



TX-S SERIES COOLING TOWER

MULTI-CELL 100-2000 HRT COOLING CAPACITY

Modular Design Crossflow Type



LOW NOISE • SUPER LOW NOISE • ENERGY SAVING SUPER LOW NOISE



Member

TX-S Series is an induced draft cross-flow, film filled, FRP multi-cell rectangular cooling tower designed for the equipment cooling, industrial process cooling and air conditioning applications.

The TX-S Series Cooling Tower is designed in accordance to CTI & JCI standards. Its design saves space, light weight, blends easily with architectural designs and offers low operating costs.

The thermal performance of TX-S Series is backed by full written guarantee. Field performance test to CTI standards can be carried out and witnessed by the owners appointed inspection engineer to ensure the supplied cooling tower meets the thermal performance.

Truwater TX-S Series Cooling Tower meets most design criteria in terms of economy, extra low noise and space saving.



:: Jusco Melaka, 5000HRT



:: CSF Data Center, Cyberjaya, 3000HRT



:: Fuji Electric, Kulim, 6000HRT



:: GB Building Singapore, 1140HRT

Advantages

- **Space Saving & Light Weight**

Incorporating the high performance fill, the installation space and operating weight are greatly reduced.

- **Energy Saving**

The low speed, high efficiency fan and low pressure drop fill design optimize the energy consumption.

- **Low Noise level**

The noise level is lowered by the specifically designed low noise fan.

- **Proven Corrosion Protection**

Tower components are made of anti-corrosive material suitable for cooling water application.

- **Easy Hoisting or Crane Placement**

The tower can be preassembled in the factory for easy transport, lifting and site installation.



:: Quill Interior Holding, PJ, 2100HRT



:: Kotra Pharma, Melaka, 1600HRT

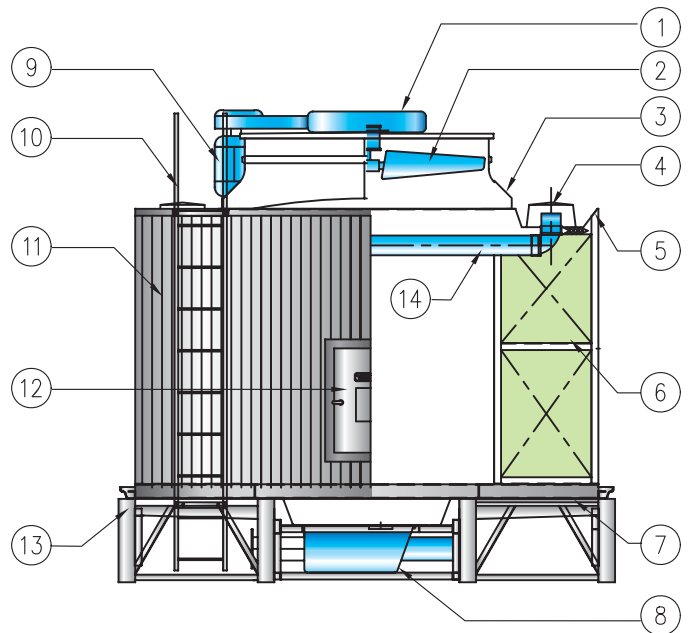


:: Tesco Tebrau, Johor, 1750HRT



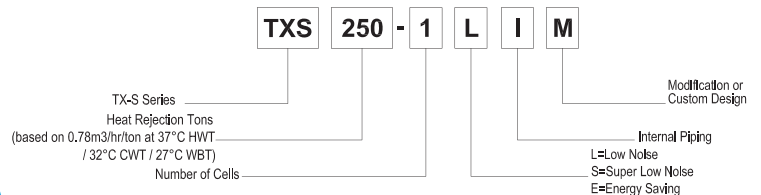
:: Sutera Mall, Johor, 2800HRT

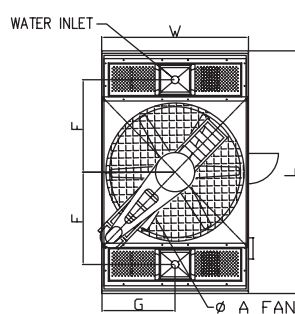
Features



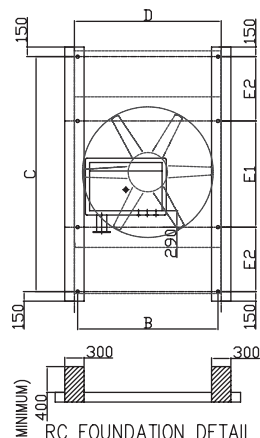
No	Description	Material / Specification
1	V-Belt and Pulley System	FRP Pulley Cover
2	Fan Assembly	Aluminium Alloy
3	Fan Stack	FRP
4	Hot Water Distribution Box	FRP
5	Hot Water Basin	FRP
6	High Performance Film Fill Pack and Drift Eliminator	PVC
7	Cold Water Basin Floor	FRP
8	Suction Sump	FRP
9	Motor	Weather Proof TEFC type
10	Ladder	HDG Steel
11	Casing / Louver	PVC
12	Inspection Door	FRP
13	Cold Water Basin Frame	HDG Steel
14	Internal Piping	Optional

Model Definition Example

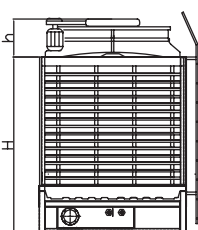




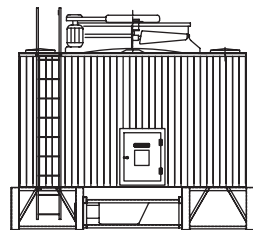
PLAN VIEW



(MINIMUM)
RC FOUNDATION DETAIL

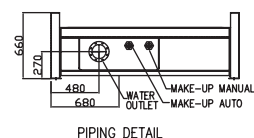


SIDE VIEW

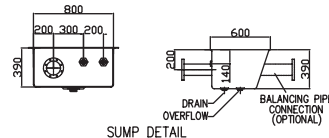


FRONT VIEW

TXS 100-1L	TXS 125-1L	TXS 150-1L	TXS 175-1L
TXS 200-1L	TXS 225-1L	TXS 250-1L	TXS 300-1L
TXS 100-1S	TXS 125-1S	TXS 150-1S	TXS 175-1S
TXS 200-1S	TXS 225-1S	TXS 250-1S	TXS 300-1S
TXS 100-1E	TXS 125-1E	TXS 150-1E	TXS 175-1E

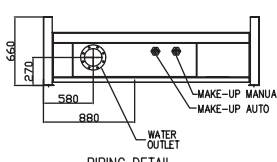


PIPING DETAIL

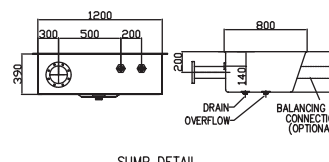


SUMP DETAIL

FOR MODELS: TXS 100-1L	TXS 125-1L	TXS 150-1L	TXS 175-1L
TXS 100-1S	TXS 125-1S	TXS 150-1S	TXS 175-1S
TXS 100-1E	TXS 125-1E		



PIPING DETAIL



SUMP DETAIL

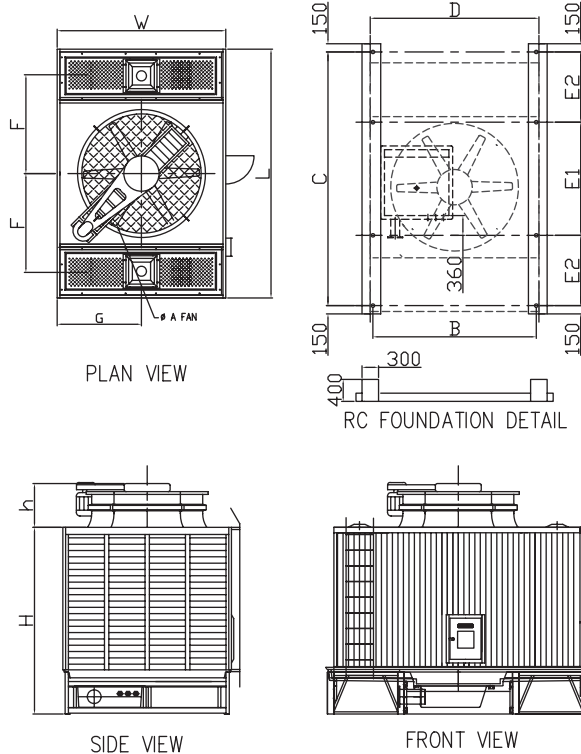
FOR MODELS: TXS 200-1L	TXS 225-1L	TXS 250-1L	TXS 300-1L
TXS 200-1S	TXS 225-1S	TXS 250-1S	TXS 300-1S
TXS 150-1E	TXS 175-1E		

TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

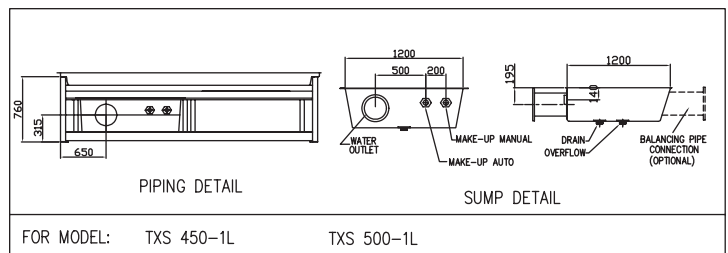
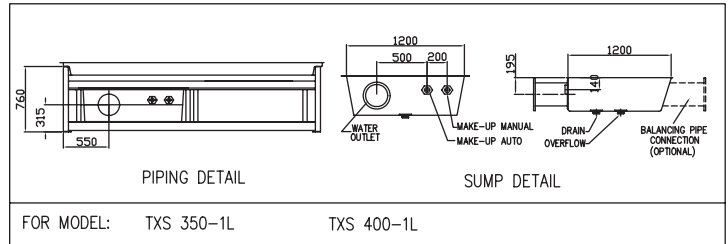
Tower Model	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
TXS - 1	L	W	H	h	Rated Output kW	Rated Current (A 50/60Hz)	Type	Power Source	Diameter (mm)	Fan Speed	No of blades	Drive System
100-1L	3170	1680	2350	750	2.2	4.66 / 4.17	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	1400	450	4	V Belt and Pulley
100-1S	3170	1680	2350	750	2.2	4.66 / 4.17			1400	400	4	
100-1E	3170	1680	2750	750	1.5	3.35 / 3.06			1400	397	4	
125-1L	3370	1880	2350	750	3.7	7.35 / 6.95			1600	425	6	
125-1S	3370	1880	2350	750	3.7	7.35 / 6.95			1600	380	4	
125-1E	3370	1880	2750	750	2.2	4.66 / 4.17			1600	360	6	
150-1L	3370	1880	2750	750	3.7	7.35 / 6.95			1600	425	6	
150-1S	3370	1880	2750	750	3.7	7.35 / 6.95			1600	380	4	
150-1E	3570	2080	2750	750	2.2	4.66 / 4.17			1830	360	6	
175-1L	3370	1880	2750	750	5.5	11.0 / 9.93			1600	475	6	
175-1S	3370	1880	2750	750	5.5	11.0 / 9.93			1600	430	4	
175-1E	3770	2280	2750	750	3.7	7.35 / 6.95			2000	320	6	
200-1L	3570	2080	2750	750	5.5	11.0 / 9.93			1830	450	5	
200-1S	3570	2080	2750	750	5.5	11.0 / 9.93			1830	355	4	
225-1L	3770	2280	2750	750	5.5	11.0 / 9.93			2000	450	6	
225-1S	3770	2280	2750	750	5.5	11.0 / 9.93			2000	315	4	
250-1L	3770	2280	2750	750	7.5	13.9 / 12.44			2000	450	6	
250-1S	3770	2280	2750	750	7.5	13.9 / 12.44			2000	345	4	
300-1L	3770	2280	3460	750	11.0	20.1 / 18.56			2000	450	6	
300-1S	3770	2280	3460	750	11.0	20.1 / 18.56			2000	380	4	
350-1L	4770	3030	3400	1000	11.0	20.1 / 18.56			2135	406	4	
400-1L	4770	3030	3400	1000	15.0	26.8 / 24.05			2135	428	4	
450-1L	5170	3430	3400	1000	11.0	20.1 / 18.56			2745	344	5	
500-1L	5170	3430	3400	1000	15.0	26.8 / 24.05			2745	345	5	

* We reserve the right to change data and specification without prior notice.

Outline And Foundation Drawing (Single Cell)



TXS 350-1L TXS 400-1L TXS 450-1L TXS 500-1L



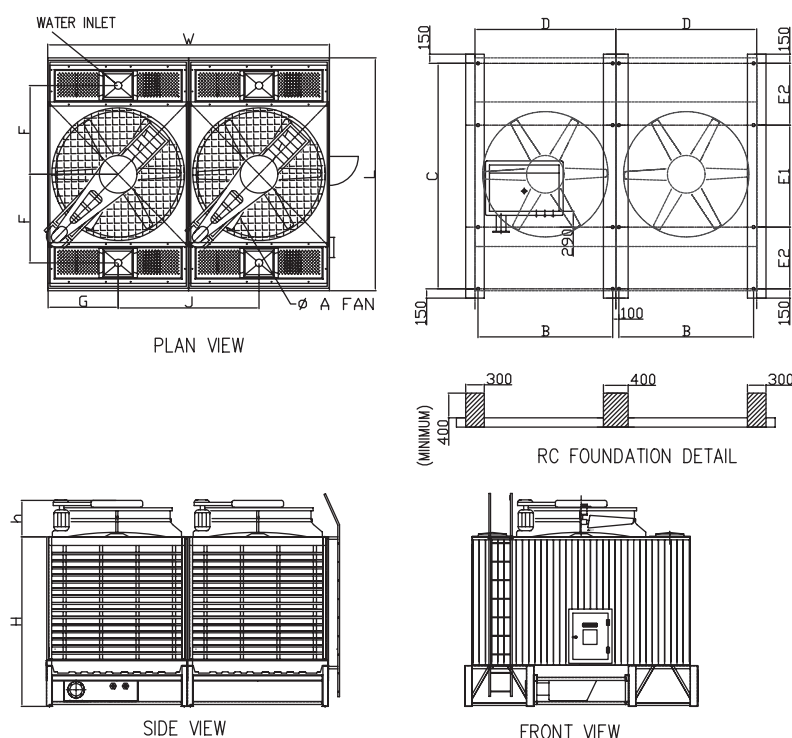
TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	FOUNDATION DIMENSION					PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E1	E2	F	G	J	External Piping	Internal Piping	Water Outlet	Overflow	Drain	Make Up Auto & Manual	Dry Weight	Oper. Weight
TXS - 1																
100-1L	1580	3050	1680	1250	900	1135	840	-	100 x 2	100 x 1	100 x 1	50 x 1	50 x 1	25 x 1	790	1880
100-1S	1580	3050	1680	1250	900	1135	840	-	100 x 2	100 x 1	100 x 1	50 x 1	50 x 1	25 x 1	790	1880
100-1E	1580	3050	1680	1250	900	1135	840	-	100 x 2	100 x 1	100 x 1	50 x 1	50 x 1	25 x 1	900	1970
125-1L	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	900	2110
125-1S	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	900	2110
125-1E	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1010	2210
150-1L	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	980	2370
150-1S	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	980	2370
150-1E	1980	3450	2080	1450	1000	1335	1040	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1010	2490
175-1L	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	990	2500
175-1S	1780	3250	1880	1450	900	1235	940	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	990	2500
175-1E	2180	3650	2280	1650	1000	1435	1140	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1220	2790
200-1L	1980	3450	2080	1450	1000	1335	1040	-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1113	2880
200-1S	1980	3450	2080	1450	1000	1335	1040	-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1113	2880
225-1L	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1180	3180
225-1S	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1180	3180
250-1L	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1190	3200
250-1S	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1190	3200
300-1L	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	1785	3900
300-1S	2180	3650	2280	1650	1000	1435	1140	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	1785	3900
350-1L	2930	4650	3030	2090	1280	1790	1515	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2150	5350
400-1L	2930	4650	3030	2090	1280	1790	1515	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2280	5800
450-1L	3330	5050	3430	2490	1280	1990	1715	-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2970	6670
500-1L	3330	5050	3430	2490	1280	1990	1715	-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3130	7250

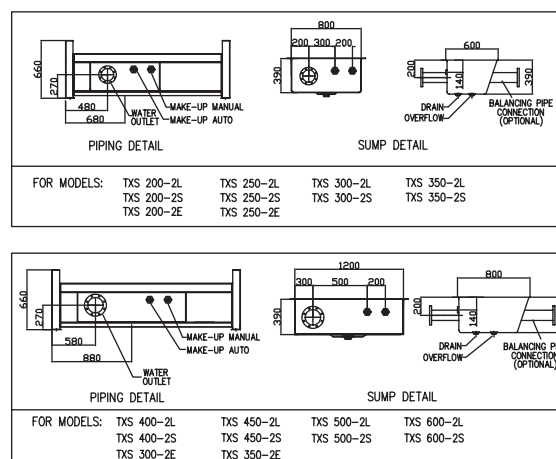
* Note: 1.) For Internal Piping Detail, Please Contact Truwater's Engineer.
3.) External Piping to Open End. Internal Piping & Water Outlet to JIS10K FF Flange.

