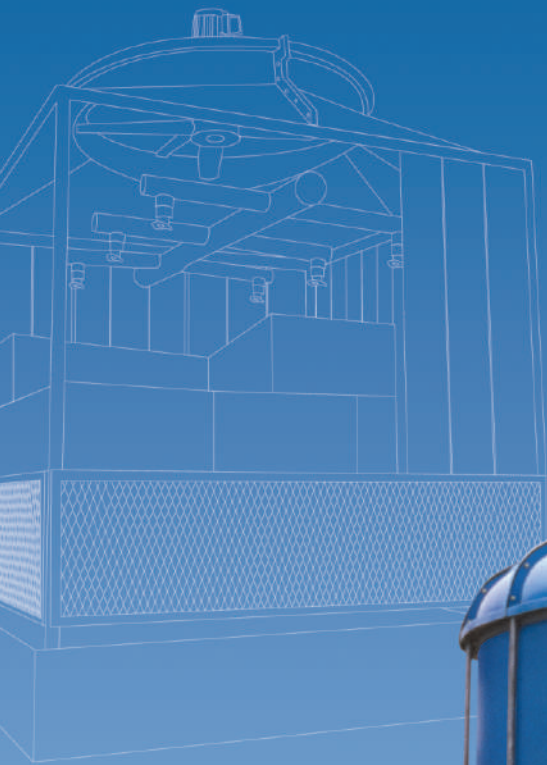


Perfect Cooling Towers

Counter Flow Induced Draft



Perfect
Engineering Works

SQUARE TYPE

Square Type

PS Series

Salient Design Features

- ◆ **Design:** Lightweight & compact provides quick & easy installation. Job site assembly made quicker due to simplified design. The design makes modular expansion possible.
- ◆ **Casing:** Easy access through casing simplifies cleaning. Individual fiberglass are bolted together for periodic wash down & general clean up.
- ◆ **Fan Motor:** Weather proofed & totally enclosed allowing for less noise & more efficient long term performance.
- ◆ **Fills:** The efficiently designed PVC fills creates a surface area that allows for maximum dispersion of water which creates a superior cooling effect.
- ◆ **Basin:** A large capacity durable water basin constructed from rust proof fiberglass reinforced plastic guarantees low maintenance & long term operation.
- ◆ **Optional Accessories:** ABS-PP-HIP fills/Stainless Steel components in SS304 or Ss316 / FRP color / Maintenance platform.



Salient Design Features

- ◆ **Design:** Compact & modular design of all components. Prevailing wind directions will not affect cooling tower performance due to the unique circular design of the basin & casing.
- ◆ **Water Distribution:** A highly efficient rotating sprinkler head system of aluminum alloy is incorporated. The sprinkler pipes are sturdy material pierced with closely spaced holes allowing distribution of water in a rotating spray covering the entire surface of the fills.
- ◆ **Fan Assembly:** Aerodynamically designed adjustable pitch axial flow fans are used to conserve power & assure quiet operation.
- ◆ **Air Inlet Mesh:** Hot dip galvanized mesh provides easy access to sump while preventing foreign objects from entering water basin.
- ◆ **Structure:** The steel components of framework are hot dipped galvanized to minimize the possibility of rust and corrosion.
- ◆ **Optional Accessories:** Discharge Hood/ABS-PP-HIP fills/Stainless Steel components in SS304 or SS316 /FRP color.

