



GCT SERIES

- GCT** COST matters
- GCT-H** HIGH TEMP FILLS
- GCT-Quiet** NOISE matters
- GCT-HH** TEMP matters

BOTTLE TYPE COOLING TOWER



Gem Equipments Private Limited, a manufacturer of compressed air dryers and cooling system since 1984.

- An ISO 9001:2015 certified company, specialising in design, engineering and fabrication of compressed air dryers, cooling towers & filters.
- With an aim of satisfying the needs of all customers and providing a complete solution to plant engineering and utility requirements.



- GEM was established by a group of technocrats with a strong commitment towards excellence.
- The headquarters and manufacturing facility is setup in Coimbatore and with sales offices & warehouses in major cities across India.
- Using advanced technology, GEM accomplishes perfection in manufacturing with latest SAP - ERP.
- Modern production facility comprises of three sections: manufacturing, fabrication and testing. Each section is handled by highly trained engineers and workforce comprising of more than 200 skilled employees.
- GEM's range of cooling systems are in compliance with the quality standards set by the industry.
- FRP components are made out of best material and use of RTM and hand moulding process.
- All products manufactured are inspected for technology, quality and design parameters.
- Gem Equipments is committed to enhance customer satisfaction before and after sales.
- Wide distribution network set across domestic and international market.



GCT

WHERE 'COST' MATTERS



- High efficiency
- Compact
- Low maintenance cost
- Easy to assemble

GCT-H

WHERE 'HIGH TEMP FILLS' MATTERS



- High temperature upto 65°C
- ABS fills
- Belt drive*
- Power saving

GCT-QUIET

WHERE 'NOISE' MATTERS



- Low noise - upto 74dBA*
- Power saving
- Belt drive*
- Fan stacks

GCT-HH

WHERE 'TEMP' MATTERS



- High temperature upto 80°C
- ABS fills
- ABS (or) Aluminum sprinkler
- Water distribution U-PVC pipe

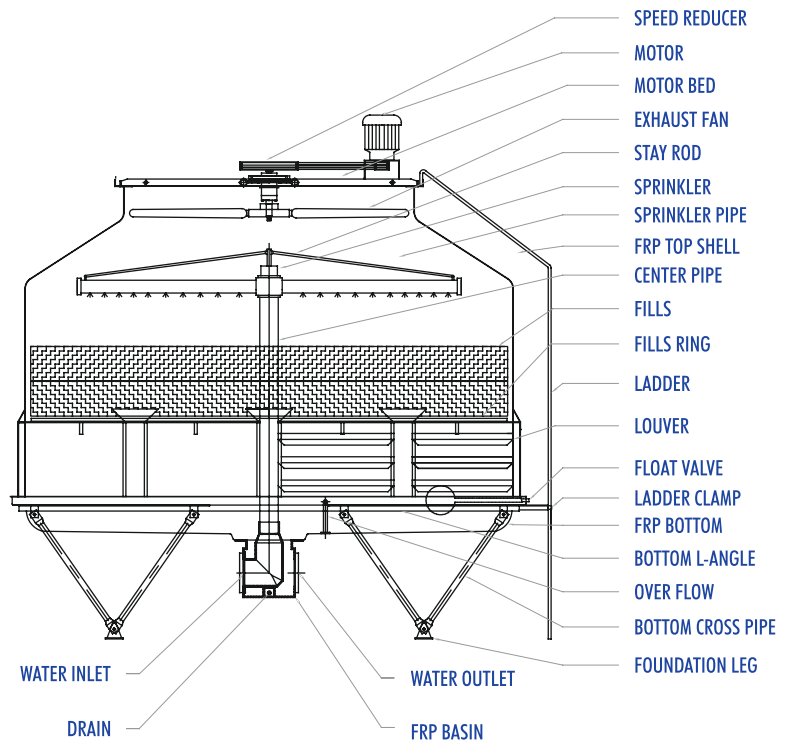
*depends on model

GCT SERIES

COOLING TOWERS

are of high efficiency and designed by our engineers taking into account different environment and climate condition around the world, with reference CTI standards. Our cooling towers are manufactured with non-corrosive materials, which result in longer life with minimum maintenance. GCT Cooling Towers do not rot or rust like conventional towers since all main parts are made of high quality Fiberglass Reinforced Polyester (FRP) and rigid Poly-Vinyl Chloride (PVC). This eliminates the need for painting and repairs, reducing maintenance cost and guaranteeing long dependable service.