2.) Balancing Pipe Connection Is Available Upon Request.
4.) Overflow, Drain, Make Up Auto & Manual to BSP Female Thread

Outline And Foundation Drawing (Two Cell)



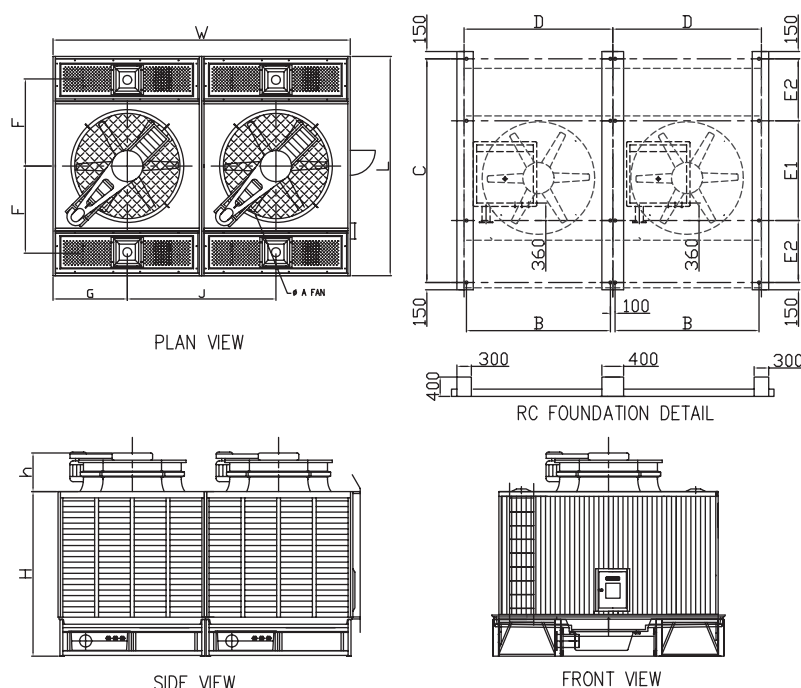
TXS 200-2L	TXS 250-2L	TXS 300-2L
TXS 325-2L	TXS 400-2L	TXS 450-2L
TXS 500-2L	TXS 200-2S	TXS 250-2S
TXS 300-2S	TXS 325-2S	TXS 400-2S
TXS 450-2S	TXS 500-2S	TXS 200-2E
TXS 250-2E	TXS 300-2E	TXS 325-2E



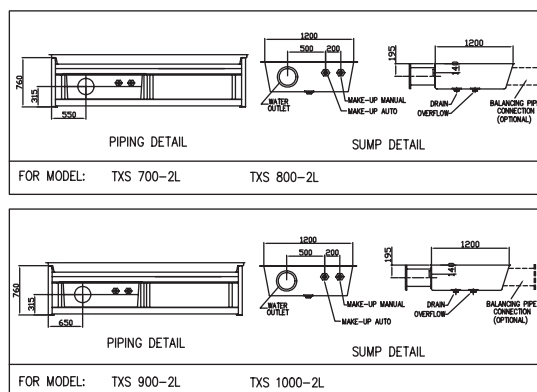
TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
TXS - 2	L	W	H	h	Rated Output kW	Rated Current (A 50/60Hz)	Type	Power Source	Diameter (mm)	Fan Speed	No of blades	Drive System
200-2L	3170	3360	2350	750	2.2	4.66 / 4.17	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	1400	450	4	V Belt and Pulley
200-2S	3170	3360	2350	750	2.2	4.66 / 4.17			1400	400	4	
200-2E	3170	3360	2750	750	1.5	3.35 / 3.06			1400	397	4	
250-2L	3370	3760	2350	750	3.7	7.35 / 6.95			1600	425	6	
250-2S	3370	3760	2350	750	3.7	7.35 / 6.95			1600	380	4	
250-2E	3370	3760	2750	750	2.2	4.66 / 4.17			1600	360	6	
300-2L	3370	3760	2750	750	3.7	7.35 / 6.95			1600	425	6	
300-2S	3370	3760	2750	750	3.7	7.35 / 6.95			1600	380	4	
300-2E	3570	4160	2750	750	2.2	4.66 / 4.17			1830	360	6	
350-2L	3370	3760	2750	750	5.5	11.0 / 9.93			1600	475	6	
350-2S	3370	3760	2750	750	5.5	11.0 / 9.93			1600	430	4	
350-2E	3770	4560	2750	750	3.7	7.35 / 6.95			2000	320	6	
400-2L	3570	4160	2750	750	5.5	11.0 / 9.93			1830	450	5	
400-2S	3570	4160	2750	750	5.5	11.0 / 9.93			1830	355	4	
450-2L	3770	4560	2750	750	5.5	11.0 / 9.93			2000	450	6	
450-2S	3770	4560	2750	750	5.5	11.0 / 9.93			2000	315	4	
500-2L	3770	4560	2750	750	7.5	13.9 / 12.44			2000	450	6	
500-2S	3770	4560	2750	750	7.5	13.9 / 12.44			2000	345	4	
600-2L	3770	4560	3460	750	11.0	20.1 / 18.56			2000	450	6	
600-2S	3770	4560	3460	750	11.0	20.1 / 18.56			2000	380	4	
700-2L	4770	6060	3400	1000	11.0	20.1 / 18.56			2135	406	4	
800-2L	4770	6060	3400	1000	15.0	26.8 / 24.05			2135	428	4	
900-2L	5170	6860	3400	1000	11.0	20.1 / 18.56			2745	344	5	
1000-2L	5170	6860	3400	1000	15.0	26.8 / 24.05			2745	345	5	

Outline And Foundation Drawing (Two Cell)



