



# VXI 144-215-288-430

## Closed circuit cooling towers

### Engineering data

**Remark:** Do not use for construction. Refer to factory certified dimensions & weights. This page includes data current at time of publication, which should be reconfirmed at the time of purchase. In the interest of product improvement, specifications, weights and dimensions are subject to change without notice.

### General notes

1. Make up, overflow, suction, drain connections and access door can be provided on side opposite to that shown; consult your BAC representative.
2. Unit height is indicative, for precise value refer to certified print.
3. Shipping/operating weights indicated are for units without accessories such as sound attenuators, discharge hoods, etc. Consult factory certified prints to obtain weight additions and the heaviest section to be lifted.
4. The drawings for units with only on spray pump show the standard "right hand" arrangement, which has the air inlet side on the right when facing the connection end.
5. Coil, overflow, make up and spray water connections are always located on the same end of the unit. For double pump units an additional set of coil connections and an additional overflow connection will be installed on the other end of the unit.
6. For indoor applications of closed circuit cooling towers, the room may be used as a plenum with ductwork is required, an enclosed fan section must be specified; consult your BAC representative for details.
7. Fan kW is at 0 Pa ESP. To operate against external static pressure up to 125 Pa, increase each fan motor one size.
8. On models VXI 9 to VXI 36 access doors are located at the opposite of the air inlet side, ensure sufficient space for entry when positioning these units.  
When flow rate on models VXI 27, VXI 36, VXI 50 exceeds 30l/s the quantity of coil connections will be double.
9. When flow rate on models VXI 70, VXI C72, VXI C108, VXI 95, VXI 145, VXI 180, VXI 144, VXI 215 exceeds 60 l/s the coil connections will be double when flow rate on models VXI 190, VXI 290, VXI 360, VXI 288 and VXI 430 exceeds 120l/s the quantity of coil connections will be double.  
Models VXI 9 through VXI 145 have one coil section and one fan motor, which can be switched on or off.
10. Models VXI-95, 144, 145, 180 and 215 have one coil section and one or two fan motors per coil casing section. Fan cycling results in only on-off operation. On these Units all fans need to operate simultaneously. Models vxI-190, 288, 290,360 and 430 have 2 coils casing section. Fan cycling results in only on-off operation. On these units all fans need to operate simultaneously per coil casing section. Multiple speed motors are available for additional steps of capacity control can be obtained with fan discharge dampers. Consult your local BAC representative.
11. For dry operation, standard motors must be increased one size to avoid motor overloading. Extended surface coils are available to vastly increase dry capacity without motor size increase. Consult your local



BAC representative for selection and pricing.

**Last update:** 01/11/2024

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1. Drain ND50; 2. Outlet connection ND100; 3. Overflow ND80; Make up ND50 for VXI 144-x, 215-X, 288-X and ND80 for VXI 430-X; 5. Inlet connection ND100; 6. Vent ND15; 7. Access door.



Model	Weights (kg)			Dimensions (mm)			Air Flow (m <sup>3</sup> /s)	Fan Motor (kW)	Water Flow (l/s)	Pump Motor (kW)	Coil Volume (L)
	Oper. Weight (kg)	Ship. Weight(kg )	Heaviest Section (kg)	L	W	H					
VXI 144-2	12070	7270	4680	3550	3607	4075	38.6	(1x) 30.0	39.1	(1x) 4.0	(2x) 686
VXI 144-3	13390	8210	5610	3550	3607	4310	40.2	(1x) 37.0	39.1	(1x) 4.0	(2x) 851
VXI 144-4	14710	8470	6550	3550	3607	4545	39.4	(1x) 37.0	39.1	(1x) 4.0	(2x) 1015
VXI 215-1	15830	9130	5510	5388	3607	3840	59.4	(2x) 22.0	56.8	(1x) 4.0	(2x) 774
VXI 215-2	17730	10460	6900	5388	3607	4075	57.9	(2x) 22.0	56.8	(1x) 4.0	(2x) 1024
VXI 215-3	19730	12035	8310	5388	3607	4310	62.3	(2x) 30.0	56.8	(1x) 4.0	(2x) 1272
VXI 215-4	21690	13435	9710	5388	3607	4545	60.4	(2x) 30.0	56.8	(1x) 4.0	(2x) 1521
VXI 288-2	24230	14520	5280	7226	3607	4075	77.3	(2x) 30.0	78.2	(2x) 4.0	(4x) 686
VXI 288-3	26850	16520	5610	7226	3607	4310	80.0	(2x) 37.0	78.2	(2x) 4.0	(4x) 851
VXI 288-4	29540	18280	6550	7226	3607	4545	78.8	(2x) 37.0	78.2	(2x) 4.0	(4x) 1015
VXI 430-1	31750	18230	7210	10903	3607	3840	119.2	(4x) 22.0	113.6	(2x) 4.0	(4x) 774
VXI 430-2	35550	20890	7210	10903	3607	4075	115.9	(4x) 22.0	113.6	(2x) 4.0	(4x) 1024
VXI 430-3	39550	23770	8300	10903	3607	4310	124.6	(4x) 30.0	113.6	(2x) 4.0	(4x) 1272
VXI 430-4	43560	26845	9710	10903	3607	4545	120.7	(4x) 30.0	113.6	(2x) 4.0	(4x) 1521