The efficiency of the round, bottle-style GCT Cooling Tower is not only thermal, but operational, a fact that one should seriously take into consideration when choosing a cooling tower. Our 360 degree air intake and lower face velocity through the fill offers less air resistance, therefore requiring less motor horsepower than other cooling towers, and guaranteeing considerable electric energy savings.



FAN



All fan blades are reinforced nylon, aluminium alloy or fibreglass (FRP) with adjustable pitch. Blade pitch is pre-set and balanced at factory.

High efficiency aero dynamic fan: axial flow, direct (or) belt driven, low noise, long life, corrosion free aluminium, computerised balanced and wind tunnel tested

MOTOR



All fan motors are water-proof and totally enclosed (TEAO). Cooling tower motors are extended shaft flange mounted frame with weather proof IP55 Class F insulation.

SPRINKLER



Sprinkler profile reduced water spillage loss, prevents entry of foreign particles and extend cycle for blow down. Also the proper L/G reduce evaporation loss.

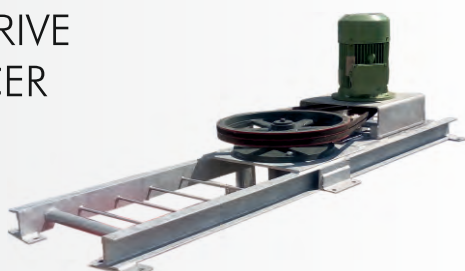
FILLS



The efficiency of a cooling tower depends upon its fill. The GCT Fill is made of rigid PVC film of flame retardant quality with high heat exchange efficiency. Special fill of ABS material is suitable for operation with inlet water temperature up to 80°C.

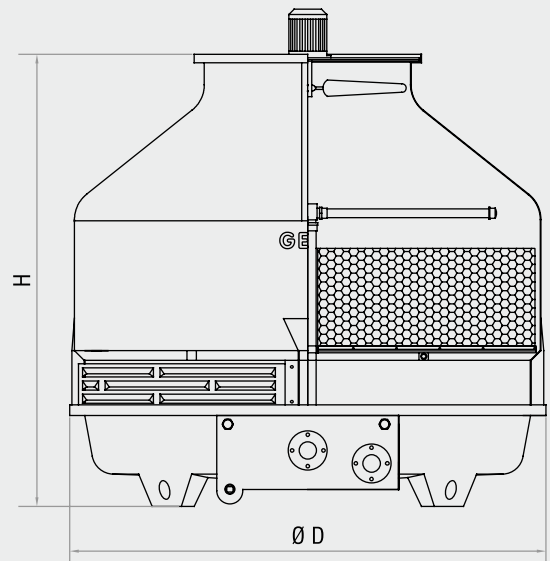
The High efficiency fill reduces the motor input HP and assures uniform distribution of water, with minimum resistance to air flow.

BELT DRIVE REDUCER



Belt drive motors are flange mounted adjustable base located inside the fan stack ensuring lower noise level. The fans are V-Belt driven and are located in the bottle neck of fan stack ensuring free and smooth air discharge and high efficiency with low power consumption.

GCT SERIES



DESIGN CONDITION :

