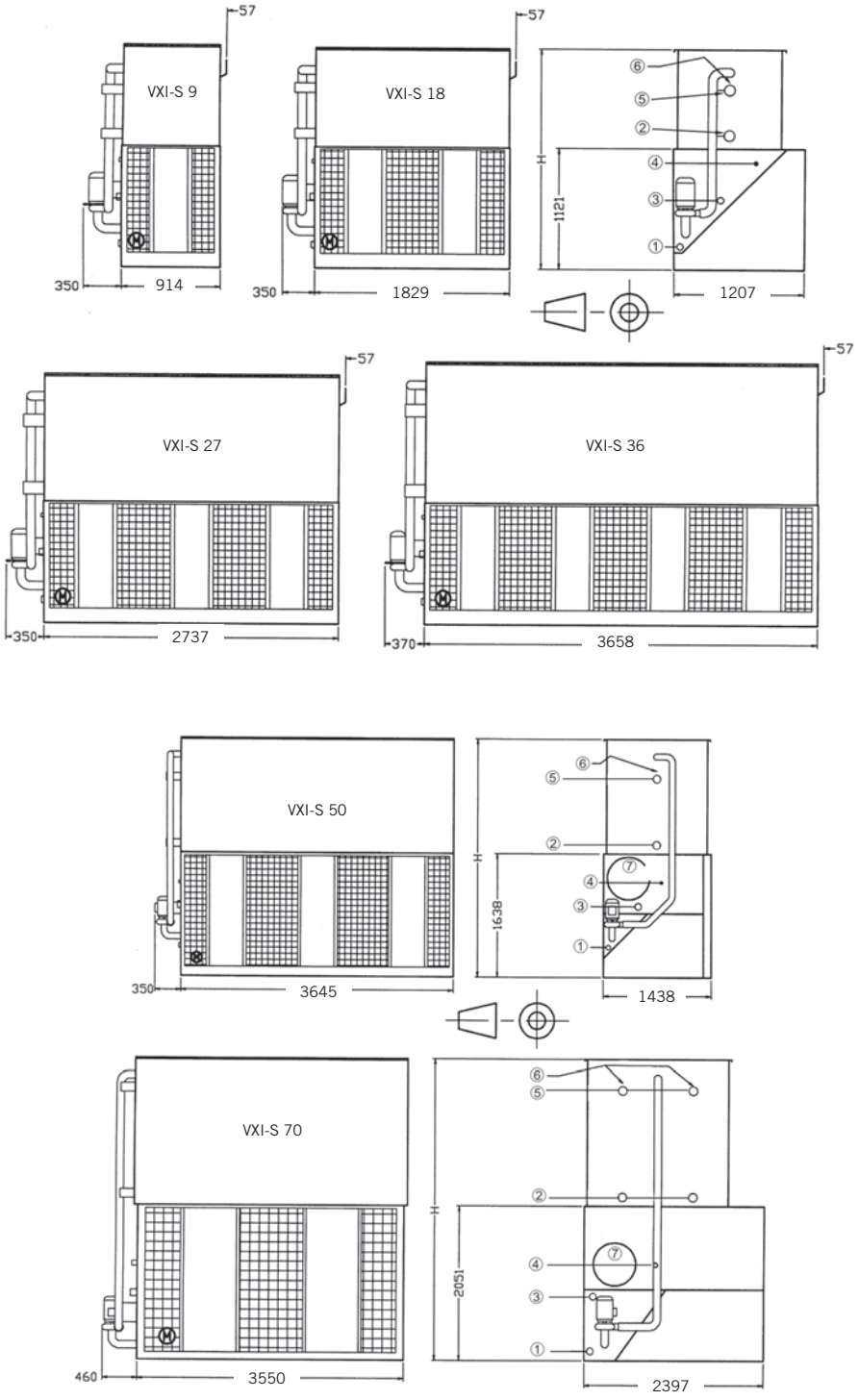
TECHNICAL DATA

VXI-S Closed Circuit Cooling Towers

Technical Data



1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

VXI-S 9 TO VXI-S 70 CLOSED CIRCUIT COOLING TOWERS

Technical Data

Model Number VXI-S	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)	Air Flow (m^3/s)	Fan Motor (kW)	Spray Water Flow (l/s)	Pump Motor (kW)	Coil Volume (L)	H (mm)
VXI-S 9-1	660	780	660*	2.3	1.5	2.2	0.37	79	2230
VXI-S 9-2	730	870	450	2.2	1.5	2.2	0.37	98	2445
VXI-S 9-3	830	980	540	2.5	2.2	2.2	0.37	117	2660
VXI-S 18-0	920	1120	920*	4.6	4.0	4.7	0.75	98	2015
VXI-S 18-1	1030	1270	1030*	5.0	4.0	4.7	0.75	148	2230
VXI-S 18-2	1160	1440	740	4.8	4.0	4.7	0.75	189	2445
VXI-S 18-3	1330	1650	880	5.5	5.5	4.7	0.75	231	2660