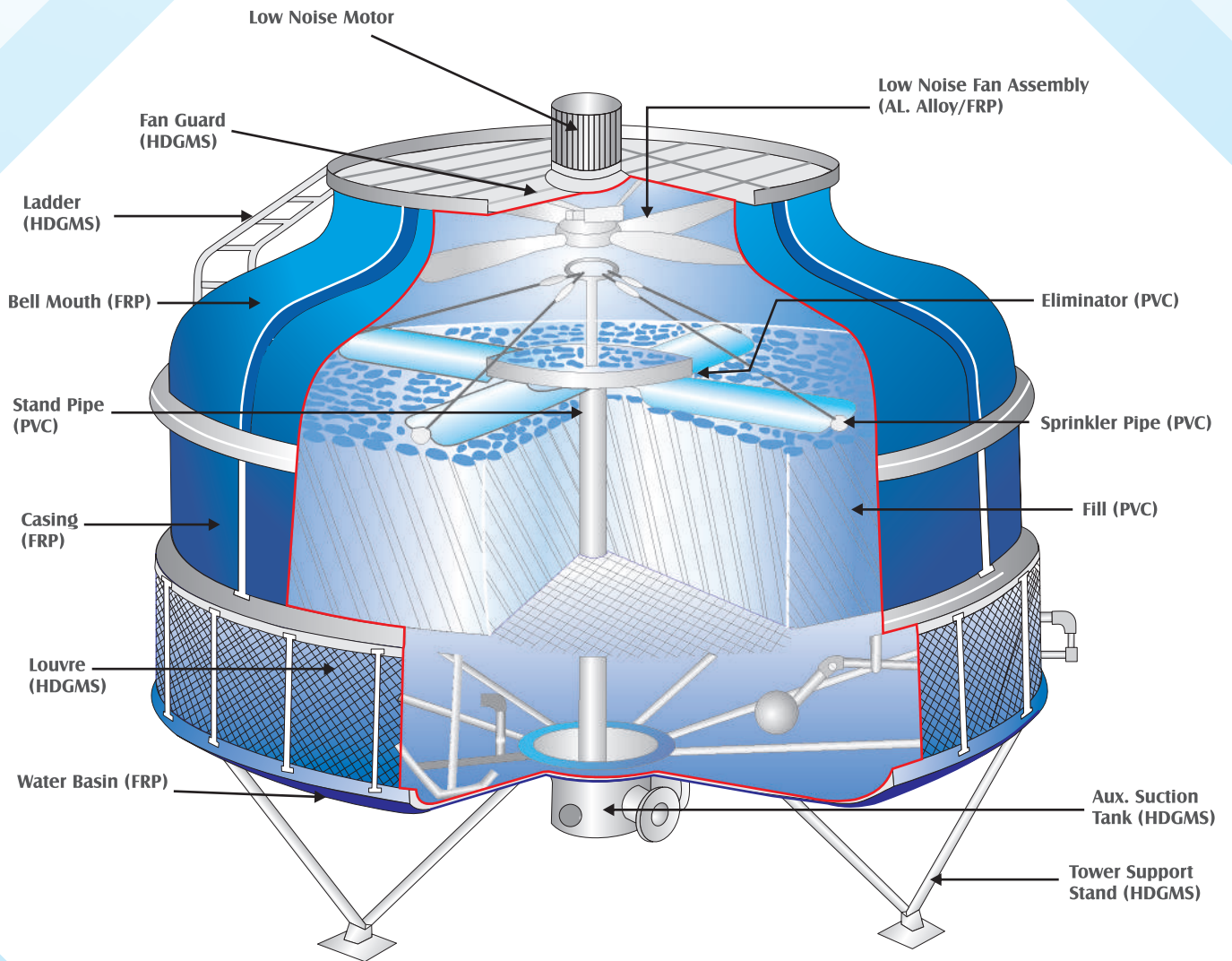


Bottle Type

PC Series



Structural Details



HDGMS: Hot Dip Galvanized Mild Steel

Note: () indicates material used.