FLOW RATE = 13 LPM/TR

RANGE = 4°C

APPROACH = 4°C

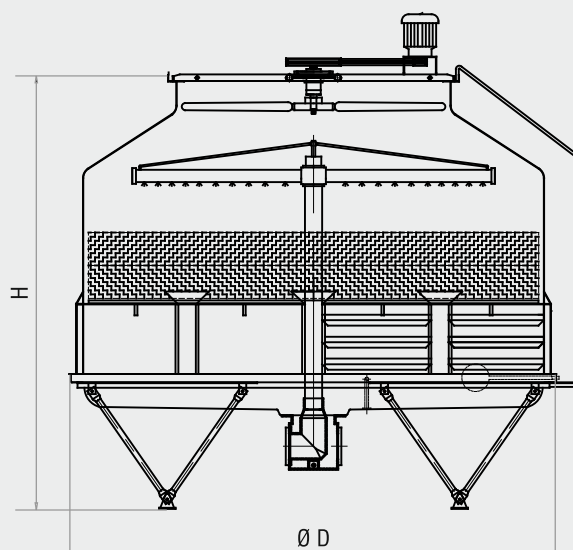
NOISE LEVEL = 70-85 dBA

COOLING TOWER OPERATE TEMPEARTURE UPTO 50°C

TECHNICAL SPECIFICATION

MODEL	CAPACITY	DIAMETER 'D'	HEIGHT 'H'	MOTOR	FAN DIA	MOTOR SPEED	WATER FLOW RATE	AIR FLOW RATE	BASIN HOLDING CAPACITY	SHIPPING WEIGHT	OPERATING WEIGHT
	TR	mm	mm	HP	mm	rpm	L/min	m³/min	Litres	kg	kg
GCT-010	10	940	1280	0.25	500	900	130	80.4	150	80	240
GCT-015	15	1250	1650	0.5	610	915	195	120.6	200	120	340
GCT-020	20	1280	1680	0.5	610	915	260	120.6	200	130	370
GCT-030	30	1550	1830	1	720	925	390	160.8	400	160	600
GCT-040	40	1570	1850	1	720	925	520	160.8	400	200	640
GCT-050	50	2200	2090	1	930	925	650	323.4	850	250	1150
GCT-060	60	2230	2120	1.5	930	930	780	323.4	850	300	1200
GCT-080	80	2560	2450	2	1120	940	1040	430.2	850	350	1260
GCT-100	100	2650	2500	3	1400	960	1625	790	1100	550	1730
GCT-150	150	3450	2600	5	1700	960	1950	950	1500	700	2300
GCT-200	200	3600	3100	7.5	2000	720	2600	1250	2200	1000	3350
GCT-300	300	4400	3550	12.5	2400	570	3900	1900	2500	1800	4500

GCT-H SERIES



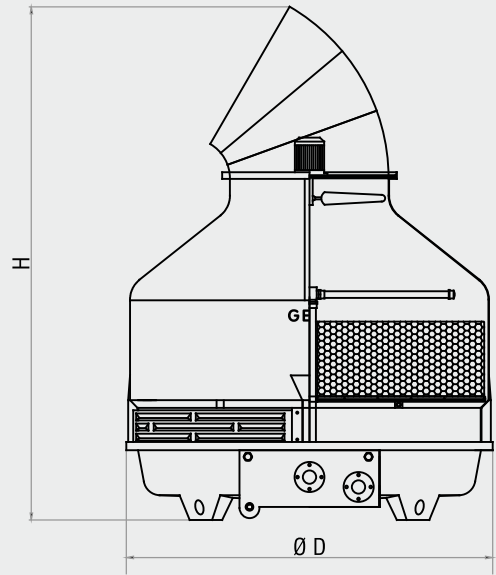
DESIGN CONDITION :

- FLOW RATE = 13 LPM/TR
- RANGE = 4°C
- APPROACH = 4°C
- NOISE LEVEL = 70-80 dBA
- COOLING TOWER OPERATE TEMPEARTURE UPTO 65°C

TECHNICAL SPECIFICATION

MODEL	CAPACITY	DIAMETER 'D'	HEIGHT 'H'	MOTOR	FAN DIA	MOTOR SPEED	WATER FLOW RATE	AIR FLOW RATE	BASIN HOLDING CAPACITY	SHIPPING WEIGHT	OPERATING WEIGHT
	TR	mm	mm	HP	mm	rpm	L/min	m ³ /min	Litres	kg	kg
GCT-050H	50	2200	2090	1	930	925	650	323.4	850	250	1150
GCT-060H	60	2230	2120	1.5	930	930	780	323.4	850	300	1200
GCT-080H	80	2560	2450	2	1120	940	1040	430.2	850	350	1260
GCT-100H	100	2650	2500	3	1400	960	1625	790	1100	550	1730
GCT-150H	150	3450	2600	3	1700	1440	1950	950	1500	700	2300
GCT-200H	200	3600	3100	5	2000	1440	2600	1250	2200	1000	3350
GCT-300H	300	4400	3550	7.5	2400	1440	3900	1900	2500	1800	4500

GCT-QUIET SERIES



DESIGN CONDITION :

