Paharpur Cooling Towers Limited

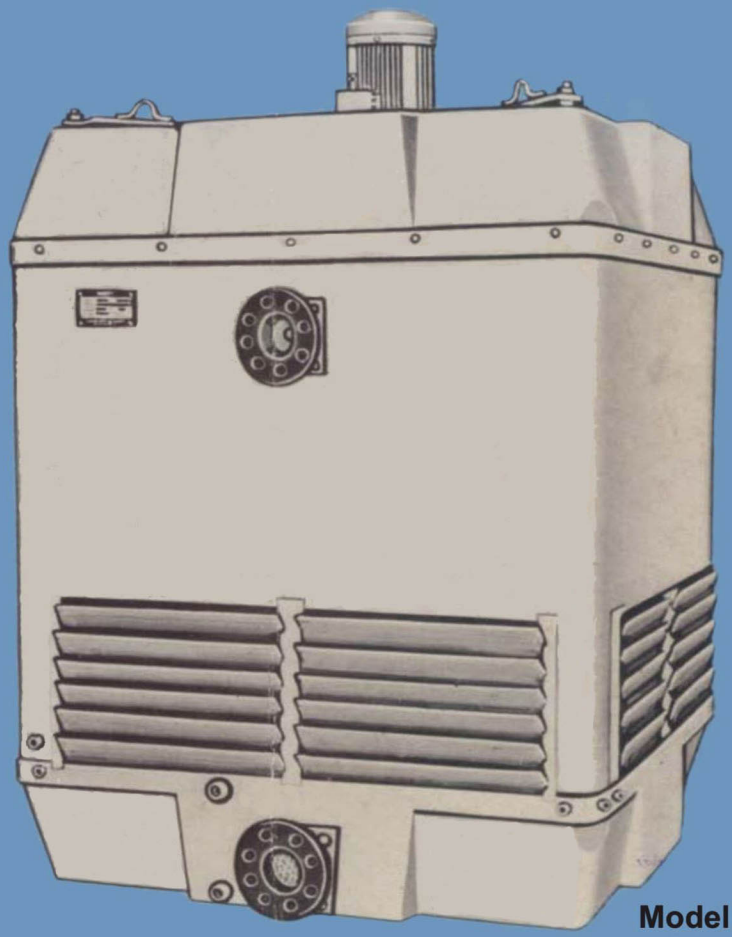
Water Cooling Towers

- 9 packaged units
- 10 ~130 TR Capacity
- Compact Designs

Fibre Glass Counter Flow

Series CF-I

Package Cooling Towers



Model 1688 P

1. Designed and constructed for minimum maintenance and long life.
2. Able to operate in aggressive environments and resistant to water borne contaminants.
3. High efficiency fill gives low pressure loss – economical to run.
4. Aesthetic design.
5. Range of nine models.
6. Packaged design for simple installation.

Paharpur **Series** CF-I Design Concept

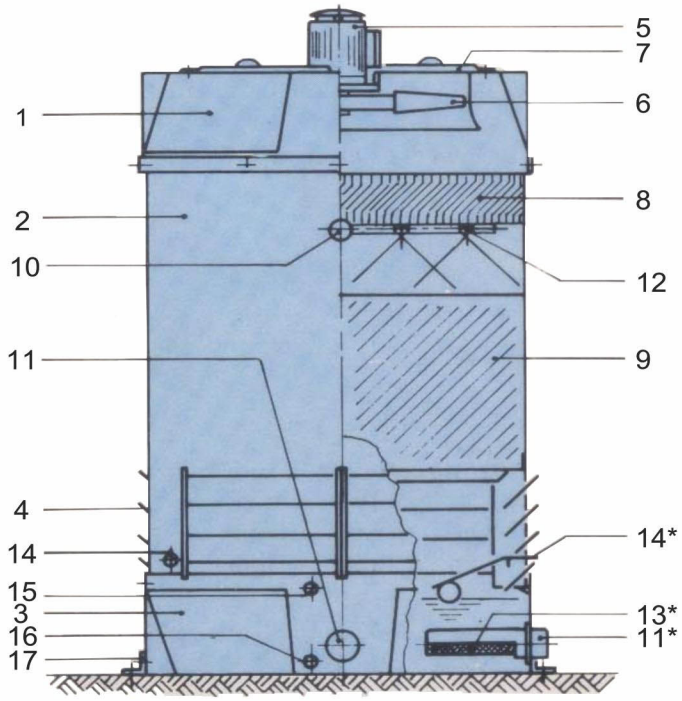
Superior design and constant refinement have made Paharpur's CF-I tower the standard of packaged cooling towers. The series has been designed to meet the high standard demanded by Engineers who require a compact, efficient water cooling tower with a long service life and an aesthetic design.

The tower offers PVC fill and eliminators in a unique design that maximises economy and efficiency. An intricate chevron configuration, conceived, tested and proven by Paharpur's Research and Development team, makes possible to provide maximum cooling in a minimum plan area with lower energy consumption.

All materials used in this series CF-I counter flow cooling towers are chosen specifically for cooling tower application. Fans are direct driven, no V-belts, bearings or gears. Thus maintenance is kept to a minimum.