BOTTLE TYPE

Bottle Type

PC Series

TISCO, JAMSHEDPUR

Technical Datasheet for Perfect Cooling Towers (PC Series)

MODEL	DIMENSION		FAN MOTOR	FAN DIA	FAN BLADES	AIR VIL.	NOMINAL WATER FLOW	PUMP HEAD		WEIGHT KGS.		PIPE CONNECTION in mm					
	HEIGHT mm	DIA mm	H.P.	MM	NOS.	M ³ /MIN.	Lts/Min	M	DRY	OP.	OUTLET	INLET	OVER FLOW	DRAIN	FLOAT VALVE	QUICK FILLER	
PC-1575	2300	1100	1	750	4	38	75	1.5	50	150	50	50	25	25	15	15	
PC-1585	2300	1100	1	750	4	57	113	1.6	60	170	50	50	25	25	15	15	
PC-1595	2300	1100	1	750	4	75	150	2.0	70	200	50	50	25	25	15	15	
PC-1615	2300	1100	1	750	4	113	225	1.9	95	240	50	50	25	25	15	15	
PC-1635	2700	1500	1	750	4	150	300	2.0	120	280	50	50	25	25	15	15	
PC-1675	2700	1500	2	850	4	225	450	2.8	290	630	50	50	25	25	15	15	
PC-1715	2820	1900	2	850	4	280	600	2.8	300	640	65	65	25	25	20	20	
PC-1755	2820	1900	2	850	6	330	750	2.8	320	660	65	65	25	25	20	20	
PC-1795	3120	2000	3	1200	4	420	900	3.1	400	800	80	80	125	25	20	20	
PC-1875	3120	2000	3	1200	4	540	1200	3.1	410	820	80	80	125	25	20	20	
PC-1955	3520	2900	5	1500	4	750	1500	3.5	770	1390	125	125	125	50	20	20	
PC-2055	3520	2900	5	1500	6	900	1800	3.5	850	1470	125	125	125	50	20	20	
PC-2155	3975	3600	7.5	1800	6	1100	2250	4.2	1150	2100	125	125	125	50	32	32	
PC-2255	3975	3600	7.5	1800	6	1250	2625	4.2	1170	2150	125	125	200	50	32	32	
PC-2355	3975	3600	7.5	1800	6	1400	3000	4.2	1200	2180	125	125	200	50	32	32	
PC-2555	4490	4800	10	2400	4	1750	3750	4.8	1780	4250	200	200	200	50	32	32	
PC-2755	4490	4800	10	2400	4	2200	4500	4.8	1850	4380	200	200	200	50	32	32	
PC-2955	4490	4800	12.5	2400	6	2400	5250	4.8	1920	4430	200	200	200	50	32	32	
PC-3155	4980	4800	15	2400	6	2800	6000	4.8	2420	4940	200	200	200	50	32	32	
PC-3355	4980	4800	15	2400	6	3200	6750	4.8	2480	5010	200	200	200	50	32	32	
PC-3555	5050	5580	20	3000	8	3600	7500	4.8	2940	5200	200	200	200	50	50	50	
PC-3755	5050	5580	20	3000	8	3750	9000	4.8	3370	5840	250	250	200	50	50	50	
PC-5955	5320	5580	20	3000	8	3950	10500	4.8	3520	6300	250	250	200	50	50	50	
PC-6055	5320	5580	30	3000	8	4200	12000	4.8	3820	7500	300	300	200	50	50	50	
PC-6300	5640	6600	30	3400	8	4450	15000	5.2	4260	8610	300	300	200	80	50	50	
PC-6600	5640	6600	30	3400	8	5000	18000	5.2	4740	9090	300	300	200	80	50	50	

ABOVE-MENTIONED DATA ARE BASED ON FOLLOWING DESIGN PARAMETERS:

- WATER INLET TEMP. 36.4°C (97.5°F) • WATER OUTLET TEMP. 32.2°C (90.0°F) • WET BULB TEMP. 28.3°C (83.0°F)
- WATER FLOW: 15 lts/min/ton

Product development is a continuous process in **PERFECT**, hence specification & technical data subject to change without notice

