifugal Fire Pump Performance Sheet (Lift and Elevation Data)

Pump Test		Intake Hose Length: 20 Feet (6 Meters)		Pump Models CXN, CXR, CXS and CXV						Pump Model CXS Only		
				71830 or 71831 Impeller (See Note 5)			71888 or 71896 Impeller			71888 or 71896 Impeller		
				Capacity	Net Pump Pressure	Diameter	No. of Intake Hoses	NFPA Standard (10' Lift @ 2000' Alt.) Maximum Allowance for Connection Piping (Hg)	Maximum Lift at Sea Level	Maximum Altitude 10 Foot (3 Meter) Lift	NFPA Standard (10' Lift @ 2000' Alt.) Maximum Allowance for Connection Piping (Hg)	Maximum Lift at Sea Level
750 GPM (2839 L/min)	150 psi (10 bar)	4-1/2 in. (114 mm)	1					-	-	-	3.5 in. (8.9 mm)	13 Feet* (3.9 Meters)
	150 psi (10 bar)	5 in. (127 mm)	1	-	10 Feet* (3 Meters)	2000 Feet (606 Meters)	-	16 Feet* (4.8 Meters)	7290 Feet (2209 Meters)	-	-	-
	150 psi (10 bar)	6 in. (152 mm)	1	-	15 Feet* (4.5 Meters)	6600 Feet (2000 Meters)	-	19 Feet* (5.8 Meters)	11500 Feet (3485 Meters)	-	-	-
1000 GPM (3785 L/min)	150 psi (10 bar)	5 in. (127 mm)	1	-	11 Feet* (3.3 Meters)	1000 Feet (303 Meters)	3 in. (76 mm)	14 Feet* (4.2 Meters)	4000 Feet (1219 Meters)	-	-	-
	150 psi (10 bar)	6 in. (152 mm)	1	-	15 Feet* (5 Meters)	4500 Feet (1364 Meters)	-	19 Feet** (6 Meters)	8000 Feet (2114 Meters)	5.8 in. (147 mm)	19 Feet (5.8 Meters)	8000 Feet (2424 Meters)
1250 GPM (4732 L/min)	150 psi (10 bar)	6 in. (152 mm)	1	-	-	-	1 in. (25 mm)	14 Feet* (4 Meters)	6000 Feet (1818 Meters)	2.5 in. (63.5 mm)	15 Feet (4.5 Meters)	4600 Feet (1394 Meters)
1500 GPM (5678 L/min)	150 psi (10 bar)	6 in. (152 mm)	2	-	-	-	-	-	-	1.6 in. (40.6 mm)	14 Feet (4 Meters)	3600 Feet (1097 Meters)

**NOTES:**

- \* 1. 20 feet of intake hose direct connected to pump intake.
- \*\* 2. 30 feet of intake hose direct connected to pump intake.
- 3. Data show is generally applicable. Performance for a specific configuration of pump may vary from that shown. See Form F-1096.
- 4. Friction loss in hose and strainer is based on data in NFPA Standard No. 1901, 1991 edition, Table 4-1.3.1(b).
- 5. Impellers 71830 and 71831 no longer offered.