FLOW RATE = 13 LPM/TR

RANGE = 4°C

APPROACH = 4°C

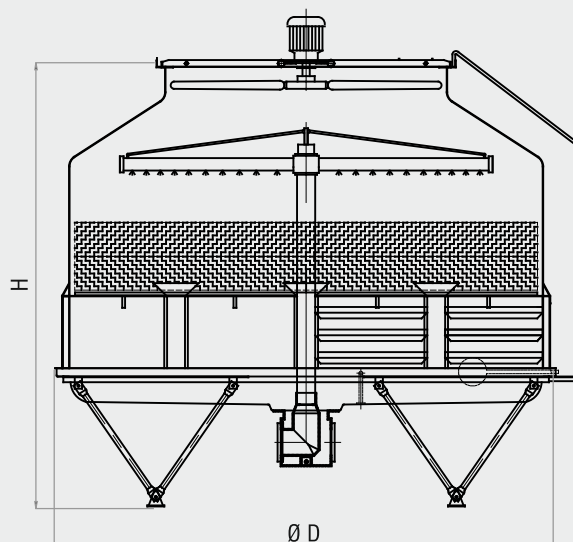
NOISE LEVEL = 60-74 dBA

COOLING TOWER OPERATE TEMPEARTURE UPTO 50°C

TECHNICAL SPECIFICATION

MODEL	CAPACITY	DIAMETER 'D'	HEIGHT 'H'	MOTOR	FAN DIA	MOTOR SPEED	WATER FLOW RATE	AIR FLOW RATE	BASIN HOLDING CAPACITY	SHIPPING WEIGHT	OPERATING WEIGHT
	TR	mm	mm	HP	mm	rpm	L/min	m ³ /min	Litres	kg	kg
GCT-050Q	50	2200	3084	1	930	925	650	323.4	850	300	1250
GCT-060Q	60	2230	3115	1.5	930	930	780	323.4	850	350	1300
GCT-080Q	80	2560	3629	2	1120	940	1040	430.2	850	415	1375
GCT-100Q	100	2650	3670	3	1400	960	1625	790	1100	630	1730
GCT-150Q	150	3450	4500	3	1700	1440	1950	950	1500	800	2500
GCT-200Q	200	3600	5100	5	2000	1440	2600	1250	2200	1210	3620
GCT-300Q	300	4400	5600	7.5	2400	1440	3900	1900	2500	1950	4700

GCT-HH SERIES



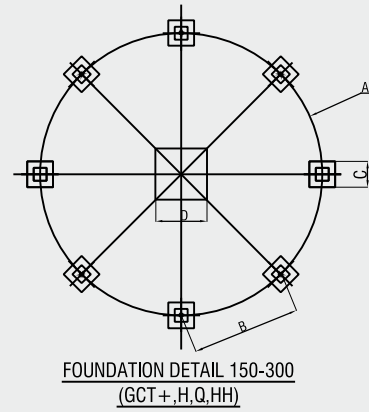
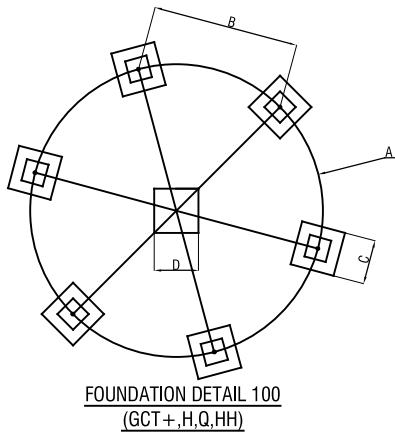
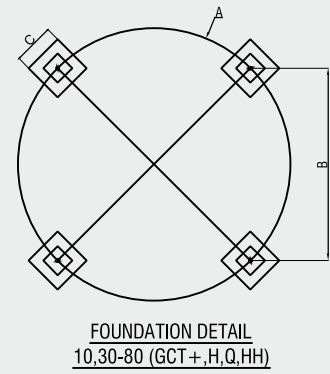
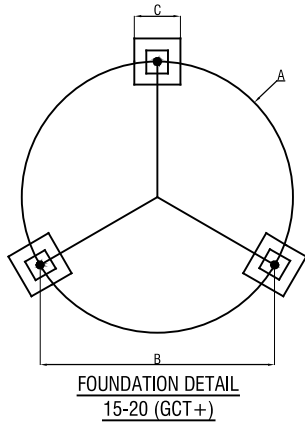
DESIGN CONDITION :

- FLOW RATE = 13 LPM/TR
- RANGE = 4°C
- APPROACH = 4°C
- NOISE LEVEL = 70-85 dBA
- COOLING TOWER OPERATE TEMPEARTURE UPTO 80°C