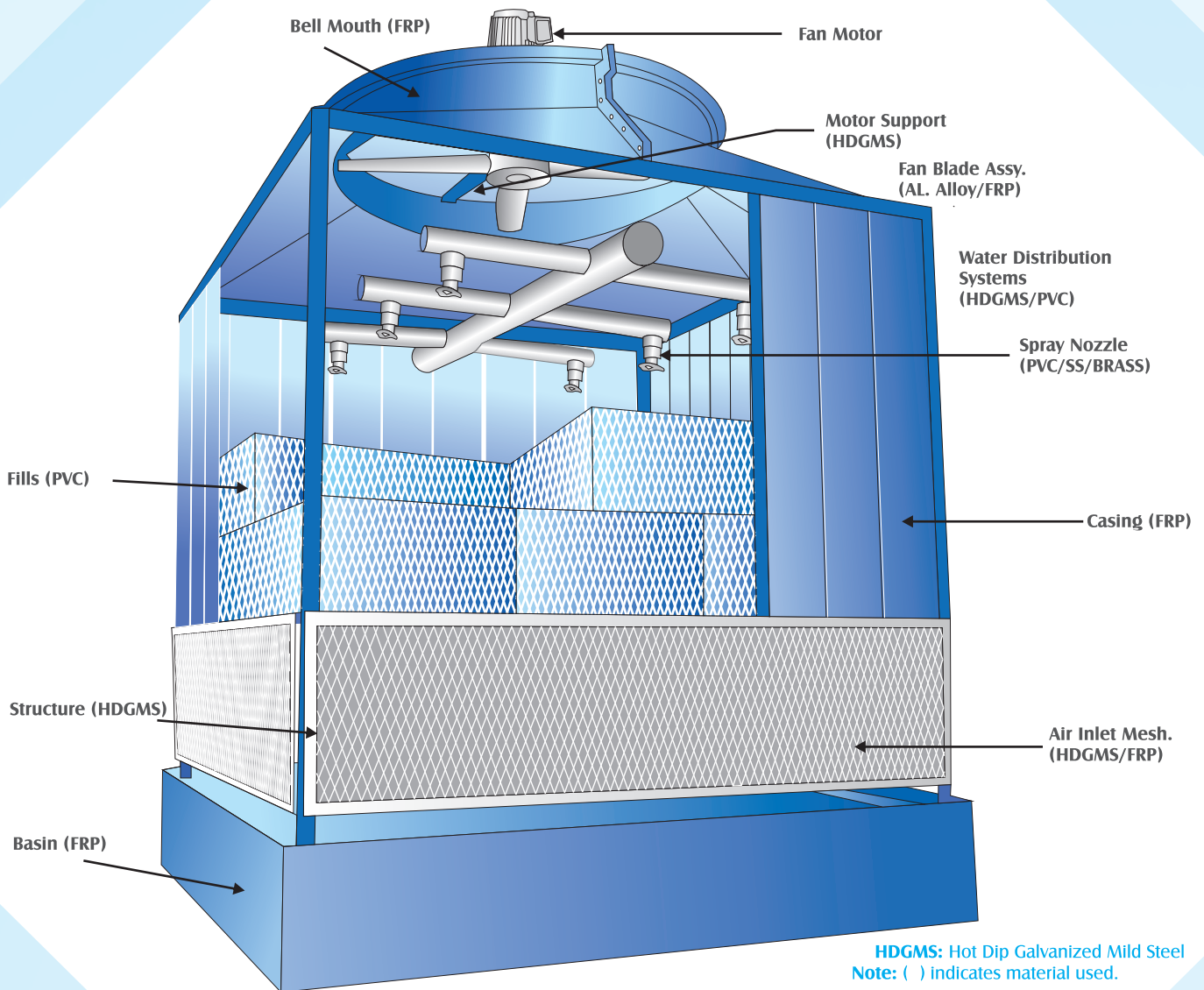
SQUARE TYPE

Square Type

PS Series



Structural Details





Square Type PS Series

**TATA MEMORIAL HOSPITAL,
MUMBAI**

Technical Datasheet for Perfect Cooling Towers (PS Series)