VXI-S 27-1	1410	1850	1410	7.6	5.5	7.3	0.75	208	2290
VXI-S 27-2	1620	2110	1080	6.8	5.5	7.3	0.75	269	2530
VXI-S 27-3	1820	2390	1290	7.1	7.5	7.3	0.75	333	2760
VXI-S 36-2	2030	2720	1390	10.4	7.5	9.5	1.1	360	2530
VXI-S 36-3	2330	3100	1650	10.9	11.0	9.5	1.1	443	2760
VXI-S 50-2	3420	4490	2230	14.6	11.0	13.9	2.2	515	3045
VXI-S 50-3	3700	5030	2640	15.7	11.0	13.9	2.2	628	3280
VXI-S 50-4	4000	5570	2985	16.9	15.0	13.9	2.2	765	3515
VXI-S 70-2	4620	6860	2980	20.8	15.0	19.2	2.2	715	3460
VXI-S 70-3	5285	7705	3540	22.9	18.5	19.2	2.2	886	3695
VXI-S 70-4	5790	8550	4080	22.2	18.5	19.2	2.2	1060	3930

* Indicates unit ships in one piece.

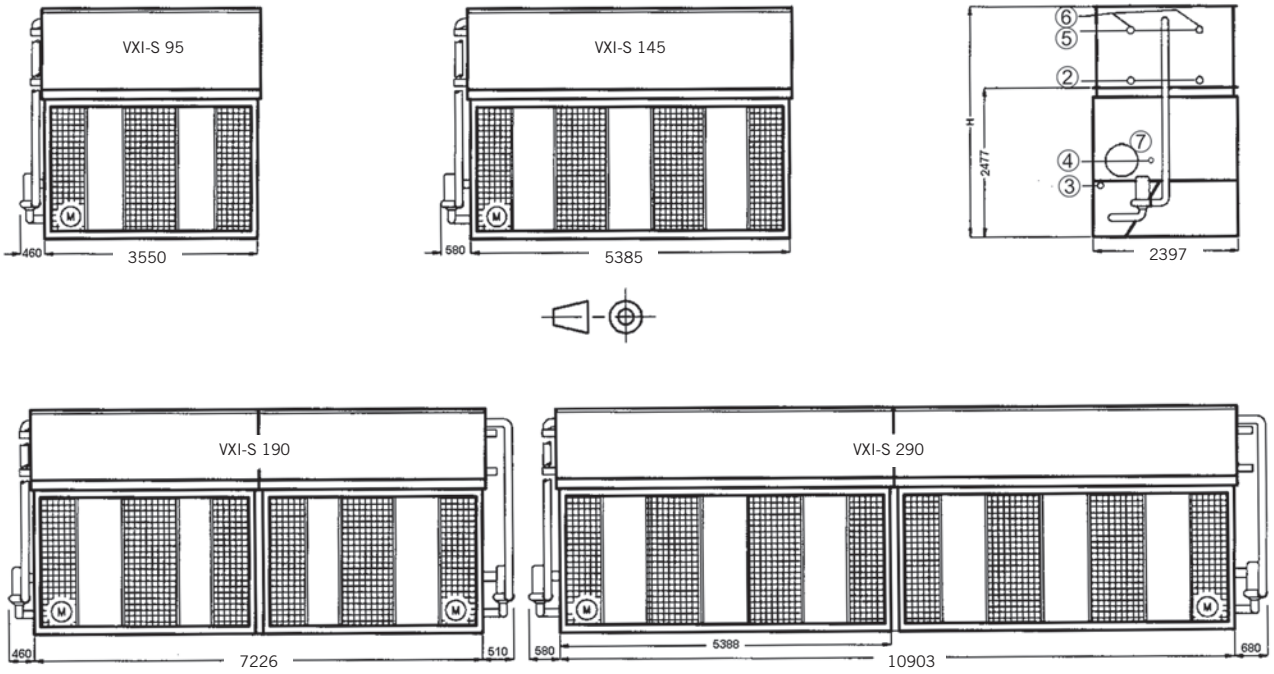
NOTES
Models VXI-S 9 to VXI-S 70:

1. Pipe sizes are nominal diameters. All connections through 150mm are BSP male thread except for 15mm vent which is FPT. Connections larger than 150mm are bevelled for welding. Coil connections are capped and seal welded.
2. Coil connections on models VXI-S 9-1 to VXI-S 9-3 are 80mm diameter, on all other models coil connection diameter is 100mm.
3. On VXI-S 9 to VXI-S 36 access doors located on the opposite side to air inlet. Ensure sufficient space for entry when installing.
4. Dimensional drawings show standard (right hand) arrangements. Left hand arrangement can be furnished by special order.
5. Coil, overflow, make-up and spray water connections are always located on the same end of the unit.
6. Coil connection locations are approximate. Dimensions should not be used for prefabrication of connecting piping.
7. Coil section is normally the heaviest section.
8. For external static pressures up to 125 Pa use next larger motor size.
9. **When flow rate on model VXI-S 50 exceeds 30 l/s the quality of coil connections will double.**
10. VXI-S fluid coolers can be installed indoors with ductwork attached to the discharge only. If inlet ductwork is required, units must be equipped with solid bottom panels. Consult local BAC representative for details.
11. Models VXI-S 9 through to VXI-S 70 have one coil section and one fan motor which can be switched on and off. Multiple speed motors are available for additional steps of capacity control. Consult local BAC representative for details.
12. For dry operation, standard motors must be increased one size to avoid motor overloading.

Do not use for construction. Refer to factory certified dimensions. In the interest of product improvement, specifications and dimensions are subject to change without notice.

VXI-S 95 TO VXI-S 290 CLOSED CIRCUIT COOLING TOWERS

Technical Data



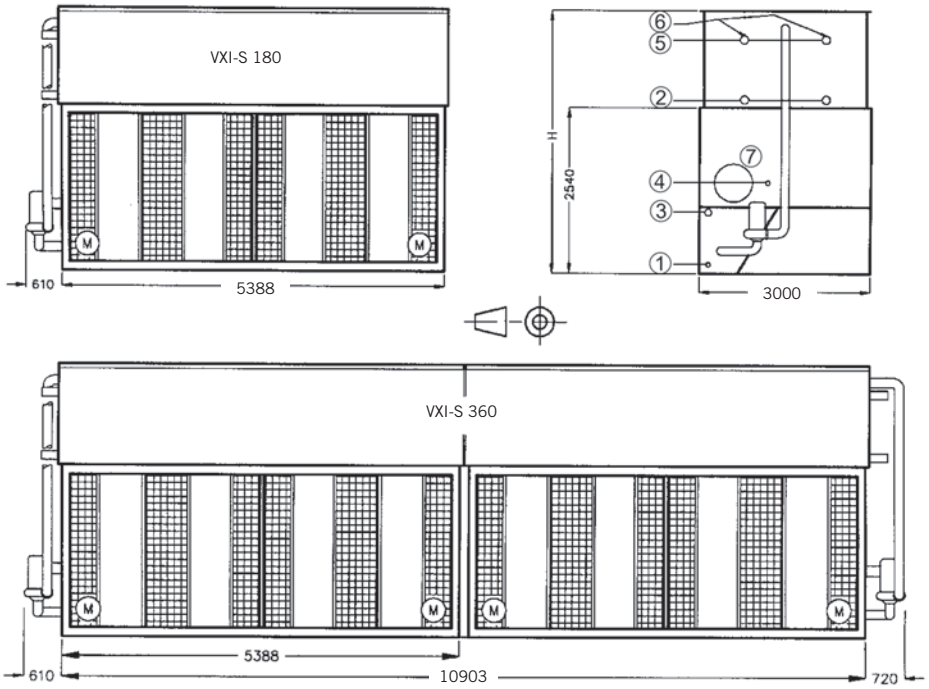
1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

Model Number VXI-S	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)	Air Flow (m^3/s	Fan Motor (kW)	Spray Water Flow (l/s)	Pump Motor (kW)	Coil Volume (L)	H (mm)
VXI-S 95-2	4990	7740	3200	27.6	30.0	25.2	3.0	896	3885
VXI-S 95-3	5630	8630	3850	26.7	30.0	25.2	3.0	1116	4120
VXI-S 95-4	6180	9520	4470	26.2	30.0	25.2	3.0	1334	4355
VXI-S 145-1	6300	10100	3780	39.9	37.0	38.5	5.5	1012	3650
VXI-S 145-2	7280	11460	4715	38.6	37.0	38.5	5.5	1342	3885
VXI-S 145-3	8270	12810	5710	37.5	37.0	38.5	5.5	1666	4120
VXI-S 145-4	9260	14160	6690	36.6	37.0	38.5	5.5	2002	4355
VXI-S 190-2	9820	15400	3390*	55.4	(2) 30.0	50.4	(2) 3.0	1792	3885
VXI-S 190-3	11100	17160	3850	53.4	(2) 30.0	50.4	(2) 3.0	2232	4120
VXI-S 190-4	12305	18920	4470	52.5	(2) 30.0	50.4	(2) 3.0	2668	4355
VXI-S 290-1	12680	20350	5120*	79.5	(2) 37.0	77.0	(2) 5.5	2024	3650
VXI-S 290-2	14570	22980	5120*	77.8	(2) 37.0	77.0	(2) 5.5	2684	3885
VXI-S 290-3	16550	25700	5710	75.0	(2) 37.0	77.0	(2) 5.5	3332	4120
VXI-S 290-4	18505	28420	6690	73.1	(2) 37.0	77.0	(2) 5.5	4004	4355