TECHNICAL SPECIFICATION

MODEL	CAPACITY	DIAMETER 'D'	HEIGHT 'H'	MOTOR	FAN DIA	MOTOR SPEED	WATER FLOW RATE	AIR FLOW RATE	BASIN HOLDING CAPACITY	SHIPPING WEIGHT	OPERATING WEIGHT
	TR	mm	mm	HP	mm	rpm	L/min	m ³ /min	Litres	kg	kg
GCT-050HH	50	2200	2090	1	930	925	650	323.4	850	250	1150
GCT-060HH	60	2230	2120	1.5	930	930	780	323.4	850	300	1200
GCT-080HH	80	2560	2450	2	1120	940	1040	430.2	850	350	1260
GCT-100HH	100	2650	2500	3	1400	960	1625	790	1100	550	1730
GCT-150HH	150	3450	2600	5	1700	960	1950	950	1500	700	2300
GCT-200HH	200	3600	3100	7.5	2000	720	2600	1250	2200	1000	3350
GCT-300	300	4400	3550	12.5	2400	570	3900	1900	2500	1800	4500

GCT BOTTLE TYPE FOUNDATION & PIPING



MODEL	FOUNDATION DIMENSION				PIPING SIZE				
	A (mm)	B (mm)	C (mm)	D (mm)	INLET (NB)	OUTLET (NB)	OVERFLOW (NB)	DRAIN (NB)	MAKE UP LINE (NB)
GCT 10	680	481	250	-	1½"	1½"	¾"	¾"	½"
GCT 15	880	757	250	-	2"	2"	1"	¾"	½"
GCT 20	880	757	250	-	2"	2"	1"	¾"	½"
GCT 30	1140	806	250	-	2½"	3"	1¼"	1"	¾"
GCT 40	1140	806	250	-	3"	3"	1¼"	1"	¾"
GCT 50	1750	1237	300	-	3"	3"	1¼"	1¼"	1"
GCT 60	1750	1237	300	-	3"	3"	1¼"	1¼"	1"
GCT 80	1990	1407	300	-	4"	4"	1¼"	1¼"	1"
GCT 100	2240	993	300	450	5"	5"	1¼"	1¼"	1"
GCT 150	2650	1016	300	450	5"	5"	1¼"	1¼"	1"
GCT 200	3300	1261	300	600	6"	6"	2"	1¼"	1½"
GCT 300	4050	1550	300	600	8"	8"	2"	1¼"	1½"

SQUARE
COOLING TOWER



Capacity : 100 TR - 1000 TR
Cell : Single & multiple cell
Type : Standard, high temperature,
quiet

ADIABATIC
COOLING TOWER



Capacity : ADCT 80 - ADCT 320
With adiabatic pads
Low noise model

CROSS FLOW
COOLING TOWER



Capacity : 20 TR - 400 TR
Cell : Single & multiple cell
Type : Standard, high temperature,
quiet

DRY
COOLING TOWER



Capacity : DCT 40 - DCT 320
Horizontal & "vee" type
Low noise model



Anytime - Anywhere Service



Same day delivery of Spares



A Unique Comprehensive maintenance contract

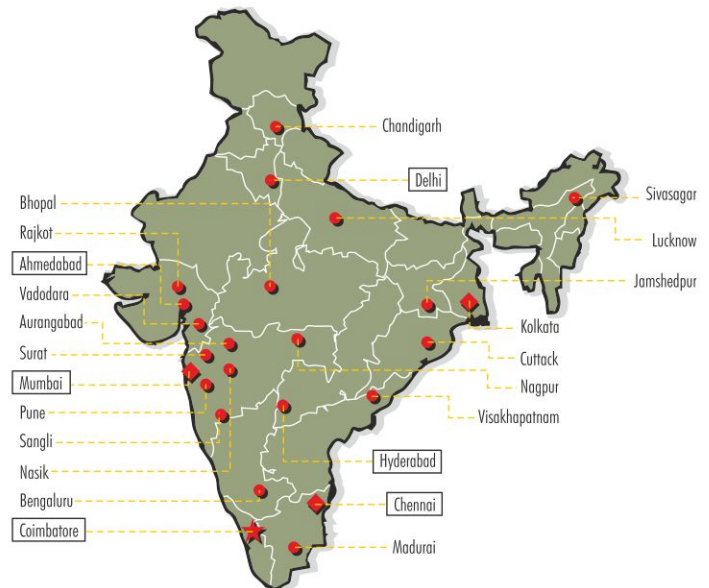
TYPICAL APPLICATION

- Air Compressor
- Air Conditioning Plants
- Aluminium Die Casting Machinery
- Diesel Generator
- Furnace
- Plastic Machinery
- Process Industries



SALES & CUSTOMER CARE

- ★ Head Office
- ◆ Regional Offices
- Channel Associates



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