TXS 600-2L	TXS 600-2S
TXS 700-2L	TXS 800-2L
TXS 900-2L	TXS 1000-2L



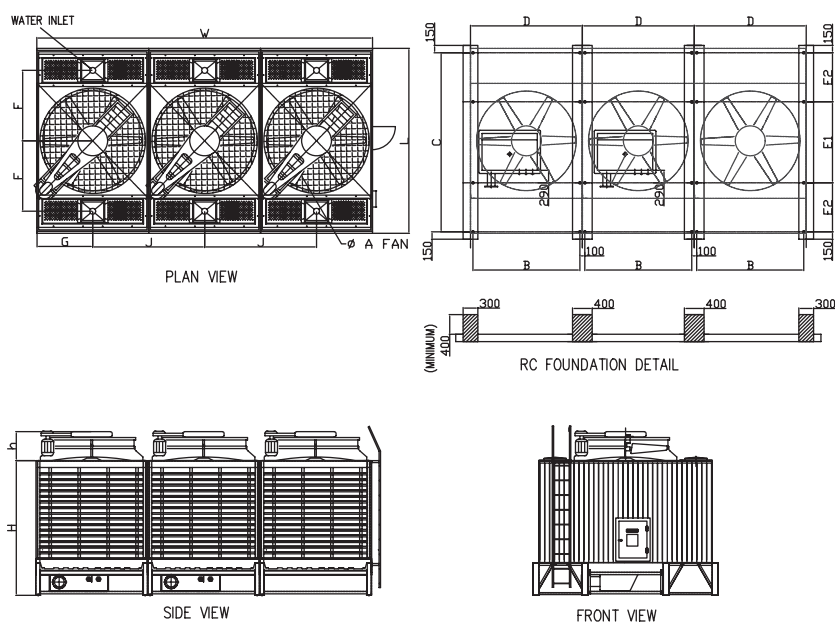
TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	FOUNDATION DIMENSION					PIPING DATA			PIPING SIZE						WEIGHT (KG)	
TXS - 2	B	C	D	E1	E2	F	G	J	External Piping	Internal Piping	Water Outlet	Overflow	Drain	Make Up Auto & Manual	Dry Weight	Oper. Weight
200-2L	1580	3050	1680	1250	900	1135	840	1680	100 x 4	100 x 2	150 x 1	50 x 1	50 x 1	25 x 1	1580	3760
200-2S	1580	3050	1680	1250	900	1135	840	1680	100 x 4	100 x 2	150 x 1	50 x 1	50 x 1	25 x 1	1580	3760
200-2E	1580	3050	1680	1250	900	1135	840	1680	100 x 4	100 x 2	150 x 1	50 x 1	50 x 1	25 x 1	1800	3940
250-2L	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1800	4220
250-2S	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1800	4220
250-2E	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2020	4420
300-2L	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	1960	4740
300-2S	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	1960	4740
300-2E	1980	3450	2080	1450	1000	1335	1040	2080	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2020	4980
350-2L	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	1980	5000
350-2S	1780	3250	1880	1450	900	1235	940	1880	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	1980	5000
350-2E	2180	3650	2280	1650	1000	1435	1140	2280	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2440	5580
400-2L	1980	3450	2080	1450	1000	1335	1040	2080	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2226	5760
400-2S	1980	3450	2080	1450	1000	1335	1040	2080	100 x 4	125 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2226	5760
450-2L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2360	6360
450-2S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2360	6360
500-2L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2380	6400
500-2S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2380	6400
600-2L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	200 x 2	250 x 2	50 x 2	50 x 2	50 x 2	3570	7800
600-2S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 4	200 x 2	250 x 2	50 x 2	50 x 2	50 x 2	3570	7800
700-2L	2930	4650	3030	2090	1280	1790	1515	3030	150 x 4	200 x 2	250 x 2	80 x 2	50 x 2	50 x 2	4300	10700
800-2L	2930	4650	3030	2090	1280	1790	1515	3030	150 x 4	200 x 2	250 x 2	80 x 2	50 x 2	50 x 2	4560	11600
900-2L	3330	5050	3430	2490	1280	1990	1715	3430	200 x 4	250 x 2	250 x 2	80 x 2	50 x 2	50 x 2	5940	13340

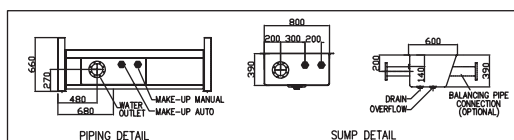
* Note: 1.) For Internal Piping Detail, Please Contact Truwater's Engineer.
3.) External Piping to Open End. Internal Piping & Water Outlet to JIS10K FF Flange.

4.) Overflow, Drain, Make Up Auto & Manual to BSP Female Thread

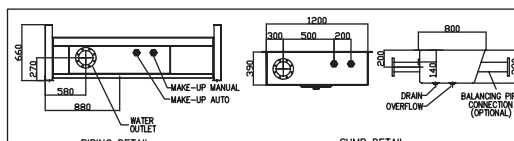
Outline And Foundation Drawing (Three Cell)



TXS 300-3L	TXS 375-3L	TXS 450-3L
TXS 525-3L	TXS 600-3L	TXS 700-3L
TXS 750-3L	TXS 300-3S	TXS 375-3S
TXS 450-3S	TXS 525-3S	TXS 600-3S
TXS 700-3S	TXS 750-3S	TXS 300-3E
TXS 375-3E	TXS 450-3E	TXS 525-3E



FOR MODELS:	TXS 300-3L	TXS 375-3L	TXS 450-3L	TXS 525-3L
	TXS 300-3S	TXS 375-3S	TXS 450-3S	TXS 525-3S
	TXS 300-3F	TXS 375-3F		

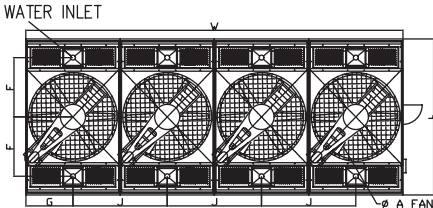


FOR MODELS:	TXS 600-3L	TXS 700-3L	TXS 750-3L	TXS 900-3L
	TXS 600-3S	TXS 700-3S	TXS 750-3S	TXS 900-3S
	TXS 450-3F	TXS 525-3F		

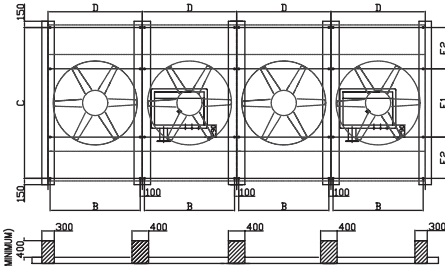
TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
TXS - 3	L	W	H	h	Rated Output kW	Rated Current (A 50/60Hz)	Type	Power Source	Diameter (mm)	Fan Speed	No of blades	Drive System
300-3L	3170	5040	2350	750	2.2	4.66 / 4.17	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	1400	450	4	V Belt and Pulley
300-3S	3170	5040	2350	750	2.2	4.66 / 4.17			1400	400	4	
300-3E	3170	5040	2750	750	1.5	3.35 / 3.06			1400	397	4	
375-3L	3370	5640	2350	750	3.7	7.35 / 6.95			1600	425	6	
375-3S	3370	5640	2350	750	3.7	7.35 / 6.95			1600	380	4	
375-3E	3370	5640	2750	750	2.2	4.66 / 4.17			1600	360	6	
450-3L	3370	5640	2750	750	3.7	7.35 / 6.95			1600	425	6	
450-3S	3370	5640	2750	750	3.7	7.35 / 6.95			1600	380	4	
450-3E	3570	6240	2750	750	2.2	4.66 / 4.17			1830	360	6	
525-3L	3370	5640	2750	750	5.5	11.0 / 9.93			1600	475	6	
525-3S	3370	5640	2750	750	5.5	11.0 / 9.93			1600	430	4	
525-3E	3770	6840	2750	750	3.7	7.35 / 6.95			2000	320	6	
600-3L	3570	6240	2750	750	5.5	11.0 / 9.93			1830	450	5	
600-3S	3570	6240	2750	750	5.5	11.0 / 9.93			1830	355	4	
700-3L	3770	6840	2750	750	5.5	11.0 / 9.93			2000	450	6	
700-3S	3770	6840	2750	750	5.5	11.0 / 9.93			2000	315	4	
750-3L	3770	6840	2750	750	7.5	13.9 / 12.44			2000	450	6	
750-3S	3770	6840	2750	750	7.5	13.9 / 12.44			2000	345	4	
900-3L	3770	6840	3460	750	11.0	20.1 / 18.56			2000	450	6	
900-3S	3770	6840	3460	750	11.0	20.1 / 18.56			2000	380	4	
1050-3L	4770	9090	3400	1000	11.0	20.1 / 18.56			2135	406	4	
1200-3L	4770	9090	3400	1000	15.0	26.8 / 24.05			2135	428	4	
1350-3L	5170	10290	3400	1000	11.0	20.1 / 18.56			2745	344	5	
1500-3L	5170	10290	3400	1000	15.0	26.8 / 24.05			2745	345	5	

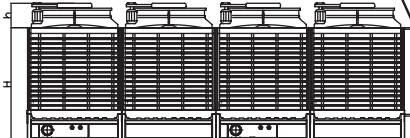
Outline And Foundation Drawing (Four Cell)



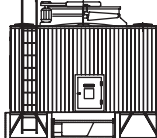
PLAN VIEW



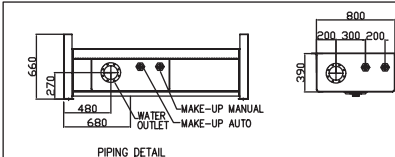
RC FOUNDATION DETAIL



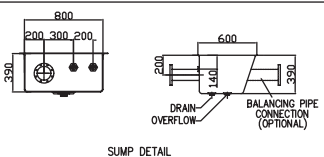
SIDE VIEW



FRONT VIEW

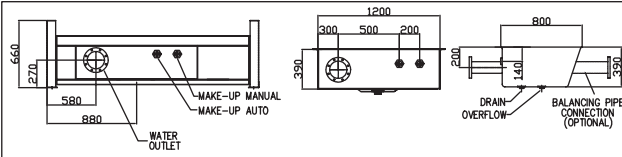
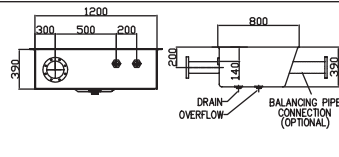