* Indicates pan section is heaviest section.

VXI-S 180 TO VXI-S 360 CLOSED CIRCUIT COOLING TOWERS

Technical Data

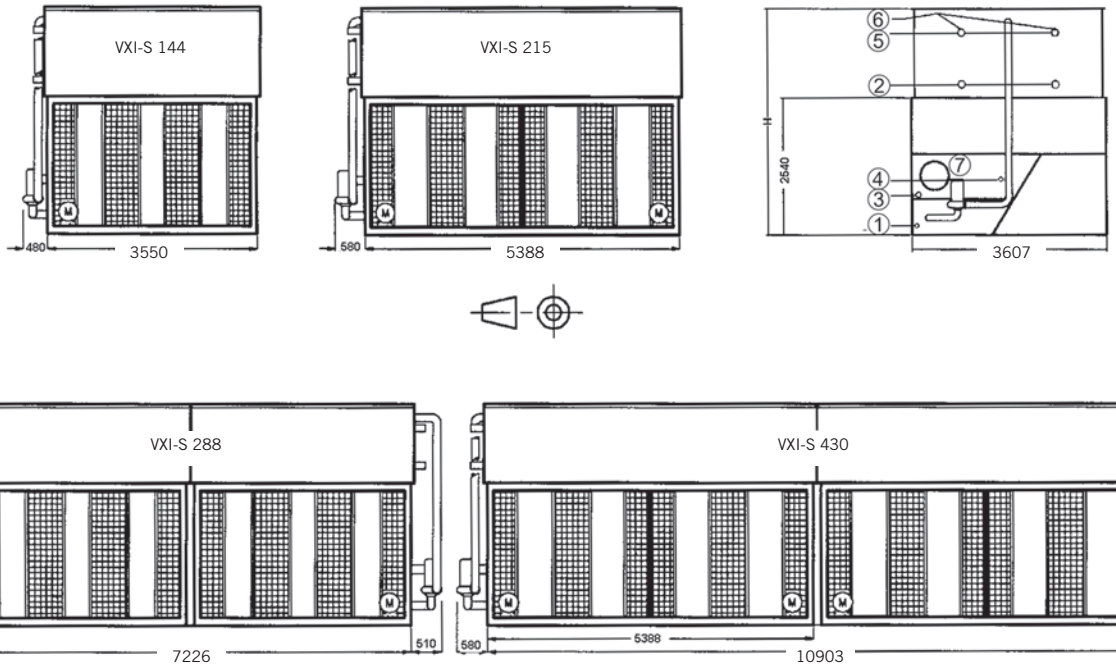


1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

Model Number VXI-S	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)	Air Flow (m^3/s	Fan Motor (kW)	Spray Water Flow (l/s)	Pump Motor (kW)	Coil Volume (L)	H (mm)
VXI-S 180-2	10100	14080	6920	51.4	(2) 18.5	46.7	5.5	1698	3945
VXI-S 180-3	11350	15740	8160	50.0	(2) 18.5	46.7	5.5	2106	4180
VXI-S 180-4	12680	17400	9180	52.0	(2) 22.0	46.7	5.5	2532	4413
VXI-S 360-2	20160	28060	6920	102.9	(4) 18.5	93.4	(2) 5.5	3396	3945
VXI-S 360-3	22680	31390	8160	100.1	(4) 18.5	93.4	(2) 5.5	4212	4180
VXI-S 360-4	25320	34720	9310	104.0	(4) 22.0	93.4	(2) 5.5	5064	4413