General Arrangement

1 Top section
2 Casing
3 Cold water basin
4 Air inlet louvres
5 Electric motor
6 Axial fan
7 Motor support with fan guard
8 Drift eliminator
9 Fill
10 Hot water inlet
11 Cold water outlet
12 Hot water distribution
13 Filter
14 Float valve
15 Overflow
16 Drain
17 Fixing bracket



* drawn at 90° for clarity

Construction Materials

Top Section	: Fibreglass Reinforced Plastic	Drift Eliminator	: Rigid PVC
Casing	: Fibreglass Reinforced Plastic	Fan Blades	: Aluminium
C. W. Basin	: Fibreglass Reinforced Plastic	Nozzles and Branch Arm	: Polypropylene
Air Inlet Louvres	: Anodised Aluminium	Motor Support and Fan Guard	: Steel HDG
Fan Cylinder	: FRP integral with top section	H.W. Inlet and C.W. Outlet	: Steel HDG
Fill	: Rigid PVC	Hardware	: Stainless Steel 304

Special Features

- Stationary Distribution Arrangement
- Stainless Steel Hardware
- UV Stabilized PVC Fill and Eliminators

Dimensions

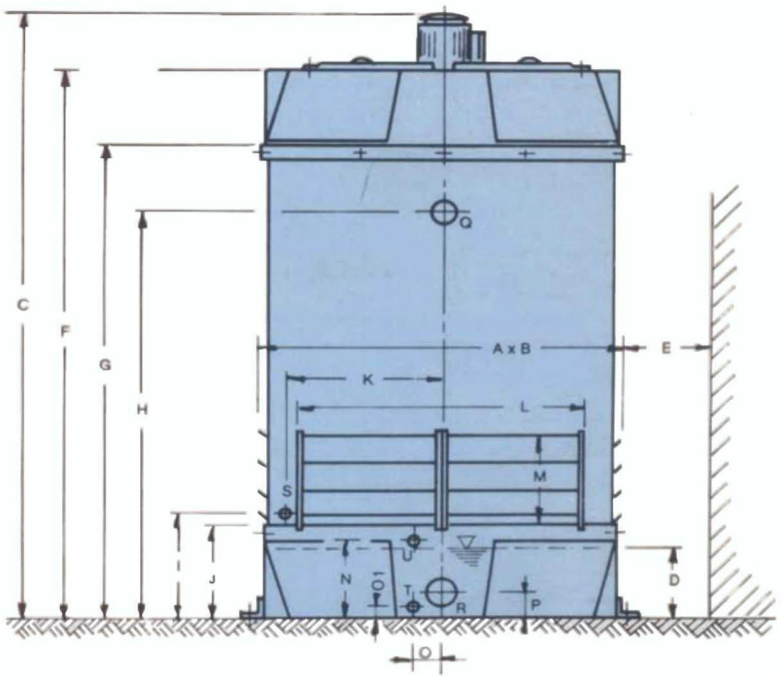
E = minimum distance. For installation in difficult positions please contact Paharpur

Q = hot water inlet flange protruding 95 mm outside

R = cold water inlet flange protruding 95 mm outside

S = float valve

T = drain



Model	Dry Weight	Oper. Weight	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm
668 P	85	190	650	650	2000	150	1500	1762	1582	1370	300	230
868 P	115	240	850	850	2135	170	1500	1858	1685	1440	320	250
1068 P	190	430	1050	1050	2525	220	1500	2160	1910	1685	370	300
1268 P-S	220	600	1250	1250	2635	250	1500	2260	1960	1715	400	350
1268 P	240	630	1250	1250	2635	250	1500	2260	1960	1715	400	350
1468 P	360	895	1450	1450	2795	250	2500	2260	1960	1705	400	350
1668 P	420	1125	1650	1650	2830	250	2500	2295	1995	1740	400	350
1868 P-S	440	1320	1850	1850	2900	250	2500	2410	2060	1790	400	350
1868 P	460	1360	1850	1850	2900	250	2500	2410	2060	1790	400	350

Model	K mm	L mm	M mm	N mm	O mm	O1 mm	P mm	Q (1) ins.	R (1) ins.	S (2) ins.	T (2) ins.	U (2) ins.
668 P	255	476	180	195	95	40	100	2	2 ½	½	1	1
868 P	355	676	180	215	100	40	110	2 ½	3	½	1	1
1068 P	455	809	330	265	100	40	120	3	4	½	1	1
1268 P-S	555	952	330	310	150	40	120	3	4	½	1	1
1268 P	555	952	330	310	150	40	120	3	4	½	1	1
1468 P	655	1172	370	310	200	40	135	4	5	¾	1	1 ½
1668 P	755	1352	405	310	200	40	135	4	5	¾	1	1 ½
1868 P-S	830	1618	405	310	200	40	150	5	6	¾	1	1 ½
1868 P	830	1618	405	310	200	40	150	5	6	¾	1	1 ½

(1) Nominal Dia in inches (2) B.S .P.T. Male connection All Weights in kgs

Technical Data

Model	Nominal TR Capacity	Fan Dia mm	Fan Type	Motor & Fan Speed RPM	Mean Air Quantity M^3/Hr	Motor Capacity KW
668 P	10	482	AF 194 K75	3000	8000	0.75
868 P	20	600	T-4	1500	13100	1.1
1068 P	30	800	H-3-8	1000	17800	2.2
1268 P-S	50	1000	H-3-6	1000	25800	2.2
1268 P	60	1000	H-3-6	1000	31000	3.7
1468 P	75	1219	H-3-6	750	42300	5.5
1668 P	100	1372	H-3-6	750	54400	5.5
1868 P-S	115	1524	H-3-6	750	61900	5.5
1868 P	130	1524	H-3-6	750	70000	7.5

(1) Nominal TR capacity has been computed on the basis of a water circulation rate of 4 USGPM / TR at 97.5-90-83F conditions.

(2) Performance is based upon installation in an outdoor location and absence of nearby structures which might prevent free air movement.

(3) Maximum sound level expected is 85 dBA based on installation in free field conditions.

(4) All models are available in Grey colour normally. Other colours to match environment can be made available at special terms.

The Company's policy of continued improvement may necessitate data to be changed without notice.

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