PIPING DETAIL



SUMP DETAIL

FOR MODELS: TXS 400-4L TXS 500-4L TXS 600-4L TXS 175-1L
TXS 400-4S TXS 500-4S TXS 600-4S TXS 175-1S
TXS 400-4E TXS 500-4E

 α 

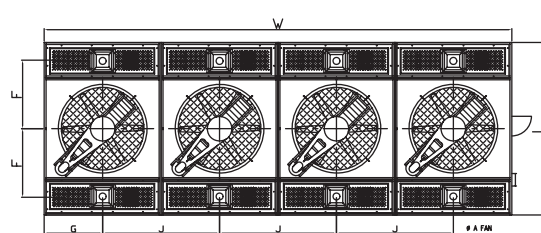
FOR MODELS: TXS 800-4L TXS 900-4L TXS 1000-4L TXS 300-1L
 TXS 800-4S TXS 900-4S TXS 1000-4S TXS 300-1S
 TXS 600-4E TXS 700-4E

TXS 400-4L	TXS 500-4L
TXS 600-4L	TXS 700-4L
TXS 800-4L	TXS 900-4L
TXS 1000-4L	TXS 400-4S
TXS 500-4S	TXS 600-4S
TXS 700-4S	TXS 800-4S
TXS 900-4S	TXS 1000-4S
TXS 400-4E	TXS 500-4E
TXS 600-4E	TXS 700-4E

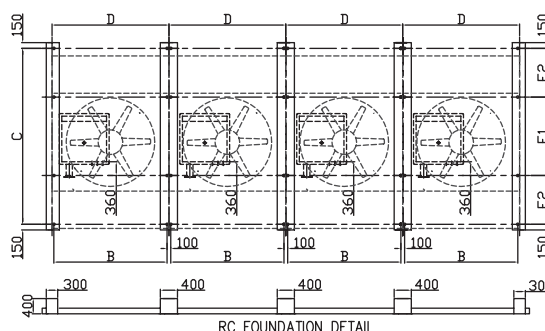
TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
TXS - 4	L	W	H	h	Rated Output kW	Rated Current (A 50/60Hz)	Type	Power Source	Diameter (mm)	Fan Speed	No of blades	Drive System
400-4L	3170	6720	2350	750	2.2	4.66 / 4.17	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	1400	450	4	V Belt and Pulley
400-4S	3170	6720	2350	750	2.2	4.66 / 4.17			1400	400	4	
400-4E	3170	6720	2750	750	1.5	3.35 / 3.06			1400	397	4	
500-4L	3370	7520	2350	750	3.7	7.35 / 6.95			1600	425	6	
500-4S	3370	7520	2350	750	3.7	7.35 / 6.95			1600	380	4	
500-4E	3370	7520	2750	750	2.2	4.66 / 4.17			1600	360	6	
600-4L	3370	7520	2750	750	3.7	7.35 / 6.95			1600	425	6	
600-4S	3370	7520	2750	750	3.7	7.35 / 6.95			1600	380	4	
600-4E	3570	8320	2750	750	2.2	4.66 / 4.17			1830	360	6	
700-4L	3370	7520	2750	750	5.5	11.0 / 9.93			1600	475	6	
700-4S	3370	7520	2750	750	5.5	11.0 / 9.93			1600	430	4	
700-4E	3770	9120	2750	750	3.7	7.35 / 6.95			2000	320	6	
800-4L	3570	8320	2750	750	5.5	11.0 / 9.93			1830	450	5	
800-4S	3570	8320	2750	750	5.5	11.0 / 9.93			1830	355	4	
900-4L	3770	9120	2750	750	5.5	11.0 / 9.93			2000	450	6	
900-4S	3770	9120	2750	750	5.5	11.0 / 9.93			2000	315	4	
1000-4L	3770	9120	2750	750	7.5	13.9 / 12.44			2000	450	6	
1000-4S	3770	9120	2750	750	7.5	13.9 / 12.44			2000	345	4	
1200-4L	3770	9120	3460	750	11.0	20.1 / 18.56			2000	450	6	
1200-4S	3770	9120	3460	750	11.0	20.1 / 18.56			2000	380	4	
1400-4L	4770	12120	3400	1000	11.0	20.1 / 18.56			2135	406	4	
1600-4L	4770	12120	3400	1000	15.0	26.8 / 24.05			2135	428	4	
1800-4L	5170	13720	3400	1000	11.0	20.1 / 18.56			2745	344	5	
2000-4L	5170	13720	3400	1000	15.0	26.8 / 24.05			2745	345	5	

Outline And Foundation Drawing (Four Cell)

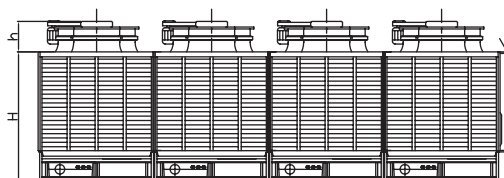


PLAN VIEW

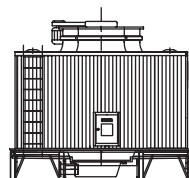


RC FOUNDATION DETAIL

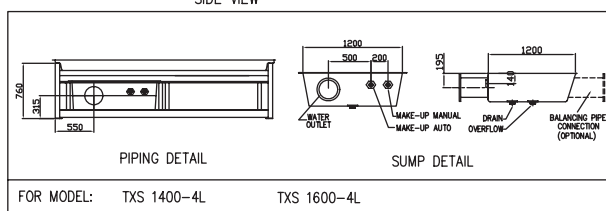
TXS 1200-4L
TXS 1200-4S
TXS 1400-4L
TXS 1600-4L
TXS 1800-4L
TXS 2000-4L



SIDE VIEW

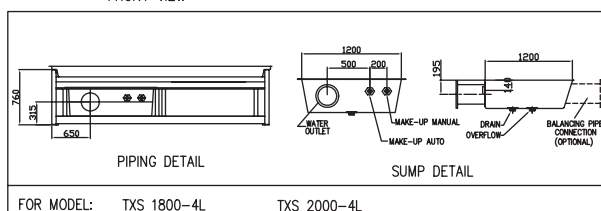


FRONT VIEW



FOR MODEL: TXS 1400-4L

TXS 1600-4L



FOR MODEL: TXS 1800-4L

TXS 2000-4L

TX-S SERIES LOW NOISE, SUPER LOW NOISE & ENERGY SAVING SUPER LOW NOISE RANGE

Tower Model	FOUNDATION DIMENSION					PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E1	E2	F	G	J	External Piping	Internal Piping	Water Outlet	Overflow	Drain	Make Up Auto & Manual	Dry Weight	Oper. Weight
TXS - 4																
400-4L	1580	3050	1680	1250	900	1135	840	1680	100 x 8	100 x 4	150 x 2	50 x 2	50 x 2	25 x 2	3160	7520
400-4S	1580	3050	1680	1250	900	1135	840	1680	100 x 8	100 x 4	150 x 2	50 x 2	50 x 2	25 x 2	3160	7520
400-4E	1580	3050	1680	1250	900	1135	840	1680	100 x 8	100 x 4	150 x 2	50 x 2	50 x 2	25 x 2	3600	7880
500-4L	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	200 x 2	50 x 2	50 x 2	50 x 2	3600	8440
500-4S	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	200 x 2	50 x 2	50 x 2	50 x 2	3600	8440
500-4E	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	200 x 2	50 x 2	50 x 2	50 x 2	4040	8840
600-4L	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	3920	9480
600-4S	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	3920	9480
600-4E	1980	3450	2080	1450	1000	1335	1040	2080	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4040	9960
700-4L	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	3960	10000
700-4S	1780	3250	1880	1450	900	1235	940	1880	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	3960	10000
700-4E	2180	3650	2280	1650	1000	1435	1140	2280	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4880	11160
800-4L	1980	3450	2080	1450	1000	1335	1040	2080	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4452	11520
800-4S	1980	3450	2080	1450	1000	1335	1040	2080	100 x 8	125 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4452	11520
900-4L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	150 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4720	12720
900-4S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	150 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4720	12720
1000-4L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	150 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4760	12800
1000-4S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	150 x 4	250 x 2	50 x 2	50 x 2	50 x 2	4760	12800
1200-4L	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	200 x 4	250 x 4	50 x 4	50 x 4	50 x 4	7140	15600
1200-4S	2180	3650	2280	1650	1000	1435	1140	2280	125 x 8	200 x 4	250 x 4	50 x 4	50 x 4	50 x 4	7140	15600
1400-4L	2930	4650	3030	2090	1280	1790	1515	3030	150 x 8	200 x 4	250 x 4	80 x 4	50 x 4	50 x 4	8600	21400
1600-4L	2930	4650	3030	2090	1280	1790	1515	3030	150 x 8	200 x 4	250 x 4	80 x 4	50 x 4	50 x 4	9120	23200
1800-4L	3330	5050	3430	2490	1280	1990	1715	3430	200 x 8	250 x 4	250 x 4	80 x 4	50 x 4	50 x 4	11880	26680
2000-4L	3330	5050	3430	2490	1280	1990	1715	3430	200 x 8	250 x 4	250 x 4	80 x 4	80 x 4	50 x 4	12520	2900