VXI-S 144 TO VXI-S 430 CLOSED CIRCUIT COOLING TOWERS

Technical Data



1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

Model Number VXI-S	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)	Air Flow (m^3/s	Fan Motor (kW)	Spray Water Flow (l/s)	Pump Motor (kW)	Coil Volume (L)	H (mm)
VXI-S 144-2	7270	12070	4680	38.6	30.0	39.1	5.5	1370	3945
VXI-S 144-3	8210	13390	5620	40.2	37.0	39.1	5.5	1706	4180
VXI-S 144-4	9870	14710	6550	39.4	37.0	39.1	5.5	2040	4413
VXI-S 215-1	6130	15830	5510	59.4	(2) 22.0	56.8	7.5	1548	3710
VXI-S 215-2	10460	17730	6900	57.9	(2) 22.0	56.8	7.5	2047	3945
VXI-S 215-3	11900	19730	8310	62.3	(2) 30.0	56.8	7.5	2548	4180
VXI-S 215-4	13435	21690	9710	60.4	(2) 30.0	56.8	7.5	3060	4413
VXI-S 288-2	14520	24230	5280*	77.3	(2) 30.0	78.2	(2) 5.5	2740	3945
VXI-S 288-3	16510	27330	5620	80.0	(2) 37.0	78.2	(2) 5.5	3412	4180
VXI-S 288-4	18280	30420	6550	78.8	(2) 37.0	78.2	(2) 5.5	4080	4413
VXI-S 430-1	18230	31750	7210*	119.2	(4) 22.0	113.6	(2) 7.5	3096	3710
VXI-S 430-2	20890	35550	7210*	115.9	(4) 22.0	113.6	(2) 7.5	4094	3945
VXI-S 430-3	23770	39550	8310	124.6	(4) 30.0	113.6	(2) 7.5	5096	4180
VXI-S 430-4	26845	43560	9710	120.7	(4) 30.0	113.6	(2) 7.5	6120	4413

* Indicates pan section is heaviest section.

NOTES
Models VXI-S 95 to VXI-S 430:

1. Pipe sizes are nominal diameters. All connections through 150mm are BSP male thread except for 15mm vent which is FPT. Connections larger than 150mm are bevelled for welding. Coil connections are capped and seal welded.
2. Coil connections on all models are 100mm diameter.
3. Coil connection locations are approximate. Dimensions should not be used for prefabrication of connecting piping.
4. Coil section is normally the heaviest section.
5. For external static pressures up to 125 Pa use next larger motor size.
6. Models VXI-S 95, 145, 180 and 215 are single coil section units. For these models coil, overflow, make-up and spray water connections are always located on the same end of the unit. Models can be supplied as standard in right hand arrangement as shown. Left hand arrangement can be supplied on special order. Fan cycling of these models result in only on-off operation.
7. Models VXI-S 190, 290, 288, 360 and 430 are double coil section units. Coil, overflow and spray water connections are provided on both ends. Make-up connection is provided on one end only. Fans of each section can be cycled to get a 50% capacity control.
8. **When the flowrate on models VXI-S 144, 180, 215 exceeds 60 l/s and on models VXI-S 288, 360 and 430 exceeds 120 l/s, the quantity of coil connections will double.**

Do not use for construction. Refer to factory certified dimensions. In the interest of product improvement, specifications and dimensions are subject to change without notice.

Structural Support

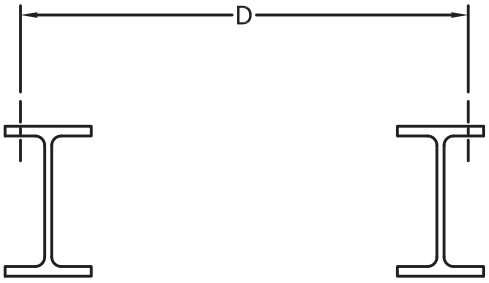
Model Number VXI-S	D (mm)	Max Deflection (mm)	Model Number VXI-S	D (mm)	Max Deflection (mm)
9	1153	2.4	**180**	2934	13
18	1153	5	**360**	2934	13
27	1153	8	**144**	3537	13
36	1153	10	**215**	3537	13
50	1378	10	**288**	3537	13
70	2327	10	**430**	3537	13
95	2327	10			
145	2327	13			
190	2327	13			
290	2327	13			

D: Centre line distance between bolt holes of unit.

D: Distance to a third support beam which is required with the optional sound attenuator package: 905mm.

VIBRATION ISOLATORS

If vibration isolators are used, a rail or channel must be provided between the unit and the isolators to provide stiff and continuous unit support.



BEAM SIZE AND LENGTH

Beam size should be calculated in accordance with accepted structural practice. Use 65% of the operating weight as a uniform load on each beam. The length of the beam must be at least equal to the length of the pan. Maximum permissible beam deflection and centre line distances between bolt holes are tabulated at left.

VXI-S **Questions?**

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