MODEL	OVERALL DIMENSIONS			MOTOR (HP)	FAN DIA (mm)	Air Volume m ³ / min	NOMINAL WATER FLOW (lpm)	APPRX. WEIGHT		PIPING CONNECTION in mm				
	LENGTH (MM)	BREADTH (MM)	HEIGHT (MM)					DRY (kgs)	OPERATING (kgs)	INLET	OUTLET	OVER FLOW	DRAIN	FLOAT VALVE
PS 1010	860	860	2410	1	600	75	150	115	230	50	50	20	25	20
PS 2020	1280	1280	2360	1	750	150	300	235	460	50	50	20	25	20
PS 2030	1280	1280	2360	1.5	750	250	450	380	830	50	50	20	25	20
PS 3040	1580	1580	2820	2	850	280	600	390	850	75	75	40	25	20
PS 3050	1580	1580	2820	2	850	330	750	400	900	75	75	40	25	20
PS 4060	1850	1850	2930	3	1000	420	900	565	1200	100	100	40	40	25
PS 4080	1850	1850	2930	3	1000	540	1200	590	1400	100	100	40	40	25
PS 5100	2300	2300	3300	5	1440	750	1600	850	2350	125	125	40	40	25
PS 5120	2300	2300	3300	5	1440	900	1800	890	2765	125	125	40	40	25
PS 6150	2750	2750	3780	7.5	1800	1100	2250	1130	2900	150	150	40	50	25
PS 6175	2750	2750	3780	7.5	1800	1250	2625	1200	3100	150	150	40	50	25
PS 6200	2750	2750	3780	7.5	1800	1400	3000	1410	3900	150	150	40	50	25
PS 7250	3650	3650	4200	10	2400	1750	3750	1890	4500	150	150	40	50	25
PS 7300	3650	3650	4200	10	2400	2200	4500	1960	4800	150	150	40	50	25
PS 7350	3650	3650	4200	12.5	2400	2400	5250	2200	4950	150	150	40	50	25
PS 7400	3650	3650	4200	15	2400	2800	6000	2540	5000	150	150	40	50	25
PS 8450	4200	4200	4400	15	2400	3200	6750	2650	5200	200	200	40	50	25
PS 8500	4200	4200	4400	20	2400	3600	7500	2700	5400	200	200	40	50	25
PS 9600	4200	4700	4400	20	2400	3750	9000	3100	5900	200	200	40	50	25

ABOVE-MENTIONED DATA ARE BASED ON FOLLOWING DESIGN PARAMETERS:

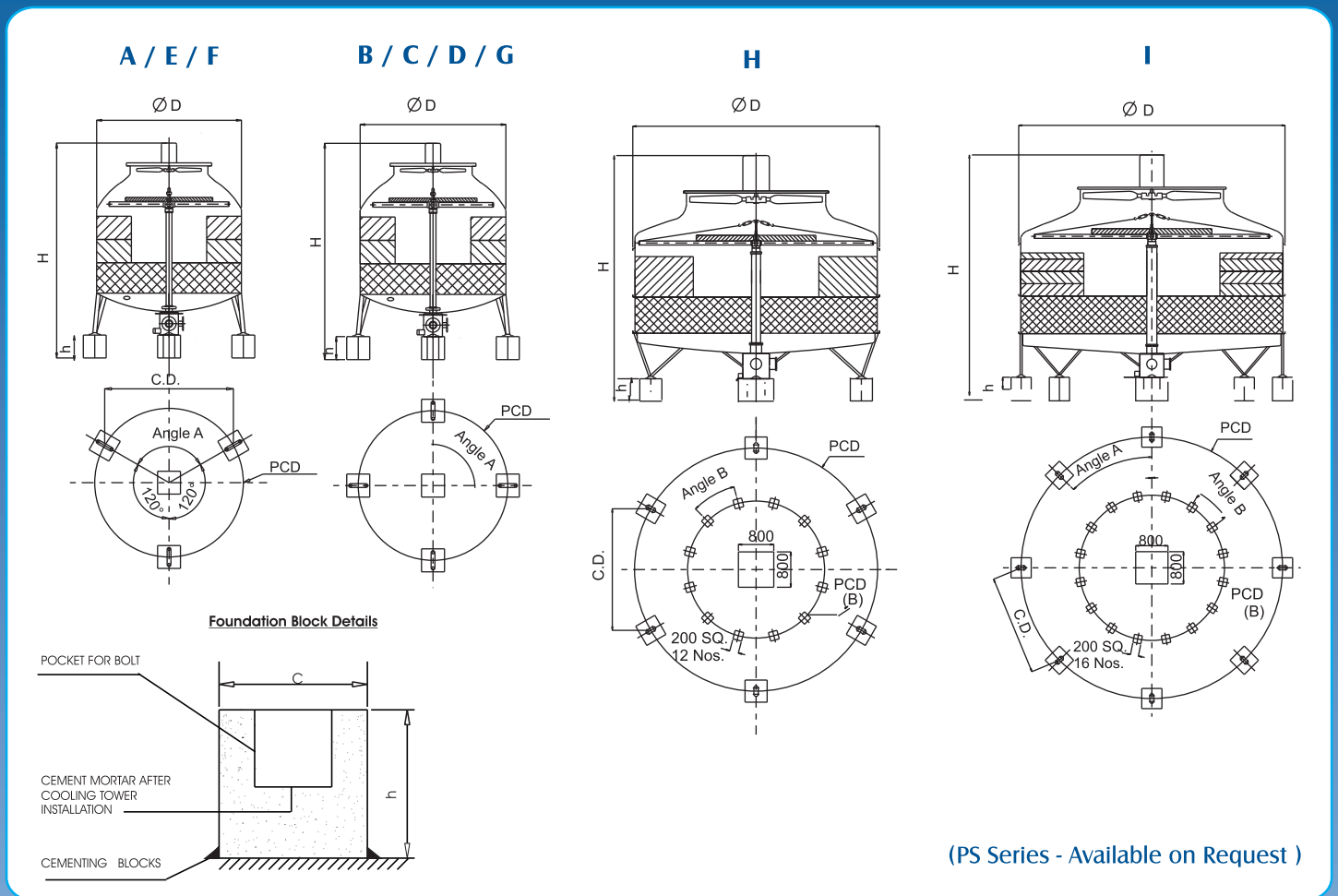
- WATER INLET TEMP. 36.4°C (97.5°F) • WATER OUTLET TEMP. 32.2°C (90.0°F) • WET BULB TEMP. 28.3°C (83.0°F)
- WATER FLOW: 15 lts/min/ton

Product development is a continuous process in **PERFECT**, hence specification & technical data subject to change without notice



Foundation Drawing & Dimension(PC Series)

REF.	MODEL	P. C. D mm	P. C. D B mm	C. D	ANGLE (A)	ANGLE (B)	FOUNDATION Ht (h) mm	FOUNDATION WIDTH (c) mm (sq)
A	PC 1575/1585/1595/1615	1100	-	980	120°	-	200	300
B	PC 1635/1675	1560	-	-	90°	-	300	300
C	PC 1715/1755	1950	-	-	90°	-	300	300
D	PC 1795/1875	2070	-	-	90°	-	300	300
E	PC 1955/2055	2800	-	2425	120°	-	300	300
F	PC 2155/2255/2355	3650	-	2737	120°	-	300	300
G	PC 2555/2755/2955/3155/3355	4700	-	-	90°	-	300	300
H	PC 3555/4155/4355/4555	5500	3100	2750	60°	30°	300	500
I	PC 5155/5355	6480	3600	2480	45°	22.5°	300	500



For Enquiry please specify

- Circulating Water Flow Rate
- Hot Water Temperature
- Cold Water Temperature
- Wet Bulb Temperature
- Water Quality

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