* Note: 1.) For Internal Piping Detail, Please Contact Truwater's Engineer.
3.) External Piping to Open End. Internal Piping & Water Outlet to JIS10K FF Flange.

2.) Balancing Pipe Connection Is Available Upon Request.
4.) Overflow, Drain, Make Up Auto & Manual to BSP Female Thread

TX-S Series Quick Selection Table

The diagrams below show the common combinations of various cold water, hot water, wet bulb temperature. However, if there is a difference in temperature combination, please contact the company for a selection of the cooling tower by our computer software

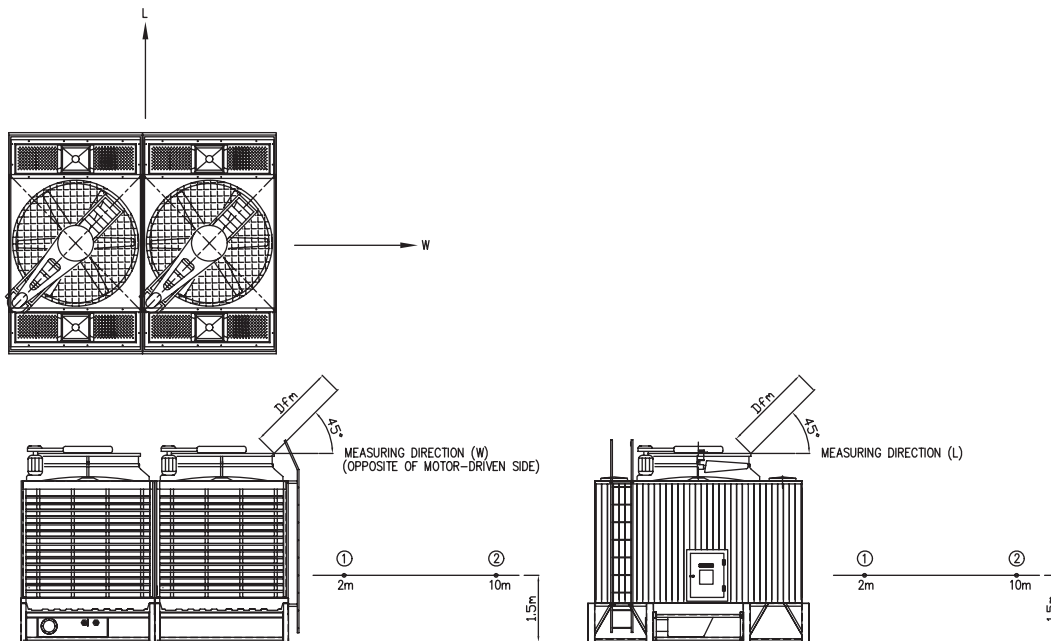
Deg F	In	95	98.6	95	97	98	98.6	97	100	98.6	100	100
	Out	85.1	89.6	86	87	88	89.6	87	90	89.6	90	90
	WB	80.6	80.6	81	81	82	81.5	82	82	82.4	83	84

Deg C	In	35	37	35	36.1	36.7	37	36.1	37.8	37	37.8	37.8
	Out	29.5	32	30	30.5	31.1	32	30.6	32.2	32	32.2	32.2
	WB	27	27	27.2	27.2	27.8	27.5	27.8	27.8	28	28.3	28.3

Model TXS	HRT	Motor kW	m3/hr										
100	100	2.2x1	42	78	50	54	55	74	48	67	69	63	58
125	125	3.7x1	53	98	60	68	69	93	60	84	86	78	73
150	150	3.7x1	63	117	72	81	83	111	72	101	104	94	88
175	175	5.5x1	75	137	87	95	97	130	85	118	120	109	102
200	200	5.5x1	86	156	100	108	110	148	97	135	138	125	116
225	225	5.5x1	95	176	110	122	125	167	108	152	155	141	130
250	250	7.5x1	107	195	122	135	138	185	120	168	172	157	146
300	300	11x1	126	234	150	162	166	222	145	202	208	188	176
350	350	11x1	150	273	174	189	194	260	168	236	240	220	204
375	375	3.7x3	159	294	180	205	207	279	180	252	258	234	217
400	400	15x1	173	314	200	216	220	296	193	270	276	251	232
450	450	11x1	190	353	220	243	250	334	217	304	310	282	260
500	500	15x1	214	390	250	270	276	370	241	337	345	314	292
525	525	5.5x3	225	411	261	285	291	390	255	354	360	327	306
600	600	11x2	252	468	300	324	330	444	290	405	414	377	350
700	700	11x2	300	546	350	378	385	518	338	473	480	439	408
750	750	7.5x3	321	585	366	410	414	555	360	504	516	471	438
800	800	15x2	345	624	400	432	440	592	386	540	552	502	464
900	900	11x2	385	702	450	486	495	668	434	608	620	565	520
1000	1000	15x2	428	780	500	540	550	740	482	675	690	628	584
1050	1050	11x3	450	819	510	567	582	780	504	708	720	660	612
1200	1200	15x3	504	936	600	648	660	888	580	810	828	753	700
1350	1350	11x3	575	1059	660	729	748	1002	651	912	930	846	780
1400	1400	11x4	604	1092	695	756	770	1036	676	946	960	878	816
1500	1500	15x3	642	1170	732	810	828	1110	720	1008	1032	942	876
1600	1600	15x4	672	1248	800	864	880	1184	772	1080	1104	1004	928
1800	1800	11x4	690	1404	900	972	990	1336	868	1216	1240	1130	1040
2000	2000	15x4	856	1560	1000	1080	1100	1480	964	1350	1380	1256	1168

SOUND LEVEL CHART (FROM 100~2000 TON)

The measuring point at 45 degrees is diagonally above the top edge of the fan stack, opposite of motor driver side. If fan diameter is less than 1.5m, the measuring distance should be limited to 1.5m standard.



SOUND LEVEL dB(A) - SINGLE CELL (100~500 TON)

	Louver		Panel		Fan
	2m	10m	2m	10m	45 deg
100-1L	63.5	55.0	57.5	53.0	68.0
100-1S	58.5	51.0	55.0	49.5	66.0
100-1E	56.0	49.0	53.0	46.0	63.0
125-1L	65.0	57.0	61.0	54.5	70.0
125-1S	60.5	52.5	57.0	51.0	68.0
125-1E	57.0	50.0	54.0	47.0	65.0
150-1L	66.0	57.0	62.0	54.5	70.0
150-1S	60.5	52.5	57.0	50.5	68.0
150-1E	59.0	51.0	56.0	49.0	65.0
175-1L	67.0	58.0	63.0	56.0	71.5
175-1S	62.0	53.0	58.5	52.0	69.0
175-1E	61.0	52.0	58.0	51.0	68.0
200-1L	67.0	58.0	62.0	55.5	71.0
200-1S	62.0	53.0	58.0	52.0	69.0
225-1L	67.0	58.0	62.0	54.0	71.0
225-1S	63.0	54.0	57.5	52.0	69.0
250-1L	68.0	59.0	62.5	56.5	72.0
250-1S	63.0	54.0	60.0	53.5	70.0
300-1L	68.0	59.0	64.0	57.0	72.0
300-1S	65.0	56.0	60.0	54.0	71.0
350-1L	69.0	60.0	65.0	58.0	73.0
400-1L	71.0	62.0	67.0	59.0	73.5
450-1L	69.0	60.0	65.0	58.0	73.0
500-1L	71.0	62.0	67.0	59.0	73.5

SOUND LEVEL dB(A) - 2 CELLS (200~1000 TON)

	Louver		Panel		Fan
	2m	10m	2m	10m	45 deg
200-2L	66.0	57.0	61.0	55.0	70.0
200-2S	61.5	53.0	57.0	51.0	68.0
200-2E	59.0	52.0	55.0	49.0	66.0
250-2L	68.0	58.0	62.0	56.0	72.0
250-2S	64.0	54.0	59.0	51.0	70.0
250-2E	61.0	52.0	56.0	51.0	68.0
300-2L	69.0	60.0	64.0	56.0	72.0
300-2S	64.0	54.0	59.0	53.0	70.0
300-2E	62.0	53.0	57.0	52.0	68.0
350-2L	70.0	60.0	65.0	58.0	73.0
350-2S	65.0	56.0	60.0	54.0	71.0
350-2E	64.0	54.0	59.0	53.0	69.0
400-2L	70.0	60.0	65.0	58.0	73.0
400-2S	65.0	56.0	60.0	54.0	71.0
450-2L	70.0	60.0	65.0	58.0	73.0
450-2S	66.0	56.0	60.0	54.0	71.0
500-2L	70.0	60.0	65.0	58.5	74.0
500-2S	67.0	57.0	61.0	55.0	73.0
600-2L	71.0	61.0	67.0	60.0	73.0
600-2S	68.0	58.0	62.0	56.0	73.0
700-2L	72.0	62.0	68.0	61.0	74.0
800-2L	74.0	64.0	69.0	62.0	75.0
900-2L	72.0	62.0	68.0	61.0	74.0
1000-2L	74.0	62.0	69.0	62.0	75.0

SOUND LEVEL dB(A) - 3 CELLS (300~1500 TON)

	Louver		Panel		Fan
	2m	10m	2m	10m	45 deg
300-3L	69.0	60.0	64.0	56.0	72.0
300-3S	64.0	54.0	59.0	51.0	70.0
300-3E	62.0	53.0	57.0	52.0	68.0
375-3L	70.0	61.0	65.0	58.0	73.0
375-3S	64.0	54.0	59.0	51.0	70.0
375-3E	62.0	53.0	57.0	52.0	68.0
450-3L	70.0	61.0	65.0	58.0	73.0
450-3S	66.0	56.0	60.0	54.0	71.0
450-3E	63.0	54.0	58.0	53.0	69.0
525-3L	70.0	61.0	65.0	58.0	73.0
525-3S	66.0	56.0	60.0	54.0	72.0
525-3E	63.0	54.0	58.0	53.0	69.0
600-3L	72.0	62.0	67.0	60.0	74.0
600-3S	66.0	56.0	60.0	54.0	72.0
700-3L	72.5	62.5	68.0	62.0	74.0
700-3S	68.0	57.0	61.0	55.0	72.0
750-3L	72.5	62.5	68.0	62.0	74.0
750-3S	68.0	57.0	61.0	55.0	72.0
900-3L	74.0	64.0	69.0	62.0	75.0
900-3S	71.0	61.0	67.0	60.0	73.0
1050-3L	75.0	65.0	70.0	63.0	76.0
1200-3L	76.0	67.0	72.0	64.0	78.0
1350-3L	75.0	65.0	70.0	63.0	76.0
1500-3L	76.0	67.0	72.0	64.0	78.0

SOUND LEVEL dB(A) - 4 CELLS (400~2000 TON)

	Louver		Panel		Fan
	2m	10m	2m	10m	45 deg
400-4L	70.0	61.0	65.0	58.0	73.0
400-4S	65.0	56.0	60.0	54.0	71.0
400-4E	63.0	54.0	58.0	53.0	69.0
500-4L	70.0	61.0	65.0	58.0	73.0
500-4S	65.0	56.0	60.0	54.0	71.0
500-4E	63.0	54.0	58.0	53.0	69.0
600-4L	71.0	62.0	66.0	59.0	73.5
600-4S	67.0	57.0	61.0	55.0	73.0
600-4E	65.0	55.0	60.0	54.0	71.0
700-4L	71.0	62.0	66.0	59.0	73.5
700-4S	67.0	57.0	61.0	55.0	73.0
700-4E	65.0	55.0	60.0	54.0	71.0
800-4L	72.0	62.0	66.0	59.0	74.0
800-4S	68.0	58.0	62.0	56.0	73.0
900-4L	72.0	62.0	67.0	60.0	75.0
900-4S	69.0	59.0	66.0	59.0	73.0
1000-4L	73.0	63.0	69.0	62.0	75.0
1000-4S	71.0	61.0	67.0	60.0	74.0
1200-4L	75.0	65.0	70.0	63.0	76.0
1200-4S	73.0	63.0	69.0	62.0	74.0
1400-4L	76.0	67.0	72.0	64.0	77.0
1600-4L	77.0	69.0	73.0	66.0	79.0
1800-4L	76.0	67.0	72.0	64.0	77.0
2000-4L	77.0	69.0	73.0	66.0	79.0

RECOMMENDED UNIT LAYOUT

It is advisable to select and design the best layout or location to avoid air recirculation. Recirculation occurs when some of the hot moist discharge air leaving the cooling tower flows back into the fresh air inlet.

The following guidelines will provide the best location or layout which will minimize recirculation, maximize fresh air flow and allow adequate maintenance accessibility.

A. SINGLE UNIT INSTALLATIONS

The best place for TX-S Series Cooling Tower is in an open space. However, when this is not possible, correct layout guidelines must be followed to provide satisfactory installation.

Ensure that the top of the cooling tower is higher than any adjacent walls, buildings or other structures.

Figure 1(a) and 1(b) are examples of incorrect installation. These conditions can be corrected by elevating the unit on structural steel/concrete plinths so that the top is higher than the wall as shown in Figure 1(c).

INCORRECT : Wind effect with top of unit lower than top of wall

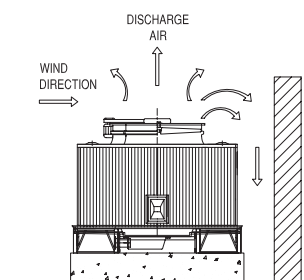


FIGURE: 1(a)

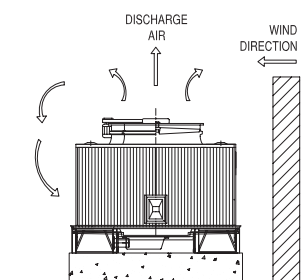


FIGURE: 1(b)

CORRECT : Installation elevated so that top of unit is higher than top of wall

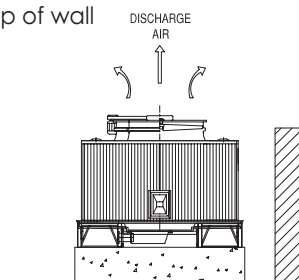


FIGURE: 1(c)

When a cooling tower is located near a wall, consideration must be given to the clearance distance between the air inlets of the tower and the wall structure(s). See Figure 2, Recommended Dimensions D1 and D2.

The minimum dimensions, D1 and D2, as shown in Table 1 must be maintained to ensure that the unit is provided adequate air flow. In some installation, consideration must also be given to access to the unit for maintenance. Room must be provided for piping, removals of access panels, etc.

Sometimes other pieces of equipment such as pumps, filters, piping etc are placed in front of the air inlets. These obstructions should not be located any closer than the minimum dimensions in Table 1.

FIGURE 2 :
Installation next
to a wall.

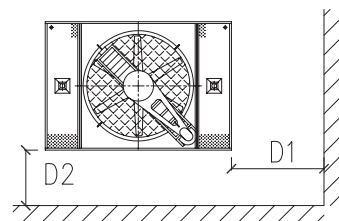


TABLE 1

Tower Model	Minimum Dimension (mm)	
	D1 (At Louver Side)	D2 (At Panel Side)
TXS		
100-1,125-1, 150-1,175-1	1500	1500
200-1,225-1, 250-1,300-1	2000	1500
350-1,400-1, 450-1,500-1	2500	1500

TABLE 2

Tower Model TXS	End Wall Length, L mm	Minimum Dimension, mm D3 (End-to-End)
All models	All sizes	1000
Tower Model TXS	Louver Width, W mm	Minimum Dimension, mm D4 (Side-by-Side)
200-2L ~ 600-2L	Below 4500	3000
700-2L ~ 1000-2L 400-3E ~ 550-3E 600-3L ~ 700-3L 600-3S ~ 700-3S	Below 7000	3500
1050-3L ~ 1200-3L 600-4E ~ 700-4E 800-4L ~ 1000-4L 800-4S ~ 1000-4S	Below 10000	5000
1350-3L ~ 1500-3L 1400-4L ~ 2000-4L	Below 14000	6000

The minimum dimensions are as listed in Table 2

B. MULTIPLE UNIT INSTALLATIONS

When more than one cooling tower is installed at the same location, recirculation becomes a bigger problem.

With the installations of two cooling towers, they should be placed end to end with the narrow ends adjacent as shown in Figure 3. Another method is to locate the units side-by-side with the longer sides parallel to each other as shown in Figure 4. In either configuration, the distance between the units must provide adequate airflow as well as room for piping to the unit and access for maintenance.

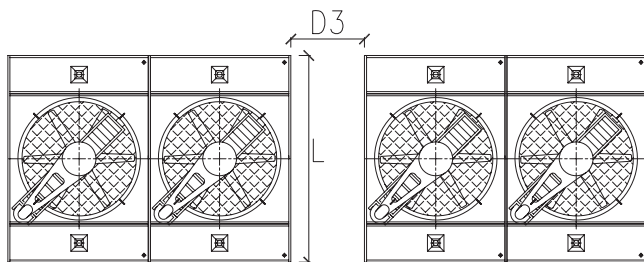


FIGURE 3: MULTIPLE UNITS PLACED END TO END

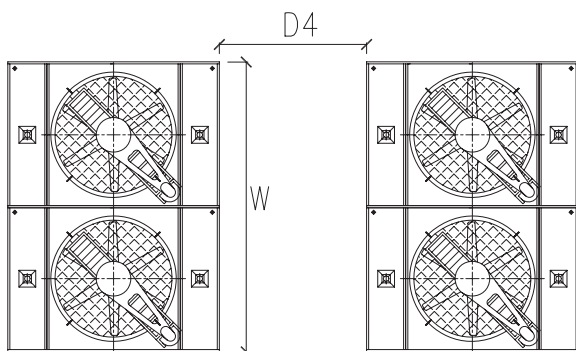


FIGURE 4: MULTIPLE UNITS PLACED SIDE-BY-SIDE

SPECIAL ENCLOSURE INSTALLATION

1) Solid Wall Enclosures or Wells

Figure 5 shown a cooling tower is installed in a well. When considering a multiple-cell unit located in a well, the D5 and D6 dimensions, found in Table 3, must be used as absolute minimums.

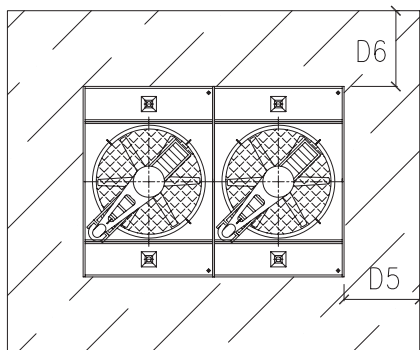


FIGURE 4: MULTIPLE UNITS PLACED SIDE-BY-SIDE

The unit should be oriented so that the air flow uniformly to the air inlets on all louver sides of the unit. The air discharge of the unit must be level with or higher than surrounding walls.

TABLE 3

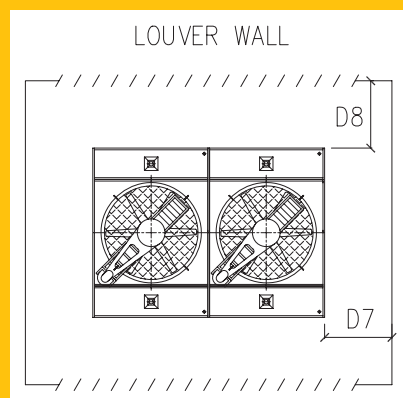
Tower Model TXS	End Wall Length, L mm	Minimum Dimension, mm D5 (End Wall Panel Side)
All models	All sizes	1000
Tower Model TXS	Louver Width, W mm	Minimum Dimension, mm D6 (Louver Side to Solid wall)
200-2L ~ 600-2L	Below 4500	3500
700-2L ~ 1000-2L 400-3E ~ 550-3E 600-3L ~ 700-3L 600-3S ~ 700-3S	Below 7000	4000
1050-3L ~ 1200-3L 600-4E ~ 700-4E 800-4L ~ 1000-4L 800-4S ~ 1000-4S	Below 10000	6000
1350-3L ~ 1500-3L 1400-4L ~ 2000-4L	Below 14000	6000

Louvered Wall Enclosures

TX-S Series Cooling Tower can also be installed in enclosures with louvered or slotted walls and an open top (Figure 6) with this type of enclosure, the air flow patterns will be a mixture of the open type and well installation. The inlet air will be drawn from the top as well as through the louvers or slots.

When considering a multiple-cell unit located in a louvered wall enclosures, the D7 and D8 dimensions, found in Table 4, must be used as absolute minimums.

FIGURE 6: LOUVERED WALL ENCLOSURE



Tower Model TXS	End Wall Length, L mm	Minimum Dimension, mm D7 (End Wall Panel Side)
All models	All sizes	1000
Tower Model TXS	Louver Width, W mm	Minimum Dimension, mm D8 (Louver Side to Louvered wall)
All models	All sizes	2500

TX-S SERIES CROSSFLOW COOLING TOWER SPECIFICATION

1.0 GENERAL

The cooling tower shall be induced-draft, crossflow, rectangular, film filled, FRP Cooling Tower. Cooling tower shall be Truwater TX-S Series or approved equivalent.

2.0 CAPACITY

Cooling Tower shall be capable of providing the thermal performance scheduled.

3.0 PERFORMANCE WARRANTY

The cooling tower manufacturer shall guarantee that the tower supplied will meet the specified performance conditions when the tower is installed according to plans.

4.0 CONSTRUCTION

The cooling tower main frame structure shall be hot dip galvanized steel (HDG). The casing shall be made of PVC.

5.0 MECHANICAL EQUIPMENT

5.1 Fan(s) shall be propeller-type, incorporating heavy-duty blades of aluminum alloy. Blades shall be individually adjustable. Fan blades shall be factory balanced and assembled. Pitch angle should be variable to allow flexibility.

5.2 The V-belts shall be of rubber with fabric impregnated able to withstand the adverse ambient conditions of 50°C and 100% R.H. The pulleys shall be cast iron with the grooves of standard dimensions. The entire V-belt & pulley set must be fully enclosed in a FRP molded case to protect the v-belts from in contact with the humid discharge air.

5.3 Motor(s) shall be TEFC, weatherproof sq. caged induction type suitable for 3ph /50Hz/415V power supply and with 1450 rpm. Motor shall be installed outside the discharge air stream.



PVC Casing



HDG Steel Structure



Mechanical Equipment



Hot Water Basin

6.0 INFILL

6.1 Infill shall be Vacuum-formed film-type, rigid, corrugated PVC sheets. The infill shall be bonded with specially formulated glue in blocks. The infill modules shall be resistant to rot, fungi, bacteria and organic/inorganic acids and alkali as commonly found in cooling towers. The design shall meet 0.02% drift loss of the circulation water flow.

7.0 HOT WATER DISTRIBUTION SYSTEM

The hot water distribution shall be of open gravity type basin. It shall be made of FRP material. It shall be light weight and non-corrosive to maintain stable water sprinkling effect.

8.0 COLD WATER BASIN

The cold water basin shall be of FRP and supported on HDG steel framework. The basin shall be designed with sufficient water capacity to avoid air entrainment in the outlet during operating conditions. The basin shall be equipped with suction strainer, make-up ball valve, overflow and drain. For multiple tower arrangement, equalizing pipes between basins shall be provided to maintain the same level of water in each basin.

9.0 ACCESS AND SAFETY

Ladder shall be provided for inspection & maintenance purposes. HDG steel fan guard shall be provided over each fan cylinder.

TCT/B/003

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